**FISCAL EFFORT**

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

Rating relative to other states (high I medium I low):

<table>
<thead>
<tr>
<th>Fiscal effort summary</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama effort</td>
<td>3.66%</td>
</tr>
<tr>
<td>U.S. average effort</td>
<td>3.53%</td>
</tr>
</tbody>
</table>

- AL spends 3.66 percent of its economic capacity (gross state product) on its K-12 public schools.
- This effort level is 0.12 percentage points higher than the unweighted U.S. average of 3.53 percent (rank #19 of 50).

**STATEWIDE ADEQUACY**

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

Rating relative to other states (high I medium I low):

<table>
<thead>
<tr>
<th>Percent underfunded (rank #1 = most adequate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pct. of students in below adequate districts (rank of 49)</td>
</tr>
<tr>
<td>Pct. of students in chronically below adequate districts (rank)</td>
</tr>
</tbody>
</table>

- The typical AL student’s district spends 42.5 ppt. below adequate levels (rank #48).

**EQUAL OPPORTUNITY**

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

Rating relative to other states (high I medium I low):

| Average (en-weighted) funding gaps by poverty (Red:below adequate | Green:above adequate) |
|-------------------------------------------------------------------|
| A. Low/lowest poverty districts                                  | -20.7 %          |
| B. High/highest poverty districts                                | -65.1 %          |
| C. Opportunity gap (8 minus A)                                   | -44.3 pts        |

- AL’s opportunity gap of -44.3 points is ranked #25 out of 48 (#1=most equal).
General
The data in this state profile are from the School Finance Indicators Database (SFID), a collection of public K-12 school finance and resource allocation indicators published annually by researchers from the Albert Shanker Institute, University of Miami School of Education and Human Development, and Rutgers University Graduate School of Education. The primary product of the SFID is the State Indicators Database (SID), a state-level dataset containing roughly 125 variables. This profile focuses on three types of measures included in the SID: fiscal effort, statewide adequacy, and equal opportunity. The full SID dataset, along with accessible documentation of and data sources for all the measures presented in this profile, as well as other SFID datasets, tools, and reports, are freely available to download at schoolfinancedata.org. The following are some notes about the profiles:
- The measures in this profile are interpreted relatively—that is, by making comparisons between states (rankings) and between states (e.g., by district poverty or over time).
- The years in the profile refer to the spring semester of the school year (e.g., 2021 is 2020-21).
- Estimates for prior years may differ slightly from previous profiles, as some measures are change or improved each year, and all years are recalculated annually with updated data.
- Due to rounding, some calculations based on the estimates on the front side.
- The total number of states assigned rankings varies slightly by measure, as not all measures are available in all states.

Overall state scores: The overall scores reported at the top of this profile provide a very simple summary of states’ combined “performance” on the three core indicators. Each state is scored entirely relative to other states, and the selection/weighting of components entails subjective judgments on the part of the SFID research team.
- The scores are calculated as a weighted average of z-scores (final averages expressed as percentile equivalents, with a score of 0 = z-score of 0) of the following measures (weights in parentheses): 1) percent of students in districts with above adequate funding (30%); 2) statewide (%) adequacy spending (30%); 3) GSP-based fiscal effort (15%); 4) personal income-based fiscal effort (15%); and 5) equal opportunity gap (Q45 vs. Q1/2 difference in adequacy gap, in pcts. points) (10%). State rankings may reflect differences in unrounded scores.
- D.C., Hawaii, and Vermont are not assigned scores, as one or more of the measures that constitute the scores cannot be calculated for these states.
- Non-SID data sources ("Contextual Stats" table): 1) Child (5-17 year old) poverty (2021) from the U.S. Census Bureau’s Small Area Income and Poverty Estimates (SAIPE) program; 2) see SID documentation for school coverage estimates; 3) percent of total (FY 2021) revenue from state sources from the U.S. Census Bureau Annual Survey of School System Finances; 4) standardized elementary and secondary school enrollment (Fall 2020) from the Digest of Education Statistics.

Statewide adequacy
Adequacy is typically defined as the extent to which the amount of funding for schools is sufficient for students to reach a minimum/acceptable level of educational outcomes. Our adequacy estimates compare each district’s actual spending levels to estimates from cost models of how much that district would have to spend in order to achieve national average test scores (i.e., "required" or "adequate" spending). We express statewide adequacy in three ways: 1) the proportion of students in each state in districts with actual funding below estimated adequate levels; and 2) the proportion of students in chronically below adequate districts (see below); and 3) the adequacy gap (percentage difference between actual and estimated adequate spending) for the typical student in each state. All these estimates are from the National Education Cost Model (NECM), which is part of the SFID. The NECM calculates required spending based on the relationship between outcomes and cost factors such as regional wage variation, district size, and student characteristics. Given the imprecision inherent in comparing finance and testing data between districts in all states, as well as the fact that we set a modest common outcome goal (average test scores), our adequacy estimates are most appropriate when comparing complete sets of NECM data within a state. In this case, we highlight in the table (rather than, say, 2009-09) because the direct impact of the recession on K-12 funding in the typical state persisted for a few years after the “official recession” ended, and because federal stimulus funds ran out after 2011. 2012 is therefore an apt starting point for assessing states’ reinvestment (or lack thereof). Trends, however, vary by state.
- In the third bullet of the right panel, below the table, we present a “thought experiment” of sorts, in which we calculate how much additional total state and local spending each state would have had between 2016 and 2021 had that state returned to its own pre-recession (2006) effort level by 2016 (with 2012-2016 representing a reasonable time period for full recovery). For each state/year combination in which 2016-2021 effort exceeded the state’s 2006 level, the hypothetical additional spending is zero (i.e., the hypothetical additional funding estimates do not include years in which 2016-2021 funding would have been lower under states’ 2006 effort levels).
- In order to provide a sense of states’ capacity, we characterize each state’s GSP per capita as small, medium, or large by sorting states into three groups using terciles.

Equal opportunity
Equal educational opportunity is achieved in a given state when none of that state’s districts are substantially further above or below average adequacy spending levels than are other districts. In the SFID, we measure equal opportunity (EO) with the same NECM estimates used for statewide adequacy (see above), but in this case by comparing adequacy gaps (percentage difference between actual and estimated adequate spending) between the two highest- and the two lowest-poverty districts in each state (i.e., a weighted average of the “highest” and “low” poverty quintiles and a weighted average of the “lowest” and “low” poverty quintiles). Each state’s “opportunity gap” is the difference (in percentage points) between these two groups. Note that EO is conceptually independent of statewide adequacy—e.g., a hypothetical state in which all districts are below adequate funding levels might still exhibit EO, so long as high- and low-poverty districts are inadequately funded for the same reasons. In such circumstances, when funding is chronically below adequate, high-poverty districts are more adequately funded than lower-poverty districts. Statewide adequacy and equal opportunity as we define them are independent concepts.
- EO estimates are not available for Vermont and Hawaii. A technical error in the NECM estimates limited our ability to calculate for D.C. (single government-run district state).
- We characterize each state’s degree of equal opportunity as low, medium, or high by sorting states into three groups based on their opportunity gaps (using terciles).
- The center panel figure presents adequate funding gaps for all five quintiles in each state (although opportunity gaps as we define them for the purposes of this profile use only the two highest and two lowest poverty quintiles). High-poverty states with high- and low-poverty groups of districts with different estimated spending levels in the graph are average differences between actual and estimated adequate spending (weighted by enrollment), by district poverty quintile. Note, however, that poverty quintiles are defined by state, and so the U.S. averages (teal diamonds) represent an approximation of the national situation. Axis ranges for this graph may vary between states.
- The scatterplot in the right panel presents, by district poverty quintile, adequacy (difference between actual and required spending) expressed in dollars per pupil (horizontal axis) by average student test outcomes (expressed as the difference from the national average in standard deviations (vertical axis). The student outcome data are for 2019, the latest calendar year in the Stanford Education Data Archive (some districts’ values are imputed). The other markers (hollow circles) in the plot are other states’ district poverty groups (color coded in the same manner, but with more transparent markers to allow for clear viewing of this state’s markers). The difference in student outcomes between the highest- (Q5) and lowest-poverty (Q1) estimate is presented in the first bullet, below the plot, and can be interpreted as a poverty-based student achievement gap in this state. Note that this gap compares different groups than does our opportunity gap measure. Axis ranges for this graph are expanded in a handful of states.