SCHOOL FINANCE PROFILES

Profiles of the K-12 school finance systems of all 50 states and D.C.

2021-2022



UNIVERSITY OF MIAMI SCHOOL of EDUCATION & HUMAN DEVELOPMENT



Matthew Di Carlo Jordan Beal Bruce D. Baker Mark Weber

March 2025



The Albert Shanker Institute, endowed by the American Federation of Teachers and named in honor of its late president, is a nonprofit, nonpartisan organization dedicated to three themes—children's education, unions as an advocate for quality, and both civic education and freedom of association in the public life of democracies. Its mission is to generate ideas, foster candid exchanges and promote constructive policy proposals related to these issues.

The Institute commissions original analyses, organizes seminars, sponsors publications and subsidizes selected projects. Its independent board of directors is composed of educators, business representatives, labor leaders, academics and public policy analysts. This document does not necessarily represent the views of the members of its board of directors.



The University of Miami School of Education and Human Development's mission is to produce knowledge and prepare the next generation of leaders, researchers, and agents of change and well-being in education and the community.



Rutgers University Graduate School of Education (GSE) is committed to *Advancing Excellence and Equity in Education*. For nearly a century, the GSE has been a national leader in preparing educators, researchers, and leaders who create effective and equitable learning opportunities for diverse learners. Rutgers GSE is consistently ranked among the best schools of education in the country. In partnership with educators, our world-class faculty conduct innovative research to understand a broad range of educational issues and to advance educational practices and policies. GSE alumni have gone on to become effective practitioners, transformative leaders, and accomplished researchers in the United States and throughout the world.

ABOUT THE AUTHORS

Matthew Di Carlo is a senior fellow at the Albert Shanker Institute in Washington, D.C. He has a Ph.D. in sociology from Cornell University.

Jordan Beal is a fellow at the Albert Shanker Institute in Washington, D.C. She is currently completing her master's degree program in Educational Transformation at Georgetown University.

Bruce D. Baker is Professor and chair of the Department of Teaching and Learning at the University of Miami. He is also author of *Educational Inequality and School Finance: Why Money Matters for America's Students*.

Mark Weber is the Special Analyst for Education Policy at the New Jersey Policy Perspective and a lecturer in education policy at Rutgers University, where he earned his PhD. He is also a music teacher in Warren Township, NJ.

Copyright and permissions

The School Finance Indicators Database, as well as the contents of this report, are the sole property of the authors. Public use of the datasets and results is encouraged, with proper attribution. Any alternative use of the data, models, or methods of the SFID must be approved by the authors.

Copyright © 2025 Albert Shanker Institute

Introduction to the profiles

School funding is both enormously important and extremely complicated. Large amounts of finance data are collected every year by districts, states, and the federal government. These data are used by scholars and organizations to produce volumes of reports and papers, which vary widely in terms of empirical rigor, and sometimes reach conflicting conclusions. This can be frustrating for policymakers, parents, educators, advocates, and other stakeholders.

The primary purpose of the **School Finance Indicators Database** (SFID) is to cut through this clutter. It is a collection of finance and resource allocation measures that are based on sophisticated and widely accepted methods, but also designed to be easy for non-researchers to understand and use. The full state database, as well as user-friendly documentation, online data visualizations, and other resources are freely available to the public at the SFID website: <u>schoolfinancedata.org</u>.

Each year, we publish a report summarizing key findings from the SFID. Although this report does present data from every state, it does not allow for the kind of convenient *state-specific* summary that many users desire. Moreover, while all of our state indicators data are available to the public, the fact remains that analyzing datasets, as well as compiling and contextualizing results from a variety of different measures, can be difficult and time-consuming. **These 51 one-page state profiles pull together a selection of key measures into one place and provide a succinct summary of each state's (and D.C.'s) public K-12 finance system.** They are published every year as an accompaniment to the annual report. Note that the individual state profiles compiled in this document can be downloaded as separate PDF files at the SFID website.

Characterizing complex state finance systems parsimoniously is a challenge. The State Indicators Database (SID), which is the primary product of the SFID, includes approximately 125 variables measuring revenue and spending at different levels (e.g., federal, state, local), resource allocation (e.g., staff ratios, teacher pay), and other topics. The indicators are statistically adjusted for factors, such as regional wage variation and poverty, to allow for better comparisons within and between states (many of the indicators are available over the past 25-30 years). Any attempt to include all or even most of these measures in a single profile would likely overwhelm many users. It is also unnecessary.

Instead, the profiles, like the annual report, focus on three "core" measures from the state database, which together offer an effective overview of the fairness and sufficiency of each state's finance system:

- 1. Effort: how much of a state's total resources or capacity are spent directly on public K-12 education;
- 2. **Statewide adequacy**: how many of states' students are in districts with resources sufficient to meet common outcome goals;
- 3. **Equal opportunity**: whether funding is more adequate for lower-poverty districts than for higher-poverty districts.

In the profiles, on both the front and back sides, we provide descriptions of each of these three measures, and we try to present the data clearly and in context. This includes, for example, comparisons of each state with the nation as a whole, and, where appropriate, trends over time. The profiles also include overall state scores.

On the back of each profile you can find more detailed information about the indicators and notes about how they are presented and might be interpreted. This back page also lists the names of SID variables used, should readers wish to download and analyze the data for themselves (note that some of the results in the profiles require use of the SFID's District Cost Database, which is also freely available to download on the SFID website). It is our hope that the profiles contribute to improving the quality and productivity of school finance debates and policymaking.



STATE SCHOOL FINANCE PROFILE

Period

N

\$ 2012 2021-22 SCHOOL YEAR

AL

-0.17

-0.16

-0.3

U.S.

-0.13

-0.16

2022

-0

ALABAMA

FISCAL EFFORT

Summary: This 2021-22 profile of Alabama's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Alabama scores 26 out of 100, which ranks 39th out of the 47 states with possible ratings.

CONTEXTUAL STATS	AL	U.9
Child (5-17yo) poverty rate (%)	20.6	15.
Public school coverage (%)	82.6	85.
Percent revenue from state sources	51.9	43.
Total enrollment (U.S. rank)	748 274 (24	

This net change in effort between 2006 and

Net change by period (% pts.)

AL's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

AL is a relatively low capacity state, with a

GSP per capita ranked #48 in the nation.

Statewide adequacy trend, 2012-22

Spending in AL was less adequate in 2022

standard deviations) of -0.128 s.d.

compared with 2012, with a net change (in

ALABAMA AVERAGE FUNDING GAP, 2012-22

\$6.10 billion (10.4 percent) higher.

recovered to its 2006 level during these years,

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #25 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 26

Rating relative to other states (high I medium I low): AL is a medium effort state.

Fiscal effort summary		
Alabama effort	3.69%	
U.S. average effort	3.43%	

- AL spends 3.69 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.26 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #17 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in AL is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	76.9% (# 41)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	54.6% (# 44)	

The typical AL student's district spends 30.0 pct. below adequate levels (rank #46).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in AL is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	-11.0 %	
B. High/highest poverty districts	-53.9 %	
C. Opportunity gap (B minus A)	-42.9 pts	

AL's opportunity gap of -42.9 points is ranked #29 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



EO gaps by student outcome gaps

2017

AL's adequacy gap was ranked #45 in 2012

(#1 = most adequate) and #46 in 2022.



 AL's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.84 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

OVERALL STATE

SCORE NOT

AVAILBLE



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

AK

-0.25

0.43

0.18

U.S.

-0.13

-0.16

-0

ALASKA

Summary: This 2021-22 profile of Alaska's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. We cannot calculate an overall state score for Alaska, as data are not available for one or more of the measures we use in calculating those overall scores (see below).

CONTEXTUAL STATS	AK	U.S.
Child (5-17yo) poverty rate (%)	11.9	15.5
Public school coverage (%)	82.2	85.1
Percent revenue from state sources	57.9	43.7
Total enrollment (U.S. rank)	129.94	4 (47)

Fiscal effort trend, 2006-22

Net change by period (% pts.)

Fiscal effort is a devote to their sch economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): AK is a high effort state.

Fiscal effort summary	1
Alaska effort	4.34%
U.S. average effort	3.43%

- AK spends 4.34 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.91 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #3 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).



We do not publish statewide adequacy estimates for Alaska, due to the state's unique climate and geography, as well as its isolation from other labor markets.

EQUAL OPPORTUNITY

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty guintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

> Equal opportunity cannot be calculated for Alaska (see above).

meas	sure	9 0	f how	m	uch	state	es
nools	as	a	share	of	the	ir	

EO gaps by student outcome gaps



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
 - Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
 - The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
 - Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
 - The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
 - Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e



STATE SCHOOL FINANCE PROFILE

Period

N

C

ې 2012 2021-22 SCHOOL YEAR

AΖ

-0.31

-0.49

-0.80

U.S.

-0.13

-0.16

2022

-0

ARIZONA

FISCAL EFFORT

Summary: This 2021-22 profile of Arizona's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Arizona scores 16 out of 100, which ranks 45th out of the 47 states with possible ratings.

CONTEXTUAL STATS	AZ	U.S.
Child (5-17yo) poverty rate (%)	14.9	15.5
Public school coverage (%)	88.2	85.1
Percent revenue from state sources	41.0	43.7
Total enrollment (U.S. rank)	1,133,2	84 (13)

AZ's 2022 effort level is 0.80 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

AZ's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

AZ is a relatively low capacity state, with a

GSP per capita ranked #35 in the nation.

Statewide adequacy trend, 2012-22

Spending in AZ was more adequate in 2022

compared with 2012, with a net change (in

ARIZONA AVERAGE FUNDING GAP, 2012-22

2017

AZ's adequacy gap was ranked #41 in 2012

(#1 = most adequate) and #40 in 2022.

standard deviations) of 0.095 s.d.

\$18.89 billion (29.0 percent) higher.

recovered to its 2006 level during these years,

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #47 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 16

Rating <u>relative to other states</u> (high I medium I low): **AZ is a low effort state.**

Fiscal effort summary	
Arizona effort	2.46%
U.S. average effort	3.43%

- AZ spends 2.46 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.97 percentage points lower than the unweighted U.S. average of 3.43 percent (rank **#49** of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in AZ is low.

Percent underfunded (rank #1 =	most adequate)
Pct. of students in below adequate districts (rank of 48)	69.7% (# 38)
Pct. of students in <i>chronically</i> below adequate districts (rank)	34.0% (# 37)

 The typical AZ student's district spends 17.3 pct. below adequate levels (rank #40).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in AZ is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	-10.3 %	
B. High/highest poverty districts	-30.2 %	
C. Opportunity gap (B minus A)	-19.9 pts	

 AZ's opportunity gap of -19.9 points is ranked #5 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (AZ region: West)



EQUAL OPPORTUNITY





 AZ's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.87 s.d. below its lowest-poverty districts (blue dot).

www.schoolfinancedata.org



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

Period

N

C

\$ 2012 2021-22 SCHOOL YEAR

AR

0.23

-0.80

-0.56

U.S.

-0.13

-0.16

2022

-0

ARKANSAS

Summary: This 2021-22 profile of Arkansas's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Arkansas scores 29 out of 100, which ranks 37th out of the 47 states with possible ratings.

CONTEXTUAL STATS	AR	U.S
Child (5-17yo) poverty rate (%)	19.6	15.
Public school coverage (%)	85.9	85.
Percent revenue from state sources	67.0	43.
Total enrollment (ITS_rank)	489 56	5 (32)

AR's 2022 effort level is 0.56 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

AR's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

recovered to its 2006 level during these years,

total 2016-22 spending would have been

AR is a relatively low capacity state, with a

Statewide adequacy trend, 2012-22

Spending in AR was less adequate in 2022

standard deviations) of -0.200 s.d.

compared with 2012, with a net change (in

ARKANSAS AVERAGE FUNDING GAP, 2012-22

GSP per capita ranked #50 in the nation.

\$2.67 billion (7.0 percent) higher.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #38 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 29

Rating relative to other states (high I medium I low): AR is a high effort state.

Fiscal effort summary		
Arkansas effort	3.84%	
U.S. average effort	3.43%	

- AR spends 3.84 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.41 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #11 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in AR is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	78.1% (# 42)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	49.0% (# 43)	

The typical AR student's district spends 25.7 pct. below adequate levels (rank #45).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in AR is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	-12.1 %	
B. High/highest poverty districts	-41.3 %	
C. Opportunity gap (B minus A)	-29.3 pts	

AR's opportunity gap of -29.3 points is ranked #18 out of 47 (#1=most equal).



PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (AR region: South)



EQUAL OPPORTUNITY





 AR's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.68 s.d. below its lowest-poverty districts (blue dot).

2017

AR's adequacy gap was ranked #40 in 2012

(#1 = most adequate) and #45 in 2022.



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State; + b_2 LaborMarket;; + b_3 CWI;; + b_4 FINANCE;; + b_5 PopulationDensity;; + b_6 Enrollment;; + b_7 INDICATORS;; + b_6 Scale;; + b_9 Poverty;; + b_{10} SchlType;; + b_{11} DATABASE;; + e



STATE SCHOOL FINANCE PROFILE

Period

s.d.

Ģ

2012

2021-22 SCHOOL YEAR

CA

-0.49

-0.08

-0.57

U.S.

-0.13

-0.16

2022

High

-0

CALIFORNIA

Summary: This 2021-22 profile of California's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), California scores 39 out of 100, which ranks 28th out of the 47 states with possible ratings.

CONTEXTUAL STATS	CA	U.S.
Child (5-17yo) poverty rate (%)	14.8	15.5
Public school coverage (%)	88.2	85.1
Percent revenue from state sources	52.7	43.7
Total enrollment (U.S. rank)	5.959.858 (1)	

CA's 2022 effort level is 0.57 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

CA's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

recovered to its 2006 level during these years,

total 2016-22 spending would have been

GSP per capita ranked #5 in the nation.

CA is a relatively high capacity state, with a

Statewide adequacy trend, 2012-22

adequate in 2022 compared with 2012, with a

CALIFORNIA AVERAGE FUNDING GAP, 2012-22 Normalized (expressed in s.d.) within years (0=average)

net change (in standard deviations) of 0.803

\$103.00 billion (15.7 percent) higher.

Spending in CA was substantially more

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #39 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 39

Rating <u>relative to other states</u> (high I medium I low): CA is a low effort state.

Fiscal effort summary		
California effort	3.07%	
U.S. average effort	3.43%	

- CA spends 3.07 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.36 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #35 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in CA is medium.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	46.7% (# 31)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	14.7% (# 28)	

 The typical CA student's district spends 1.4 pct. below adequate levels (rank #29).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in CA is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	20.1 %	
B. High/highest poverty districts	-13.3 %	
C. Opportunity gap (B minus A)	-33.5 pts	

 CA's opportunity gap of -33.5 points is ranked #20 out of 47 (#1=most equal).





EQUAL OPPORTUNITY





2017

CA's adequacy gap was ranked #47 in 2012

FUNDING BELOW ADEQUATE FUNDING ABOVE ADEQUATE Highest for the state is highest-poverty districts (pink dot) score 0.92 s.d. below its lowest-poverty districts (blue dot).

www.schoolfinancedata.org



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

COLORADO

FISCAL EFFORT

Summary: This 2021-22 profile of Colorado's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Colorado scores 40 out of 100, which ranks 27th out of the 47 states with possible ratings.

CONTEXTUAL STATS	со	U.S.
Child (5-17yo) poverty rate (%)	10.7	15.5
Public school coverage (%)	87.2	85.1
Percent revenue from state sources	38.7	43.7
Total enrollment (U.S. rank)	880.59	7 (20)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 40

Rating relative to other states (high I medium I low): CO is a low effort state.

Fiscal effort summary		
Colorado effort	2.86%	
U.S. average effort	3.43%	

- CO spends 2.86 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.58 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #41 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in CO is medium.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	30.4% (# 22)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	17.8% (# 32)	

The typical CO student's district spends 6.1 pct. above adequate levels (rank #25).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in CO is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	23.2 %	
B. High/highest poverty districts	-18.2 %	
C. Opportunity gap (B minus A)	-41.3 pts	

CO's opportunity gap of -41.3 points is ranked #27 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (CO region: West)



EQUAL OPPORTUNITY



Fiscal effort trend, 2006-22

 CO's 2022 effort level is 0.42 pct. points lower than it was pre-recession (2006).

This net change in effort between 2006 and 2022 is ranked #28 in the nation.

Net change by period (% pts.)		
Period	CO	U.S.
K-12 recession (2006-12)	-0.34	-0.13
Post-recession (2012-22)	-0.08	-0.16
Full period (2006-22)	-0.42	-0.29
CO's effort was lower than its 2006 level in 7		

- of 7 years between 2016-2022; had effort recovered to its 2006 level during these years, total 2016-22 spending would have been \$7.76 billion (9.6 percent) higher.
- CO is a relatively high capacity state, with a GSP per capita ranked #10 in the nation.

Statewide adequacy trend, 2012-22

 Spending in CO was substantially more adequate in 2022 compared with 2012, with a net change (in standard deviations) of 0.354 s.d.



CO's adequacy gap was ranked #30 in 2012 (#1 = most adequate) and #25 in 2022.



 CO's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.54 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

СТ

0.22

-0.02

0.20

U.S.

-0.13

-0.16

2022

-0

CONNECTICUT

FISCAL EFFORT

Summary: This 2021-22 profile of Connecticut's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Connecticut scores 71 out of 100, which ranks 8th out of the 47 states with possible ratings.

CONTEXTUAL STATS	СТ	U.S.
Child (5-17yo) poverty rate (%)	11.6	15.5
Public school coverage (%)	88.4	85.1
Percent revenue from state sources	35.5	43.7
Total enrollment (U.S. rank)	509,748 (31)	

Net change by period (% pts.)

Statewide adequacy trend, 2012-22

compared with 2012, with a net change (in

CONNECTICUT AVERAGE FUNDING GAP, 2012-22 in s.d.) within years (0

2017

CT's adequacy gap was ranked #4 in 2012

(#1 = most adequate) and #5 in 2022.

standard deviations) of -0.118 s.d.

c ABOVE AVERA

Ņ 2012

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 71

Rating relative to other states (high I medium I low): CT is a medium effort state.

Fiscal effort summary	
Connecticut effort	3.64%
U.S. average effort	3.43%

- CT spends 3.64 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.20 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #19 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in CT is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	12.2% (# 12)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	0.0% (# 1)	

The typical CT student's district spends 73.2 pct. above adequate levels (rank #5).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in CT is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	169.9 %	
B. High/highest poverty districts	32.9 %	
C. Opportunity gap (B minus A)	-137.0 pts	

CT's opportunity gap of -137.0 points is ranked #47 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



EO gaps by student outcome gaps



 CT's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.96 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e

STATE SCHOOL FINANCE PROFILE

Period

s d

ç

2012

ABOVE AVERAG

2021-22 SCHOOL YEAR

DE

-0.03

0.02

-0.01

U.S.

-0.13

-0.16

2022

-0

DELAWARE

FISCAL EFFORT

Summary: This 2021-22 profile of Delaware's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Delaware scores 64 out of 100, which ranks 14th out of the 47 states with possible ratings.

CONTEXTUAL STATS	DE	U.S.
Child (5-17yo) poverty rate (%)	13.5	15.5
Public school coverage (%)	86.0	85.1
Percent revenue from state sources	56.0	43.7
Total enrollment (U.S. rank)	139,935 (45)	

DE's 2022 effort level is 0.01 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

DE's effort was lower than its 2006 level in 5

net change (in standard deviations) of -0.371

DELAWARE AVERAGE FUNDING GAP, 2012-22 Normalized (expressed in s.d.) within years (0=average)

of 7 years between 2016-2022; had effort

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #10 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 64

Rating <u>relative to other states</u> (high I medium I low): **DE is a low effort state.**

Fiscal effort summary	
Delaware effort	2.96%
U.S. average effort	3.43%

- DE spends 2.96 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.48 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #38 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in DE is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	18.2% (# 16)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	0.0% (# 1)	

• The typical DE student's district spends 21.3 pct. above adequate levels (rank #12).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in DE is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	34.5 %	
B. High/highest poverty districts	13.4 %	
C. Opportunity gap (B minus A)	-21.2 pts	

 DE's opportunity gap of -21.2 points is ranked #7 out of 47 (#1=most equal).



Parkers further to right are less adequately funded (DE region: South) Parkers further to right are less adequately funded (DE region: South)



EQUAL OPPORTUNITY



(#1 = most adequate) and #12 in 2022. Image: Comparison of the second second

2017

DE's adequacy gap was ranked #11 in 2012



 DE's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.28 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

OVERALL STATE

SCORE NOT

AVAILBLE

RUTGERS

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

DISTRICT OF COLUMBIA

Summary: This 2021-22 profile of District of Columbia's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. We cannot calculate an overall state score for the District of Columbia, as data are not available for one or more of the measures we use in calculating those overall scores (see below).

CONTEXTUAL STATS DC U.S. 20.4 Child (5-17yo) poverty rate (%) 15.5 Public school coverage (%) 76.5 85.1 Percent revenue from state sources 43.7 n/a Total enrollment (U.S. rank) 88,908 (50)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): DC is a low effort state.

Fiscal effort summary	
District of Columbia effort	2.26%
U.S. average effort	3.43%

- DC spends 2.26 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 1.18 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #50 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in DC is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	0.0% (# 1)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	0.0% (# 1)	

The typical DC student's district spends 14.0 pct. above adequate levels (rank #18).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

An equal opportunity gap cannot be calculated for D.C., as it consists of a single government-run school district.







EQUAL OPPORTUNITY





Fiscal effort trend, 2006-22

. onou		0.0.
K-12 recession (2006-12)	0.37	-0.13
Post-recession (2012-22)	0.27	-0.16
Full period (2006-22)	0.65	-0.29
 DC's effort was lower than its 2006 level in 0 of 7 years between 2016-2022; had effort recovered to its 2006 level during these years, total 2016-22 spending would have been 		



DC is a relatively high capacity state, with a GSP per capita ranked #1 in the nation.



s.d. DISTRICT OF COLUMBIA AVERAGE FUNDING GAP, 2012-22



DC's adequacy gap was ranked #31 in 2012 (#1 = most adequate) and #18 in 2022.





State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e



STATE SCHOOL FINANCE PROFILE

P

Period

N

C

ې 2012 2021-22 SCHOOL YEAR

FL

-0.34

-0.66

-1.00

U.S.

-0.13

-0.16

-0.29

2022

Highe



Summary: This 2021-22 profile of Florida's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), **Florida scores 11 out of 100**, which **ranks 47th out of the 47 states** with possible ratings.

CONTEXTUAL STATS	FL	U.S.
Child (5-17yo) poverty rate (%)	16.1	15.5
Public school coverage (%)	82.4	85.1
Percent revenue from state sources	32.3	43.7
Total enrollment (U.S. rank)	2,833,186 (3)	

FL's 2022 effort level is 1.00 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

FL's effort was lower than its 2006 level in 7 of

recovered to its 2006 level during these years,

7 years between 2016-2022; had effort

total 2016-22 spending would have been

FL is a relatively low capacity state, with a

GSP per capita ranked #37 in the nation.

Statewide adequacy trend, 2012-22

Spending in FL was less adequate in 2022

standard deviations) of -0.081 s.d.

compared with 2012, with a net change (in

FLORIDA AVERAGE FUNDING GAP, 2012-22

2017

FL's adequacy gap was ranked #36 in 2012

(#1 = most adequate) and #42 in 2022.

\$60.92 billion (28.3 percent) higher.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #50 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating <u>relative to other states</u> (high I medium I low): **FL is a low effort state.**

Fiscal effort summary		
Florida effort	2.57%	
U.S. average effort	3.43%	

- FL spends 2.57 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.86 percentage points lower than the unweighted U.S. average of 3.43 percent (rank **#48** of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in FL is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	93.3% (# 47)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	38.8% (# 40)	
- The truning I FL student's district enands 10 C		

 The typical FL student's district spends 19.9 pct. below adequate levels (rank #42).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating <u>relative to other states</u> (high | medium | low): Equal opportunity in FL is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	-14.5 %	
B. High/highest poverty districts	-27.4 %	
C. Opportunity gap (B minus A)	-12.9 pts	

 FL's opportunity gap of -12.9 points is ranked #2 out of 47 (#1=most equal).



FLORIDA

STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (FL region: South)



EQUAL OPPORTUNITY





 FL's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.35 s.d. below its lowest-poverty districts (blue dot).

FUNDING BELOW ADEQUATE

FUNDING ABOVE ADEQUATI



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

RUTGERS

STATE SCHOOL FINANCE PROFILE

Period

N

C

\$ 2012 2021-22 SCHOOL YEAR

GA

0.02

-0.44

-0.42

U.S.

-0.13

-0.16

-0

State score: 32

Summary: This 2021-22 profile of Georgia's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Georgia scores 32 out of 100, which ranks 35th out of the 47 states with possible ratings.

CONTEXTUAL STATS	GA	U.S.
Child (5-17yo) poverty rate (%)	16.3	15.5
Public school coverage (%)	86.2	85.1
Percent revenue from state sources	39.7	43.7
Total enrollment (U.S. rank)	1,740,875 (6)	

This net change in effort between 2006 and

Net change by period (% pts.)

GA's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

recovered to its 2006 level during these years,

GA is a relatively medium capacity state, with

a GSP per capita ranked #28 in the nation.

Statewide adequacy trend, 2012-22

Spending in GA was more adequate in 2022

compared with 2012, with a net change (in

GEORGIA AVERAGE FUNDING GAP, 2012-22

2017

GA's adequacy gap was ranked #44 in 2012

standard deviations) of 0.143 s.d.

total 2016-22 spending would have been

\$16.73 billion (11.0 percent) higher.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #29 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): GA is a medium effort state.

Fiscal effort summary		
Georgia effort	3.46%	
U.S. average effort	3.43%	

- GA spends 3.46 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.02 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #28 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in GA is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	75.3% (# 40)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	36.2% (# 38)	

The typical GA student's district spends 18.0 pct. below adequate levels (rank #41).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in GA is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	-10.2 %	
B. High/highest poverty districts	-39.4 %	
C. Opportunity gap (B minus A)	-29.2 pts	

GA's opportunity gap of -29.2 points is ranked #17 out of 47 (#1=most equal).



GEORGIA

FISCAL EFFORT

STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





 GA's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.67 s.d. below its lowest-poverty districts (blue dot).

(#1 = most adequate) and #41 in 2022.



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State; + b_2 LaborMarket;; + b_3 CWI;; + b_4 FINANCE;; + b_5 PopulationDensity;; + b_6 Enrollment;; + b_7 INDICATORS;; + b_8 Scale;; + b_9 Poverty;; + b_{10} SchlType;; + b_{11} DATABASE;; + e

OVERALL STATE

SCORE NOT

AVAILBLE



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

HAWAII

FISCAL EFFORT

Summary: This 2021-22 profile of Hawaii's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. We cannot calculate an overall state score for Hawaii, as data are not available for one or more of the measures we use in calculating those overall scores (see below).

CONTEXTUAL STATS	HI	U.S.
Child (5-17yo) poverty rate (%)	11.6	15.5
Public school coverage (%)	76.1	85.1
Percent revenue from state sources	84.7	43.7
Total enrollment (U.S. rank)	173.17	8 (41)

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #44 in the nation.

HI's 2022 effort level is 0.70 pct. points lower

This net change in effort between 2006 and

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating <u>relative to other states</u> (high I medium I low): **HI is a low effort state.**

Fiscal effort summary		
Hawaii effort	2.57%	
U.S. average effort	3.43%	

- HI spends 2.57 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.86 percentage points lower than the unweighted U.S. average of 3.43 percent (rank **#47** of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).





• HI is a relatively medium capacity state, with a GSP per capita ranked #27 in the nation.

Statewide adequacy trend, 2012-22

STATEWIDE ADEQUACY

We do not publish statewide adequacy estimates for Hawaii, as the state consists of a single government-run school district isolated from other labor markets.

EQUAL OPPORTUNITY

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Equal opportunity cannot be calculated for Hawaii (see above).

www.schoolfinancedata.org

EO gaps by student outcome gaps



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph
- are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

RUTGERS

STATE SCHOOL FINANCE PROFILE

 \mathcal{O}

Period

N

\$ 2012 2021-22 SCHOOL YEAR

ID

-0.49

-0.43

-0.92

U.S.

-0.13

-0.16

-0.29

2022

Highe



Summary: This 2021-22 profile of Idaho's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Idaho scores 19 out of 100, which ranks 42nd out of the 47 states with possible ratings.

CONTEXTUAL STATS	ID	U.S.
Child (5-17yo) poverty rate (%)	11.3	15.5
Public school coverage (%)	86.4	85.1
Percent revenue from state sources	58.6	43.7
Total enrollment (U.S. rank)	314,25	8 (38)

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #48 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

ID's 2022 effort level is 0.92 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

ID's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

recovered to its 2006 level during these years,

total 2016-22 spending would have been

ID is a relatively low capacity state, with a

GSP per capita ranked #46 in the nation.

Statewide adequacy trend, 2012-22

Spending in ID was more adequate in 2022

standard deviations) of 0.097 s.d.

compared with 2012, with a net change (in

IDAHO AVERAGE FUNDING GAP, 2012-22

2017

ID's adequacy gap was ranked #34 in 2012

(#1 = most adequate) and #35 in 2022.

\$4.06 billion (23.4 percent) higher.

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): ID is a low effort state.

Fiscal effort summary		
Idaho effort	2.79%	
U.S. average effort	3.43%	

- ID spends 2.79 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.65 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #43 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in ID is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	73.6% (# 39)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	16.3% (# 30)	

The typical ID student's district spends 8.8 pct. below adequate levels (rank #35).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in ID is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	-1.1 %	
B. High/highest poverty districts	-22.9 %	
C. Opportunity gap (B minus A)	-21.8 pts	

ID's opportunity gap of -21.8 points is ranked #8 out of 47 (#1=most equal).



IDAHO

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (ID region: West)



EQUAL OPPORTUNITY





 ID's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.40 s.d. below its lowest-poverty districts (blue dot).

FUNDING ABOVE ADEQUAT

FUNDING BELOW ADEQUATE



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

 \mathcal{O}

Period

N

ç 2012 2021-22 SCHOOL YEAR

IL

0.08

0.50

0.57

U.S.

-0.13

-0.16

-0.29

2022



Summary: This 2021-22 profile of Illinois's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Illinois scores 61 out of 100, which ranks 16th out of the 47 states with possible ratings.

CONTEXTUAL STATS	IL	U.S.
Child (5-17yo) poverty rate (%)	15.1	15.5
Public school coverage (%)	84.9	85.1
Percent revenue from state sources	39.9	43.7
Total enrollment (U.S. rank)	1,868,4	182 (5)

IL's 2022 effort level is 0.57 pct. points higher

This net change in effort between 2006 and

Net change by period (% pts.)

IL's effort was lower than its 2006 level in 5 of

recovered to its 2006 level during these years,

7 years between 2016-2022; had effort

total 2016-22 spending would have been

IL is a relatively high capacity state, with a

GSP per capita ranked #13 in the nation.

Statewide adequacy trend, 2012-22

Spending in IL was more adequate in 2022

standard deviations) of 0.129 s.d.

compared with 2012, with a net change (in

ILLINOIS AVERAGE FUNDING GAP, 2012-22

2017

IL's adequacy gap was ranked #22 in 2012

(#1 = most adequate) and #16 in 2022.

\$4.86 billion (2.3 percent) higher.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #3 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): IL is a high effort state.

Fiscal effort summary		
Illinois effort	3.98%	
U.S. average effort	3.43%	

- IL spends 3.98 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.55 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #9 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in IL is medium.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	40.1% (# 28)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	8.5% (# 17)	

The typical IL student's district spends 14.8 pct. above adequate levels (rank #16).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in IL is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	70.6 %	
B. High/highest poverty districts	-10.6 %	
C. Opportunity gap (B minus A)	-81.2 pts	

IL's opportunity gap of -81.2 points is ranked #41 out of 47 (#1=most equal).



ILLINOIS

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (IL region: Midwest)



EQUAL OPPORTUNITY



EO gaps by student outcome gaps Low High Highe FUNDING BELOW ADEQUATE FUNDING ABOVE ADEQUAT

 IL's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.86 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

ANS 🛃 **RUTGERS**

STATE SCHOOL FINANCE PROFILE

Period

N

\$ 2012 2021-22 SCHOOL YEAR

IN

-0.54

-0.38

-0.93

U.S.

-0.13

-0.16

-0.29

2022



Summary: This 2021-22 profile of Indiana's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Indiana scores 35 out of 100, which ranks 31st out of the 47 states with possible ratings.

CONTEXTUAL STATS	IN	U.S.
Child (5-17yo) poverty rate (%)	14.2	15.5
Public school coverage (%)	83.4	85.1
Percent revenue from state sources	57.5	43.7
Total enrollment (U.S. rank)	1,036,6	25 (15)

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #49 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

IN's 2022 effort level is 0.93 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

IN's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

recovered to its 2006 level during these years,

IN is a relatively medium capacity state, with a

total 2016-22 spending would have been

GSP per capita ranked #30 in the nation.

Statewide adequacy trend, 2012-22

compared with 2012, with a net change (in

INDIANA AVERAGE FUNDING GAP, 2012-22 d in s.d.) within years (0

2017

IN's adequacy gap was ranked #25 in 2012

(#1 = most adequate) and #28 in 2022.

standard deviations) of -0.185 s.d.

\$22.50 billion (28.3 percent) higher.

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): IN is a low effort state.

Fiscal effort summary		
Indiana effort	2.92%	
U.S. average effort	3.43%	

- IN spends 2.92 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.51 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #39 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in IN is medium.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	44.6% (# 29)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	13.6% (# 26)	

The typical IN student's district spends 1.4 pct. below adequate levels (rank #28).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in IN is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	24.0 %	
B. High/highest poverty districts	-16.3 %	
C. Opportunity gap (B minus A)	-40.3 pts	

IN's opportunity gap of -40.3 points is ranked #25 out of 47 (#1=most equal).



INDIANA

FISCAL EFFORT

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





 IN's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.74 s.d. below its lowest-poverty districts (blue dot).

FUNDING ABOVE ADEQUAT

FUNDING BELOW ADEQUATE

www.schoolfinancedata.org



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

 $(In)SCHOOL = b_0 + b_1State_i + b_2LaborMarket_{ij} + b_3CWI_{ij} + b_4FINANCE_{ij} + b_5PopulationDensity_{ij} + b_6 Enrollment_{ij} + b_7INDICATORS_{ij} + b_8Scale_{ij} + b_9Poverty_{ij} + b_{10}SchIType_{ij} + b_{11}DATABASE_{ij} + e$



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR



Summary: This 2021-22 profile of Iowa's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Iowa scores 60 out of 100, which ranks 17th out of the 47 states with possible ratings.

IOWA

CONTEXTUAL STATS	IA	U.S.
Child (5-17yo) poverty rate (%)	11.3	15.5
Public school coverage (%)	88.4	85.1
Percent revenue from state sources	49.8	43.7
Total enrollment (U.S. rank)	510,66	61 (30)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating <u>relative to other states</u> (high I medium I low): IA is a medium effort state.

Fiscal effort summary		
lowa effort	3.51%	
U.S. average effort	3.43%	

- IA spends 3.51 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.08 percentage points higher than the unweighted U.S. average of 3.43 percent (rank **#25** of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in IA is medium.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	27.1% (# 18)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	11.9% (# 23)	

 The typical IA student's district spends 8.1 pct. above adequate levels (rank #21).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating <u>relative to other states</u> (high I medium I low): Equal opportunity in IA is <u>medium</u>.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)	
A. Low/lowest poverty districts	31.9 %
B. High/highest poverty districts	-8.5 %
C. Opportunity gap (B minus A)	-40.5 pts

 IA's opportunity gap of -40.5 points is ranked #26 out of 47 (#1=most equal).



EQUAL OPPORTUNITY



(#1 = most adequate) and #21 in 2022. EO gaps by student outcome gaps



 IA's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.68 s.d. below its lowest-poverty districts (blue dot).

www.schoolfinancedata.org



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.
RUTGERS

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

KS

-0.15

0.04

-0.11

U.S.

-0.13

-0.16

-0



Summary: This 2021-22 profile of Kansas's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Kansas scores 60 out of 100, which ranks 18th out of the 47 states with possible ratings.

CONTEXTUAL STATS	KS	U.S.
Child (5-17yo) poverty rate (%)	12.6	15.5
Public school coverage (%)	82.8	85.1
Percent revenue from state sources	65.2	43.7
Total enrollment (U.S. rank)	485,42	4 (34)

Fiscal effort trend, 2006-22

Net change by period (% pts.)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): KS is a medium effort state.

Fiscal effort summary		
Kansas effort	3.65%	
U.S. average effort	3.43%	

- KS spends 3.65 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.22 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #18 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in KS is medium.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	29.7% (# 21)
Pct. of students in <i>chronically</i> below adequate districts (rank)	10.8% (# 21)

The typical KS student's district spends 12.0 pct. above adequate levels (rank #19).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in KS is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	41.1 %	
B. High/highest poverty districts	-7.2 %	
C. Opportunity gap (B minus A)	-48.3 pts	

KS's opportunity gap of -48.3 points is ranked #32 out of 47 (#1=most equal).



KANSAS

FISCAL EFFORT

STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





Statewide adequacy trend, 2012-22

adequate in 2022 compared with 2012, with a

net change (in standard deviations) of 0.016

KANSAS AVERAGE FUNDING GAP, 2012-22 Normalized (expressed in s.d.) within years (0=average

Spending in KS was no more or less

s d

(#1 = most adequate) and #19 in 2022.



 KS's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.70 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

KENTUCKY

FISCAL EFFORT

Summary: This 2021-22 profile of Kentucky's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Kentucky scores 57 out of 100, which ranks 21st out of the 47 states with possible ratings.

CONTEXTUAL STATS	KY	U.S
Child (5-17yo) poverty rate (%)	19.4	15.
Public school coverage (%)	79.8	85.
Percent revenue from state sources	47.3	43.
Total enrollment (U.S. rank)	654 23	9 (28)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 57

Rating <u>relative to other states</u> (high I medium I low): **KY is a medium effort state.**

Fiscal effort summary	
Kentucky effort	3.60%
U.S. average effort	3.43%

- KY spends 3.60 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.16 percentage points higher than the unweighted U.S. average of 3.43 percent (rank **#21** of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in KY is medium.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	28.7% (# 19)
Pct. of students in <i>chronically</i> below adequate districts (rank)	8.2% (# 16)

 The typical KY student's district spends 7.1 pct. above adequate levels (rank #22).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in KY is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)	
A. Low/lowest poverty districts	19.0 %
B. High/highest poverty districts	-15.8 %
C. Opportunity gap (B minus A)	-34.8 pts

 KY's opportunity gap of -34.8 points is ranked #21 out of 47 (#1=most equal).





EQUAL OPPORTUNITY





KY's adequacy gap was ranked #23 in 2012

(#1 = most adequate) and #22 in 2022.

2017

2022

2012



 KY's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.13 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

LOUISIANA

FISCAL EFFORT

Summary: This 2021-22 profile of Louisiana's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Louisiana scores 33 out of 100, which ranks 33rd out of the 47 states with possible ratings.

CONTEXTUAL STATS	LA	U.S
Child (5-17yo) poverty rate (%)	24.3	15.5
Public school coverage (%)	78.2	85.1
Percent revenue from state sources	35.2	43.
Total enrollment (U.S. rank)	683.21	6 (27)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 33

Rating <u>relative to other states</u> (high I medium I low): LA is a medium effort state.

Fiscal effort summary	
Louisiana effort	3.51%
U.S. average effort	3.43%

- LA spends 3.51 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.08 percentage points higher than the unweighted U.S. average of 3.43 percent (rank **#26** of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in LA is low.

Percent underfunded (rank #1 =	most adequate)
Pct. of students in below adequate districts (rank of 48)	66.9% (# 36)
Pct. of students in <i>chronically</i> below adequate districts (rank)	40.2% (# 41)
T I I I I I I I I I I I I I I I I I I I	

• The typical LA student's district spends 16.5 pct. below adequate levels (rank #38).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in LA is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)	
A. Low/lowest poverty districts	-2.5 %
B. High/highest poverty districts	-37.8 %
C. Opportunity gap (B minus A)	-35.3 pts

 LA's opportunity gap of -35.3 points is ranked #23 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



Fiscal effort trend, 2006-22

• LA's 2022 effort level is 0.61 pct. points higher than it was pre-recession (2006).

• This net change in effort between 2006 and 2022 is ranked #2 in the nation.

Net change by period (% pts.)		
Period	LA	U.S.
K-12 recession (2006-12)	0.63	-0.13
Post-recession (2012-22)	-0.02	-0.16
Full period (2006-22)	0.61	-0.29
 LA's effort was lower than its 2006 level in 0 af 7 years between 2016 2020; bad effort 		

of 7 years between 2016-2022; had effort recovered to its 2006 level during these years, total 2016-22 spending would have been \$0.00 billion (0.0 percent) higher.

• LA is a relatively low capacity state, with a GSP per capita ranked #38 in the nation.

Statewide adequacy trend, 2012-22 Spending in LA was substantially less

 Spending in LA was substantially less adequate in 2022 compared with 2012, with a net change (in standard deviations) of -0.342 s.d.



LA's adequacy gap was ranked #29 in 2012 (#1 = most adequate) and #38 in 2022.



 LA's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.58 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

U.S.

-0.13

-0.16

-0.29

2022



Summary: This 2021-22 profile of Maine's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Maine scores 77 out of 100, which ranks 7th out of the 47 states with possible ratings.

MAINE

CONTEXTUAL STATS	ME	U.S.
Child (5-17yo) poverty rate (%)	11.5	15.5
Public school coverage (%)	86.0	85.1
Percent revenue from state sources	40.2	43.7
Total enrollment (U.S. rank)	173,21	5 (40)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): ME is a high effort state.

Fiscal effort summary		
Maine effort	3.77%	
U.S. average effort	3.43%	

- ME spends 3.77 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.34 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #13 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in ME is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	6.1% (# 7)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	4.5% (# 13)	

The typical ME student's district spends 52.4 pct. above adequate levels (rank #7).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in ME is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	82.2 %	
B. High/highest poverty districts	19.5 %	
C. Opportunity gap (B minus A)	-62.6 pts	

ME's opportunity gap of -62.6 points is ranked #37 out of 47 (#1=most equal).



2012

100%





EQUAL OPPORTUNITY



EO gaps by student outcome gaps

2017

ME's adequacy gap was ranked #9 in 2012

(#1 = most adequate) and #7 in 2022.



 ME's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.54 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

MARYLAND

FISCAL EFFORT

Summary: This 2021-22 profile of Maryland's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), **Maryland scores 55 out of 100**, which **ranks 22nd out of the 47 states** with possible ratings.

CONTEXTUAL STATS	MD	U.S.
Child (5-17yo) poverty rate (%)	11.6	15.5
Public school coverage (%)	82.8	85.1
Percent revenue from state sources	40.5	43.7
Total enrollment (U.S. rank)	881.46	1 (19)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 55

Rating <u>relative to other states</u> (high I medium I low): **MD is a high effort state.**

Fiscal effort summary		
Maryland effort	3.77%	
U.S. average effort	3.43%	

- MD spends 3.77 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.33 percentage points higher than the unweighted U.S. average of 3.43 percent (rank **#14** of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in MD is medium.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	39.1% (# 27)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	8.8% (# 18)	

• The typical MD student's district spends 9.5 pct. above adequate levels (rank #20).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in MD is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	44.1 %	
B. High/highest poverty districts	-8.5 %	
C. Opportunity gap (B minus A)	-52.6 pts	

 MD's opportunity gap of -52.6 points is ranked #33 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



Fiscal effort trend, 2006-22

 MD's 2022 effort level is 0.16 pct. points higher than it was pre-recession (2006).

 This net change in effort between 2006 and 2022 is ranked #9 in the nation.

MD		
MD	U.S.	
0.01	-0.13	
0.14	-0.16	
0.16	-0.29	
 MD's effort was lower than its 2006 level in 5 of 7 years between 2016-2022; had effort 		
recovered to its 2006 level during these years		
	MD 0.01 0.14 0.16 a 2006 le 22; had o uring the	

total 2016-22 spending would have been \$2.66 billion (2.6 percent) higher.

 MD is a relatively medium capacity state, with a GSP per capita ranked #17 in the nation.

Statewide adequacy trend, 2012-22 Spending in MD was substantially less adequate in 2022 compared with 2012, with

adequate in 2022 compared with 2012, with a net change (in standard deviations) of -0.493 s.d.



MD's adequacy gap was ranked #14 in 2012 (#1 = most adequate) and #20 in 2022.



 MD's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.96 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



RUTGERS

STATE SCHOOL FINANCE PROFILE

Period

2021-22 SCHOOL YEAR

MA

0.02

-0.31

-0.29

U.S.

-0.13

-0.16

-0.29

2022

MASSACHUSETTS

FISCAL EFFORT

State score: 64

Summary: This 2021-22 profile of Massachusetts's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Massachusetts scores 64 out of 100, which ranks 13th out of the 47 states with possible ratings.

CONTEXTUAL STATS	MA	U.S.
Child (5-17yo) poverty rate (%)	11.6	15.5
Public school coverage (%)	87.2	85.1
Percent revenue from state sources	42.1	43.7
Fotal enrollment (U.S. rank)	921,180 (17)	

MA's 2022 effort level is 0.29 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

MA's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

GSP per capita ranked #3 in the nation.

MA is a relatively high capacity state, with a

Statewide adequacy trend, 2012-22

MASSACHUSETTS AVERAGE FUNDING GAP, 2012-22

\$9.36 billion (7.6 percent) higher.

recovered to its 2006 level during these years,

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #23 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): MA is a low effort state.

Fiscal effort summary		
Massachusetts effort	3.02%	
U.S. average effort	3.43%	

- MA spends 3.02 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.41 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #36 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in MA is high.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	8.2% (# 8)
Pct. of students in <i>chronically</i> below adequate districts (rank)	0.6% (# 8)

The typical MA student's district spends 59.9 pct. above adequate levels (rank #6).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in MA is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)	
A. Low/lowest poverty districts	131.9 %
B. High/highest poverty districts	30.7 %
C. Opportunity gap (B minus A)	-101.2 pts

MA's opportunity gap of -101.2 points is ranked #44 out of 47 (#1=most equal).





EQUAL OPPORTUNITY



EO gaps by student outcome gaps Q4

2017



 MA's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.92 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

Period

N

0 2012 2021-22 SCHOOL YEAR

МІ

-0.18

-0.37

-0.55

U.S.

-0.13

-0.16

-0.29

2022

MICHIGAN

Summary: This 2021-22 profile of Michigan's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Michigan scores 49 out of 100, which ranks 25th out of the 47 states with possible ratings.

CONTEXTUAL STATS	MI	U.S
Child (5-17yo) poverty rate (%)	16.9	15.5
Public school coverage (%)	86.1	85.1
Percent revenue from state sources	52.5	43.7
Total enrollment (U.S. rank)	1.440.09	90 (10)

MI's 2022 effort level is 0.55 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

MI's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

recovered to its 2006 level during these years,

total 2016-22 spending would have been

MI is a relatively low capacity state, with a

GSP per capita ranked #40 in the nation.

Statewide adequacy trend, 2012-22

Spending in MI was more adequate in 2022

compared with 2012, with a net change (in

MICHIGAN AVERAGE FUNDING GAP, 2012-22

2017

MI's adequacy gap was ranked #32 in 2012

(#1 = most adequate) and #31 in 2022.

standard deviations) of 0.160 s.d.

\$26.26 billion (19.7 percent) higher.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #37 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 49

Rating relative to other states (high I medium I low): MI is a high effort state.

Fiscal effort summary		
Michigan effort	3.75%	
U.S. average effort	3.43%	

- MI spends 3.75 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.31 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #15 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in MI is medium.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	33.8% (# 25)
Pct. of students in <i>chronically</i> below adequate districts (rank)	18.1% (# 33)

The typical MI student's district spends 2.9 pct. below adequate levels (rank #31).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in MI is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	38.5 %	
B. High/highest poverty districts	-32.0 %	
C. Opportunity gap (B minus A)	-70.5 pts	

• MI's opportunity gap of -70.5 points is ranked #40 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





 MI's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.91 s.d. below its lowest-poverty districts (blue dot).

K-12 FISCAL EFFORT TREND, 2006-22

FISCAL EFFORT



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

MN

-0.11

0.07

-0.04

U.S.

-0.13

-0.16

2022

-0

MINNESOTA

Summary: This 2021-22 profile of Minnesota's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Minnesota scores 64 out of 100, which ranks 15th out of the 47 states with possible ratings.

CONTEXTUAL STATS	MN	U.S.
Child (5-17yo) poverty rate (%)	10.2	15.5
Public school coverage (%)	84.6	85.1
Percent revenue from state sources	59.6	43.7
Total enrollment (U.S. rank)	870,50	6 (21)

Net change by period (% pts.)

Statewide adequacy trend, 2012-22

Spending in MN was less adequate in 2022

compared with 2012, with a net change (in

MINNESOTA AVERAGE FUNDING GAP, 2012-22

2017

MN's adequacy gap was ranked #15 in 2012

(#1 = most adequate) and #14 in 2022.

standard deviations) of -0.055 s.d.

N

ç 2012

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 64

Rating relative to other states (high I medium I low): MN is a medium effort state.

Fiscal effort summary		
Minnesota effort	3.52%	
U.S. average effort	3.43%	

- MN spends 3.52 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.09 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #24 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in MN is high.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	16.9% (# 15)
Pct. of students in <i>chronically</i> below adequate districts (rank)	2.3% (# 10)

The typical MN student's district spends 19.0 pct. above adequate levels (rank #14).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in MN is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)	
A. Low/lowest poverty districts	42.6 %
B. High/highest poverty districts	-2.2 %
C. Opportunity gap (B minus A)	-44.8 pts

MN's opportunity gap of -44.8 points is ranked #31 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





 MN's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.72 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

Period

N

C

\$ 2012 2021-22 SCHOOL YEAR

MS

-0.31

-0.40

-0.71

U.S.

-0.13

-0.16

2022

-0

MISSISSIPPI

State score: 19

Summary: This 2021-22 profile of Mississippi's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Mississippi scores 19 out of 100, which ranks 44th out of the 47 states with possible ratings.

CONTEXTUAL STATS	MS	U.S.
Child (5-17yo) poverty rate (%)	26.2	15.5
Public school coverage (%)	79.2	85.1
Percent revenue from state sources	43.8	43.7
Total enrollment (U.S. rank)	442.00	0 (35)

This net change in effort between 2006 and

Net change by period (% pts.)

MS's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

recovered to its 2006 level during these years,

total 2016-22 spending would have been

MS is a relatively low capacity state, with a

Statewide adequacy trend, 2012-22

compared with 2012, with a net change (in

MISSISSIPPI AVERAGE FUNDING GAP, 2012-22

2017

MS's adequacy gap was ranked #48 in 2012

standard deviations) of -0.150 s.d.

GSP per capita ranked #51 in the nation.

\$4.22 billion (12.4 percent) higher.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #45 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): MS is a high effort state.

Fiscal effort summary		
Mississippi effort	3.99%	
U.S. average effort	3.43%	

- MS spends 3.99 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.56 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #8 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in MS is low.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	100.0% (# 48)
Pct. of students in <i>chronically</i> below adequate districts (rank)	80.7% (# 48)

The typical MS student's district spends 46.5 pct. below adequate levels (rank #48).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in MS is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	-28.5 %	
B. High/highest poverty districts	-63.7 %	
C. Opportunity gap (B minus A)	-35.2 pts	

MS's opportunity gap of -35.2 points is ranked #22 out of 47 (#1=most equal).





EQUAL OPPORTUNITY



EO gaps by student outcome gaps

(#1 = most adequate) and #48 in 2022.



 MS's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.69 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

Period

N

0 2012 2021-22 SCHOOL YEAR

MO

-0.02

-0.21

-0.2

U.S.

-0.13

-0.16

2022

-0

MISSOURI

Summary: This 2021-22 profile of Missouri's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Missouri scores 38 out of 100, which ranks 29th out of the 47 states with possible ratings.

CONTEXTUAL STATS	МО	U.S.
Child (5-17yo) poverty rate (%)	15.5	15.5
Public school coverage (%)	81.8	85.1
Percent revenue from state sources	34.8	43.7
Total enrollment (U.S. rank)	888.82	3 (18)

This net change in effort between 2006 and

Net change by period (% pts.)

of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

MO is a relatively low capacity state, with a

Statewide adequacy trend, 2012-22

compared with 2012, with a net change (in

MISSOURI AVERAGE FUNDING GAP, 2012-22

2017

MO's adequacy gap was ranked #27 in 2012

(#1 = most adequate) and #33 in 2022.

standard deviations) of -0.206 s.d.

GSP per capita ranked #36 in the nation.

\$4.31 billion (5.5 percent) higher.

recovered to its 2006 level during these years,

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #20 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 38

Rating relative to other states (high I medium I low): MO is a medium effort state.

Fiscal effort summary	
Missouri effort	3.35%
U.S. average effort	3.43%

- MO spends 3.35 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.09 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #30 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in MO is medium.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	44.8% (# 30)
Pct. of students in <i>chronically</i> below adequate districts (rank)	25.1% (# 35)

The typical MO student's district spends 7.5 pct. below adequate levels (rank #33).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in MO is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	19.5 %	
B. High/highest poverty districts	-34 .2 %	
C. Opportunity gap (B minus A)	-53.7 pts	

MO's opportunity gap of -53.7 points is ranked #34 out of 47 (#1=most equal).





PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





 MO's opportunity gap contributes to a student outcome gap: the state's highestpoverty districts (pink dot) score 0.68 s.d. below its lowest-poverty districts (blue dot).

MISSOURI SCHOOL FINANCE PROFILE 2021-22-



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

RUTGERS

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

MT

-0.36

-0.31

-0.67

U.S.

-0.13

-0.16

2022

Highe

-0

MONTANA

FISCAL EFFORT

Summary: This 2021-22 profile of Montana's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Montana scores 52 out of 100, which ranks 24th out of the 47 states with possible ratings.

CONTEXTUAL STATS	MT	U.S.
Child (5-17yo) poverty rate (%)	12.9	15.5
Public school coverage (%)	85.1	85.1
Percent revenue from state sources	39.6	43.7
Total enrollment (U.S. rank)	150,19	5 (43)

Fiscal effort trend, 2006-22

Net change by period (% pts.)

Statewide adequacy trend, 2012-22

Spending in MT was less adequate in 2022

standard deviations) of -0.141 s.d.

N

ç 2012

compared with 2012, with a net change (in

MONTANA AVERAGE FUNDING GAP, 2012-22

2017

MT's adequacy gap was ranked #18 in 2012

(#1 = most adequate) and #23 in 2022.

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 52

Rating relative to other states (high I medium I low): MT is a medium effort state.

Fiscal effort summary	
Montana effort	3.56%
U.S. average effort	3.43%

- MT spends 3.56 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.13 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #23 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in MT is medium.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	31.5% (# 24)
Pct. of students in <i>chronically</i> below adequate districts (rank)	11.3% (# 22)

The typical MT student's district spends 7.0 pct. above adequate levels (rank #23).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in MT is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)	
A. Low/lowest poverty districts	19.6 %
B. High/highest poverty districts	-8.9 %
C. Opportunity gap (B minus A)	-28.6 pts

MT's opportunity gap of -28.6 points is ranked #16 out of 47 (#1=most equal).



PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (MT region: West)



EQUAL OPPORTUNITY



EO gaps by student outcome gaps Low High

 MT's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.91 s.d. below its lowest-poverty districts (blue dot).

FUNDING ABOVE ADEQUAT

FUNDING BELOW ADEQUATE



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

NE

0.19

-0.28

-0.09

U.S.

-0.13

-0.16

2022

-0

NEBRASKA

Summary: This 2021-22 profile of Nebraska's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Nebraska scores 57 out of 100, which ranks 20th out of the 47 states with possible ratings.

CONTEXTUAL STATS	NE	U.S.
Child (5-17yo) poverty rate (%)	12.7	15.5
Public school coverage (%)	84.2	85.1
Percent revenue from state sources	30.0	43.7
Total enrollment (U.S. rank)	327,56	64 (36)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 57

Rating relative to other states (high I medium I low): NE is a medium effort state.

Fiscal effort summary		
Nebraska effort	3.44%	
U.S. average effort	3.43%	

- NE spends 3.44 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.00 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #29 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in NE is medium.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	29.2% (# 20)
Pct. of students in <i>chronically</i> below adequate districts (rank)	17.8% (# 31)

The typical NE student's district spends 6.8 pct. above adequate levels (rank #24).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in NE is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	35.4 %	
B. High/highest poverty districts	-8.8 %	
C. Opportunity gap (B minus A)	-44.2 pts	

NE's opportunity gap of -44.2 points is ranked #30 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





2017

Statewide adequacy trend, 2012-22

adequate in 2022 compared with 2012, with a

net change (in standard deviations) of -0.621

NEBRASKA AVERAGE FUNDING GAP, 2012-22

Normalized (expressed in s.d.) within years (0=average

Spending in NE was substantially less

s d

ABOVE AVERA

2012



 NE's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.52 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

Period

N

\$ 2012 2021-22 SCHOOL YEAR

NV

-0.13

-0.32

-0.45

U.S.

-0.13

-0.16

-0.29

2022



Summary: This 2021-22 profile of Nevada's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Nevada scores 13 out of 100, which ranks 46th out of the 47 states with possible ratings.

CONTEXTUAL STATS	NV	U.S.
Child (5-17yo) poverty rate (%)	15.6	15.5
Public school coverage (%)	85.1	85.1
Percent revenue from state sources	69.3	43.7
Total enrollment (U.S. rank)	486,64	8 (33)

NV's 2022 effort level is 0.45 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

NV's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

\$3.73 billion (10.7 percent) higher.

recovered to its 2006 level during these years,

NV is a relatively medium capacity state, with

a GSP per capita ranked #29 in the nation.

Statewide adequacy trend, 2012-22

Spending in NV was less adequate in 2022

standard deviations) of -0.096 s.d.

compared with 2012, with a net change (in

NEVADA AVERAGE FUNDING GAP, 2012-22 d in s.d.) within years (0

2017

NV's adequacy gap was ranked #43 in 2012

(#1 = most adequate) and #44 in 2022.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #31 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): NV is a low effort state.

Fiscal effort summary		
Nevada effort	2.69%	
U.S. average effort	3.43%	

- NV spends 2.69 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.74 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #45 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in NV is low.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	88.5% (# 46)
Pct. of students in <i>chronically</i> below adequate districts (rank)	73.3% (# 47)

The typical NV student's district spends 25.0 pct. below adequate levels (rank #44).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in NV is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	-5 .7 %	
B. High/highest poverty districts	-29.5 %	
C. Opportunity gap (B minus A)	-23.8 pts	

NV's opportunity gap of -23.8 points is ranked #11 out of 47 (#1=most equal).



NEVADA

FISCAL EFFORT

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (NV region: West)



EQUAL OPPORTUNITY



EO gaps by student outcome gaps Low High Highe FUNDING BELOW ADEQUATE FUNDING ABOVE ADEQUATI

 NV's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.19 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

SCHOOL of EDD

RUTGERS

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

NH

0.17

-0.53

-0.37

U.S.

-0.13

-0.16

-0

NEW HAMPSHIRE

FISCAL EFFORT

Summary: This 2021-22 profile of New Hampshire's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), New Hampshire scores 90 out of 100, which ranks 4th out of the 47 states with possible ratings.

CONTEXTUAL STATS	NH	U.S.
Child (5-17yo) poverty rate (%)	6.6	15.5
Public school coverage (%)	86.6	85.1
Percent revenue from state sources	29.4	43.7
Total enrollment (U.S. rank)	170.00)5 (42)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 90

Rating relative to other states (high I medium I low): NH is a medium effort state.

Fiscal effort summary	
New Hampshire effort	3.57%
U.S. average effort	3.43%

- NH spends 3.57 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.13 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #22 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in NH is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	0.0% (# 3)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	0.0% (# 1)	

The typical NH student's district spends 121.8 pct. above adequate levels (rank #1).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in NH is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	157.8 %	
B. High/highest poverty districts	87.3 %	
C. Opportunity gap (B minus A)	-70.5 pts	

NH's opportunity gap of -70.5 points is ranked #39 out of 47 (#1=most equal).









Spending in NH was substantially more

s.d.

adequate in 2022 compared with 2012, with a

NEW HAMPSHIRE AVERAGE FUNDING GAP, 2012-22 Normalized (expressed in s.d.) within years (0=average)

net change (in standard deviations) of 1.222

NH's adequacy gap was ranked #2 in 2012 (#1 = most adequate) and #1 in 2022.



 NH's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.78 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

Period

0

Ņ 2012 2021-22 SCHOOL YEAR

NJ

-0.51

0.28

-0.23

U.S.

-0.13

-0.16

2022

-0

NEW JERSEY

Summary: This 2021-22 profile of New Jersey's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), New Jersey scores 94 out of 100, which ranks 1st out of the 47 states with possible ratings.

CONTEXTUAL STATS	NJ	U.S.
Child (5-17yo) poverty rate (%)	12.2	15.5
Public school coverage (%)	86.1	85.1
Percent revenue from state sources	44.8	43.7
Total enrollment (U.S. rank)	1 372 3	81 (11)

This net change in effort between 2006 and

Net change by period (% pts.)

NJ's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

NJ is a relatively high capacity state, with a

Statewide adequacy trend, 2012-22

change (in standard deviations) of 0.007 s.d.

NEW JERSEY AVERAGE FUNDING GAP, 2012-22

2017

NJ's adequacy gap was ranked #3 in 2012

(#1 = most adequate) and #3 in 2022.

in 2022 compared with 2012, with a net

GSP per capita ranked #14 in the nation.

\$26.55 billion (13.1 percent) higher.

recovered to its 2006 level during these years,

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #21 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 94

Rating relative to other states (high I medium I low): NJ is a high effort state.

Fiscal effort summary	
New Jersey effort	4.99%
U.S. average effort	3.43%

- NJ spends 4.99 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 1.56 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #1 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in NJ is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	3.4% (# 4)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	0.0% (# 1)	

The typical NJ student's district spends 77.7 pct. above adequate levels (rank #3).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in NJ is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	148.0 %	
B. High/highest poverty districts	44.9 %	
C. Opportunity gap (B minus A)	-103.2 pts	

NJ's opportunity gap of -103.2 points is ranked #45 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



EO gaps by student outcome gaps Low High Highe FUNDING ABOVE ADEQUATI FUNDING BELOW ADEQUATE

 NJ's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.99 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ij} + b_3 CWI_{ij} + b_4 FINANCE_{ij} + b_5 PopulationDensity_{ij} + b_6 Enrollment_{ij} + b_7 INDICATORS_{ij} + b_8 Scale_{ij} + b_9 Poverty_{ij} + b_{10} SchlType_{ij} + b_{11} DATABASE_{ij} + e



STATE SCHOOL FINANCE PROFILE

Period

N

ې 2012 2021-22 SCHOOL YEAR

NM

-0.01

-0.19

-0.20

U.S.

-0.13

-0.16

2022

-0.2

NEW MEXICO

FISCAL EFFORT

Summary: This 2021-22 profile of New Mexico's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), New Mexico scores 33 out of 100, which ranks 34th out of the 47 states with possible ratings.

CONTEXTUAL STATS	NM	U.S.
Child (5-17yo) poverty rate (%)	22.6	15.5
Public school coverage (%)	87.3	85.1
Percent revenue from state sources	64.5	43.7
Total enrollment (U.S. rank)	316,78	5 (37)

NM's 2022 effort level is 0.20 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

NM's effort was lower than its 2006 level in 4 of 7 years between 2016-2022; had effort

recovered to its 2006 level during these years,

total 2016-22 spending would have been

NM is a relatively low capacity state, with a

Statewide adequacy trend, 2012-22

Spending in NM was less adequate in 2022

compared with 2012, with a net change (in

NEW MEXICO AVERAGE FUNDING GAP, 2012-22

standard deviations) of -0.115 s.d.

GSP per capita ranked #44 in the nation.

\$0.84 billion (3.1 percent) higher.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #18 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 33

Rating <u>relative to other states</u> (high I medium I low): NM is a high effort state.

Fiscal effort summary	
New Mexico effort	3.82%
U.S. average effort	3.43%

- NM spends 3.82 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.39 percentage points higher than the unweighted U.S. average of 3.43 percent (rank **#12** of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in NM is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	85.3% (# 44)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	59.8% (# 45)	

 The typical NM student's district spends 21.9 pct. below adequate levels (rank #43).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in NM is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	-15.5 %	
B. High/highest poverty districts	-37.4 %	
C. Opportunity gap (B minus A)	-21.9 pts	

 NM's opportunity gap of -21.9 points is ranked #9 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



(#1 = most adequate) and #43 in 2022.

2017

NM's adequacy gap was ranked #39 in 2012



 NM's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.33 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

NY

0.01

-0.20

-0.19

U.S.

-0.13

-0.16

-0.29

NEW YORK

Summary: This 2021-22 profile of New York's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), New York scores 90 out of 100, which ranks 3rd out of the 47 states with possible ratings. (See warnings below.)

CONTEXTUAL STATS	NY	U.S.
Child (5-17yo) poverty rate (%)	18.2	15.5
Public school coverage (%)	83.0	85.1
Percent revenue from state sources	36.1	43.7
Total enrollment (U.S. rank)	2,548,4	190 (4)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 90

Rating relative to other states (high I medium I low): NY is a high effort state.

Fiscal effort summary	
New York effort	4.14%
U.S. average effort	3.43%

- NY spends 4.14 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.70 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #5 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in NY is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	4.7% (# 6)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	3.5% (# 12)	

The typical NY student's district spends 74.4 pct. above adequate levels (rank #4).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in NY is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	169.3 %	
B. High/highest poverty districts	47.9 %	
C. Opportunity gap (B minus A)	-121.4 pts	

NY's opportunity gap of -121.4 points is ranked #46 out of 47 (#1=most equal).



PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



2012 2017 2022 NY's adequacy gap was ranked #5 in 2012 (#1 = most adequate) and #4 in 2022. EO gaps by student outcome gaps

Spending in NY was substantially more

s.d.

0

ç

ABOVE AVERAG

adequate in 2022 compared with 2012, with a

net change (in standard deviations) of 0.562

NEW YORK AVERAGE FUNDING GAP, 2012-22

Normalized (expressed in s.d.) within years (0=average



 NY's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.64 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

SCHOOL of EDD

RUTGERS

STATE SCHOOL FINANCE PROFILE

Period

N

C

ç 2012 2021-22 SCHOOL YEAR

NC

-0.07

-0.21

-0.28

U.S.

-0.13

-0.16

-0

NORTH CAROLINA

Summary: This 2021-22 profile of North Carolina's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), North Carolina scores 21 out of 100, which ranks 41st out of the 47 states with possible ratings.

CONTEXTUAL STATS	NC	U.S.
Child (5-17yo) poverty rate (%)	16.5	15.5
Public school coverage (%)	83.7	85.1
Percent revenue from state sources	55.8	43.7
Total enrollment (U.S. rank)	1,525,2	223 (9)

This net change in effort between 2006 and

Net change by period (% pts.)

of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

\$12.54 billion (11.0 percent) higher.

recovered to its 2006 level during these years,

NC is a relatively medium capacity state, with

a GSP per capita ranked #33 in the nation.

Statewide adequacy trend, 2012-22

compared with 2012, with a net change (in

NORTH CAROLINA AVERAGE FUNDING GAP, 2012-22 d in s.d.) within years (0

2017

NC's adequacy gap was ranked #42 in 2012

(#1 = most adequate) and #37 in 2022.

standard deviations) of 0.149 s.d.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #22 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 21

Rating relative to other states (high I medium I low): NC is a low effort state.

Fiscal effort summary		
North Carolina effort	2.81%	
U.S. average effort	3.43%	

- NC spends 2.81 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.62 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #42 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in NC is low.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	69.1% (# 37)
Pct. of students in <i>chronically</i> below adequate districts (rank)	46.2% (# 42)

The typical NC student's district spends 16.3 pct. below adequate levels (rank #37).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in NC is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)	
A. Low/lowest poverty districts	-6.8 %
B. High/highest poverty districts	-32.2 %
C. Opportunity gap (B minus A)	-25.4 pts

NC's opportunity gap of -25.4 points is ranked #13 out of 47 (#1=most equal).





EQUAL OPPORTUNITY





 NC's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.45 s.d. below its lowest-poverty districts (blue dot).

FUNDING ABOVE ADEQUATI

Highe

www.schoolfinancedata.org

FUNDING BELOW ADEQUATE



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.
RUTGERS

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

NORTH DAKOTA

Summary: This 2021-22 profile of North Dakota's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), North Dakota scores 71 out of 100, which ranks 9th out of the 47 states with possible ratings.

CONTEXTUAL STATS	ND	U.S.
Child (5-17yo) poverty rate (%)	11.7	15.5
Public school coverage (%)	87.9	85.1
Percent revenue from state sources	49.1	43.7
Total enrollment (U.S. rank)	116,86	64 (48)

ND's 2022 effort level is 0.61 pct. points lower

Statewide adequacy trend, 2012-22

Spending in ND was less adequate in 2022

standard deviations) of -0.299 s.d.

compared with 2012, with a net change (in

NORTH DAKOTA AVERAGE FUNDING GAP, 2012-22

in s.d.) v

2017

ND's adequacy gap was ranked #10 in 2012

(#1 = most adequate) and #11 in 2022.

2022

Fiscal effort trend, 2006-22

FISCAL EFFORT

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 71

Rating relative to other states (high I medium I low): ND is a medium effort state.

Fiscal effort summary		
North Dakota effort	3.12%	
U.S. average effort	3.43%	

- ND spends 3.12 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.32 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #33 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in ND is high.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	4.2% (# 5)
Pct. of students in <i>chronically</i> below adequate districts (rank)	1.3% (# 9)

The typical ND student's district spends 27.7 pct. above adequate levels (rank #11).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in ND is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)	
A. Low/lowest poverty districts	39.9 %
B. High/highest poverty districts	16.2 %
C. Opportunity gap (B minus A)	-23.7 pts

ND's opportunity gap of -23.7 points is ranked #10 out of 47 (#1=most equal).





N

ç 2012

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY







 ND's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.42 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

RUTGERS

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

ОН

-0.01

-0.54

-0.55

U.S.

-0.13

-0.16

-0.29

2022

Highe



Summary: This 2021-22 profile of Ohio's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Ohio scores 54 out of 100, which ranks 23rd out of the 47 states with possible ratings.

CONTEXTUAL STATS	ОН	U.S.
Child (5-17yo) poverty rate (%)	16.8	15.5
Public school coverage (%)	81.8	85.1
Percent revenue from state sources	34.2	43.7
Total enrollment (U.S. rank)	1,683,6	612 (8)

Fiscal effort trend, 2006-22

2022 is ranked #36 in the nation.

Net change by period (% pts.)

a GSP per capita ranked #26 in the nation.

Statewide adequacy trend, 2012-22

Spending in OH was less adequate in 2022

standard deviations) of -0.116 s.d.

N

ç 2012

compared with 2012, with a net change (in

OHIO AVERAGE FUNDING GAP, 2012-22

2017

OH's adequacy gap was ranked #26 in 2012

(#1 = most adequate) and #27 in 2022.

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): OH is a medium effort state.

Fiscal effort summary	
Ohio effort	3.61%
U.S. average effort	3.43%

- OH spends 3.61 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.18 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #20 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in OH is medium.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	31.0% (# 23)
Pct. of students in <i>chronically</i> below adequate districts (rank)	21.7% (# 34)

The typical OH student's district spends 0.3 pct. above adequate levels (rank #27).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in OH is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)	
A. Low/lowest poverty districts	44.6 %
B. High/highest poverty districts	-22.1 %
C. Opportunity gap (B minus A)	-66.7 pts

OH's opportunity gap of -66.7 points is ranked #38 out of 47 (#1=most equal).



OHIO

FISCAL EFFORT

STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





 OH's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 1.01 s.d. below its lowest-poverty districts (blue dot).

FUNDING BELOW ADEQUATE

FUNDING ABOVE ADEQUATI



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

OK

-0.59

0.12

-0.47

U.S.

-0.13

-0.16

2022

-0

OKLAHOMA

Summary: This 2021-22 profile of Oklahoma's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Oklahoma scores 28 out of 100, which ranks 38th out of the 47 states with possible ratings.

CONTEXTUAL STATS	ОК	U.S.
Child (5-17yo) poverty rate (%)	18.7	15.5
Public school coverage (%)	85.0	85.1
Percent revenue from state sources	41.7	43.7
Total enrollment (U.S. rank)	698 69	6 (25)

Net change by period (% pts.)

Fiscal effort trend, 2006-22

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 28

Rating relative to other states (high I medium I low): OK is a medium effort state.

Fiscal effort summary		
Oklahoma effort	3.30%	
U.S. average effort	3.43%	

- OK spends 3.30 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.14 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #31 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in OK is low.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	64.9% (# 34)
Pct. of students in <i>chronically</i> below adequate districts (rank)	36.9% (# 39)

The typical OK student's district spends 16.5 pct. below adequate levels (rank #39).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in OK is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)	
A. Low/lowest poverty districts	1.3 %
B. High/highest poverty districts	-31.8 %
C. Opportunity gap (B minus A)	-33.1 pts

OK's opportunity gap of -33.1 points is ranked #19 out of 47 (#1=most equal).





EQUAL OPPORTUNITY



Statewide adequacy trend, 2012-22

net change (in standard deviations) of 0.014

OKLAHOMA AVERAGE FUNDING GAP, 2012-22 Normalized (expressed in s.d.) within years (0=average

s.d

2012

OK's adequacy gap was ranked #35 in 2012 (#1 = most adequate) and #39 in 2022.

2017

EO gaps by student outcome gaps Low High Highe FUNDING BELOW ADEQUATE FUNDING ABOVE ADEQUAT

 OK's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.38 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

P

Period

s.d.

2012

2021-22 SCHOOL YEAR

OR

-0.01

0.25

0.24

U.S.

-0.13

-0.16

2022

-0

OREGON

Summary: This 2021-22 profile of Oregon's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Oregon scores 70 out of 100, which ranks 10th out of the 47 states with possible ratings.

CONTEXTUAL STATS	OR	U.S.
Child (5-17yo) poverty rate (%)	12.5	15.5
Public school coverage (%)	85.1	85.1
Percent revenue from state sources	52.8	43.7
Total enrollment (U.S. rank)	576 20	1 (29)

Fiscal effort trend, 2006-22

2022 is ranked #6 in the nation

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

higher than it was pre-recession (2006).

This net change in effort between 2006 and

Net change by period (% pts.)

OR's effort was lower than its 2006 level in 1

recovered to its 2006 level during these years,

OR is a relatively medium capacity state, with

a GSP per capita ranked #25 in the nation.

Statewide adequacy trend, 2012-22

adequate in 2022 compared with 2012, with a

OREGON AVERAGE FUNDING GAP, 2012-22 Normalized (expressed in s.d.) within years (0=average

net change (in standard deviations) of 0.668

Spending in OR was substantially more

of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

\$0.02 billion (0.0 percent) higher.

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 70

Rating relative to other states (high I medium I low): OR is a high effort state.

Fiscal effort summary	
Oregon effort	3.71%
U.S. average effort	3.43%

- OR spends 3.71 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.28 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #16 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in OR is high.

Percent underfunded (rank #1 =)	most adequate)
Pct. of students in below adequate districts (rank of 48)	11.4% (# 10)
Pct. of students in <i>chronically</i> below adequate districts (rank)	5.8% (# 14)

The typical OR student's district spends 20.5 pct. above adequate levels (rank #13).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in OR is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	36.2 %	
B. High/highest poverty districts	-1.7 %	
C. Opportunity gap (B minus A)	-37.9 pts	

OR's opportunity gap of -37.9 points is ranked #24 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



OR's adequacy gap was ranked #28 in 2012 (#1 = most adequate) and #13 in 2022.

2017



 OR's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.48 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

PENNSYLVANIA

FISCAL EFFORT

State score: 69

Summary: This 2021-22 profile of Pennsylvania's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Pennsylvania scores 69 out of 100, which ranks 11th out of the 47 states with possible ratings.

CONTEXTUAL STATS	PA	U.S.
Child (5-17yo) poverty rate (%)	14.6	15.5
Public school coverage (%)	81.8	85.1
Percent revenue from state sources	35.5	43.7
Total enrollment (U.S. rank)	1,695,0)92 (7)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): PA is a high effort state.

Fiscal effort summary		
Pennsylvania effort	4.03%	
U.S. average effort	3.43%	

- PA spends 4.03 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.60 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #6 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in PA is high.

Percent underfunded (rank #1 =)	lerfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	19.2% (# 17)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	16.1% (# 29)	

The typical PA student's district spends 33.8 pct. above adequate levels (rank #10).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in PA is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	95.0 %	
B. High/highest poverty districts	-5.2 %	
C. Opportunity gap (B minus A)	-100.2 pts	

PA's opportunity gap of -100.2 points is ranked #43 out of 47 (#1=most equal).



PA's adequacy gap was ranked #12 in 2012 (#1 = most adequate) and #10 in 2022.

2022

EQUAL OPPORTUNITY

Pennsylvania 🔷 Region avg. 🔷 U.S. average

Regional and U.S. averages are unweighted





PA's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 1.06 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

RHODE ISLAND

FISCAL EFFORT

Summary: This 2021-22 profile of Rhode Island's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Rhode Island scores 85 out of 100, which ranks 5th out of the 47 states with possible ratings.

CONTEXTUAL STATS	RI	U.S.
Child (5-17yo) poverty rate (%)	13.6	15.5
Public school coverage (%)	84.2	85.1
Percent revenue from state sources	39.6	43.7
Total enrollment (U.S. rank)	138,56	6 (46)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 85

Rating relative to other states (high I medium I low): RI is a high effort state.

Fiscal effort summary	
Rhode Island effort	4.75%
U.S. average effort	3.43%

- RI spends 4.75 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 1.32 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #2 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in RI is high.

Percent underfunded (rank #1 = most adequate	
Pct. of students in below adequate districts (rank of 48)	13.1% (# 13)
Pct. of students in <i>chronically</i> below adequate districts (rank)	6.6% (# 15)

The typical RI student's district spends 42.8 pct. above adequate levels (rank #8).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in RI is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	104.6 %	
B. High/highest poverty districts	22.6 %	
C. Opportunity gap (B minus A)	-82.0 pts	

RI's opportunity gap of -82.0 points is ranked #42 out of 47 (#1=most equal).





EQUAL OPPORTUNITY



EO gaps by student outcome gaps

= most adequate) and #8 in 2022.



 RI's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 1.12 s.d. below its lowest-poverty districts (blue dot).

Fiscal effort trend, 2006-22

N

C

Ņ 2012

- Rl's 2022 effort level is 0.48 pct. points higher than it was pre-recession (2006).
- This net change in effort between 2006 and 2022 is ranked #4 in the nation.

Net change by period (% pts.)		
Period	RI	U.S.
K-12 recession (2006-12)	0.05	-0.13
Post-recession (2012-22)	0.43	-0.16
Full period (2006-22)	0.48	-0.29
 RI's effort was lower than its 2006 level in 1 of 		

7 years between 2016-2022; had effort recovered to its 2006 level during these years, total 2016-22 spending would have been \$0.01 billion (0.1 percent) higher.

RI is a relatively low capacity state, with a GSP per capita ranked #34 in the nation.

Statewide adequacy trend, 2012-22

RHODE ISLAND AVERAGE FUNDING GAP, 2012-22

2017

RI's adequacy gap was ranked #7 in 2012 (#1

2022



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State; + b_2 LaborMarketi; + b_3 CWIi; + b_4 FINANCE; + b_5 PopulationDensity; + b_6 Enrollmenti; + b_7 INDICATORS; + b_9 Scale; + b_9 Poverty; + b_{10} SchlType; + b_{11} DATABASE; + e **RUTGERS**

STATE SCHOOL FINANCE PROFILE

Period

N

C

ېل 2012 2021-22 SCHOOL YEAR

SC

-0.36

-0.36

-0.71

U.S.

-0.13

-0.16

2022

-0

SOUTH CAROLINA

FISCAL EFFORT

Summary: This 2021-22 profile of South Carolina's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), **South Carolina scores 36 out of 100**, which **ranks 30th out of the 47 states** with possible ratings.

CONTEXTUAL STATS	SC	U.S.
Child (5-17yo) poverty rate (%)	18.4	15.5
Public school coverage (%)	83.7	85.1
Percent revenue from state sources	43.3	43.7
Total enrollment (U.S. rank)	780,87	8 (23)

SC's 2022 effort level is 0.71 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

SC's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

SC is a relatively low capacity state, with a

Statewide adequacy trend, 2012-22

Spending in SC was more adequate in 2022

compared with 2012, with a net change (in

SOUTH CAROLINA AVERAGE FUNDING GAP, 2012-22 Normalized (expressed in s.d.) within years (0=average)

2017

SC's adequacy gap was ranked #38 in 2012

(#1 = most adequate) and #36 in 2022.

standard deviations) of 0.117 s.d.

GSP per capita ranked #47 in the nation.

\$10.07 billion (14.7 percent) higher.

recovered to its 2006 level during these years,

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #46 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 36

Rating relative to other states (high I medium I low): SC is a high effort state.

Fiscal effort summary	
South Carolina effort	3.93%
U.S. average effort	3.43%

- SC spends 3.93 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.49 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #10 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in SC is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	78.5% (# 43)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	26.9% (# 36)	

 The typical SC student's district spends 13.8 pct. below adequate levels (rank #36).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in SC is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	-4.5 %	
B. High/highest poverty districts	-32.1 %	
C. Opportunity gap (B minus A)	-27.6 pts	

 SC's opportunity gap of -27.6 points is ranked #14 out of 47 (#1=most equal).





EQUAL OPPORTUNITY





 SC's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.72 s.d. below its lowest-poverty districts (blue dot).

www.schoolfinancedata.org



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

CHOCK & RECO

RUTGERS

STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

SD

-0.31

-0.02

-0.3

U.S.

-0.13

-0.16

2022

-0

SOUTH DAKOTA

Summary: This 2021-22 profile of South Dakota's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), South Dakota scores 35 out of 100, which ranks 32nd out of the 47 states with possible ratings.

CONTEXTUAL STATS	SD	U.S.
Child (5-17yo) poverty rate (%)	13.9	15.5
Public school coverage (%)	88.5	85.1
Percent revenue from state sources	30.6	43.7
Total enrollment (U.S. rank)	141,30	7 (44)

Fiscal effort trend, 2006-22

2022 is ranked #24 in the nation.

Net change by period (% pts.)

a GSP per capita ranked #21 in the nation.

Statewide adequacy trend, 2012-22

SOUTH DAKOTA AVERAGE FUNDING GAP, 2012-22 in s.d.)

2017

2012

FISCAL EFFORT

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 35

Rating relative to other states (high I medium I low): SD is a low effort state.

Fiscal effort summary		
South Dakota effort	2.87%	
U.S. average effort	3.43%	

- SD spends 2.87 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.56 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #40 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in SD is medium.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	47.2% (# 32)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	9.0% (# 19)	

The typical SD student's district spends 1.5 pct. below adequate levels (rank #30).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in SD is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	3.1 %	
B. High/highest poverty districts	-7.5 %	
C. Opportunity gap (B minus A)	-10.6 pts	

SD's opportunity gap of -10.6 points is ranked #1 out of 47 (#1=most equal).



🔘 South Dakota \land Region avg. 🔷 U.S. average Regional and U.S. averages are unweighted

EQUAL OPPORTUNITY





 SD's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.93 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states. The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by
- average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e



STATE SCHOOL FINANCE PROFILE

Period

N

아 2012 2021-22 SCHOOL YEAR

TΝ

0.12

-0.55

-0.43

U.S.

-0.13

-0.16

-0.29

2022

TENNESSEE

FISCAL EFFORT

State score: 23

Summary: This 2021-22 profile of Tennessee's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), **Tennessee scores 23 out of 100**, which **ranks 40th out of the 47 states** with possible ratings.

CONTEXTUAL STATS	TN	U.S.
Child (5-17yo) poverty rate (%)	16.7	15.5
Public school coverage (%)	82.3	85.1
Percent revenue from state sources	40.5	43.7
Total enrollment (U.S. rank)	996,70	9 (16)

TN's 2022 effort level is 0.43 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

 TN's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

\$9.76 billion (13.3 percent) higher.

recovered to its 2006 level during these years,

TN is a relatively medium capacity state, with

a GSP per capita ranked #31 in the nation.

Statewide adequacy trend, 2012-22

Spending in TN was more adequate in 2022

compared with 2012, with a net change (in

TENNESSEE AVERAGE FUNDING GAP, 2012-22

standard deviations) of 0.269 s.d.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #30 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating <u>relative to other states</u> (high I medium I low): **TN is a low effort state.**

Fiscal effort summary		
Tennessee effort	2.69%	
U.S. average effort	3.43%	

- TN spends 2.69 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.75 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #46 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in TN is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	65.2% (# 35)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	14.5% (# 27)	

 The typical TN student's district spends 8.3 pct. below adequate levels (rank #34).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in TN is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	-0.5 %	
B. High/highest poverty districts	-20.7 %	
C. Opportunity gap (B minus A)	-20.2 pts	

 TN's opportunity gap of -20.2 points is ranked #6 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (TN region: South)



EQUAL OPPORTUNITY



(#1 = most adequate) and #34 in 2022. • EO gaps by student outcome gaps

2017

TN's adequacy gap was ranked #37 in 2012



 TN's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.43 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

Period

N

\$ 2012 2021-22 SCHOOL YEAR

ТΧ

-0.43

-0.15

-0.58

U.S.

-0.13

-0.16

2022

Highe

-0



Summary: This 2021-22 profile of Texas's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Texas scores 19 out of 100, which ranks 43rd out of the 47 states with possible ratings.

CONTEXTUAL STATS	тх	U.S.
Child (5-17yo) poverty rate (%)	18.3	15.5
Public school coverage (%)	89.2	85.1
Percent revenue from state sources	31.0	43.7
Total enrollment (U.S. rank)	5,428,6	613 (2)

TX's 2022 effort level is 0.58 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

TX's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

TX is a relatively high capacity state, with a

Statewide adequacy trend, 2012-22

Spending in TX was less adequate in 2022

standard deviations) of -0.097 s.d.

compared with 2012, with a net change (in

TEXAS AVERAGE FUNDING GAP, 2012-22 d in s.d.) within years (0

2017

TX's adequacy gap was ranked #46 in 2012

(#1 = most adequate) and #47 in 2022.

GSP per capita ranked #15 in the nation.

\$42.57 billion (10.0 percent) higher.

recovered to its 2006 level during these years,

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #40 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating relative to other states (high I medium I low): TX is a low effort state.

Fiscal effort summary		
Texas effort	3.09%	
U.S. average effort	3.43%	

- TX spends 3.09 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.34 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #34 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in TX is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	88.1% (# 45)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	63.7% (# 46)	

The typical TX student's district spends 31.4 pct. below adequate levels (rank #47).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in TX is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	-16.8 %	
B. High/highest poverty districts	-44.5 %	
C. Opportunity gap (B minus A)	-27.7 pts	

TX's opportunity gap of -27.7 points is ranked #15 out of 47 (#1=most equal).



EXAS

FISCAL EFFORT

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



EO gaps by student outcome gaps Low High

 TX's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.47 s.d. below its lowest-poverty districts (blue dot).

FUNDING BELOW ADEQUATE

FUNDING ABOVE ADEQUATI

www.schoolfinancedata.org



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information).
 - . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e

STATE SCHOOL FINANCE PROFILE

P

Period

N

아 2012 2021-22 SCHOOL YEAR

UT

0.04

-0.54

-0.50

U.S.

-0.13

-0.16

2022

-0



Summary: This 2021-22 profile of Utah's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Utah scores 31 out of 100, which ranks 36th out of the 47 states with possible ratings.

CONTEXTUAL STATS	UT	U.S.
Child (5-17yo) poverty rate (%)	7.5	15.5
Public school coverage (%)	90.5	85.1
Percent revenue from state sources	47.7	43.7
Total enrollment (U.S. rank)	690,93	34 (26)

• UT's 2022 effort level is 0.50 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

UT's effort was lower than its 2006 level in 7 of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

\$3.47 billion (8.6 percent) higher.

standard deviations) of 0.167 s.d.

recovered to its 2006 level during these years,

UT is a relatively medium capacity state, with

a GSP per capita ranked #20 in the nation.

Statewide adequacy trend, 2012-22

Spending in UT was more adequate in 2022

compared with 2012, with a net change (in

UTAH AVERAGE FUNDING GAP, 2012-22

2017

UT's adequacy gap was ranked #33 in 2012

(#1 = most adequate) and #32 in 2022.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #34 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating <u>relative to other states</u> (high I medium I low): **UT is a low effort state.**

Fiscal effort summary		
Utah effort	2.75%	
U.S. average effort	3.43%	

- UT spends 2.75 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.68 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #44 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in UT is low.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	58.2% (# 33)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	12.3% (# 24)	

 The typical UT student's district spends 3.6 pct. below adequate levels (rank #32).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in UT is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate I Green=above adequate)		
A. Low/lowest poverty districts	3.5 %	
B. High/highest poverty districts	<mark>-9.6</mark> %	
C. Opportunity gap (B minus A)	-13.1 pts	

 UT's opportunity gap of -13.1 points is ranked #3 out of 47 (#1=most equal).



UTAH

FISCAL EFFORT

STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (UT region: West)



EQUAL OPPORTUNITY





 UT's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.13 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

 $\begin{array}{l} (ln) \textbf{SCHOOL} = b_0 + b_1 State_i + b_2 Labor Market_{ij} + \\ b_3 CWl_{ij} + b_4 \textbf{FINANCE}_{ij} + b_5 Population Density_{ij} + \\ b_6 Enrollment_{ij} + b_7 \textbf{INDICATORS}_{ij} + b_8 Scale_{ij} + \\ b_9 Poverty_{ij} + b_{10} SchlType_{ij} + b_{11} \textbf{DATABASE}_{ij} + e \end{array}$



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

		VERIMONI	
OVERALL STATE SCORE NOT AVAILBLE	Summary: This 2021-22 profile o indicators: fiscal effort, statewide score for Vermont, as data are no those overall scores (see below)	f Vermont's public K-12 school finance system focuses on three co adequacy, and equal opportunity. We cannot calculate an overall s t available for one or more of the measures we use in calculating	CONTEXTUAL STATS VT U.S. Child (5-17yo) poverty rate (%) 9.9 15.5 Public school coverage (%) 85.6 85.1 Percent revenue from state sources 87.4 43.7
		FISCAL FEFORT	Total enrollment (U.S. rank) 83,975 (51)
Fiscal effort is a m devote to their schu economic capacity Effort is calculated local K-12 expendi state product (GSF	neasure of how much states ools as a share of their (i.e., ability to raise revenue). by dividing direct state and tures in each state by its gross P).	K-12 FISCAL EFFORT TREND, 2006-17 ^{6%} -Vermont →U.S. average ^{5%} 5.18%	✓ Fiscal effort trend, 2006-22
We do not pu estimates for 2022 due to d state. • In the graph to	blish fiscal effort Vermont between 2018- lata irregularities in that		
averages do n	ot include Vermont.	2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2	
		STATEWIDE ADEQUACY	
Statewide adequa (PP) spending in e amount adequate t U.S. average test s compares this state the percentage of districts (spending percentage in <i>chro</i> (the top 20% larges	acy compares actual per-pupil ach state to estimates of the to achieve the modest goal of scores. The graph to the right e with other states in terms of students in below adequate is below adequate) and the <i>mically</i> below adequate districts st negative gaps nationally).	We do not publish statewide adequacy estimates for Vermont between 2017 and 2022 due to data irregularities in that state. You can view previous years' data by downloading the full state dataset at the project website, but these estimates should be interpreted with caution.	Statewide adequacy trend, 2012-22
		EQUAL OPPORTUNITY	
Equal opportunity states' higher- and graph to the right p (as a %) by district diamonds are U.S. pct. points) betwee of the two lowest-p poverty groups is a	y compares adequacy between lower-poverty districts. The presents adequate funding gaps poverty quintile (the teal averages). The difference (in en the (weighted) average gap poverty and the two highest- a state's "opportunity gap."	Equal opportunity cannot be calculated for Vermont (see above).	✓ EO gaps by student outcome gaps

VEDMONIT



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
 - Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
 - The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
 - Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
 - The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
 - Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e

STATE SCHOOL FINANCE PROFILE

Period

N

아 2012 2021-22 SCHOOL YEAR

VA

-0.15

-0.21

-0.36

U.S.

-0.13

-0.16

2022

-0



Summary: This 2021-22 profile of Virginia's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Virginia scores 45 out of 100, which ranks 26th out of the 47 states with possible ratings.

CONTEXTUAL STATS	VA	U.S.
Child (5-17yo) poverty rate (%)	11.8	15.5
Public school coverage (%)	84.4	85.1
Percent revenue from state sources	38.9	43.7
Total enrollment (U.S. rank)	1,249,8	15 (12)

VA's 2022 effort level is 0.36 pct. points lower

This net change in effort between 2006 and

Net change by period (% pts.)

VA's effort was lower than its 2006 level in 7

recovered to its 2006 level during these years,

VA is a relatively medium capacity state, with

a GSP per capita ranked #19 in the nation.

Statewide adequacy trend, 2012-22

Spending in VA was less adequate in 2022

standard deviations) of -0.183 s.d.

compared with 2012, with a net change (in

VIRGINIA AVERAGE FUNDING GAP, 2012-22

2017

VA's adequacy gap was ranked #19 in 2012

(#1 = most adequate) and #26 in 2022.

of 7 years between 2016-2022; had effort

total 2016-22 spending would have been

\$9.28 billion (7.2 percent) higher.

Fiscal effort trend, 2006-22

than it was pre-recession (2006).

2022 is ranked #26 in the nation.

K-12 recession (2006-12)

Post-recession (2012-22)

Full period (2006-22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

Rating <u>relative to other states</u> (high I medium I low): VA is a medium effort state.

Fiscal effort summary		
Virginia effort	3.21%	
U.S. average effort	3.43%	

- VA spends 3.21 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.22 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #32 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in VA is medium.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	34.6% (# 26)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	13.4% (# 25)	

 The typical VA student's district spends 5.3 pct. above adequate levels (rank #26).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in VA is medium.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	17.8 %	
B. High/highest poverty districts	-24.3 %	
C. Opportunity gap (B minus A)	-42.0 pts	

 VA's opportunity gap of -42.0 points is ranked #28 out of 47 (#1=most equal).



VIRGINIA

FISCAL EFFORT

STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (VA region: South)



EQUAL OPPORTUNITY





 VA's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.45 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1q5; necm_enroll_q1-q5; necm_outcomegap_q1-q5

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.

(In)SCHOOL = $b_0 + b_1$ State_i + b_2 LaborMarket_{ii} + b_3 CWI_{ii} + b_4 FINANCE_{ii} + b_5 PopulationDensity_{ii} + b_6 Enrollment_{ii} + b_7 INDICATORS_{ii} + b_8 Scale_{ii} + b_9 Poverty_{ii} + b_{10} SchlType_{ii} + b_{11} DATABASE_{ii} + e



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

WASHINGTON

FISCAL EFFORT

Summary: This 2021-22 profile of Washington's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Washington scores 64 out of 100, which ranks 12th out of the 47 states with possible ratings.

CONTEXTUAL STATS	WA	U.S.
Child (5-17yo) poverty rate (%)	11.1	15.5
Public school coverage (%)	86.4	85.1
Percent revenue from state sources	63.3	43.7
Total enrollment (U.S. rank)	1,081,8	35 (14)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 64

Rating <u>relative to other states</u> (high I medium I low): WA is a low effort state.

Fiscal effort summary	
Washington effort	3.02%
U.S. average effort	3.43%

- WA spends 3.02 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.42 percentage points lower than the unweighted U.S. average of 3.43 percent (rank #37 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in *chronically* below adequate districts (the top 20% largest negative gaps nationally).

Rating <u>relative to other states</u> (high I medium I low): Statewide adequacy in WA is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	8.9% (# 9)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	2.8% (# 11)	

 The typical WA student's district spends 34.9 pct. above adequate levels (rank #9).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in WA is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)			
A. Low/lowest poverty districts 58.6 %			
B. High/highest poverty districts	3.2 %		
C. Opportunity gap (B minus A)	-55.4 pts		

 WA's opportunity gap of -55.4 points is ranked #35 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY





WA's 2022 effort level is 0.13 pct. points lower

Fiscal effort trend, 2006-22

Post-recession (2012-22)	0.01	-0.16	
Full period (2006-22)	-0.13	-0.29	
 WA's effort was lower than its 2006 level in 4 of 7 years between 2016-2022; had effort recovered to its 2006 level during these years, total 2016-22 spending would have been \$1.13 billion (0.9 percent) higher. WA is a relatively high capacity state, with a GSP per capita ranked #4 in the nation. 			
Statewide adequacy trend, 2012-22			
 Spending in WA was substa adequate in 2022 compared not change (in standard down) 	ntially m with 201	ore I2, with a	

net change (in standard deviations) of 0.716 s.d. WASHINGTON AVERAGE FUNDING GAP, 2012-22 Normalized (expressed in s.d.) within years (0=average)



 WA's adequacy gap was ranked #21 in 2012 (#1 = most adequate) and #9 in 2022.



 WA's opportunity gap contributes to a student outcome gap: the state's highestpoverty districts (pink dot) score 0.82 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
 - Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
 - The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
 - Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
 - The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
 - Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

WEST VIRGINIA

FISCAL EFFORT

Summary: This 2021-22 profile of West Virginia's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), West Virginia scores 78 out of 100, which ranks 6th out of the 47 states with possible ratings.

CONTEXTUAL STATS	WV	U.S.
Child (5-17yo) poverty rate (%)	21.5	15.5
Public school coverage (%)	85.2	85.1
Percent revenue from state sources	47.1	43.7
Total enrollment (U.S. rank)	252.72	20 (39)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 78

Rating relative to other states (high I medium I low): WV is a high effort state.

Fiscal effort summary	
West Virginia effort	4.22%
U.S. average effort	3.43%

- WV spends 4.22 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.79 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #4 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in WV is high.

Percent underfunded (rank #1 = most adequate)		
Pct. of students in below adequate districts (rank of 48)	11.9% (# 11)	
Pct. of students in <i>chronically</i> below adequate districts (rank)	0.5% (# 7)	

The typical WV student's district spends 15.1 pct. above adequate levels (rank #15).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in WV is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)			
A. Low/lowest poverty districts 27.6 %			
B. High/highest poverty districts	3.3 %		
C. Opportunity gap (B minus A)	-24.4 pts		

WV's opportunity gap of -24.4 points is ranked #12 out of 47 (#1=most equal).



PERCENT BELOW ADEQUATE COMPARISONS Markers further to right are less adequately funded (WV region: South)



EQUAL OPPORTUNITY



WV's 2022 effort level is 0.47 pct. points lower than it was pre-recession (2006).

Fiscal effort trend, 2006-22

This net change in effort between 2006 and 2022 is ranked #33 in the nation.

Net change by period (% pts.)		
Period	WV	U.S.
K-12 recession (2006-12)	-0.16	-0.13
Post-recession (2012-22)	-0.31	-0.16
Full period (2006-22)	-0.47	-0.29
 WV's effort was lower than its 2006 level in 7 of 7 years between 2016 2022; bod effort 		

- ot / years between 2016-2022: had effort recovered to its 2006 level during these years, total 2016-22 spending would have been \$3.12 billion (13.7 percent) higher.
- WV is a relatively low capacity state, with a GSP per capita ranked #49 in the nation.

Statewide adequacy trend, 2012-22 Spending in WV was substantially less adequate in 2022 compared with 2012, with a net change (in standard deviations) of -0.842



WV's adequacy gap was ranked #8 in 2012 (#1 = most adequate) and #15 in 2022.



 WV's opportunity gap contributes to a student outcome gap: the state's highestpoverty districts (pink dot) score 0.30 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;

4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years. • We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or
- differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1q5; necm_enroll_q1-q5; necm_outcomegap_q1-q5

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

WI

-0.30

-0.21

-0.51

U.S.

-0.13

-0.16

2022

-0

WISCONSIN

Summary: This 2021-22 profile of Wisconsin's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Wisconsin scores 59 out of 100, which ranks 19th out of the 47 states with possible ratings.

CONTEXTUAL STATS	WI	U.S.
Child (5-17yo) poverty rate (%)	12.2	15.5
Public school coverage (%)	81.7	85.1
Percent revenue from state sources	52.2	43.7
Total enrollment (U.S. rank)	829.35	9 (22)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 59

Rating relative to other states (high I medium I low): WI is a medium effort state.

Fiscal effort summary		
Wisconsin effort	3.50%	
U.S. average effort	3.43%	

- WI spends 3.50 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.07 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #27 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in WI is medium.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	16.6% (# 14)
Pct. of students in <i>chronically</i> below adequate districts (rank)	9.1% (# 20)

The typical WI student's district spends 14.3 pct. above adequate levels (rank #17).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in WI is low.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	48.1 %	
B. High/highest poverty districts	-8.0 %	
C. Opportunity gap (B minus A)	-56.1 pts	

WI's opportunity gap of -56.1 points is ranked #36 out of 47 (#1=most equal).





EQUAL OPPORTUNITY



EO gaps by student outcome gaps

2017

WI's adequacy gap was ranked #16 in 2012

(#1 = most adequate) and #17 in 2022.

standard deviations) of -0.160 s.d.

N

C

ç 2012 WISCONSIN AVERAGE FUNDING GAP, 2012-22



 WI's opportunity gap contributes to a student outcome gap: the state's highest-poverty districts (pink dot) score 0.94 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
- Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
- Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

- DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024). Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a
 - single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
 - " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
 - The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state).
- . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles). • The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two
- highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.



STATE SCHOOL FINANCE PROFILE

2021-22 SCHOOL YEAR

WYOMING

Summary: This 2021-22 profile of Wyoming's public K-12 school finance system focuses on three core indicators: fiscal effort, statewide adequacy, and equal opportunity. On a weighted average of these three measures, with performance assessed relative to that of other states (see back), Wyoming scores 92 out of 100, which ranks 2nd out of the 47 states with possible ratings.

CONTEXTUAL STATS	WY	U.S
Child (5-17yo) poverty rate (%)	11.8	15.5
Public school coverage (%)	89.4	85.1
Percent revenue from state sources	52.1	43.7
Total enrollment (U.S. rank)	93.09	3 (49)

Fiscal effort is a measure of how much states devote to their schools as a share of their economic capacity (i.e., ability to raise revenue). Effort is calculated by dividing direct state and local K-12 expenditures in each state by its gross state product (GSP).

State score: 92

Rating relative to other states (high I medium I low): WY is a high effort state.

Fiscal effort summary		
Wyoming effort	4.03%	
U.S. average effort	3.43%	

- WY spends 4.03 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.60 percentage points higher than the unweighted U.S. average of 3.43 percent (rank #7 of 50).

Statewide adequacy compares actual per-pupil (PP) spending in each state to estimates of the amount adequate to achieve the modest goal of U.S. average test scores. The graph to the right compares this state with other states in terms of the percentage of students in below adequate districts (spending is below adequate) and the percentage in chronically below adequate districts (the top 20% largest negative gaps nationally).

Rating relative to other states (high I medium I low): Statewide adequacy in WY is high.

Percent underfunded (rank #1 = most adequate)	
Pct. of students in below adequate districts (rank of 48)	0.0% (# 1)
Pct. of students in <i>chronically</i> below adequate districts (rank)	0.0% (# 1)

The typical WY student's district spends 78.5 pct. above adequate levels (rank #2).

Equal opportunity compares adequacy between states' higher- and lower-poverty districts. The graph to the right presents adequate funding gaps (as a %) by district poverty quintile (the teal diamonds are U.S. averages). The difference (in pct. points) between the (weighted) average gap of the two lowest-poverty and the two highestpoverty groups is a state's "opportunity gap."

Rating relative to other states (high I medium I low): Equal opportunity in WY is high.

Average (enr-weighted) funding gaps by poverty (Red=below adequate Green=above adequate)		
A. Low/lowest poverty districts	88.6 %	
B. High/highest poverty districts	70.8 %	
C. Opportunity gap (B minus A)	-17.9 pts	

WY's opportunity gap of -17.9 points is ranked #4 out of 47 (#1=most equal).



STATEWIDE ADEQUACY

PERCENT BELOW ADEQUATE COMPARISONS



EQUAL OPPORTUNITY



Fiscal effort trend, 2006-22

WY's 2022 effort level is 0.26 pct. points higher than it was pre-recession (2006).

This net change in effort between 2006 and 2022 is ranked #5 in the nation.

Net change by period (% pts.)		
Period	WY	U.S.
K-12 recession (2006-12)	0.38	-0.13
Post-recession (2012-22)	-0.12	-0.16
Full period (2006-22)	0.26	-0.29
 WY's effort was lower than its 2006 level in 0 		

of 7 years between 2016-2022; had effort recovered to its 2006 level during these years, total 2016-22 spending would have been \$0.00 billion (0.0 percent) higher.

WY is a relatively high capacity state, with a GSP per capita ranked #11 in the nation.

Statewide adequacy trend, 2012-22 Spending in WY was substantially less

adequate in 2022 compared with 2012, with a net change (in standard deviations) of -1.257 s.d



WY's adequacy gap was ranked #1 in 2012 (#1 = most adequate) and #2 in 2022.



 WY's opportunity gap contributes to a student outcome gap: the state's highestpoverty districts (pink dot) score 0.45 s.d. below its lowest-poverty districts (blue dot).



State School Finance Profiles 2021-22 (publ. 2025)

General

The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well other SFID datasets, tools, and reports, are freely available to download at: schoolfinancedata.org. The following are some general notes about the profiles:

- The measures in this profile are interpreted relatively -- that is, by making comparisons between states (rankings) and within states (e.g., by district poverty or over time).
 - The years in the profile refer to the spring semester of the school year (e.g., 2022 is the 2021-22 school year).
 - Estimates for prior years may differ from previous profiles, as some measures are changed or improved each year, and all years are recalculated annually with updated data.
 - Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations of the estimates on the front side.
 - The total number of states assigned rankings varies slightly by measure (as indicated), as not all measures are available in all states.
 - Overall state scores: The overall scores reported at the top of the profile provide a very simple summary of states' combined "performance" on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
 - The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 50 = z-score of 0) of the following measures (weights) in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy gap (30%); 3) GSP-based fiscal effort (15%); 4) personal incomebased fiscal effort (15%); and 5) equal opportunity gap (Q4/5 vs. Q1/2 difference in adequacy gap, in pct. points) (10%). State rankings may reflect differences in unrounded scores.
 - Alaska, D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states. Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2022) from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2022) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances;
- 4) total state public elementary and secondary school enrollment (Fall 2021) from the Digest of Education Statistics, published by the National Center for Education Statistics.

Fiscal effort

SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total economic capacity goes toward K-12 schools. It is calculated in the SFID by dividing direct state and local K-12 expenditures by either Gross State Product (GSP) or aggregate state personal income API). GSP and API are measures of a state's economic capacity. In this sense, effort measures how much each state contributes as a percentage of how much it might contribute. We present GSP-based effort in these profiles, but the two are highly correlated, and the API-based effort indicator is available in the SID. Bear in mind that high-capacity states with larger economies, such as New York and California, can put forth lower effort than lower capacity states, such as Mississippi and Alabama, but still produce the same funding. We therefore use effort primarily as a means of differentiating between low/inadequate funding states that do and do not have the capacity to increase revenue

- U.S. effort averages are unweighted and do not include Vermont in any year (effort not available in 2018-22 due to data irregularities), so as to keep a consistent set of states across years.
- We characterize each state's effort level as low, medium, or high by sorting states into three groups based on their effort levels (using terciles). Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.
- The table in the right panel summarizes the center-panel graph, with a focus on effort trends before and after the 2007-09 recession. The 2006-12 period (the "K-12 recession") is highlighted in the table (rather than, say, 2006-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the "official recession" ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a "thought experiment" of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2022 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-22 effort exceeded the state's 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-22 funding would have been lower under states' 2006 effort levels).
- In order to provide a sense of states' capacity, we characterize each state's GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Statewide adequacy

necm_enroll_state Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district's actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing both finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when making comparisons within or between states. For more information about the NECM, see the SID user's quide. Some of the estimates presented in this section (e.g., percent in below adequate districts) require use of the SFID's District Cost Database (DCD); all SID adequacy measures (all of which have variable name beginning with necm_) are aggregations of

DCD estimates. The full DCD dataset (going back to 2009) is also publicly available at the SFID website (2022 estimates will be released in mid-2024).

- Statewide adequacy estimates are not available for Alaska (isolated, unique costs), Hawaii (isolated, single-district), and Vermont (missing/irregular data). Estimates for D.C. apply to a single school district (District of Columbia Public Schools). We also recommend that New York results be interpreted with particular caution (see SID users' guide for more information). . We characterize each state's statewide adequacy as low, medium, or high by averaging within-year z-scores for percent above adequate and average funding gap and dividing states into three groups using these average z-scores (terciles).
- " "Chronically below adequate" districts are those with funding gaps (percent difference between actual and adequate funding) among the 20 percent largest in the nation.
- The regional and U.S. averages in the middle graph (the teal and gold diamonds, respectively) are unweighted—i.e., they represent adequacy in the typical state, not the typical student.
- The trend graph in the right panel presents the average statewide funding gap (the percentage difference between actual and estimated adequate funding for the typical student) normalized within each year (converted to standard deviations) such that the average is zero. This allows for more appropriate comparisons over time. In the first bullet of this panel, states' net changes between 2012 and 2022 are characterized as "substantial" if the absolute change exceeds 0.3 s.d., "modest" if the absolute change is between 0.05 and 0.3 s.d., and "no more or less adequate" if the absolute change does not exceed 0.05 s.d. Axis ranges for this graph are expanded in a handful of states.

Equal opportunity

SID variables used in this section: necm_predcost_q1-q5; necm_ppcstot_q1-

SID variables used in this section: necm_predcost_state; necm_ppcstot_state;

- EO estimates are not available for Alaska, Hawaii, and Vermont (adequacy estimates not available), and cannot be calculated for D.C. (single government-run district state). . We characterize each state's degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest- and the two lowest-poverty groups, this graph permits comparison of gaps between different combinations of groups). The state (bars) and U.S. (diamonds) estimates in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined state by
- state, and so the U.S. averages (diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student testing outcomes expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest available year in the Stanford Education Data Archive (some districts' values are imputed). The other markers (hollow circles) in the plot are other states' district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state's markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.