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

2018-2019





Matthew Di Carlo Bruce D. Baker Kayla Reist Mark Weber

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ABOUT THE AUTHORS

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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, advocates, educators 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: schoolfinancedata.org.

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 state-specific detail 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 individual state profiles can be downloaded 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. Adequacy: whether states provide districts with resources sufficient to meet common outcome goals;
- 3. **Progressivity**: whether states allocate more resources to districts serving larger proportions of disadvantaged students.

In the profiles, 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 trends over time. The profiles this year 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. It is our hope that the profiles contribute to improving the quality and productivity of school finance debates and policymaking.



2018-19 SCHOOL YEAR

ALABAMA



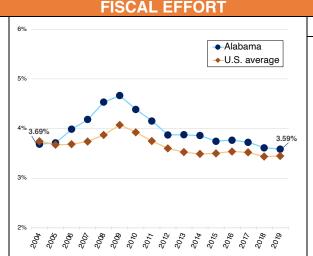
Summary: This 2018-19 profile of Alabama's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Alabama scores 21 out of 100, which ranks 44th out of the 48 states with possible ratings.

CONTEXTUAL STATS	AL	U.S.
Child (5-17yo) poverty rate (%)	20.7	15.8
Public school coverage (%)	86.1	87.6
Percent revenue from state sources	55.8	47.6
Total enrollment (U.S. rank)	737,20	0 (24)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

1 \ /	
Alabama effort	3.59 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in AL was equivalent to 3.59% of the state's economic capacity (GSP).
- This was 0.14 percentage points higher than the unweighted national average of 3.45%.
- AL's effort level ranks #19 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.29 percentage points in AL's effort during the "K-12 recovery" period of 2012-2019.

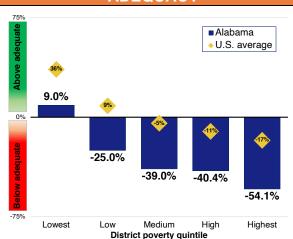
Net change by period (% pts.)			
Period	AL	U.S.	
2004-2007	0.50	-0.01	
2012-2019	-0.29	-0.15	
2004-2019	-0.10	-0.30	

- Effort increased during the three years before the recession, going from 3.69% in 2004 to 4.18% in 2007.
- AL's effort was 0.10 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

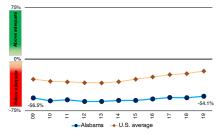
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in AL's highest poverty districts are severely inadequate.
- Spending in these districts is \$12,800 PP lower than the adequacy target (\$23,664), a difference of -54.1%.
- This ranks #48 in the U.S. (out of 49).
- Across the entire state, 73.0% of AL students attend districts with spending below estimated adequate levels.



Adequacy trend (pov. Q5), 2009-19

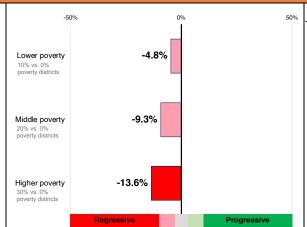


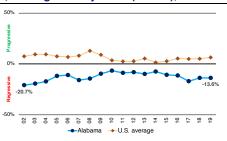
- Adequacy in AL's highest-poverty districts was roughly similar between 2009 (-56.5%) and 2019 (-54.1%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in AL is regressive.
- Higher-poverty (30%) districts receive 13.6% less revenue than zero-poverty districts.
- This level of progressivity ranks #39 in the nation (out of 49).





- AL's funding was less regressive in 2019 (-13.6%) vs. 2002 (-20.7%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

ALASKA



Summary: This 2018-19 profile of Alaska's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Alaska scores 99 out of 100, which ranks 1st out of the 48 states with possible ratings.

RUTGERS

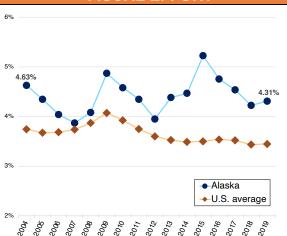
CONTEXTUAL STATS	AK	U.S.
Child (5-17yo) poverty rate (%)	11.9	15.8
Public school coverage (%)	85.4	87.6
Percent revenue from state sources	62.6	47.6
Total enrollment (U.S. rank)	133,200 (47)	

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Alaska effort	4.31 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in AK was equivalent to 4.31% of the state's economic capacity (GSP).
- This was 0.86 percentage points higher than the unweighted national average of 3.45%.
- AK's effort level ranks #2 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.36 percentage points in AK's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)			
Period	AK	U.S.	
2004-2007	-0.76	-0.01	
2012-2019	0.36	-0.15	
2004-2019	-0.32	-0.30	

- Effort decreased during the three years before the recession, going from 4.63% in 2004 to 3.87% in 2007.
- AK's effort was 0.32 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

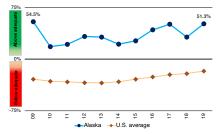
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in AK's highest poverty districts are above adequate.
- Spending in these districts is \$10,066 PP higher than the adequacy target (\$19,607), a difference of 51.3%.
- This ranks #2 in the U.S. (out of 49).
- Across the entire state, 1.4% of AK students attend districts with spending below estimated adequate levels.





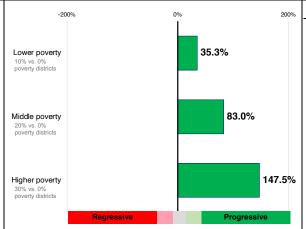


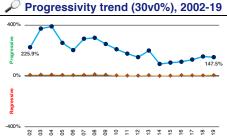
- Adequacy in AK's highest-poverty districts worsened between 2009 (54.5%) and 2019 (51.3%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in AK is progressive.
- Higher-poverty (30%) districts receive 147.5% more revenue than zeropoverty districts.
- This level of progressivity ranks #1 in the nation (out of 49).





- AK's funding was more regressive in 2019 (147.5%) vs. 2002 (225.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

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- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

ARIZONA



Summary: This 2018-19 profile of Arizona's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Arizona scores 13 out of 100, which ranks 48th out of the 48 states with possible ratings.

RUTGERS

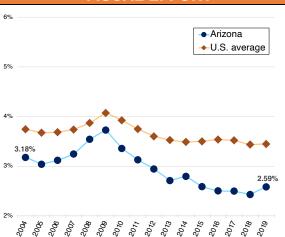
CONTEXTUAL STATS	AZ	U.S.
Child (5-17yo) poverty rate (%)	18.1	15.8
Public school coverage (%)	89.4	87.6
Percent revenue from state sources	42.4	47.6
Total enrollment (U.S. rank)	1,111,000 (14)	

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Arizona effort	2.59 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in AZ was equivalent to 2.59% of the state's economic capacity (GSP).
- This was 0.86 percentage points lower than the unweighted national average of 3.45%.
- AZ's effort level ranks #48 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.36 percentage points in AZ's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)			
Period	AZ	U.S.	
2004-2007	0.07	-0.01	
2012-2019	-0.36	-0.15	
2004-2019	-0.59	-0.30	

- Effort increased during the three years before the recession, going from 3.18% in 2004 to 3.24% in 2007.
- AZ's effort was 0.59 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

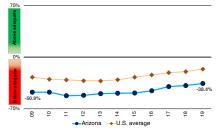
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in AZ's highest poverty districts are severely inadequate.
- Spending in these districts is \$6,548 PP lower than the adequacy target (\$17,050), a difference of -38.4%.
- This ranks #41 in the U.S. (out of 49).
- Across the entire state, 79.1% of AZ students attend districts with spending below estimated adequate levels.







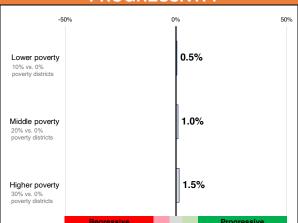
- Adequacy in AZ's highest-poverty districts improved between 2009 (-50.9%) and 2019 (-38.4%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

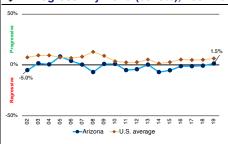
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 1.5% more revenue than zero-poverty districts.
- This level of progressivity ranks #26 in the nation (out of 49).





- AZ's funding was more progressive in 2019 (1.5%) vs. 2002 (-5.0%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

ARKANSAS



Summary: This 2018-19 profile of Arkansas's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Arkansas scores 37 out of 100, which ranks 28th out of the 48 states with possible ratings.

RUTGERS

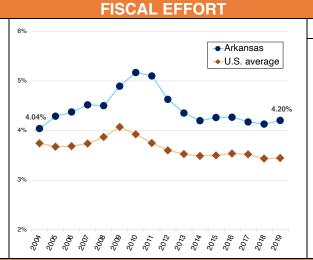
CONTEXTUAL STATS	AR	U.S.
Child (5-17yo) poverty rate (%)	19.9	15.8
Public school coverage (%)	90.2	87.6
Percent revenue from state sources	74.9	47.6
Total enrollment (U.S. rank)	496,100 (32)	

Fiscal effort is direct state and local K-12 expenditures in each state as a

percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Arkansas effort 4.20 % U.S. average 3.45 %

- In FY 2019, total direct state and local K-12 spending in AR was equivalent to 4.20% of the state's economic capacity (GSP).
- This was 0.76 percentage points higher than the unweighted national average of 3.45%.
- AR's effort level ranks #6 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.42 percentage points in AR's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)			
Period	AR	U.S.	
2004-2007	0.48	-0.01	
2012-2019	-0.42	-0.15	
2004-2019	0.16	-0.30	

- Effort increased during the three years before the recession, going from 4.04% in 2004 to 4.52% in 2007.
- AR's effort was 0.16 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

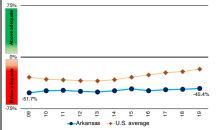
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in AR's highest poverty districts are severely inadequate.
- Spending in these districts is \$9,188 PP lower than the adequacy target (\$20,225), a difference of -45.4%.
- This ranks #44 in the U.S. (out of 49).
- Across the entire state, 74.8% of AR students attend districts with spending below estimated adequate levels.



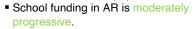




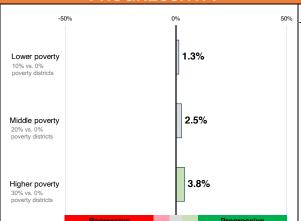
- Adequacy in AR's highest-poverty districts improved between 2009 (-51.7%) and 2019 (-45.4%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

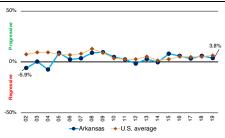
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 3.8% more revenue than zero-poverty districts.
- This level of progressivity ranks #24 in the nation (out of 49).





- AR's funding was more progressive in 2019 (3.8%) vs. 2002 (-5.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

CALIFORNIA



Summary: This 2018-19 profile of California's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), California scores 33 out of 100, which ranks 31st out of the 48 states with possible ratings.

RUTGERS

CONTEXTUAL STATS	CA	U.S.
Child (5-17yo) poverty rate (%)	15.2	15.8
Public school coverage (%)	90.1	87.6
Percent revenue from state sources	56.3	47.6
Total enrollment (U.S. rank)	6,285,3	300 (1)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross

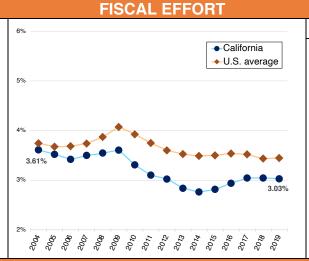
state product (GSP).

California effort 3.03 %

U.S. average 3.45 %

■ In FY 2019, total direct state and local
K-12 spending in CA was equivalent to
3.03% of the state's economic capacity
(GSP).

- This was 0.42 percentage points lower than the unweighted national average of 3.45%.
- CA's effort level ranks #37 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.01 percentage points in CA's effort during the "K-12 recovery" period of 2012-2019.

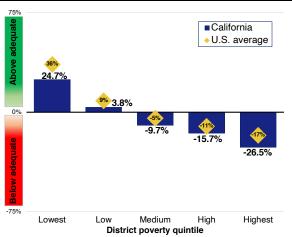
Net change by period (% pts.)			
Period	CA	U.S.	
2004-2007	-0.11	-0.01	
2012-2019	0.01	-0.15	
2004-2019	-0.58	-0.30	

- Effort decreased during the three years before the recession, going from 3.61% in 2004 to 3.50% in 2007.
- CA's effort was 0.58 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

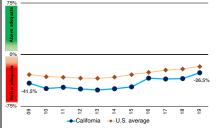
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in CA's highest poverty districts are severely inadequate.
- Spending in these districts is \$5,081 PP lower than the adequacy target (\$19,208), a difference of -26.5%.
- This ranks #29 in the U.S. (out of 49).
- Across the entire state, 70.4% of CA students attend districts with spending below estimated adequate levels.





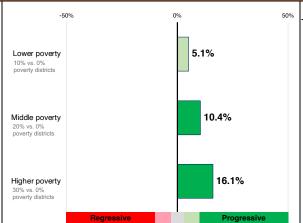


- Adequacy in CA's highest-poverty districts improved between 2009 (-41.5%) and 2019 (-26.5%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

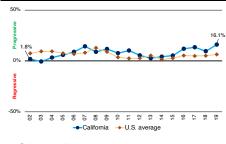
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in CA is progressive.
- Higher-poverty (30%) districts receive 16.1% more revenue than zero-poverty districts.
- This level of progressivity ranks #11 in the nation (out of 49).







- CA's funding was more progressive in 2019 (16.1%) vs. 2002 (1.8%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

COLORADO



Summary: This 2018-19 profile of Colorado's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Colorado scores 33 out of 100, which ranks 33rd out of the 48 states with possible ratings.

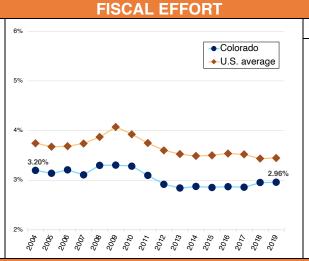
RUTGERS

CONTEXTUAL STATS	CO	U.S.
Child (5-17yo) poverty rate (%)	10.7	15.8
Public school coverage (%)	90.3	87.6
Percent revenue from state sources	43.0	47.6
Total enrollment (U.S. rank)	912,60	0 (19)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP)

state product (GSP).	
Colorado effort	2.96 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in CO was equivalent to 2.96% of the state's economic capacity (GSP).
- This was 0.49 percentage points lower than the unweighted national average of 3.45%.
- CO's effort level ranks #40 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.04 percentage points in CO's effort during the "K-12 recovery" period of 2012-2019.

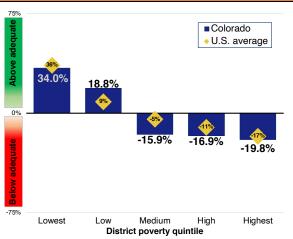
Net change by period (% pts.)			
Period	CO	U.S.	
2004-2007	-0.09	-0.01	
2012-2019	0.04	-0.15	
2004-2019	-0.24	-0.30	

- Effort decreased during the three years before the recession, going from 3.20% in 2004 to 3.11% in 2007.
- CO's effort was 0.24 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

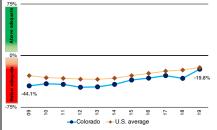
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in CO's highest poverty districts are below adequate.
- Spending in these districts is \$2,558 PP lower than the adequacy target (\$12,933), a difference of -19.8%.
- This ranks #26 in the U.S. (out of 49).
- Across the entire state, 30.9% of CO students attend districts with spending below estimated adequate levels.





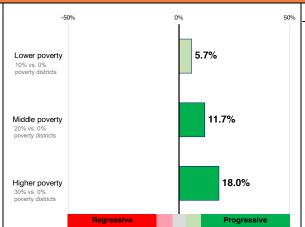


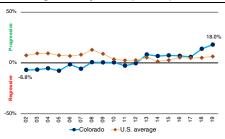
- Adequacy in CO's highest-poverty districts improved between 2009 (-44.1%) and 2019 (-19.8%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in CO is progressive.
- Higher-poverty (30%) districts receive 18.0% more revenue than zero-poverty districts
- This level of progressivity ranks #10 in the nation (out of 49).





- CO's funding was more progressive in 2019 (18.0%) vs. 2002 (-6.8%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, published by the National Center for Education Statistics.

Fiscal effort SID variables used in this section: effort; year

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- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

CONNECTICUT



Summary: This 2018-19 profile of Connecticut's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Connecticut scores 77 out of 100, which ranks 8th out of the 48 states with possible ratings.

RUTGERS

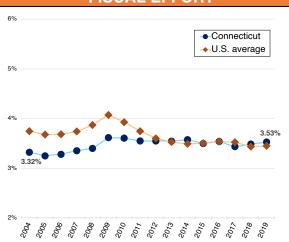
CONTEXTUAL STATS	СТ	U.S.
Child (5-17yo) poverty rate (%)	12.9	15.8
Public school coverage (%)	89.4	87.6
Percent revenue from state sources	37.2	47.6
Total enrollment (U.S. rank)	524,30	00 (30)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Connecticut effort	3.53 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in CT was equivalent to 3.53% of the state's economic capacity (GSP).
- This was 0.08 percentage points higher than the unweighted national average of 3.45%.
- CT's effort level ranks #23 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.02 percentage points in CT's effort during the "K-12 recovery" period of 2012-2019.

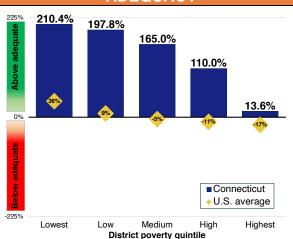
Net change by period (% pts.)			
Period	CT	U.S.	
2004-2007	0.03	-0.01	
2012-2019	-0.02	-0.15	
2004-2019	0.20	-0.30	

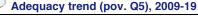
- Effort increased during the three years before the recession, going from 3.32% in 2004 to 3.35% in 2007.
- CT's effort was 0.20 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

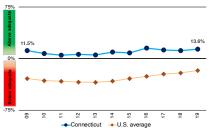
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in CT's highest poverty districts are above adequate.
- Spending in these districts is \$2,330 PP higher than the adequacy target (\$17,175), a difference of 13.6%.
- This ranks #7 in the U.S. (out of 49).
- Across the entire state, 19.2% of CT students attend districts with spending below estimated adequate levels.





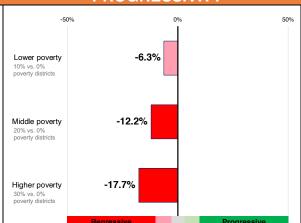


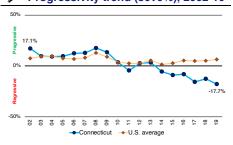
- Adequacy in CT's highest-poverty districts was roughly similar between 2009 (11.5%) and 2019 (13.6%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in CT is regressive.
- Higher-poverty (30%) districts receive 17.7% less revenue than zero-poverty districts
- This level of progressivity ranks #43 in the nation (out of 49).





- CT's funding was more regressive in 2019 (-17.7%) vs. 2002 (17.1%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

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- State rankings may reflect differences in unrounded scores.
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Fiscal effort SID variables used in this section: effort; year

Fiscal effort indicates how much of a state's total 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: year

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

DELAWARE



Summary: This 2018-19 profile of Delaware's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Delaware scores 44 out of 100, which ranks 26th out of the 48 states with possible ratings.

RUTGERS

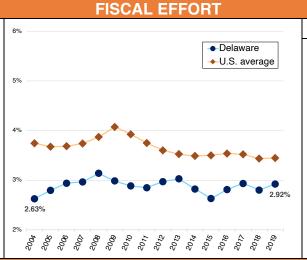
CONTEXTUAL STATS	DE	U.S.
Child (5-17yo) poverty rate (%)	15.2	15.8
Public school coverage (%)	85.8	87.6
Percent revenue from state sources	64.6	47.6
Total enrollment (U.S. rank)	136,90	0 (46)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity,"

percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Delaware effort	2.92 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in DE was equivalent to 2.92% of the state's economic capacity (GSP).
- This was 0.52 percentage points lower than the unweighted national average of 3.45%.
- DE's effort level ranks #41 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.05 percentage points in DE's effort during the "K-12 recovery" period of 2012-2019.

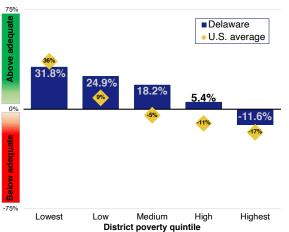
Net change by period (% pts.)			
Period	DE	U.S.	
2004-2007	0.34	-0.01	
2012-2019	-0.05	-0.15	
2004-2019	0.30	-0.30	

- Effort increased during the three years before the recession, going from 2.63% in 2004 to 2.97% in 2007.
- DE's effort was 0.30 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

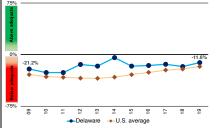
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in DE's highest poverty districts are below adequate.
- Spending in these districts is \$1,976 PP lower than the adequacy target (\$17,092), a difference of -11.6%.
- This ranks #18 in the U.S. (out of 49).
- Across the entire state, 18.6% of DE students attend districts with spending below estimated adequate levels.





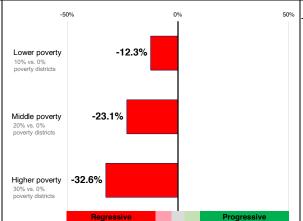


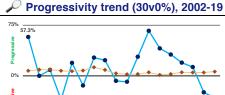
- Adequacy in DE's highest-poverty districts improved between 2009 (-21.2%) and 2019 (-11.6%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in DE is regressive.
- Higher-poverty (30%) districts receive 32.6% less revenue than zero-poverty districts
- This level of progressivity ranks #48 in the nation (out of 49).





 DE's funding was more regressive in 2019 (-32.6%) vs. 2002 (57.3%).

 Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.

→ U.S. average



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.



2018-19 SCHOOL YEAR

DISTRICT OF COLUMBIA



Summary: This 2018-19 profile of District of Columbia's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. An overall state score is not calculated for the District of Columbia, as estimates are not available for all measures.

CONTEXTUAL STATS	DC	U.S.
Child (5-17yo) poverty rate (%)	20.1	15.8
Public school coverage (%)	81.8	87.6
Percent revenue from state sources	n/a	47.6
Total enrollment (U.S. rank)	87,20	0 (50)

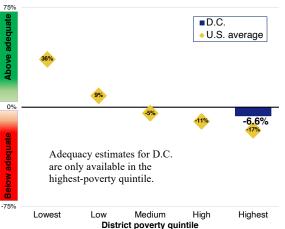
FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

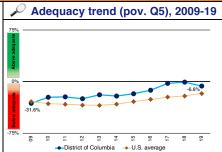
Fiscal effort estimates are not available for the District of Columbia.

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in DC's highest poverty districts are below adequate.
- Spending in these districts is \$1,572 PP lower than the adequacy target (\$23,978), a difference of -6.6%.
- This ranks #16 in the U.S. (out of 49).



ADEQUACY



- Adequacy in DC's highest-poverty districts improved between 2009 (-31.6%) and 2019 (-6.6%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

Progressivity estimates are not available for the District of Columbia.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_pocstot_q1—necm_pocstot_q5: necm_enroll_q1—necm_enroll_q5: year_

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

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- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

FLORIDA



Summary: This 2018-19 profile of Florida's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Florida scores 14 out of 100, which ranks 47th out of the 48 states with possible ratings.

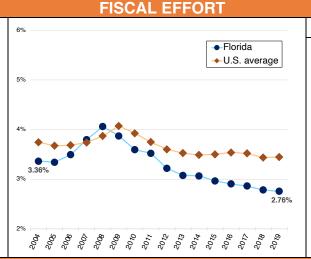
RUTGERS

CONTEXTUAL STATS	FL	U.S.
Child (5-17yo) poverty rate (%)	16.9	15.8
Public school coverage (%)	84.7	87.6
Percent revenue from state sources	38.5	47.6
Total enrollment (U.S. rank)	2,849,400 (3)	

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross

S	state product (GSP).	
	Florida effort	2.76 %
	U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in FL was equivalent to 2.76% of the state's economic capacity (GSP).
- This was 0.69 percentage points lower than the unweighted national average of 3.45%.
- FL's effort level ranks #47 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.46 percentage points in FL's effort during the "K-12 recovery" period of 2012-2019.

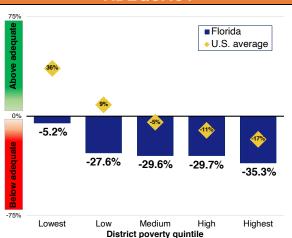
Net change by period (% pts.)		
Period	F	U.S.
2004-2007	0.44	-0.01
2012-2019	-0.46	-0.15
2004-2019	-0.61	-0.30

- Effort increased during the three years before the recession, going from 3.36% in 2004 to 3.80% in 2007.
- FL's effort was 0.61 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

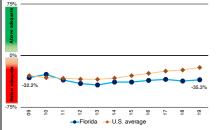
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in FL's highest poverty districts are severely inadequate.
- Spending in these districts is \$5,711 PP lower than the adequacy target (\$16,162), a difference of -35.3%.
- This ranks #35 in the U.S. (out of 49).
- Across the entire state, 93.7% of FL students attend districts with spending below estimated adequate levels.





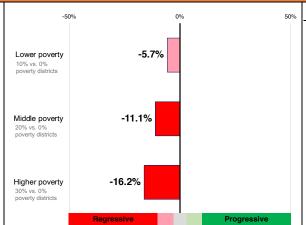


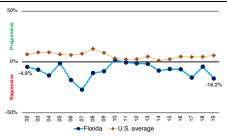
- Adequacy in FL's highest-poverty districts worsened between 2009 (-32.2%) and 2019 (-35.3%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in FL is regressive.
- Higher-poverty (30%) districts receive 16.2% less revenue than zero-poverty districts
- This level of progressivity ranks #41 in the nation (out of 49).





- FL's funding was more regressive in 2019 (-16.2%) vs. 2002 (-4.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

GEORGIA



Summary: This 2018-19 profile of Georgia's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Georgia scores 30 out of 100, which ranks 35th out of the 48 states with possible ratings.

RUTGERS

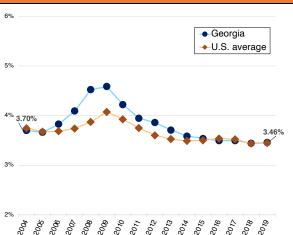
CONTEXTUAL STATS	GA	U.S.
Child (5-17yo) poverty rate (%)	18.6	15.8
Public school coverage (%)	88.3	87.6
Percent revenue from state sources	44.8	47.6
Total enrollment (U.S. rank)	1,767,2	200 (6)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Georgia effort	3.46 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in GA was equivalent to 3.46% of the state's economic capacity (GSP).
- This was 0.01 percentage points higher than the unweighted national average of 3.45%.
- GA's effort level ranks #26 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.40 percentage points in GA's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)		
Period	GA	U.S.
2004-2007	0.39	-0.01
2012-2019	-0.40	-0.15
2004-2019	-0.24	-0.30

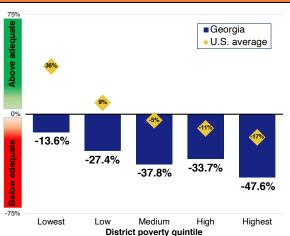
- Effort increased during the three years before the recession, going from 3.70% in 2004 to 4.09% in 2007.
- GA's effort was 0.24 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

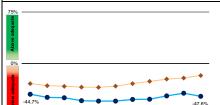
Adequacy trend (pov. Q5), 2009-19

ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in GA's highest poverty districts are severely inadequate.
- Spending in these districts is \$10,427 PP lower than the adequacy target (\$21,908), a difference of -47.6%.
- This ranks #46 in the U.S. (out of 49).
- Across the entire state, 83.0% of GA students attend districts with spending below estimated adequate levels.





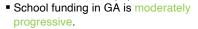
 Adequacy in GA's highest-poverty districts was roughly similar between 2009 (-44.7%) and 2019 (-47.6%).

Georgia → U.S. average

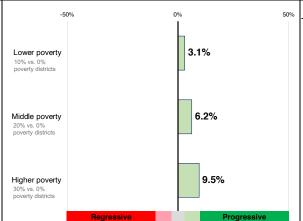
 During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

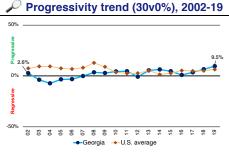
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 9.5% more revenue than zero-poverty districts.
- This level of progressivity ranks #13 in the nation (out of 49).





- GA's funding was more progressive in 2019 (9.5%) vs. 2002 (2.6%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, published by the National Center for Education Statistics.

Fiscal effort SID variables used in this section: effort; year

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- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.



2018-19 SCHOOL YEAR

HAWAII



Summary: This 2018-19 profile of Hawaii's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. An overall state score is not calculated for Hawaii, as estimates are not available for all measures.

CONTEXTUAL STATS	HI	U.S.
Child (5-17yo) poverty rate (%)	10.5	15.8
Public school coverage (%)	79.3	87.6
Percent revenue from state sources	88.3	47.6
Total enrollment (U.S. rank)	180,60	0 (40)

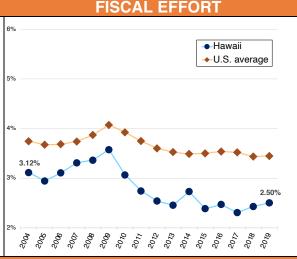
Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity,"

percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

state product (GSF)

Hawaii effort	2.50 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in HI was equivalent to 2.50% of the state's economic capacity (GSP).
- This was 0.95 percentage points lower than the unweighted national average of 3.45%.
- HI's effort level ranks #49 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.04 percentage points in HI's effort during the "K-12 recovery" period of 2012-2019.

 Net change by period (% pts.)

 Period
 HI
 U.S.

 2004-2007
 0.20
 -0.01

 2012-2019
 -0.04
 -0.15

 2004-2019
 -0.61
 -0.30

- Effort increased during the three years before the recession, going from 3.12% in 2004 to 3.31% in 2007.
- HI's effort was 0.61 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

Adequacy estimates are not available for Hawaii.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

Progressivity estimates are not available for Hawaii.



NOTES ON DATA AND MEASURES

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- 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (<u>SAIPE) program</u>; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_ppcstot_q1—necm_ppcstot_q5: necm_enroll_q1—necm_enroll_q5: year

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

IDAHO



Summary: This 2018-19 profile of Idaho's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Idaho scores 26 out of 100, which ranks 39th out of the 48 states with possible ratings.

RUTGERS

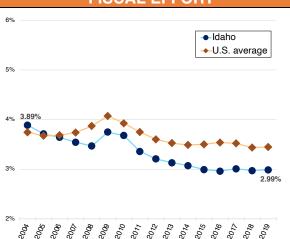
CONTEXTUAL STATS	ID	U.S.
Child (5-17yo) poverty rate (%)	11.2	15.8
Public school coverage (%)	88.6	87.6
Percent revenue from state sources	65.0	47.6
Total enrollment (U.S. rank)	303,50	0 (38)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Idaho effort	2.99 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in ID was equivalent to 2.99% of the state's economic capacity (GSP).
- This was 0.46 percentage points lower than the unweighted national average of 3.45%.
- ID's effort level ranks #39 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.22 percentage points in ID's effort during the "K-12 recovery" period of 2012-2019.

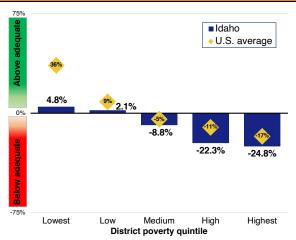
Net change by period (% pts.)		
Period	D	U.S.
2004-2007	-0.34	-0.01
2012-2019	-0.22	-0.15
2004-2019	-0.90	-0.30

- Effort decreased during the three years before the recession, going from 3.89% in 2004 to 3.54% in 2007.
- ID's effort was 0.90 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

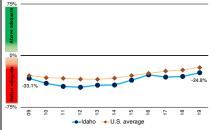
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in ID's highest poverty districts are severely inadequate.
- Spending in these districts is \$3,327 PP lower than the adequacy target (\$13,393), a difference of -24.8%.
- This ranks #27 in the U.S. (out of 49).
- Across the entire state, 56.3% of ID students attend districts with spending below estimated adequate levels.





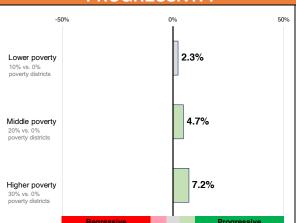


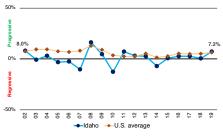
- Adequacy in ID's highest-poverty districts improved between 2009 (-33.1%) and 2019 (-24.8%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in ID is moderately progressive.
- Higher-poverty (30%) districts receive 7.2% more revenue than zero-poverty districts.
- This level of progressivity ranks #19 in the nation (out of 49).





- ID's funding was more regressive in 2019 (7.2%) vs. 2002 (8.0%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

ILLINOIS



Summary: This 2018-19 profile of Illinois's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Illinois scores 45 out of 100, which ranks 25th out of the 48 states with possible ratings.

RUTGERS

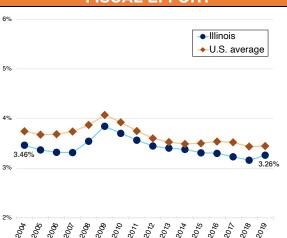
CONTEXTUAL STATS	IL	U.S.
Child (5-17yo) poverty rate (%)	14.6	15.8
Public school coverage (%)	87.4	87.6
Percent revenue from state sources	40.7	47.6
Total enrollment (U.S. rank)	2,000,2	200 (5)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Illinois effort	3.26 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in IL was equivalent to 3.26% of the state's economic capacity (GSP).
- This was 0.19 percentage points lower than the unweighted national average of 3.45%.
- IL's effort level ranks #31 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.19 percentage points in IL's effort during the "K-12 recovery" period of 2012-2019.

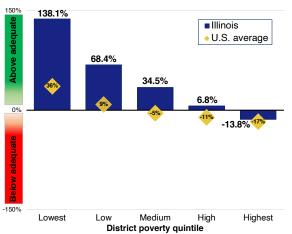
Net change by period (% pts.)		
Period	⊒	U.S.
2004-2007	-0.14	-0.01
2012-2019	-0.19	-0.15
2004-2019	-0.20	-0.30

- Effort decreased during the three years before the recession, going from 3.46% in 2004 to 3.32% in 2007.
- IL's effort was 0.20 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

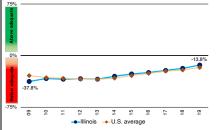
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in IL's highest poverty districts are below adequate.
- Spending in these districts is \$2,467 PP lower than the adequacy target (\$17,896), a difference of -13.8%.
- This ranks #19 in the U.S. (out of 49).
- Across the entire state, 36.7% of IL students attend districts with spending below estimated adequate levels.





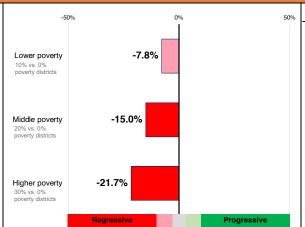


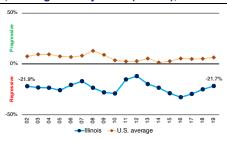
- Adequacy in IL's highest-poverty districts improved between 2009 (-37.8%) and 2019 (-13.8%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in IL is regressive.
- Higher-poverty (30%) districts receive 21.7% less revenue than zero-poverty districts.
- This level of progressivity ranks #45 in the nation (out of 49).





- IL's funding was less regressive in 2019 (-21.7%) vs. 2002 (-21.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot a1—necm_postot a5: necm_enroll_a1—necm_enroll_a5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
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- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

INDIANA



Summary: This 2018-19 profile of Indiana's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Indiana scores 32 out of 100, which ranks 34th out of the 48 states with possible ratings.

RUTGERS

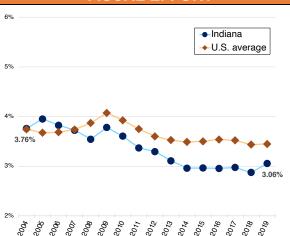
CONTEXTUAL STATS	3	IN	U.S.
Child (5-17yo) poverty	rate (%)	13.9	15.8
Public school coverage	(%)	85.8	87.6
Percent revenue from s	tate sources	61.9	47.6
Total enrollment (U.S. r	ank)	1,053,4	00 (15)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Indiana effort	3.06 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in IN was equivalent to 3.06% of the state's economic capacity (GSP).
- This was 0.39 percentage points lower than the unweighted national average of 3.45%.
- IN's effort level ranks #36 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.24 percentage points in IN's effort during the "K-12 recovery" period of 2012-2019.

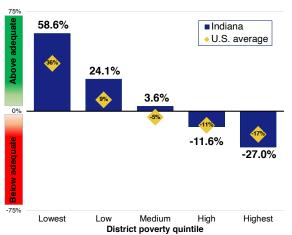
Net change by period (% pts.)		
Period	IN	U.S.
2004-2007	-0.04	-0.01
2012-2019	-0.24	-0.15
2004-2019	-0.70	-0.30

- Effort decreased during the three years before the recession, going from 3.76% in 2004 to 3.73% in 2007.
- IN's effort was 0.70 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

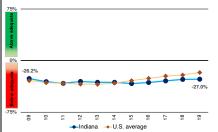
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in IN's highest poverty districts are severely inadequate.
- Spending in these districts is \$4,184 PP lower than the adequacy target (\$15,496), a difference of -27.0%.
- This ranks #30 in the U.S. (out of 49).
- Across the entire state, 40.4% of IN students attend districts with spending below estimated adequate levels.



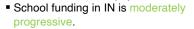




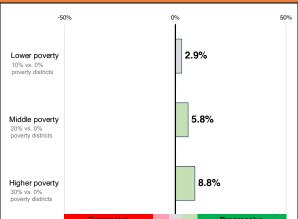
- Adequacy in IN's highest-poverty districts was roughly similar between 2009 (-26.2%) and 2019 (-27.0%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

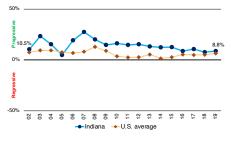
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 8.8% more revenue than zero-poverty districts.
- This level of progressivity ranks #14 in the nation (out of 49).





- IN's funding was more regressive in 2019 (8.8%) vs. 2002 (10.5%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.



2018-19 SCHOOL YEAR

IOWA



Summary: This 2018-19 profile of lowa's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), lowa scores 63 out of 100, which ranks 12th out of the 48 states with possible ratings.

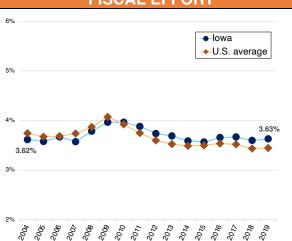
CONTEXTUAL STATS	IA	U.S.
Child (5-17yo) poverty rate (%)	11.7	15.8
Public school coverage (%)	88.9	87.6
Percent revenue from state sour	ces 52.8	47.6
Total enrollment (U.S. rank)	511,70	0 (31)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

lowa effort	3.63 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in IA was equivalent to 3.63% of the state's economic capacity (GSP).
- This was 0.18 percentage points higher than the unweighted national average of 3.45%.
- IA's effort level ranks #15 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.11 percentage points in IA's effort during the "K-12 recovery" period of 2012-2019.

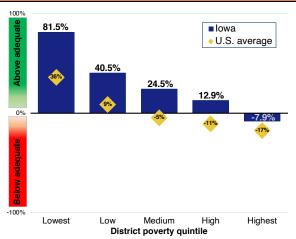
Net change by period (% pts.)		
Period	IA	U.S.
2004-2007	-0.04	-0.01
2012-2019	-0.11	-0.15
2004-2019	0.02	-0.30

- Effort decreased during the three years before the recession, going from 3.62% in 2004 to 3.58% in 2007.
- IA's effort was 0.02 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

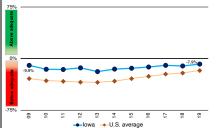
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in IA's highest poverty districts are below adequate.
- Spending in these districts is \$1,038 PP lower than the adequacy target (\$13,089), a difference of -7.9%.
- This ranks #17 in the U.S. (out of 49).
- Across the entire state, 24.9% of IA students attend districts with spending below estimated adequate levels.





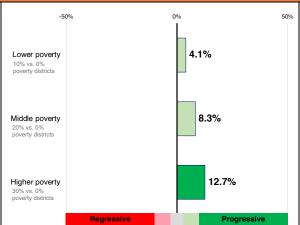


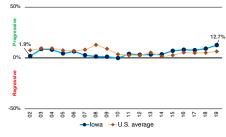
- Adequacy in IA's highest-poverty districts was roughly similar between 2009 (-9.9%) and 2019 (-7.9%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in IA is progressive.
- Higher-poverty (30%) districts receive 12.7% more revenue than zero-poverty districts.
- This level of progressivity ranks #12 in the nation (out of 49).





- IA's funding was more progressive in 2019 (12.7%) vs. 2002 (1.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_ppcstot_q1—necm_ppcstot_q5; necm_enroll_q1—necm_enroll_q5; year

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

KANSAS

FISCAL EFFORT



Summary: This 2018-19 profile of Kansas's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Kansas scores 56 out of 100, which ranks 17th out of the 48 states with possible ratings.

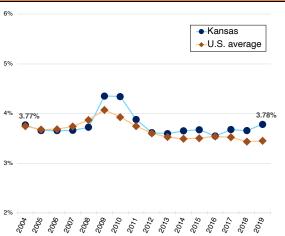
CONTEXTUAL STATS	KS	U.S.
Child (5-17yo) poverty rate (%)	12.9	15.8
Public school coverage (%)	88.0	87.6
Percent revenue from state sources	64.2	47.6
Total enrollment (U.S. rank)	495,10	0 (33)

RUTGERS

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Kansas effort	3.78 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in KS was equivalent to 3.78% of the state's economic capacity (GSP).
- This was 0.33 percentage points higher than the unweighted national average of 3.45%.
- KS's effort level ranks #12 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.17 percentage points in KS's effort during the "K-12 recovery" period of 2012-2019.

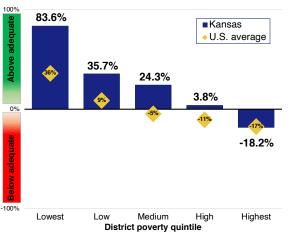
Net change by period (% pts.)		
Period	KS	U.S.
2004-2007	-0.11	-0.01
2012-2019	0.17	-0.15
2004-2019	0.01	-0.30

- Effort decreased during the three years before the recession, going from 3.77% in 2004 to 3.66% in 2007.
- KS's effort was 0.01 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

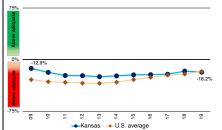
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in KS's highest poverty districts are below adequate.
- Spending in these districts is \$2,669 PP lower than the adequacy target (\$14,640), a difference of -18.2%.
- This ranks #24 in the U.S. (out of 49).
- Across the entire state, 29.9% of KS students attend districts with spending below estimated adequate levels.



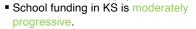




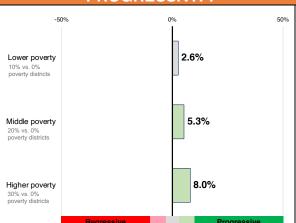
- Adequacy in KS's highest-poverty districts worsened between 2009 (-12.9%) and 2019 (-18.2%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

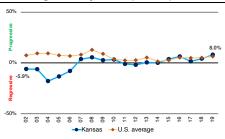
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 8.0% more revenue than zero-poverty districts.
- This level of progressivity ranks #15 in the nation (out of 49).





- KS's funding was more progressive in 2019 (8.0%) vs. 2002 (-5.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

KENTUCKY



Summary: This 2018-19 profile of Kentucky's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Kentucky scores 40 out of 100, which ranks 27th out of the 48 states with possible ratings.

RUTGERS

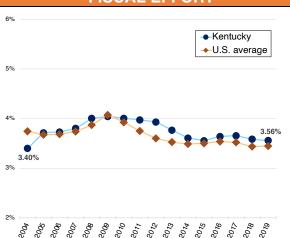
CONTEXTUAL STATS	KY	U.S.
Child (5-17yo) poverty rate (%)	19.2	15.8
Public school coverage (%)	85.5	87.6
Percent revenue from state sources	55.3	47.6
Total enrollment (U.S. rank)	678,90	0 (27)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Kentucky effort	3.56 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in KY was equivalent to 3.56% of the state's economic capacity (GSP).
- This was 0.11 percentage points higher than the unweighted national average of 3.45%.
- KY's effort level ranks #22 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.37 percentage points in KY's effort during the "K-12 recovery" period of 2012-2019.

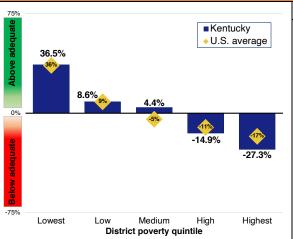
Net change by period (% pts.)			
Period	KY	U.S.	
2004-2007	0.40	-0.01	
2012-2019	-0.37	-0.15	
2004-2019	0.16	-0.30	

- Effort increased during the three years before the recession, going from 3.40% in 2004 to 3.80% in 2007.
- KY's effort was 0.16 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

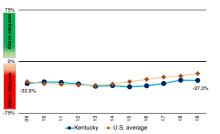
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in KY's highest poverty districts are severely inadequate.
- Spending in these districts is \$4,275 PP lower than the adequacy target (\$15,638), a difference of -27.3%.
- This ranks #31 in the U.S. (out of 49).
- Across the entire state, 26.1% of KY students attend districts with spending below estimated adequate levels.





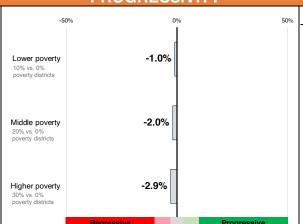


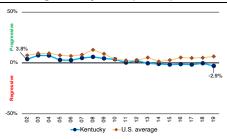
- Adequacy in KY's highest-poverty districts improved between 2009 (-32.0%) and 2019 (-27.3%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in KY is neither progressive nor regressive.
- Higher-poverty (30%) districts receive 2.9% less revenue than zero-poverty districts.
- This level of progressivity ranks #29 in the nation (out of 49).





- KY's funding was more regressive in 2019 (-2.9%) vs. 2002 (3.8%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, published by the National Center for Education Statistics.

Fiscal effort SID variables used in this section: effort; year

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- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

LOUISIANA



Summary: This 2018-19 profile of Louisiana's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Louisiana scores 24 out of 100, which ranks 41st out of the 48 states with possible ratings.

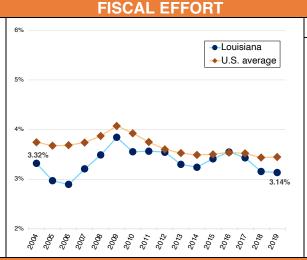
RUTGERS

CONTEXTUAL STATS	LA	U.S.
Child (5-17yo) poverty rate (%)	25.4	15.8
Public school coverage (%)	81.6	87.6
Percent revenue from state sources	41.4	47.6
Total enrollment (U.S. rank)	710,60	0 (25)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross

state product (GSP).	g
Louisiana effort	3.14 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in LA was equivalent to 3.14% of the state's economic capacity (GSP).
- This was 0.31 percentage points lower than the unweighted national average of 3.45%.
- LA's effort level ranks #35 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.41 percentage points in LA's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)			
Period	LA	U.S.	
2004-2007	-0.11	-0.01	
2012-2019	-0.41	-0.15	
2004-2019	-0.18	-0.30	

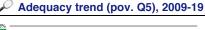
- Effort decreased during the three years before the recession, going from 3.32% in 2004 to 3.21% in 2007.
- LA's effort was 0.18 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

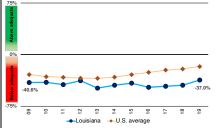
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in LA's highest poverty districts are severely inadequate.
- Spending in these districts is \$8,047 PP lower than the adequacy target (\$21,770), a difference of -37.0%.
- This ranks #39 in the U.S. (out of 49).
- Across the entire state, 79.6% of LA students attend districts with spending below estimated adequate levels.







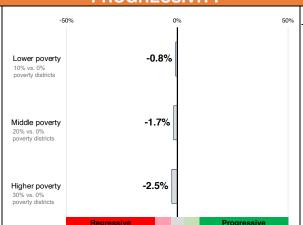
- Adequacy in LA's highest-poverty districts improved between 2009 (-40.6%) and 2019 (-37.0%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 2.5% less revenue than zero-poverty districts.
- This level of progressivity ranks #28 in the nation (out of 49).



Progressivity trend (30v0%), 2002-19

 LA's funding was less regressive in 2019 (-2.5%) vs. 2002 (-18.1%).

 Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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 - 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
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- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

MAINE



Summary: This 2018-19 profile of Maine's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Maine scores 67 out of 100, which ranks 11th out of the 48 states with possible ratings.

RUTGERS

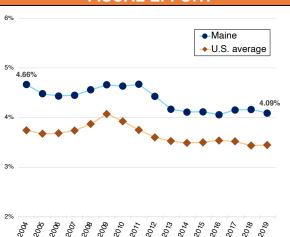
CONTEXTUAL STATS	ME	U.S.
Child (5-17yo) poverty rate (%)	12.5	15.8
Public school coverage (%)	87.0	87.6
Percent revenue from state sources	38.9	47.6
Total enrollment (U.S. rank)	179,20	0 (41)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Maine effort	4.09 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in ME was equivalent to 4.09% of the state's economic capacity (GSP).
- This was 0.64 percentage points higher than the unweighted national average of 3.45%.
- ME's effort level ranks #7 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.34 percentage points in ME's effort during the "K-12 recovery" period of 2012-2019.

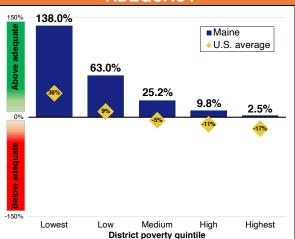
Net change by period (% pts.)			
Period	ME	U.S.	
2004-2007	-0.21	-0.01	
2012-2019	-0.34	-0.15	
2004-2019	-0.57	-0.30	

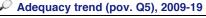
- Effort decreased during the three years before the recession, going from 4.66% in 2004 to 4.45% in 2007.
- ME's effort was 0.57 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

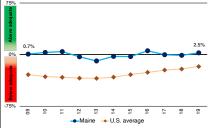
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in ME's highest poverty districts are above adequate.
- Spending in these districts is \$353 PP higher than the adequacy target (\$14,220), a difference of 2.5%.
- This ranks #11 in the U.S. (out of 49).
- Across the entire state, 11.6% of ME students attend districts with spending below estimated adequate levels.





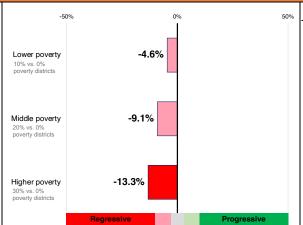


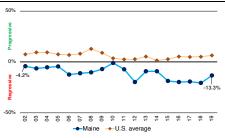
- Adequacy in ME's highest-poverty districts was roughly similar between 2009 (0.7%) and 2019 (2.5%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in ME is regressive.
- Higher-poverty (30%) districts receive 13.3% less revenue than zero-poverty districts
- This level of progressivity ranks #37 in the nation (out of 49).





- ME's funding was more regressive in 2019 (-13.3%) vs. 2002 (-4.2%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

MARYLAND



Summary: This 2018-19 profile of Maryland's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Maryland scores 48 out of 100, which ranks 22nd out of the 48 states with possible ratings.

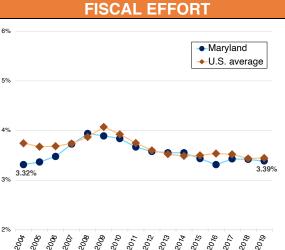
CONTEXTUAL STATS	MD	U.S.
Child (5-17yo) poverty rate (%)	11.9	15.8
Public school coverage (%)	83.1	87.6
Percent revenue from state sources	42.5	47.6
Total enrollment (U.S. rank)	898,80	0 (20)

RUTGERS

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Maryland effort	3.39 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in MD was equivalent to 3.39% of the state's economic capacity (GSP).
- This was 0.06 percentage points lower than the unweighted national average of 3.45%.
- MD's effort level ranks #27 in the nation (out of 49).



Effort trend, 2004-2019

■ There was a decrease of 0.19 percentage points in MD's effort during the "K-12 recovery" period of 2012-2019.

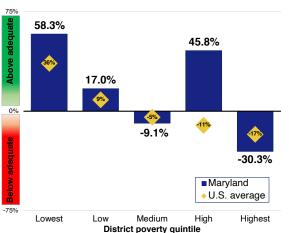
Net change by period (% pts.)			
Period	MD	U.S.	
2004-2007	0.41	-0.01	
2012-2019	-0.19	-0.15	
2004-2019	0.07	-0.30	

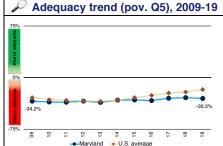
- Effort increased during the three years before the recession, going from 3.32% in 2004 to 3.73% in 2007.
- MD's effort was 0.07 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in MD's highest poverty districts are severely inadequate.
- Spending in these districts is \$6,804 PP lower than the adequacy target (\$22,438), a difference of -30.3%.
- This ranks #32 in the U.S. (out of 49).
- Across the entire state, 41.7% of MD students attend districts with spending below estimated adequate levels.



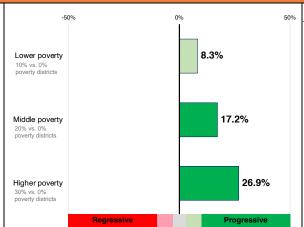


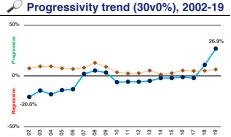
- Adequacy in MD's highest-poverty districts improved between 2009 (-34.2%) and 2019 (-30.3%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in MD is progressive.
- Higher-poverty (30%) districts receive 26.9% more revenue than zero-poverty
- This level of progressivity ranks #8 in the nation (out of 49).





■Maryland → U.S. average

- MD's funding was more progressive in 2019 (26.9%) vs. 2002 (-20.6%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
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- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

MASSACHUSETTS



Summary: This 2018-19 profile of Massachusetts's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Massachusetts scores 57 out of 100, which ranks 15th out of the 48 states with possible ratings.

RUTGERS

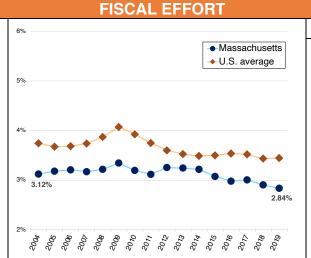
CONTEXTUAL STATS	MA	U.S.
Child (5-17yo) poverty rate (%)	11.5	15.8
Public school coverage (%)	89.5	87.6
Percent revenue from state sources	39.4	47.6
Total enrollment (U.S. rank)	963,10	0 (17)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity,"

percentage of its economic capacity, which we measure here in terms of gross state product (GSP).

Massachusetts effort	2.84 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in MA was equivalent to 2.84% of the state's economic capacity (GSP).
- This was 0.61 percentage points lower than the unweighted national average of 3.45%.
- MA's effort level ranks #43 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.42 percentage points in MA's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)			
Period	MA	U.S.	
2004-2007	0.05	-0.01	
2012-2019	-0.42	-0.15	
2004-2019	-0.29	-0.30	

- Effort increased during the three years before the recession, going from 3.12% in 2004 to 3.17% in 2007.
- MA's effort was 0.29 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

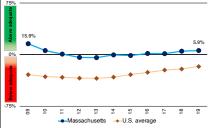
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in MA's highest poverty districts are above adequate.
- Spending in these districts is \$997 PP higher than the adequacy target (\$16,922), a difference of 5.9%.
- This ranks #10 in the U.S. (out of 49).
- Across the entire state, 14.9% of MA students attend districts with spending below estimated adequate levels.





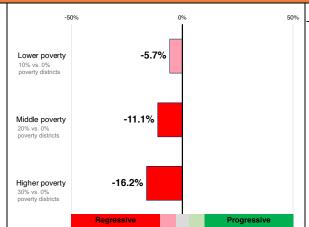


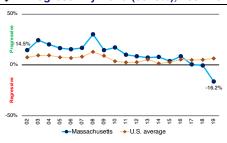
- Adequacy in MA's highest-poverty districts worsened between 2009 (15.9%) and 2019 (5.9%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in MA is regressive.
- Higher-poverty (30%) districts receive 16.2% less revenue than zero-poverty districts.
- This level of progressivity ranks #42 in the nation (out of 49).





- MA's funding was more regressive in 2019 (-16.2%) vs. 2002 (14.5%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

MICHIGAN



state product (GSP).

Summary: This 2018-19 profile of Michigan's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Michigan scores 33 out of 100, which ranks 32nd out of the 48 states with possible ratings.

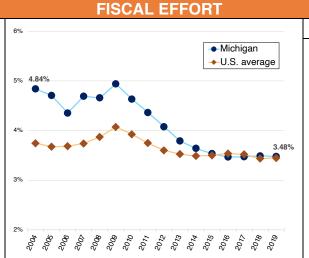
RUTGERS

CONTEXTUAL STATS	MI	U.S.
Child (5-17yo) poverty rate (%)	16.3	15.8
Public school coverage (%)	87.6	87.6
Percent revenue from state sources	57.7	47.6
Total enrollment (U.S. rank)	1,499,8	00 (10)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross

1 \ /	
Michigan effort	3.48 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in MI was equivalent to 3.48% of the state's economic capacity (GSP).
- This was 0.03 percentage points higher than the unweighted national average of 3.45%.
- MI's effort level ranks #25 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.60 percentage points in MI's effort during the "K-12 recovery" period of 2012-2019.

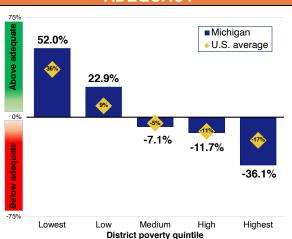
Net change by period (% pts.)			
Period	MI	U.S.	
2004-2007	-0.15	-0.01	
2012-2019	-0.60	-0.15	
2004-2019	-1.36	-0.30	

- Effort decreased during the three years before the recession, going from 4.84% in 2004 to 4.69% in 2007.
- MI's effort was 1.36 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

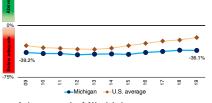
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in MI's highest poverty districts are severely inadequate.
- Spending in these districts is \$7,062 PP lower than the adequacy target (\$19,573), a difference of -36.1%.
- This ranks #36 in the U.S. (out of 49).
- Across the entire state, 37.2% of MI students attend districts with spending below estimated adequate levels.



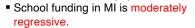




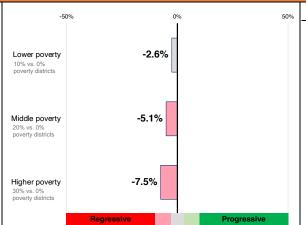
- Adequacy in MI's highest-poverty districts improved between 2009 (-39.2%) and 2019 (-36.1%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

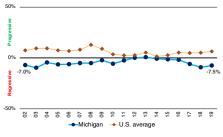
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 7.5% less revenue than zero-poverty districts.
- This level of progressivity ranks #35 in the nation (out of 49).





- MI's funding was more regressive in 2019 (-7.5%) vs. 2002 (-7.0%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

MINNESOTA



Summary: This 2018-19 profile of Minnesota's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Minnesota scores 57 out of 100, which ranks 14th out of the 48 states with possible ratings.

RUTGERS

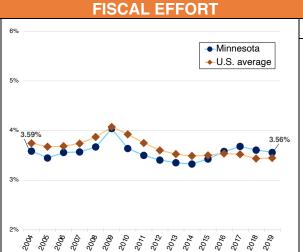
CONTEXTUAL STATS	MN	U.S.
Child (5-17yo) poverty rate (%)	10.4	15.8
Public school coverage (%)	89.2	87.6
Percent revenue from state sources	64.3	47.6
Total enrollment (U.S. rank)	892,20	0 (21)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity,"

percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Minnesota effort	3.56 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in MN was equivalent to 3.56% of the state's economic capacity (GSP).
- This was 0.11 percentage points higher than the unweighted national average of 3.45%.
- MN's effort level ranks #21 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.15 percentage points in MN's effort during the "K-12 recovery" period of 2012-2019.

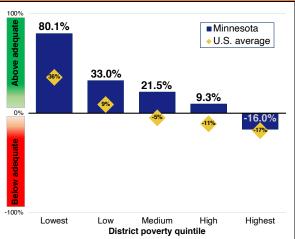
Net change by period (% pts.)			
Period	MN	U.S.	
2004-2007	-0.02	-0.01	
2012-2019	0.15	-0.15	
2004-2019	-0.03	-0.30	

- Effort decreased during the three years before the recession, going from 3.59% in 2004 to 3.57% in 2007.
- MN's effort was 0.03 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

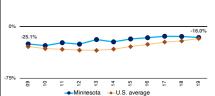
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in MN's highest poverty districts are below adequate.
- Spending in these districts is \$2,792 PP lower than the adequacy target (\$17,472), a difference of -16.0%.
- This ranks #22 in the U.S. (out of 49).
- Across the entire state, 17.7% of MN students attend districts with spending below estimated adequate levels.





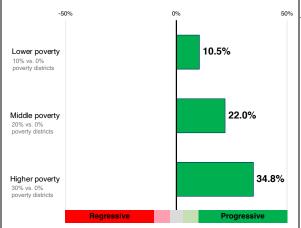


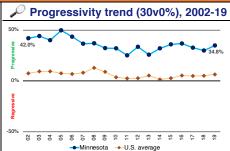
- Adequacy in MN's highest-poverty districts improved between 2009 (-25.1%) and 2019 (-16.0%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in MN is progressive.
- Higher-poverty (30%) districts receive 34.8% more revenue than zero-poverty districts.
- This level of progressivity ranks #6 in the nation (out of 49).





- MN's funding was more regressive in 2019 (34.8%) vs. 2002 (42.0%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot a1—necm_postot a5: necm_enroll_a1—necm_enroll_a5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

MISSISSIPPI



Summary: This 2018-19 profile of Mississippi's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Mississippi scores 25 out of 100, which ranks 40th out of the 48 states with possible ratings.

RUTGERS

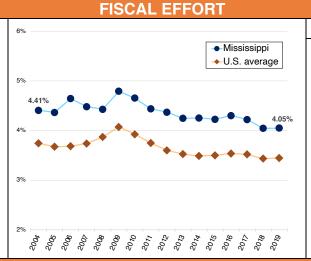
CONTEXTUAL STATS	MS	U.S.
Child (5-17yo) poverty rate (%)	26.4	15.8
Public school coverage (%)	85.6	87.6
Percent revenue from state sources	49.5	47.6
Total enrollment (U.S. rank)	471,40	0 (35)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity."

percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Mississippi effort	4.05 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in MS was equivalent to 4.05% of the state's economic capacity (GSP).
- This was 0.60 percentage points higher than the unweighted national average of 3.45%.
- MS's effort level ranks #8 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.32 percentage points in MS's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)		
Period	MS	U.S.
2004-2007	0.07	-0.01
2012-2019	-0.32	-0.15
2004-2019	-0.36	-0.30

- Effort increased during the three years before the recession, going from 4.41% in 2004 to 4.48% in 2007.
- MS's effort was 0.36 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

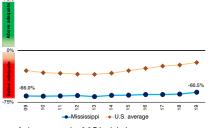
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in MS's highest poverty districts are severely inadequate.
- Spending in these districts is \$16,009 PP lower than the adequacy target (\$26,440), a difference of -60.5%.
- This ranks #49 in the U.S. (out of 49).
- Across the entire state, 99.3% of MS students attend districts with spending below estimated adequate levels.



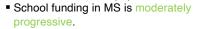




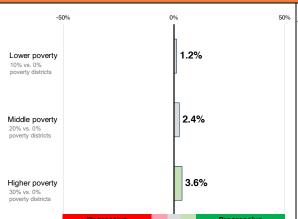
- Adequacy in MS's highest-poverty districts improved between 2009 (-66.0%) and 2019 (-60.5%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

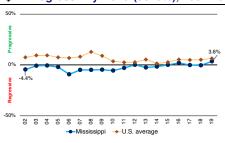
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 3.6% more revenue than zero-poverty districts.
- This level of progressivity ranks #25 in the nation (out of 49).





- MS's funding was more progressive in 2019 (3.6%) vs. 2002 (-4.4%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
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- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
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- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

MISSOURI



Summary: This 2018-19 profile of Missouri's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Missouri scores 27 out of 100, which ranks 38th out of the 48 states with possible ratings.

RUTGERS

CONTEXTUAL STATS	MO	U.S.
Child (5-17yo) poverty rate (%)	15.9	15.8
Public school coverage (%)	83.9	87.6
Percent revenue from state sources	41.8	47.6
Total enrollment (U.S. rank)	913,10	0 (18)

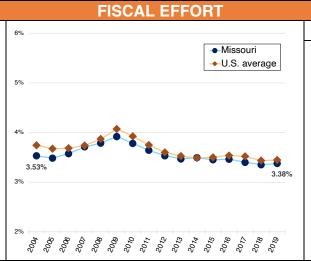
Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity,"

which we measure here in terms of gross state product (GSP). Missouri effort 3.38 %

U.S. average	3.45 %
In FY 2019, total direct sta	ite and local
K-12 spending in MO was	equivalent
to 3 38% of the state's eco	nomic

- This was 0.07 percentage points lower than the unweighted national average of 3.45%.
- MO's effort level ranks #28 in the nation (out of 49).

capacity (GSP).



Effort trend, 2004-2019

■ There was a decrease of 0.16 percentage points in MO's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)		
Period	МО	U.S.
2004-2007	0.18	-0.01
2012-2019	-0.16	-0.15
2004-2019	-0.15	-0.30

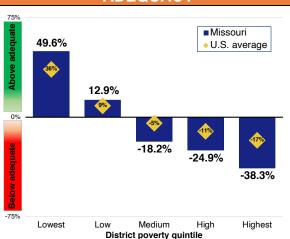
- Effort increased during the three years before the recession, going from 3.53% in 2004 to 3.71% in 2007.
- MO's effort was 0.15 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

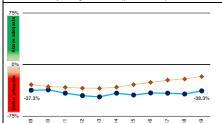
Adequacy trend (pov. Q5), 2009-19

ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in MO's highest poverty districts are severely inadequate.
- Spending in these districts is \$7,394 PP lower than the adequacy target (\$19,323), a difference of -38.3%.
- This ranks #40 in the U.S. (out of 49).
- Across the entire state, 44.7% of MO students attend districts with spending below estimated adequate levels.



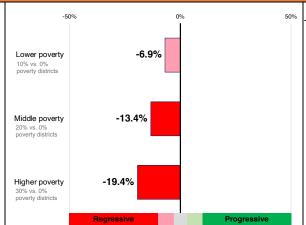


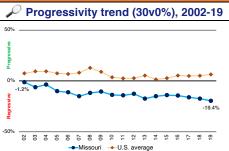
- Adequacy in MO's highest-poverty districts was roughly similar between 2009 (-37.3%) and 2019 (-38.3%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in MO is regressive.
- Higher-poverty (30%) districts receive 19.4% less revenue than zero-poverty
- This level of progressivity ranks #44 in the nation (out of 49).





- MO's funding was more regressive in 2019 (-19.4%) vs. 2002 (-1.2%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

MONTANA



Summary: This 2018-19 profile of Montana's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Montana scores 57 out of 100, which ranks 16th out of the 48 states with possible ratings.

RUTGERS

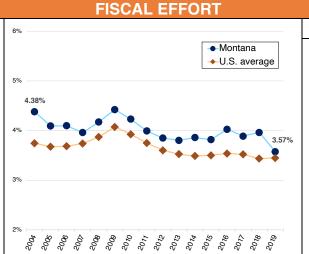
CONTEXTUAL STATS	MT	U.S.
Child (5-17yo) poverty rate (%)	14.2	15.8
Public school coverage (%)	85.4	87.6
Percent revenue from state sources	42.6	47.6
Total enrollment (U.S. rank)	150,40	0 (43)

Fiscal effort is direct state and local K-12 expenditures in each state as a

12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Montana effort	3.57 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in MT was equivalent to 3.57% of the state's economic capacity (GSP).
- This was 0.13 percentage points higher than the unweighted national average of 3.45%.
- MT's effort level ranks #20 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.27 percentage points in MT's effort during the "K-12 recovery" period of 2012-2019.

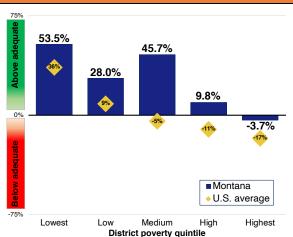
Net change by period (% pts.)			
Period	MT	U.S.	
2004-2007	-0.42	-0.01	
2012-2019	-0.27	-0.15	
2004-2019	-0.81	-0.30	

- Effort decreased during the three years before the recession, going from 4.38% in 2004 to 3.96% in 2007.
- MT's effort was 0.81 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

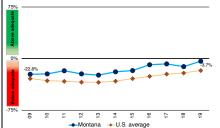
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in MT's highest poverty districts are below adequate.
- Spending in these districts is \$591 PP lower than the adequacy target (\$16,028), a difference of -3.7%.
- This ranks #13 in the U.S. (out of 49).
- Across the entire state, 19.2% of MT students attend districts with spending below estimated adequate levels.





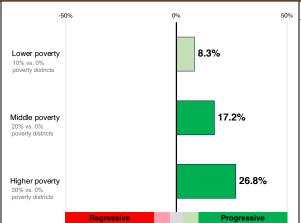


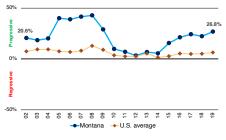
- Adequacy in MT's highest-poverty districts improved between 2009 (-22.8%) and 2019 (-3.7%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in MT is progressive.
- Higher-poverty (30%) districts receive 26.8% more revenue than zero-poverty districts.
- This level of progressivity ranks #9 in the nation (out of 49).





- MT's funding was more progressive in 2019 (26.8%) vs. 2002 (20.6%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot a1—necm_postot a5: necm_enroll_a1—necm_enroll_a5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

NEBRASKA



Summary: This 2018-19 profile of Nebraska's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Nebraska scores 81 out of 100, which ranks 6th out of the 48 states with possible ratings.

RUTGERS

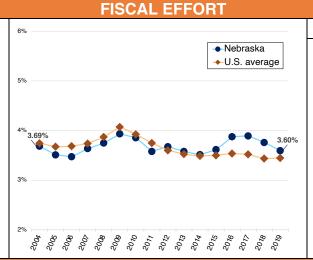
CONTEXTUAL STATS	NE	U.S.
Child (5-17yo) poverty rate (%)	10.3	15.8
Public school coverage (%)	84.1	87.6
Percent revenue from state sources	32.3	47.6
Total enrollment (U.S. rank)	325,90	0 (37)

Fiscal effort is direct state and local K-12 expenditures in each state as a

12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Nebraska effort	3.60 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in NE was equivalent to 3.60% of the state's economic capacity (GSP).
- This was 0.15 percentage points higher than the unweighted national average of 3.45%.
- NE's effort level ranks #17 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.08 percentage points in NE's effort during the "K-12 recovery" period of 2012-2019.

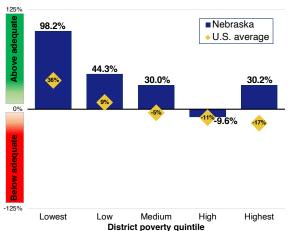
Net change by period (% pts.)		
Period	NE	U.S.
2004-2007	-0.05	-0.01
2012-2019	-0.08	-0.15
2004-2019	-0.09	-0.30

- Effort decreased during the three years before the recession, going from 3.69% in 2004 to 3.64% in 2007.
- NE's effort was 0.09 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

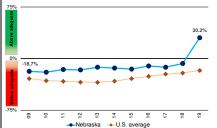
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in NE's highest poverty districts are above adequate.
- Spending in these districts is \$3,921 PP higher than the adequacy target (\$12,992), a difference of 30.2%.
- This ranks #4 in the U.S. (out of 49).
- Across the entire state, 19.1% of NE students attend districts with spending below estimated adequate levels.





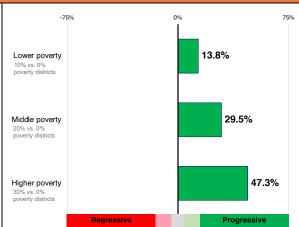


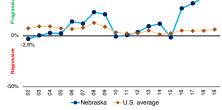
- Adequacy in NE's highest-poverty districts improved between 2009 (-18.7%) and 2019 (30.2%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in NE is progressive.
- Higher-poverty (30%) districts receive 47.3% more revenue than zero-poverty districts.
- This level of progressivity ranks #5 in the nation (out of 49).





- NE's funding was more progressive in 2019 (47.3%) vs. 2002 (-2.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
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- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

NEVADA



Summary: This 2018-19 profile of Nevada's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Nevada scores 20 out of 100, which ranks 45th out of the 48 states with possible ratings.

RUTGERS

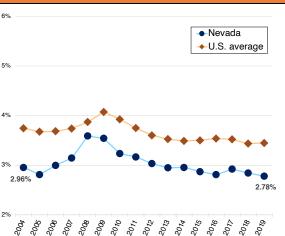
CONTEXTUAL STATS	NV	U.S.
Child (5-17yo) poverty rate (%)	16.5	15.8
Public school coverage (%)	90.2	87.6
Percent revenue from state sources	62.1	47.6
Total enrollment (U.S. rank)	492,20	0 (34)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Nevada effort	2.78 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in NV was equivalent to 2.78% of the state's economic capacity (GSP).
- This was 0.67 percentage points lower than the unweighted national average of 3.45%.
- NV's effort level ranks #45 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.26 percentage points in NV's effort during the "K-12 recovery" period of 2012-2019.

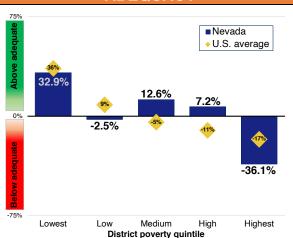
Net change by period (% pts.)		
Period	NV	U.S.
2004-2007	0.19	-0.01
2012-2019	-0.26	-0.15
2004-2019	-0.18	-0.30

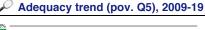
- Effort increased during the three years before the recession, going from 2.96% in 2004 to 3.14% in 2007.
- NV's effort was 0.18 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

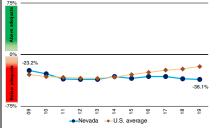
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in NV's highest poverty districts are severely inadequate.
- Spending in these districts is \$5,102 PP lower than the adequacy target (\$14,114), a difference of -36.1%.
- This ranks #37 in the U.S. (out of 49).
- Across the entire state, 88.9% of NV students attend districts with spending below estimated adequate levels.





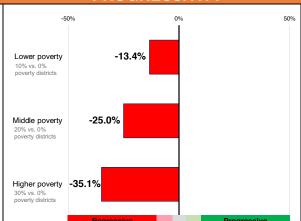


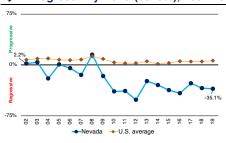
- Adequacy in NV's highest-poverty districts worsened between 2009 (-23.2%) and 2019 (-36.1%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in NV is regressive.
- Higher-poverty (30%) districts receive 35.1% less revenue than zero-poverty districts.
- This level of progressivity ranks #49 in the nation (out of 49).





- NV's funding was more regressive in 2019 (-35.1%) vs. 2002 (2.2%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

NEW HAMPSHIRE



Summary: This 2018-19 profile of New Hampshire's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), New Hampshire scores 84 out of 100, which ranks 5th out of the 48 states with possible ratings.

RUTGERS

CONTEXTUAL STATS	NH	U.S.
Child (5-17yo) poverty rate (%)	7.5	15.8
Public school coverage (%)	87.8	87.6
Percent revenue from state sources	30.7	47.6
Total enrollment (U.S. rank)	177,90	0 (42)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

New Hampshire effort	3.66 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in NH was equivalent to 3.66% of the state's economic capacity (GSP).
- This was 0.21 percentage points higher than the unweighted national average of 3.45%.
- NH's effort level ranks #14 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.42 percentage points in NH's effort during the "K-12 recovery" period of 2012-2019.

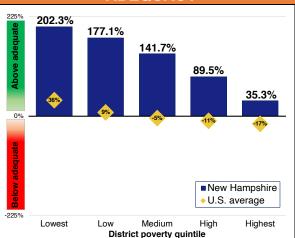
Net change by period (% pts.)		
Period	NH	U.S.
2004-2007	0.14	-0.01
2012-2019	-0.42	-0.15
2004-2019	-0.15	-0.30

- Effort increased during the three years before the recession, going from 3.80% in 2004 to 3.95% in 2007.
- NH's effort was 0.15 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

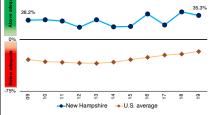
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in NH's highest poverty districts are above adequate.
- Spending in these districts is \$4,206 PP higher than the adequacy target (\$11,929), a difference of 35.3%.
- This ranks #3 in the U.S. (out of 49).
- Across the entire state, 0.1% of NH students attend districts with spending below estimated adequate levels.





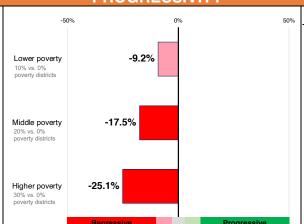


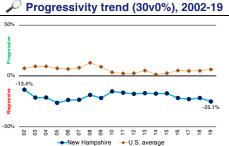
- Adequacy in NH's highest-poverty districts improved between 2009 (28.2%) and 2019 (35.3%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in NH is regressive.
- Higher-poverty (30%) districts receive 25.1% less revenue than zero-poverty districts.
- This level of progressivity ranks #47 in the nation (out of 49).





- NH's funding was more regressive in 2019 (-25.1%) vs. 2002 (-13.4%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

NEW JERSEY



Summary: This 2018-19 profile of New Jersey's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), New Jersey scores 88 out of 100, which ranks 4th out of the 48 states with possible ratings.

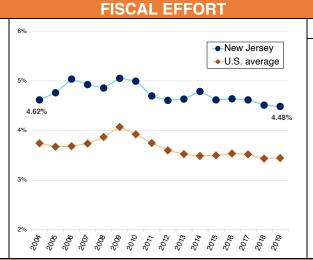
RUTGERS

CONTEXTUAL STATS	NJ	U.S.
Child (5-17yo) poverty rate (%)	11.5	15.8
Public school coverage (%)	87.7	87.6
Percent revenue from state sources	42.6	47.6
Total enrollment (U.S. rank)	1,402,2	00 (11)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

New Jersey effort	4.48 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in NJ was equivalent to 4.48% of the state's economic capacity (GSP).
- This was 1.03 percentage points higher than the unweighted national average of 3.45%.
- NJ's effort level ranks #1 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.12 percentage points in NJ's effort during the "K-12 recovery" period of 2012-2019.

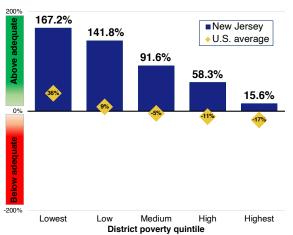
Net change by period (% pts.)		
Period	NJ	U.S.
2004-2007	0.31	-0.01
2012-2019	-0.12	-0.15
2004-2019	-0.14	-0.30

- Effort increased during the three years before the recession, going from 4.62% in 2004 to 4.92% in 2007.
- NJ's effort was 0.14 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

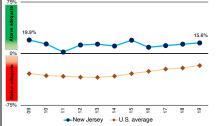
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in NJ's highest poverty districts are above adequate.
- Spending in these districts is \$2,656 PP higher than the adequacy target (\$17,018), a difference of 15.6%.
- This ranks #6 in the U.S. (out of 49).
- Across the entire state, 5.1% of NJ students attend districts with spending below estimated adequate levels.



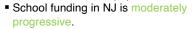




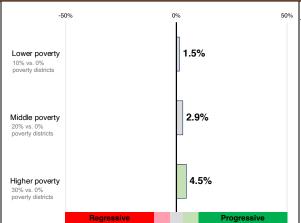
- Adequacy in NJ's highest-poverty districts worsened between 2009 (19.9%) and 2019 (15.6%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

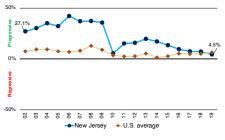
Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 4.5% more revenue than zero-poverty districts.
- This level of progressivity ranks #22 in the nation (out of 49).







- NJ's funding was more regressive in 2019 (4.5%) vs. 2002 (27.1%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

NEW MEXICO



Summary: This 2018-19 profile of New Mexico's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), New Mexico scores 34 out of 100, which ranks 30th out of the 48 states with possible ratings.

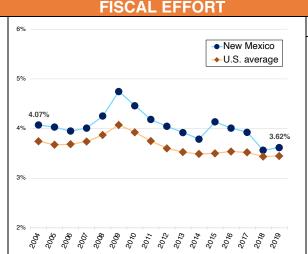
RUTGERS

CONTEXTUAL STATS	NM	U.S.
Child (5-17yo) poverty rate (%)	22.4	15.8
Public school coverage (%)	89.6	87.6
Percent revenue from state sources	67.0	47.6
Total enrollment (U.S. rank)	330,60	0 (36)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

	2.22.2/
New Mexico effort	3.62 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in NM was equivalent to 3.62% of the state's economic capacity (GSP).
- This was 0.17 percentage points higher than the unweighted national average of 3.45%.
- NM's effort level ranks #16 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.42 percentage points in NM's effort during the "K-12 recovery" period of 2012-2019.

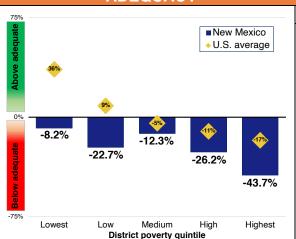
Net change by period (% pts.)		
Period	NM	U.S.
2004-2007	-0.06	-0.01
2012-2019	-0.42	-0.15
2004-2019	-0.45	-0.30

- Effort decreased during the three years before the recession, going from 4.07% in 2004 to 4.01% in 2007.
- NM's effort was 0.45 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

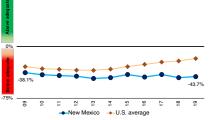
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in NM's highest poverty districts are severely inadequate.
- Spending in these districts is \$9,013 PP lower than the adequacy target (\$20,622), a difference of -43.7%.
- This ranks #43 in the U.S. (out of 49).
- Across the entire state, 93.9% of NM students attend districts with spending below estimated adequate levels.



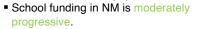




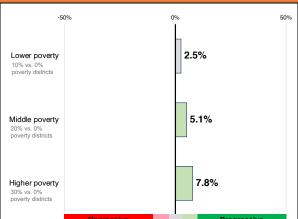
- Adequacy in NM's highest-poverty districts worsened between 2009 (-38.1%) and 2019 (-43.7%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

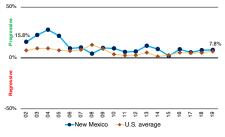
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 7.8% more revenue than zero-poverty districts.
- This level of progressivity ranks #16 in the nation (out of 49).





- NM's funding was more regressive in 2019 (7.8%) vs. 2002 (15.8%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

NEW YORK



Summary: This 2018-19 profile of New York's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), New York scores 92 out of 100, which ranks 3rd out of the 48 states with possible ratings.

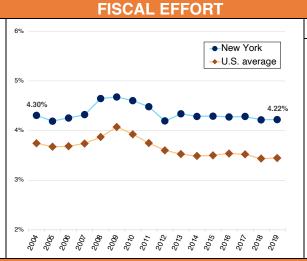
RUTGERS

CONTEXTUAL STATS	NY	U.S.
Child (5-17yo) poverty rate (%)	17.2	15.8
Public school coverage (%)	83.4	87.6
Percent revenue from state sources	39.7	47.6
Total enrollment (U.S. rank)	2,718,9	900 (4)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

New York effort	4.22 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in NY was equivalent to 4.22% of the state's economic capacity (GSP).
- This was 0.77 percentage points higher than the unweighted national average of 3.45%.
- NY's effort level ranks #5 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.03 percentage points in NY's effort during the "K-12 recovery" period of 2012-2019.

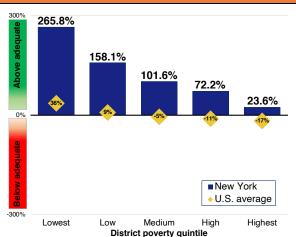
Net change by period (% pts.)			
Period	NY	U.S.	
2004-2007	0.02	-0.01	
2012-2019	0.03	-0.15	
2004-2019	-0.08	-0.30	

- Effort increased during the three years before the recession, going from 4.30% in 2004 to 4.32% in 2007.
- NY's effort was 0.08 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

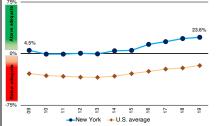
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in NY's highest poverty districts are above adequate.
- Spending in these districts is \$5,084 PP higher than the adequacy target (\$21,561), a difference of 23.6%.
- This ranks #5 in the U.S. (out of 49).
- Across the entire state, 3.7% of NY students attend districts with spending below estimated adequate levels.



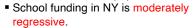




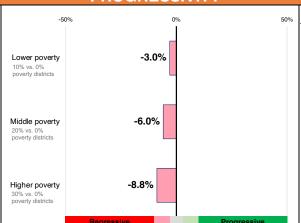
- Adequacy in NY's highest-poverty districts improved between 2009 (4.5%) and 2019 (23.6%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

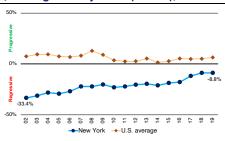
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 8.8% less revenue than zero-poverty districts.
- This level of progressivity ranks #36 in the nation (out of 49).





- NY's funding was less regressive in 2019 (-8.8%) vs. 2002 (-33.4%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

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- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

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- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

NORTH CAROLINA



Summary: This 2018-19 profile of North Carolina's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), North Carolina scores 18 out of 100, which ranks 46th out of the 48 states with possible ratings.

RUTGERS

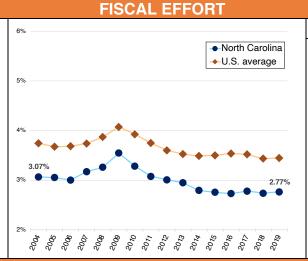
CONTEXTUAL STATS	NC	U.S.
Child (5-17yo) poverty rate (%)	18.1	15.8
Public school coverage (%)	86.9	87.6
Percent revenue from state sources	61.7	47.6
Total enrollment (U.S. rank)	1,550,4	100 (9)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity,"

which we measure here in terms of gross state product (GSP).

North Carolina effort	2.77 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in NC was equivalent to 2.77% of the state's economic capacity (GSP).
- This was 0.68 percentage points lower than the unweighted national average of 3.45%.
- NC's effort level ranks #46 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.24 percentage points in NC's effort during the "K-12 recovery" period of 2012-2019.

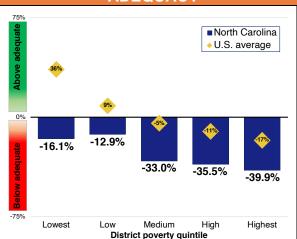
Net change by period (% pts.)			
Period	NC	U.S.	
2004-2007	0.11	-0.01	
2012-2019	-0.24	-0.15	
2004-2019	-0.30	-0.30	

- Effort increased during the three years before the recession, going from 3.07% in 2004 to 3.17% in 2007.
- NC's effort was 0.30 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

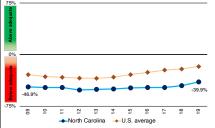
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in NC's highest poverty districts are severely inadequate.
- Spending in these districts is \$7,017 PP lower than the adequacy target (\$17,589), a difference of -39.9%.
- This ranks #42 in the U.S. (out of 49).
- Across the entire state, 84.4% of NC students attend districts with spending below estimated adequate levels.





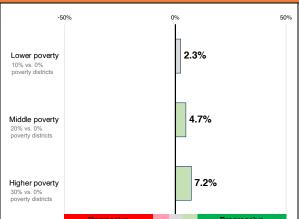


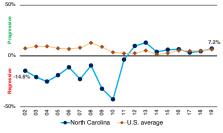
- Adequacy in NC's highest-poverty districts improved between 2009 (-46.9%) and 2019 (-39.9%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in NC is moderately progressive.
- Higher-poverty (30%) districts receive 7.2% more revenue than zero-poverty districts.
- This level of progressivity ranks #18 in the nation (out of 49).





- NC's funding was more progressive in 2019 (7.2%) vs. 2002 (-14.6%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

NORTH DAKOTA



Summary: This 2018-19 profile of North Dakota's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), North Dakota scores 70 out of 100, which ranks 10th out of the 48 states with possible ratings.

RUTGERS

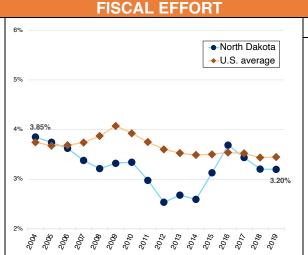
CONTEXTUAL STATS	ND	U.S.
Child (5-17yo) poverty rate (%)	10.2	15.8
Public school coverage (%)	88.0	87.6
Percent revenue from state sources	54.7	47.6
Total enrollment (U.S. rank)	111,10	0 (48)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity,"

percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

North Dakota effort	3.20 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in ND was equivalent to 3.20% of the state's economic capacity (GSP).
- This was 0.25 percentage points lower than the unweighted national average of 3.45%.
- ND's effort level ranks #34 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.66 percentage points in ND's effort during the "K-12 recovery" period of 2012-2019.

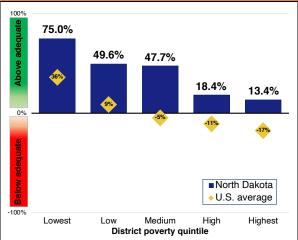
Net change by period (% pts.)		
Period	ND	U.S.
2004-2007	-0.47	-0.01
2012-2019	0.66	-0.15
2004-2019	-0.65	-0.30

- Effort decreased during the three years before the recession, going from 3.85% in 2004 to 3.38% in 2007.
- ND's effort was 0.65 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

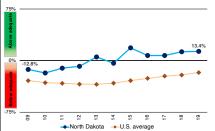
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in ND's highest poverty districts are above adequate.
- Spending in these districts is \$2,048 PP higher than the adequacy target (\$15,337), a difference of 13.4%.
- This ranks #8 in the U.S. (out of 49).
- Across the entire state, 4.7% of ND students attend districts with spending below estimated adequate levels.





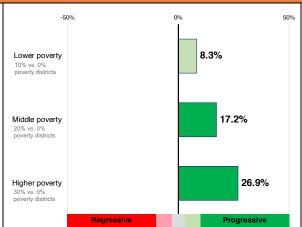


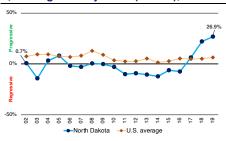
- Adequacy in ND's highest-poverty districts improved between 2009 (-12.8%) and 2019 (13.4%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in ND is progressive.
- Higher-poverty (30%) districts receive 26.9% more revenue than zero-poverty districts
- This level of progressivity ranks #7 in the nation (out of 49).





- ND's funding was more progressive in 2019 (26.9%) vs. 2002 (0.7%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: year

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
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- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

OHIO



Summary: This 2018-19 profile of Ohio's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Ohio scores 54 out of 100, which ranks 19th out of the 48 states with possible ratings.

RUTGERS

CONTEXTUAL STATS	ОН	U.S.
Child (5-17yo) poverty rate (%)	16.6	15.8
Public school coverage (%)	84.0	87.6
Percent revenue from state sources	39.3	47.6
Total enrollment (U.S. rank)	1,690,9	900 (8)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Ohio effort	3.76 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in OH was equivalent to 3.76% of the state's economic capacity (GSP).
- This was 0.31 percentage points higher than the unweighted national average of 3.45%.
- OH's effort level ranks #13 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.39 percentage points in OH's effort during the "K-12 recovery" period of 2012-2019.

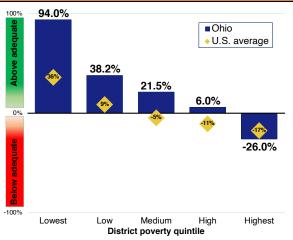
Net change by period (% pts.)		
Period	ОН	U.S.
2004-2007	-0.01	-0.01
2012-2019	-0.39	-0.15
2004-2019	-0.45	-0.30

- Effort decreased during the three years before the recession, going from 4.21% in 2004 to 4.20% in 2007.
- OH's effort was 0.45 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

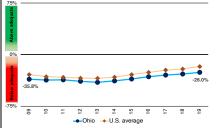
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in OH's highest poverty districts are severely inadequate.
- Spending in these districts is \$5,059 PP lower than the adequacy target (\$19,490), a difference of -26.0%.
- This ranks #28 in the U.S. (out of 49).
- Across the entire state, 33.6% of OH students attend districts with spending below estimated adequate levels.



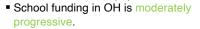




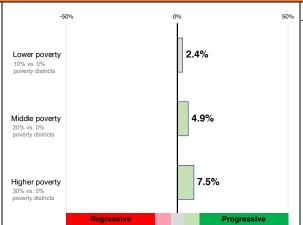
- Adequacy in OH's highest-poverty districts improved between 2009 (-35.8%) and 2019 (-26.0%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

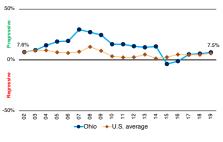
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 7.5% more revenue than zero-poverty districts.
- This level of progressivity ranks #17 in the nation (out of 49).





- OH's funding was more regressive in 2019 (7.5%) vs. 2002 (7.6%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

OKLAHOMA



Summary: This 2018-19 profile of Oklahoma's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Oklahoma scores 29 out of 100, which ranks 36th out of the 48 states with possible ratings.

RUTGERS

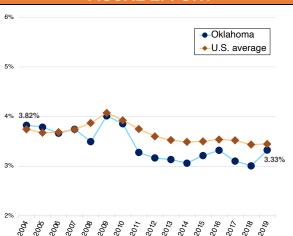
CONTEXTUAL STATS	OK	U.S.
Child (5-17yo) poverty rate (%)	18.4	15.8
Public school coverage (%)	89.3	87.6
Percent revenue from state sources	47.9	47.6
Total enrollment (U.S. rank)	697,40	0 (26)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Oklahoma effort	3.33 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in OK was equivalent to 3.33% of the state's economic capacity (GSP).
- This was 0.12 percentage points lower than the unweighted national average of 3.45%.
- OK's effort level ranks #29 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.16 percentage points in OK's effort during the "K-12 recovery" period of 2012-2019.

 Net change by period (% pts.)

 Period
 OK
 U.S.

 2004-2007
 -0.08
 -0.01

 2012-2019
 0.16
 -0.15

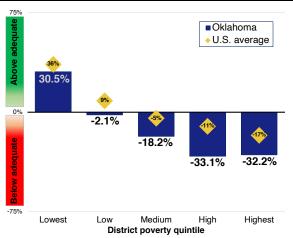
 2004-2019
 -0.50
 -0.30

- Effort decreased during the three years before the recession, going from 3.82% in 2004 to 3.75% in 2007.
- OK's effort was 0.50 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

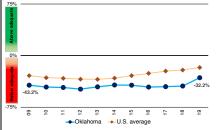
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in OK's highest poverty districts are severely inadequate.
- Spending in these districts is \$4,790 PP lower than the adequacy target (\$14,862), a difference of -32.2%.
- This ranks #34 in the U.S. (out of 49).
- Across the entire state, 57.2% of OK students attend districts with spending below estimated adequate levels.



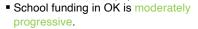




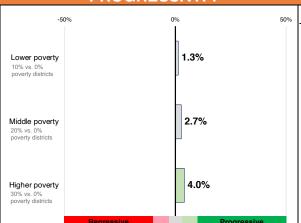
- Adequacy in OK's highest-poverty districts improved between 2009 (-43.2%) and 2019 (-32.2%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

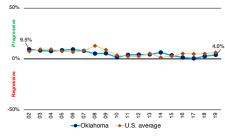
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 4.0% more revenue than zero-poverty districts.
- This level of progressivity ranks #23 in the nation (out of 49).





- OK's funding was more regressive in 2019 (4.0%) vs. 2002 (9.5%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

OREGON



Summary: This 2018-19 profile of Oregon's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Oregon scores 56 out of 100, which ranks 18th out of the 48 states with possible ratings.

RUTGERS

	CONTEXTUAL STATS	OR	U.S.
	Child (5-17yo) poverty rate (%)	12.8	15.8
	Public school coverage (%) Percent revenue from state sources	87.9	87.6
τ	Percent revenue from state sources	51.8	47.6
	Total enrollment (U.S. rank)	610,20	0 (29)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Oregon effort	3.59 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in OR was equivalent to 3.59% of the state's economic capacity (GSP).
- This was 0.15 percentage points higher than the unweighted national average of 3.45%.
- OR's effort level ranks #18 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.16 percentage points in OR's effort during the "K-12 recovery" period of 2012-2019.

 Net change by period (% pts.)

 Period
 OR
 U.S.

 2004-2007
 -0.11
 -0.01

 2012-2019
 0.16
 -0.15

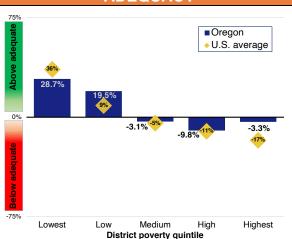
 2004-2019
 0.14
 -0.30

- Effort decreased during the three years before the recession, going from 3.46% in 2004 to 3.35% in 2007.
- OR's effort was 0.14 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

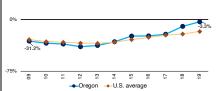
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in OR's highest poverty districts are below adequate.
- Spending in these districts is \$467 PP lower than the adequacy target (\$14,351), a difference of -3.3%.
- This ranks #12 in the U.S. (out of 49).
- Across the entire state, 34.3% of OR students attend districts with spending below estimated adequate levels.



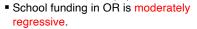




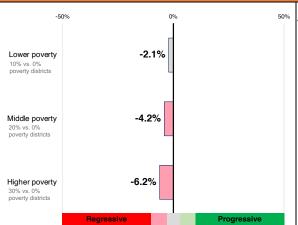
- Adequacy in OR's highest-poverty districts improved between 2009 (-31.2%) and 2019 (-3.3%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

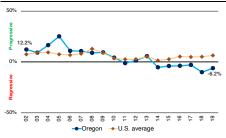
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 6.2% less revenue than zero-poverty districts.
- This level of progressivity ranks #33 in the nation (out of 49).





- OR's funding was more regressive in 2019 (-6.2%) vs. 2002 (12.2%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: year

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

PENNSYLVANIA



Summary: This 2018-19 profile of Pennsylvania's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Pennsylvania scores 61 out of 100, which ranks 13th out of the 48 states with possible ratings.

RUTGERS

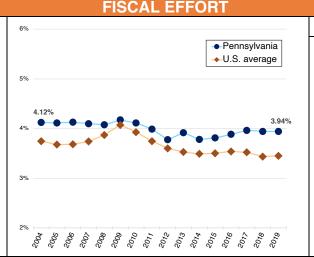
CONTEXTUAL STATS	PA	U.S.
Child (5-17yo) poverty rate (%)	15.9	15.8
Public school coverage (%)	85.1	87.6
Percent revenue from state sources	37.9	47.6
Total enrollment (U.S. rank)	1,719,9	900 (7)

Fiscal effort is direct state and local K-12 expenditures in each state as a

percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Pennsylvania effort	3.94 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in PA was equivalent to 3.94% of the state's economic capacity (GSP).
- This was 0.49 percentage points higher than the unweighted national average of 3.45%.
- PA's effort level ranks #11 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.17 percentage points in PA's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)		
Period	PA	U.S.
2004-2007	-0.02	-0.01
2012-2019	0.17	-0.15
2004-2019	-0.18	-0.30

- Effort decreased during the three years before the recession, going from 4.12% in 2004 to 4.10% in 2007.
- PA's effort was 0.18 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

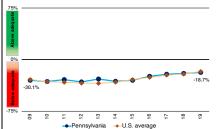
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in PA's highest poverty districts are below adequate.
- Spending in these districts is \$3,333 PP lower than the adequacy target (\$17,849), a difference of -18.7%.
- This ranks #25 in the U.S. (out of 49).
- Across the entire state, 18.5% of PA students attend districts with spending below estimated adequate levels.





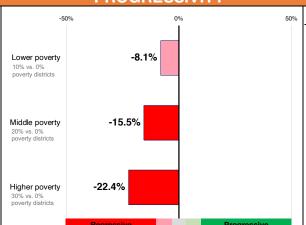


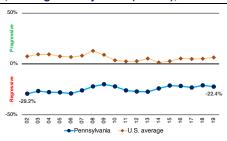
- Adequacy in PA's highest-poverty districts improved between 2009 (-30.1%) and 2019 (-18.7%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in PA is regressive.
- Higher-poverty (30%) districts receive 22.4% less revenue than zero-poverty districts.
- This level of progressivity ranks #46 in the nation (out of 49).





- PA's funding was less regressive in 2019 (-22.4%) vs. 2002 (-29.2%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, published by the National Center for Education Statistics.

Fiscal effort SID variables used in this section: effort; year

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- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: year

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- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
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Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

RHODE ISLAND



Summary: This 2018-19 profile of Rhode Island's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Rhode Island scores 81 out of 100, which ranks 7th out of the 48 states with possible ratings.

RUTGERS

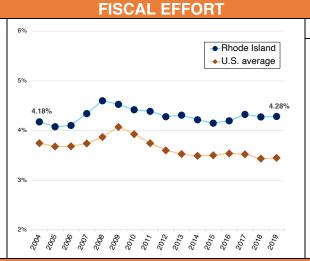
CONTEXTUAL STATS	RI	U.S.
Child (5-17yo) poverty rate (%)	15.4	15.8
Public school coverage (%)	87.5	87.6
Percent revenue from state sources	40.8	47.6
Total enrollment (U.S. rank)	143,20	0 (44)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity."

percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Rhode Island effort	4.28 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in RI was equivalent to 4.28% of the state's economic capacity (GSP).
- This was 0.83 percentage points higher than the unweighted national average of 3.45%.
- RI's effort level ranks #3 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.00 percentage points in RI's effort during the "K-12 recovery" period of 2012-2019.

Net change by period (% pts.)		
Period	RI	U.S.
2004-2007	0.16	-0.01
2012-2019		-0.15
2004-2019	0.10	-0.30

- Effort increased during the three years before the recession, going from 4.18% in 2004 to 4.34% in 2007.
- RI's effort was 0.10 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

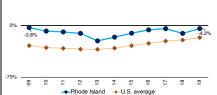
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in RI's highest poverty districts are below adequate.
- Spending in these districts is \$726 PP lower than the adequacy target (\$16,958), a difference of -4.3%.
- This ranks #14 in the U.S. (out of 49).
- Across the entire state, 31.0% of RI students attend districts with spending below estimated adequate levels.



Adequacy trend (pov. Q5), 2009-19

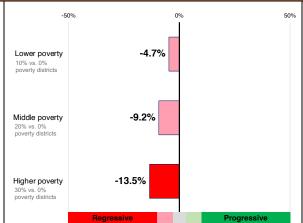


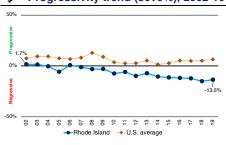
- Adequacy in RI's highest-poverty districts was roughly similar between 2009 (-2.8%) and 2019 (-4.3%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in RI is regressive.
- Higher-poverty (30%) districts receive 13.5% less revenue than zero-poverty districts.
- This level of progressivity ranks #38 in the nation (out of 49).





- RI's funding was more regressive in 2019 (-13.5%) vs. 2002 (1.7%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

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- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: year

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.



2018-19 SCHOOL YEAR

SOUTH CAROLINA



Summary: This 2018-19 profile of South Carolina's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), South Carolina scores 35 out of 100, which ranks 29th out of the 48 states with possible ratings.

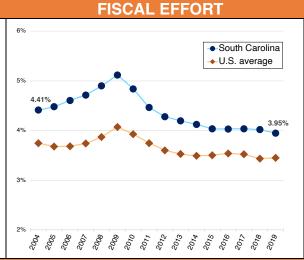
RUTGERS

CONTEXTUAL STATS	SC	U.S.
Child (5-17yo) poverty rate (%)	19.0	15.8
Public school coverage (%)	87.6	87.6
Percent revenue from state sources	47.1	47.6
Total enrollment (U.S. rank)	780,20	0 (23)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

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	South Carolina effort	3.95 %
	U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in SC was equivalent to 3.95% of the state's economic capacity (GSP).
- This was 0.50 percentage points higher than the unweighted national average of 3.45%.
- SC's effort level ranks #9 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.33 percentage points in SC's effort during the "K-12 recovery" period of 2012-2019.

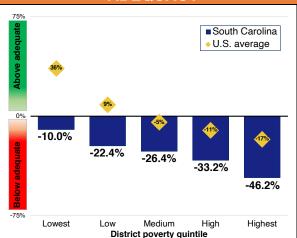
Net change by period (% pts.)		
Period	SC	U.S.
2004-2007	0.30	-0.01
2012-2019	-0.33	-0.15
2004-2019	-0.46	-0.30

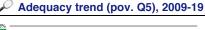
- Effort increased during the three years before the recession, going from 4.41% in 2004 to 4.72% in 2007.
- SC's effort was 0.46 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

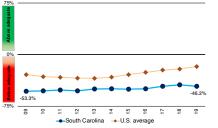
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in SC's highest poverty districts are severely inadequate.
- Spending in these districts is \$10,333
 PP lower than the adequacy target (\$22,348), a difference of -46.2%.
- This ranks #45 in the U.S. (out of 49).
- Across the entire state, 87.1% of SC students attend districts with spending below estimated adequate levels.



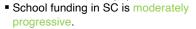




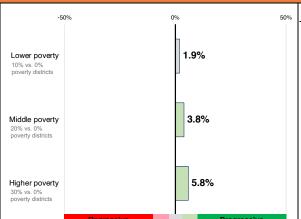
- Adequacy in SC's highest-poverty districts improved between 2009 (-53.3%) and 2019 (-46.2%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

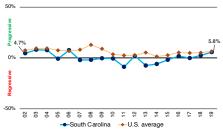
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 5.8% more revenue than zero-poverty districts.
- This level of progressivity ranks #20 in the nation (out of 49).





- SC's funding was more progressive in 2019 (5.8%) vs. 2002 (4.7%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
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2018-19 SCHOOL YEAR

SOUTH DAKOTA



Summary: This 2018-19 profile of South Dakota's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), South Dakota scores 47 out of 100, which ranks 24th out of the 48 states with possible ratings.

RUTGERS

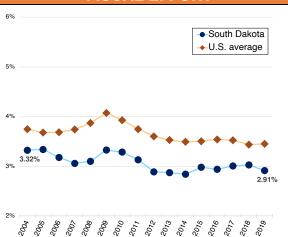
CONTEXTUAL STATS	SD	U.S.
Child (5-17yo) poverty rate (%)	13.6	15.8
Public school coverage (%)	87.0	87.6
Percent revenue from state sources	34.1	47.6
Total enrollment (U.S. rank)	139,00	0 (45)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

South Dakota effort	2.91 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in SD was equivalent to 2.91% of the state's economic capacity (GSP).
- This was 0.54 percentage points lower than the unweighted national average of 3.45%.
- SD's effort level ranks #42 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.02 percentage points in SD's effort during the "K-12 recovery" period of 2012-2019.

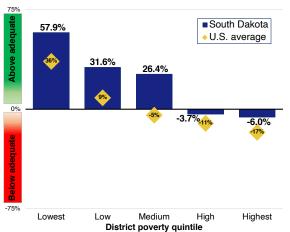
Net change by period (% pts.)		
Period	SD	U.S.
2004-2007	-0.27	-0.01
2012-2019	0.02	-0.15
2004-2019	-0.41	-0.30

- Effort decreased during the three years before the recession, going from 3.32% in 2004 to 3.06% in 2007.
- SD's effort was 0.41 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

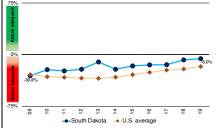
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in SD's highest poverty districts are below adequate.
- Spending in these districts is \$873 PP lower than the adequacy target (\$14,520), a difference of -6.0%.
- This ranks #15 in the U.S. (out of 49).
- Across the entire state, 15.1% of SD students attend districts with spending below estimated adequate levels.





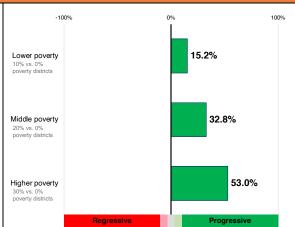


- Adequacy in SD's highest-poverty districts improved between 2009 (-30.8%) and 2019 (-6.0%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

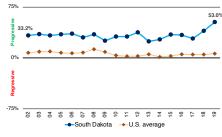
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in SD is progressive.
- Higher-poverty (30%) districts receive 53.0% more revenue than zero-poverty districts.
- This level of progressivity ranks #4 in the nation (out of 49).







- SD's funding was more progressive in 2019 (53.0%) vs. 2002 (33.2%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

TENNESSEE



Summary: This 2018-19 profile of Tennessee's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Tennessee scores 22 out of 100, which ranks 42nd out of the 48 states with possible ratings.

RUTGERS

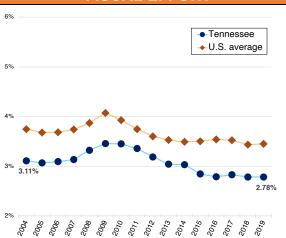
CONTEXTUAL STATS	TN	U.S.
Child (5-17yo) poverty rate (%)	18.0	15.8
Public school coverage (%)	84.0	87.6
Percent revenue from state sources	46.1	47.6
Total enrollment (U.S. rank)	1,000,2	00 (16)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Tennessee effort	2.78 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in TN was equivalent to 2.78% of the state's economic capacity (GSP).
- This was 0.67 percentage points lower than the unweighted national average of 3.45%.
- TN's effort level ranks #44 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.40 percentage points in TN's effort during the "K-12 recovery" period of 2012-2019.

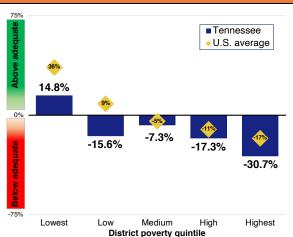
Net change by period (% pts.)		
Period	TN	U.S.
2004-2007	0.03	-0.01
2012-2019	-0.40	-0.15
2004-2019	-0.33	-0.30

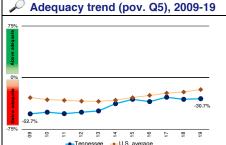
- Effort increased during the three years before the recession, going from 3.11% in 2004 to 3.14% in 2007.
- TN's effort was 0.33 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in TN's highest poverty districts are severely inadequate.
- Spending in these districts is \$4,198 PP lower than the adequacy target (\$13,675), a difference of -30.7%.
- This ranks #33 in the U.S. (out of 49).
- Across the entire state, 63.8% of TN students attend districts with spending below estimated adequate levels.



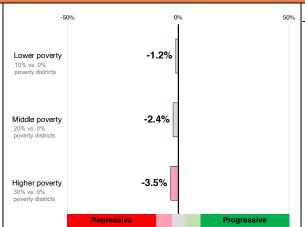


- Adequacy in TN's highest-poverty districts improved between 2009 (-52.7%) and 2019 (-30.7%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

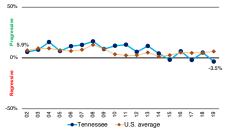
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in TN is moderately regressive.
- Higher-poverty (30%) districts receive 3.5% less revenue than zero-poverty districts.
- This level of progressivity ranks #30 in the nation (out of 49).







- TN's funding was more regressive in 2019 (-3.5%) vs. 2002 (5.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.



2018-19 SCHOOL YEAR

TEXAS



Summary: This 2018-19 profile of Texas's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Texas scores 22 out of 100, which ranks 43rd out of the 48 states with possible ratings.

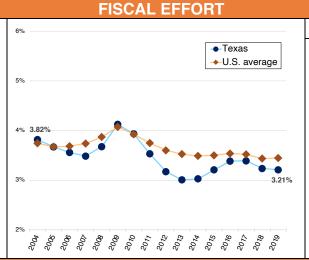
CONTEXTUAL STATS	TX	U.S.
Child (5-17yo) poverty rate (%)	18.0	15.8
Public school coverage (%)	90.8	87.6
Percent revenue from state sources	32.4	47.6
Total enrollment (U.S. rank)	5,425,2	200 (2)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross

which we measure here in terms of gross state product (GSP).

Texas effort	3.21 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in TX was equivalent to 3.21% of the state's economic capacity (GSP).
- This was 0.24 percentage points lower than the unweighted national average of 3.45%.
- TX's effort level ranks #33 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.04 percentage points in TX's effort during the "K-12 recovery" period of 2012-2019.

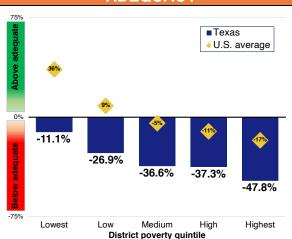
Net change by period (% pts.)		
Period	TX	U.S.
2004-2007	-0.33	-0.01
2012-2019	0.04	-0.15
2004-2019	-0.61	-0.30

- Effort decreased during the three years before the recession, going from 3.82% in 2004 to 3.49% in 2007.
- TX's effort was 0.61 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

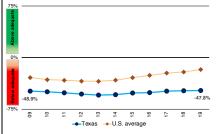
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in TX's highest poverty districts are severely inadequate.
- Spending in these districts is \$9,514 PP lower than the adequacy target (\$19,904), a difference of -47.8%.
- This ranks #47 in the U.S. (out of 49).
- Across the entire state, 89.5% of TX students attend districts with spending below estimated adequate levels.



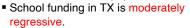




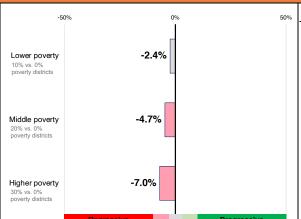
- Adequacy in TX's highest-poverty districts was roughly similar between 2009 (-48.9%) and 2019 (-47.8%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

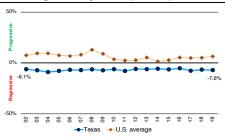
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 7.0% less revenue than zero-poverty districts.
- This level of progressivity ranks #34 in the nation (out of 49).





- TX's funding was more regressive in 2019 (-7.0%) vs. 2002 (-6.1%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (<u>SAIPE) program</u>; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: year

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.



2018-19 SCHOOL YEAR

UTAH



Summary: This 2018-19 profile of Utah's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Utah scores 49 out of 100, which ranks 21st out of the 48 states with possible ratings.

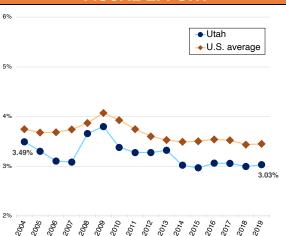
CONTEXTUAL STATS	UT	U.S.
Child (5-17yo) poverty rate (%)	8.7	15.8
Public school coverage (%)	91.7	87.6
Percent revenue from state sources	51.3	47.6
Total enrollment (U.S. rank)	675,40	0 (28)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Utah effort	3.03 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in UT was equivalent to 3.03% of the state's economic capacity (GSP).
- This was 0.42 percentage points lower than the unweighted national average of 3.45%.
- UT's effort level ranks #38 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.25 percentage points in UT's effort during the "K-12 recovery" period of 2012-2019.

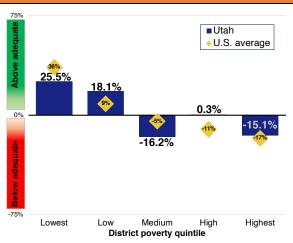
Net change by period (% pts.)		
Period	UT	U.S.
2004-2007	-0.41	-0.01
2012-2019	-0.25	-0.15
2004-2019	-0.46	-0.30

- Effort decreased during the three years before the recession, going from 3.49% in 2004 to 3.08% in 2007.
- UT's effort was 0.46 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

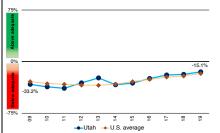
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in UT's highest poverty districts are below adequate.
- Spending in these districts is \$1,755 PP lower than the adequacy target (\$11,612), a difference of -15.1%.
- This ranks #20 in the U.S. (out of 49).
- Across the entire state, 33.0% of UT students attend districts with spending below estimated adequate levels.





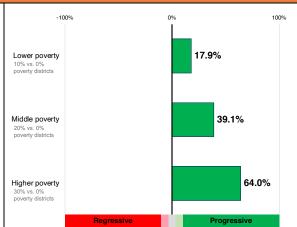


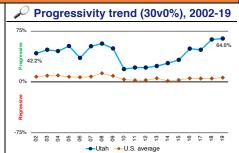
- Adequacy in UT's highest-poverty districts improved between 2009 (-33.2%) and 2019 (-15.1%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in UT is progressive.
- Higher-poverty (30%) districts receive 64.0% more revenue than zero-poverty districts
- This level of progressivity ranks #3 in the nation (out of 49).





- UT's funding was more progressive in 2019 (64.0%) vs. 2002 (42.2%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

VERMONT



Summary: This 2018-19 profile of Vermont's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. An overall state score is not calculated for Vermont, as estimates are not available for all measures.

RUTGERS

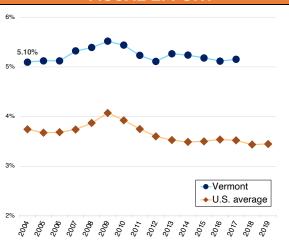
	CONTEXTUAL STATS	VT	U.S.
	Child (5-17yo) poverty rate (%)	9.8	15.8
	Public school coverage (%)	91.8	87.6
•	Percent revenue from state sources	90.8	47.6
	Total enrollment (U.S. rank)	87.00	0 (51)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Effort estimates are not available in Vermont in 2018 or 2019 due to data irregularities.

The graph to the right presents the trend in Vermont up to 2017.



Effort trend, 2004-2019

 Effort increased during the three years before the recession, going from 5.10% in 2004 to 5.32% in 2007.

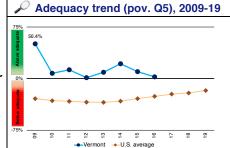
Net change by period (% pts.)		
Period	VT	U.S.
2004-2007	0.23	-0.01
2012-2019	n/a	-0.15
2004-2019	n/a	-0.30

ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

Adequacy estimates are not available for Vermont in 2017-19 due to data irregularities.

The graph to the right presents the trend in Vermont up to 2016.

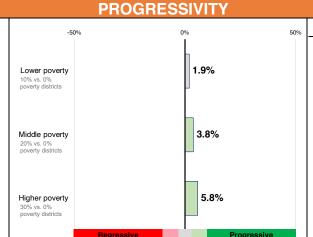


Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for

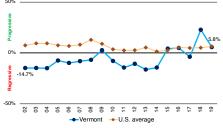
 School funding in VT is moderately progressive.

labor costs, size, and population density.

- Higher-poverty (30%) districts receive 5.8% more revenue than zero-poverty districts.
- This level of progressivity ranks #21 in the nation (out of 49).







- VT's funding was more progressive in 2019 (5.8%) vs. 2002 (-14.7%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, published by the National Center for Education Statistics.

Fiscal effort SID variables used in this section: effort; year

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- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot a1—necm_postot a5: necm_enroll_a1—necm_enroll_a5: vear

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- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
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- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
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2018-19 SCHOOL YEAR

VIRGINIA



Summary: This 2018-19 profile of Virginia's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Virginia scores 28 out of 100, which ranks 37th out of the 48 states with possible ratings.

RUTGERS

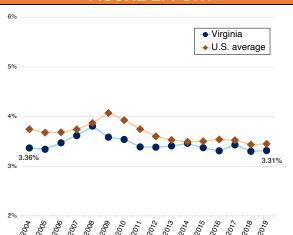
CONTEXTUAL STATS	VA	U.S.
Child (5-17yo) poverty rate (%)	12.5	15.8
Public school coverage (%)	87.8	87.6
Percent revenue from state sources	40.2	47.6
Total enrollment (U.S. rank)	1,292,6	00 (12)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Virginia effort	3.31 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in VA was equivalent to 3.31% of the state's economic capacity (GSP).
- This was 0.13 percentage points lower than the unweighted national average of 3.45%.
- VA's effort level ranks #30 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.07 percentage points in VA's effort during the "K-12 recovery" period of 2012-2019.

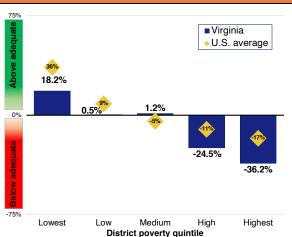
Net change by period (% pts.)		
Period	VA	U.S.
2004-2007	0.25	-0.01
2012-2019	-0.07	-0.15
2004-2019	-0.05	-0.30

- Effort increased during the three years before the recession, going from 3.36% in 2004 to 3.62% in 2007.
- VA's effort was 0.05 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

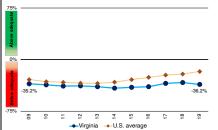
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in VA's highest poverty districts are severely inadequate.
- Spending in these districts is \$7,118 PP lower than the adequacy target (\$19,656), a difference of -36.2%.
- This ranks #38 in the U.S. (out of 49).
- Across the entire state, 45.3% of VA students attend districts with spending below estimated adequate levels.



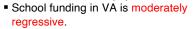




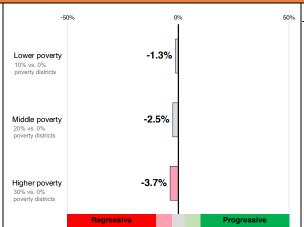
- Adequacy in VA's highest-poverty districts was roughly similar between 2009 (-35.2%) and 2019 (-36.2%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

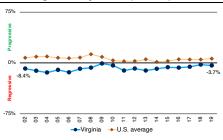
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 3.7% less revenue than zero-poverty districts.
- This level of progressivity ranks #31 in the nation (out of 49).





- VA's funding was less regressive in 2019 (-3.7%) vs. 2002 (-8.4%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

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- State rankings may reflect differences in unrounded scores.
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Fiscal effort indicates how much of a state's total 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5: necm_enroll_q1—necm_enroll_q5: year

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.



2018-19 SCHOOL YEAR

WASHINGTON



Summary: This 2018-19 profile of Washington's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Washington scores 47 out of 100, which ranks 23rd out of the 48 states with possible ratings.

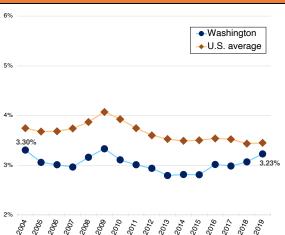
CONTEXTUAL STATS	WA	U.S.
Child (5-17yo) poverty rate (%)	11.2	15.8
Public school coverage (%)	88.1	87.6
Percent revenue from state sources	69.2	47.6
Total enrollment (U.S. rank)	1,118,4	00 (13)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

Washington effort	3.23 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in WA was equivalent to 3.23% of the state's economic capacity (GSP).
- This was 0.22 percentage points lower than the unweighted national average of 3.45%.
- WA's effort level ranks #32 in the nation (out of 49).



Effort trend, 2004-2019

 There was an increase of 0.29 percentage points in WA's effort during the "K-12 recovery" period of 2012-2019.

 Net change by period (% pts.)

 Period
 WA
 U.S.

 2004-2007
 -0.34
 -0.01

 2012-2019
 0.29
 -0.15

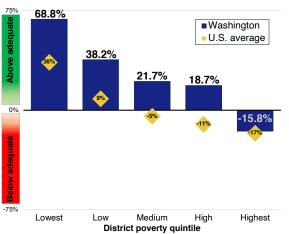
 2004-2019
 -0.08
 -0.30

- Effort decreased during the three years before the recession, going from 3.30% in 2004 to 2.96% in 2007.
- WA's effort was 0.08 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

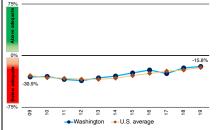
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in WA's highest poverty districts are below adequate.
- Spending in these districts is \$2,622 PP lower than the adequacy target (\$16,620), a difference of -15.8%.
- This ranks #21 in the U.S. (out of 49).
- Across the entire state, 15.6% of WA students attend districts with spending below estimated adequate levels.





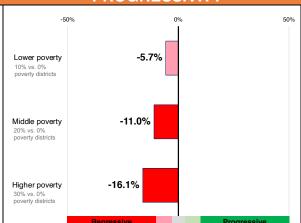


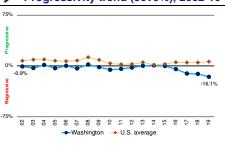
- Adequacy in WA's highest-poverty districts improved between 2009 (-30.9%) and 2019 (-15.8%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in WA is regressive.
- Higher-poverty (30%) districts receive 16.1% less revenue than zero-poverty districts
- This level of progressivity ranks #40 in the nation (out of 49).





- WA's funding was more regressive in 2019 (-16.1%) vs. 2002 (-0.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot a1—necm_postot a5: necm_enroll_a1—necm_enroll_a5: vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

WEST VIRGINIA



Summary: This 2018-19 profile of West Virginia's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), West Virginia scores 72 out of 100, which ranks 9th out of the 48 states with possible ratings.

RUTGERS

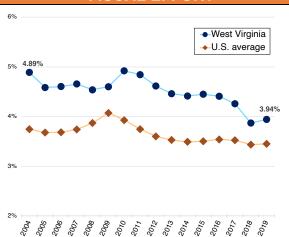
CONTEXTUAL STATS	WV	U.S.
Child (5-17yo) poverty rate (%)	19.6	15.8
Public school coverage (%)	88.8	87.6
Percent revenue from state sources	55.3	47.6
Total enrollment (U.S. rank)	269,20	0 (39)

FISCAL EFFORT

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross state product (GSP).

West Virginia effort	3.94 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in WV was equivalent to 3.94% of the state's economic capacity (GSP).
- This was 0.49 percentage points higher than the unweighted national average of 3.45%.
- WV's effort level ranks #10 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.67 percentage points in WV's effort during the "K-12 recovery" period of 2012-2019.

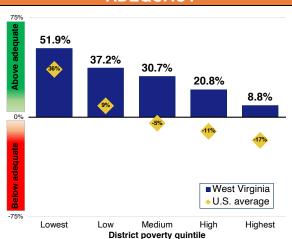
Net change by period (% pts.)			
Period	W۷	U.S.	
2004-2007	-0.23	-0.01	
2012-2019	-0.67	-0.15	
2004-2019	-0.95	-0.30	

- Effort decreased during the three years before the recession, going from 4.89% in 2004 to 4.65% in 2007.
- WV's effort was 0.95 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

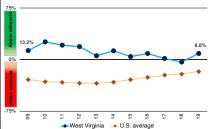
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in WV's highest poverty districts are above adequate.
- Spending in these districts is \$966 PP higher than the adequacy target (\$10,955), a difference of 8.8%.
- This ranks #9 in the U.S. (out of 49).
- Across the entire state, 5.6% of WV students attend districts with spending below estimated adequate levels.



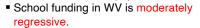




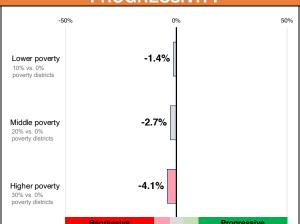
- Adequacy in WV's highest-poverty districts worsened between 2009 (13.2%) and 2019 (8.8%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

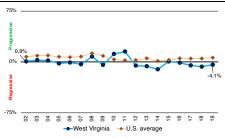
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 4.1% less revenue than zero-poverty districts.
- This level of progressivity ranks #32 in the nation (out of 49).





- WV's funding was more regressive in 2019 (-4.1%) vs. 2002 (0.9%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

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- Due to rounding, changes and differences published in this profile may vary slightly from users' manual calculations.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

WISCONSIN



Summary: This 2018-19 profile of Wisconsin's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Wisconsin scores 52 out of 100, which ranks 20th out of the 48 states with possible ratings.

RUTGERS

CONTEXTUAL STATS	WI	U.S.
Child (5-17yo) poverty rate (%)	12.7	15.8
Public school coverage (%)	84.6	87.6
Percent revenue from state sources	55.1	47.6
Total enrollment (U.S. rank)	855,70	0 (22)

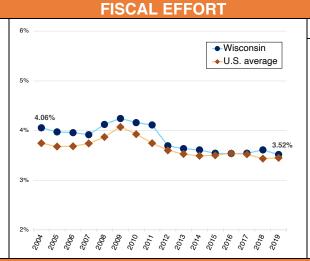
Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross

which we measure here in terms of gross state product (GSP).

Wisconsin effort 3.52 %

Wisconsin effort	3.52 %
U.S. average	3.45 %

- In FY 2019, total direct state and local K-12 spending in WI was equivalent to 3.52% of the state's economic capacity (GSP).
- This was 0.07 percentage points higher than the unweighted national average of 3.45%.
- WI's effort level ranks #24 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.17 percentage points in WI's effort during the "K-12 recovery" period of 2012-2019.

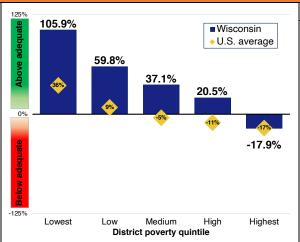
Net change by period (% pts.)			
Period	WI	U.S.	
2004-2007	-0.14	-0.01	
2012-2019	-0.17	-0.15	
2004-2019	-0.54	-0.30	

- Effort decreased during the three years before the recession, going from 4.06% in 2004 to 3.92% in 2007.
- WI's effort was 0.54 percentage points lower in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

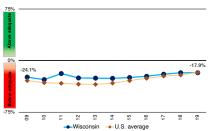
ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in WI's highest poverty districts are below adequate.
- Spending in these districts is \$2,971 PP lower than the adequacy target (\$16,642), a difference of -17.9%.
- This ranks #23 in the U.S. (out of 49).
- Across the entire state, 15.1% of WI students attend districts with spending below estimated adequate levels.







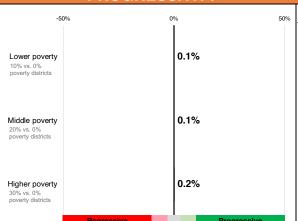
- Adequacy in WI's highest-poverty districts improved between 2009 (-24.1%) and 2019 (-17.9%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

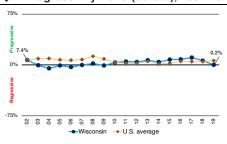
PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.



- Higher-poverty (30%) districts receive 0.2% more revenue than zero-poverty districts.
- This level of progressivity ranks #27 in the nation (out of 49).





- WI's funding was more regressive in 2019 (0.2%) vs. 2002 (7.4%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

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 and the 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, adequacy, and progressivity. The full SID dataset, along with accessible documentation of 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, followed by descriptions and notes pertaining to the three types of measures they present:

- The years in the profile refer to the spring semester of the school year (e.g., 2019 is 2018-19).
- Estimates may differ slightly from previous profiles, as some measures are 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.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in D.C. and Hawaii, and we've excluded Vermont from our 2019 effort and adequacy calculations due to irregularities in that state's data.
- Overall state scores: The overall scores provide a very simple summary of states' combined "performance" on the three core indicators featured in the profiles. They do not represent comprehensive evaluations of states' school finance systems. Each state is scored entirely relative to other states (i.e., rather than based on some absolute standard of "good" or "bad"), 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) adequacy gap (%) in highest-poverty district quintile (40%); 2) adequacy gap (%) in the high-poverty quintile (20%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) 30/0% revenue progressivity (10%).
- *D.C., Hawaii, and Vermont are not included, as one or more of the measures that constitute the scores cannot be calculated for these states.
- State rankings may reflect differences in unrounded scores.
- Non-SFID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2019) from the <u>U.S. Census Bureau's Small Area Income and Poverty Estimates</u> (SAIPE) program; 2) see SID documentation for sources used for public school coverage estimates; 3) percent of total (FY 2019) revenue from state sources from the <u>U.S. Census Bureau Annual Survey of School System Finances</u>; 4) total state public elementary and secondary school enrollment (Fall 2018) from the <u>2019 Digest of Education Statistics</u>, 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 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. Both of these 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. The former denominator (GSP) is used in these profiles, but the two are highly correlated, and the income-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.

- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
- 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 2012-19 period (the "K-12 recovery period") is highlighted in the table (rather than, say, 2009-2019) 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 also because federal stimulus funds ran out after 2011. 2012 is therefore a good starting point for assessing states' reinvestment (or lack thereof). Trends, however, vary by state.
- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

- Adequacy estimates are not available for Hawaii in all years (due to it being a geographically isolated, single-district state), and Vermont in 2018 and 2019 (due to data irregularities). Estimates for D.C. are only available for the highest-poverty quintile.
- The district poverty categories (e.g., lowest, low, medium, high, highest) are defined in terms of quintiles (i.e., 20 percentile increments in each state).
- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
- The estimate in the fourth bullet of the left panel is calculated using our District Cost Database (our state adequacy measures are aggregations of these district-level estimates). You can download or analyze this dataset at the SFID website; the 2019 estimates used for this profile will be released in early 2022.
- The U.S. averages represented by the gold diamonds in the center-panel figure are national average differences between actual and required spending (weighted by enrollment). Note, however, that poverty quintiles are defined state by state, and so the U.S. averages represent an approximation of the national situation. In addition to Hawaii and Vermont, D.C. is excluded from these averages to keep a consistent set of states across quintiles. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
- The graph in the right panel presents the trend in percentage difference between high (30%) and zero poverty districts, both for this state and on average across the U.S. (for each state in 2019, this is the same figure as the bottom bar in the center panel graph). The U.S. averages are unweighted (do not include D.C. or Hawaii) and can be interpreted as 30/0 progressivity in the typical state in a given year. Axis ranges for this graph may vary between states.

2018-19 SCHOOL YEAR

WYOMING



U.S. average

Summary: This 2018-19 profile of Wyoming's public K-12 school finance system focuses on three core indicators from the School Finance Indicators Database: fiscal effort, adequacy, and progressivity. On a weighted average of these three measures (see back), Wyoming scores 99 out of 100, which ranks 2nd out of the 48 states with possible ratings.

RUTGERS

CONTEXTUAL STATS	WY	U.S.
Child (5-17yo) poverty rate (%)	10.1	15.8
Public school coverage (%)	89.4	87.6
Percent revenue from state sources	53.7	47.6
Total enrollment (U.S. rank)	93,700	0 (49)

Fiscal effort is direct state and local K-12 expenditures in each state as a percentage of its "economic capacity," which we measure here in terms of gross

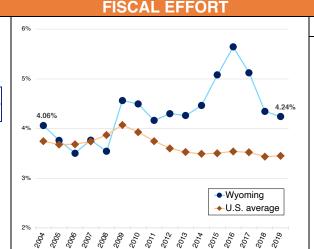
state product (GSP).

Wyoming effort

4.24 %

3.45 %

- In FY 2019, total direct state and local K-12 spending in WY was equivalent to 4.24% of the state's economic capacity (GSP).
- This was 0.79 percentage points higher than the unweighted national average of 3.45%.
- WY's effort level ranks #4 in the nation (out of 49).



Effort trend, 2004-2019

 There was a decrease of 0.06 percentage points in WY's effort during the "K-12 recovery" period of 2012-2019.

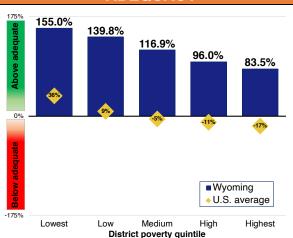
Net change by period (% pts.)			
Period	WY	U.S.	
2004-2007	-0.29	-0.01	
2012-2019	-0.06	-0.15	
2004-2019	0.18	-0.30	

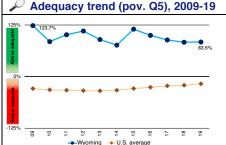
- Effort decreased during the three years before the recession, going from 4.06% in 2004 to 3.77% in 2007.
- WY's effort was 0.18 percentage points higher in 2019 than in 2004, compared with a U.S. average decrease of 0.30 points during this time period.

ADEQUACY

Adequacy compares actual per-pupil (PP) spending in each state to cost model estimates of the amount required to achieve U.S. average test scores. These comparisons (% difference) are presented for 2019, by district poverty quintile, in the center graph (the gold diamonds represent U.S. averages).

- Resources in WY's highest poverty districts are above adequate.
- Spending in these districts is \$9,625 PP higher than the adequacy target (\$11,529), a difference of 83.5%.
- This ranks #1 in the U.S. (out of 49).
- Across the entire state, 0.0% of WY students attend districts with spending below estimated adequate levels.



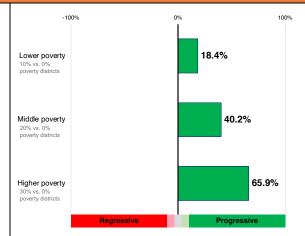


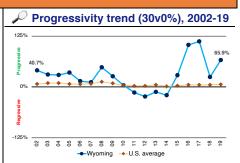
- Adequacy in WY's highest-poverty districts worsened between 2009 (123.7%) and 2019 (83.5%).
- During this period, U.S. average adequacy in these districts (orange line) improved from -29.1% to -17.3%.

PROGRESSIVITY

Progressivity is the degree to which states provide greater resources to districts serving higher-need students. The center graph is the percentage difference in 2019 state and local revenue between: 1) lower- (10% Census poverty), middle- (20%), and higher-poverty (30%) districts and; 2) zero-poverty districts, controlling for labor costs, size, and population density.

- School funding in WY is progressive.
- Higher-poverty (30%) districts receive 65.9% more revenue than zero-poverty districts
- This level of progressivity ranks #2 in the nation (out of 49).





- WY's funding was more progressive in 2019 (65.9%) vs. 2002 (40.7%).
- Since the 2007-09 recession, funding in the typical state (orange line) is generally neither progressive nor regressive.



NOTES ON DATA AND MEASURES

State School Finance Profiles 2018-19 (publ. Dec. 2021)

General

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- U.S. effort averages are unweighted and do not include D.C. (effort not calculated in any year) or Vermont (effort not available in 2018/2019 due to data irregularities), so as to keep a consistent set of states across all years.
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- Note that even seemingly small changes or differences in effort levels represent large revenue amounts, as the denominators are entire state economies.

Adequacy

SID variables used in this section: necm_predcost_q1—necm_predcost_q5; necm_postot_q1—necm_postot_q5; necm_enroll_q1—necm_enroll_q5; vear

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. The SFID's primary measure of adequacy compares, by poverty quintile, a state's actual spending levels to estimates from cost models of how much that state would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). The 2009-2019 estimates in this profile 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. For more information about the NECM, see the SID user's guide.

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- In the first bullet of the left panel, states with Q5 ("highest-poverty") gaps lower than -20% are assigned the designation "severely inadequate." The remaining designations are "below adequate" (between 0 and -20%) and "above adequate" (greater than 0%).
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- The graph in the right panel presents the same estimates as the "highest-poverty" bar (state) and diamond (U.S. average) in the center graph, but between 2009-19.

Progressivity

SID variables used in this section: predicted_slocrev0_; predicted_slocrev10_; predicted_slocrev20_; predicted_slocrev30_; year

- Progressivity estimates are not available for D.C. and Hawaii (single-district states)
- In the left panel (first bullet), the progressivity of each state's system is characterized based on the adjusted revenue gap between high (30%) and 0% poverty districts (this is also the estimate presented in the bottom bar of the center panel graph). The designations are assigned as follows: progressive (revenue in high poverty districts is at least 10% greater than that in zero poverty districts); moderately progressive (between +3% and +10%); neither progressive nor regressive (within three percentage points of zero); moderately regressive (between -3% and -10%); regressive (lower than -10%).
- The estimates in the center-panel graph are percentage differences in adjusted state and local revenue between low/medium/high (10/20/30%) poverty districts and zero-poverty districts. Note that the definitions of district poverty groups in this section, which are based on poverty rates (0, 10, 20, and 30%), vary from those in the "Adequacy" section, in which districts are sorted into quintiles by poverty. Axis ranges for this graph may vary between states.
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