



# Comparable but Unequal

## School Funding Disparities

By Robert Hanna, Max Marchitello, and Catherine Brown    March 5, 2015

In 1954, the U.S. Supreme Court made clear with its *Brown v. Board of Education* decision that education “must be made available to all on equal terms.”<sup>1</sup> Sixty years later, that promise remains unfulfilled. Millions of students—largely low-income students and students of color—continue to attend segregated and economically isolated schools.<sup>2</sup> State and district school finance systems perpetuate and compound these inequities by providing less money to students with the greatest need.

Federal law—through Title I, Part A, of the Elementary and Secondary Education Act, or ESEA—attempts to ameliorate these disparities. It requires school districts to provide “comparable” educational services in high-poverty and low-poverty, or non-Title I, schools as a condition of receiving Title I dollars.<sup>3</sup>

But the devil, as always, is in the details. Under current law, districts can compute comparability using average teacher salaries or teacher-to-student ratios instead of actual expenditures on teacher salaries.<sup>4</sup> And because teacher salaries constitute the largest proportion of school budgets and teachers with greater experience earn higher salaries and tend to teach in lower-poverty schools, this compliance method renders it impossible to accurately compare school budgets.

This problem is not an oversight. Federal law explicitly prohibits districts from calculating comparability using actual expenditures. Instead, it chooses to treat teachers as interchangeable widgets. For example, if School A has 10 teachers and School B has 10 teachers, they must be providing a comparable education. It is this loophole in federal law—the “comparability loophole”—that is at the heart of school funding inequities.

But research over the past decade has conclusively shown that all teachers are not equal.<sup>5</sup> Some have a vastly greater impact on student achievement than others. In fact, a recent RAND Corporation report stated, “among school-related factors, teachers matter most.”<sup>6</sup> And while experience is not a perfect proxy for effectiveness, research consistently shows that teachers undergo a steep learning curve during the first three years on the job and then gradually reach a peak in their fifth year.<sup>7</sup> Consequently, it is particularly problematic

that schools disproportionately serving low-income students also have more than their fair share of new teachers. Additionally, though individual teacher effectiveness varies, schools with more new teachers are, on average, not comparable to schools with more experienced teachers.

Ensuring that Title I funds provide additional funds for disadvantaged students is not a small issue. Indeed, it goes to the heart of the American promise of equal opportunity: No matter your background or family circumstance, you have a shot at a middle-class life if you work hard and get a good education. While money is not the only driver of a high-quality education, research shows that money really matters for disadvantaged students.

A recent National Bureau of Economic Research study found that:

*For poor children, a twenty percent increase in per-pupil spending each year for all 12 years of public school is associated with nearly a full additional year of completed education, 25 percent higher earnings, and a 20 percentage-point reduction in the annual incidence of poverty in adulthood. ... The results ... highlight how improved access to school resources can profoundly shape the life outcomes of economically disadvantaged children, and thereby significantly reduce the intergenerational transmission of poverty.<sup>8</sup>*

The comparability requirement in ESEA is the mechanism through which the federal government can ensure that the public education offered to poor students is at least as well resourced as that offered to their more affluent peers. By allowing districts to use measures of educators instead of expenditures to demonstrate that they are providing comparable educational services, federal law ceases to have teeth. This is commonly referred to as the comparability loophole.

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## Effects of the comparability loophole

To determine the scope and depth of the funding inequity between higher- and lower-income students, we analyzed the most recent available data from the U.S. Department of Education, or DOE, on how much districts spend on each of their schools. The DOE collected this information on more than 95,000 public schools through its Civil Rights Data Collection during the 2011-12 school year.<sup>9</sup> We compared how districts fund schools that are eligible to receive federal Title I dollars with other schools in their grade span—elementary, middle, or high school grades<sup>10</sup>—and found vast disparities throughout the country in how districts spend state and local dollars on Title I schools.

Whenever possible, we compared Title I schools with non-Title I schools in each grade span. In other cases, we compared higher-poverty Title I schools with other Title I schools.<sup>11</sup> We adjusted school spending for differences in cost of living across districts.<sup>12</sup>

Nationally, we found that:<sup>13</sup>

- **Due to the loophole in federal law, more than 4.5 million low-income students attend inequitably funded Title I schools.** In most states, there are tens of thousands of students from low-income households who attend Title I schools that are not funded equitably relative to other schools in their district. See the appendix for state-by-state results.
- **These inequitably funded schools receive around \$1,200 less per student than comparison schools in their districts.** Overall, these schools receive around \$668,900 less per year than comparison schools. In Fort Worth, Texas, for example, inequitably funded Title I schools receive around \$2,600 less per student. In some districts, the disparities are even wider. In Santa Fe, New Mexico, inequitably funded Title I schools receive around \$4,900 less than other schools. These disparities can add up to millions of dollars at the state level. If these gaps were closed, inequitably funded schools in Texas would receive another \$1.6 billion annually, and in New Mexico, they would have an additional \$65 million. See the appendix for state-by-state results.
- **If the federal loophole were closed, high-poverty schools would receive around \$8.5 billion in new funds each year.** This estimate is similar to findings reported in a previous study that used 2008-09 school finance data, also based on information collected by DOE.<sup>14</sup> This amount is equivalent to around 1.5 percent of total state and local revenues, which were more than \$500 billion in the 2011-12 school year.<sup>15</sup> For inequitably funded Title I schools, these dollars could add real value. See appendix for state-by-state results.

As Congress works to reauthorize the No Child Left Behind Act, improving school funding has been a key focus. Sen. Lamar Alexander (R-TN), chairman of the Senate Health, Education, Labor and Pensions Committee, and Rep. John Kline (R-MN), chairman of the House Education and Workforce Committee, both proposed changing the distribution of Title I funds.<sup>16</sup> This would allow states the option of distributing funds solely on the basis of the number of low-income students, rather than continuing to use the four formulas that target the funds to concentrations of poor students. Moreover, both of their proposals fail to address the comparability loophole and would continue to allow districts to demonstrate comparability in ways that mask real inequities in school resources. Members of the House Education and the Workforce Committee recently approved Rep. Kline's proposal.<sup>17</sup>

## What could \$668,900 buy?

Comparability is about a broad range of resources. Title I schools should at least have the same amount of resources—to invest as school leaders see fit—as other schools. They may choose to hire more experienced, and thus more costly, teachers, or they may choose to invest in technology, a new curriculum, an after-school program, or teaching supplies. If shortchanged schools received an additional \$668,000, they could do one of the following:<sup>18</sup>

- Purchase new MacBook Pro computers for more than 550 students<sup>19</sup>
- Construct six new libraries<sup>20</sup>
- Implement a new music education program that serves more than 3,500 students<sup>21</sup>
- Institute a new arts program covering more than 190 classrooms<sup>22</sup>
- Hire 12 new guidance counselors with an average salary of nearly \$54,000<sup>23</sup>
- Give a \$10,000 bonus to more than 60 teachers

This paper is not the first to point out this issue of comparability. The fiscal inequities perpetuated by the comparability loophole are well documented. In a DOE national study of school finance during the 2008-09 school year, the department looked at differences in spending between schools in the same districts and found that about 40 percent of Title I schools were underfunded relative to non-Title I schools.<sup>24</sup> In 2012, the Center for American Progress issued its “Unequal Education” report, which analyzed the first wave of DOE per-school expenditure data that included actual teacher salaries. It found that children of color are routinely being shortchanged.<sup>25</sup> CAP has long argued that the loophole is one of the most significant barriers to educational equity.<sup>26</sup> Other groups such as The Education Trust and the New America Foundation have also analyzed the impact of the loophole and found that districts claiming comparability significantly underfund higher-poverty schools.<sup>27</sup>

It is important to note that districts reported their own financial information for the Civil Rights Data Collection, or CRDC. Districts might have chosen somewhat different approaches to completing the financial survey. The CRDC focuses on expenditures from state and local funds. School-level financial data is already scarce, but this focus on state and local resources makes it difficult to cross-validate these school-level findings even with available state-level school finance results.

## Although legally comparable, schools can still have large funding inequities

The following is an example of how the comparability loophole permits school funding inequities to persist. The schools are hypothetical, reproduced from a Center for American Progress video released in 2011.<sup>28</sup>

|                        | West Dillon Elementary | East Dillon Elementary |
|------------------------|------------------------|------------------------|
| School type            | Non-Title I            | Title I                |
| Number of students     | 200                    | 200                    |
| Number of teachers     | 10                     | 10                     |
| Average teacher salary | \$65,000               | \$45,000               |
| Total expenditures     | \$1,300,000            | \$900,000              |
| Per-pupil expenditures | \$6,500                | \$4,500                |

In this scenario, each school serves the same number of students with the same number of teachers. Each teacher is paid according to a district-wide salary schedule. In West Dillon, the average teacher has 20 years of experience, while teachers in East Dillon are much less experienced. According to the law, these schools are comparable. But in actuality, the Title I school receives \$400,000 less overall in state and local funds or \$2,000 less per pupil.

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### Recommendations

To ensure that low-income schools are funded at equal levels with their more affluent counterparts, Congress should update the law and close the comparability loophole in the following three ways:

1. The comparability calculation must be based on actual expenditures, including actual teacher salaries.
2. Districts should be required to achieve comparability between Title I and non-Title I schools only by demonstrating that Title I schools receive state and local funding that is at least equal to the average of the district's non-Title I schools.
3. Districts that serve only Title I schools must show that higher-poverty schools receive no less than the average total of state and local funds for lower-poverty schools.<sup>29</sup>

Under current guidance from the U.S. Department of Education, districts can demonstrate comparability at the 90 percent level.<sup>30</sup> In other words, districts can claim that they spend comparable amounts at Title I schools as long as those schools provide at least 90 percent of services offered in other schools. Districts can interpret that percentage as a ceiling not a floor. The department's guidance should not allow for this amount of leeway.

Some have argued that the only way for districts to close the comparability gap is to force experienced teachers to transfer to high-poverty schools, which typically employ teachers with fewer years of experience and lower salaries. In fact, states and districts could provide a host of additional resources to the high-poverty schools and leave the staffing distribution as is. By purchasing the kind of enrichment activities listed in the "What could \$668,900 buy?" text box above, districts would comply with the requirement.

In addition, districts could change their compensation systems to reward effectiveness instead of seniority or educational degree attainment.<sup>31</sup> In this way, districts can pay highly effective teachers more, particularly those working in schools serving high concentrations of low-income students. With more highly effective teachers clustered in high-poverty schools, these districts could close the comparability gap through supporting highly effective teachers in these schools rather than forcing teachers to move to high-poverty schools.

At the same time, actually achieving comparability given that schools have been inequitably funded throughout history will not be easy. That is why Congress should require meaningful compliance with the comparability provision to be phased in gradually. Priority would first be given to the schools that have been most egregiously shortchanged. Full compliance would be required within five years. The following timetable would serve that end:

- **Year one:** All districts must publicly report all expenditures by school level. These facts must be made available in an easy-to-read format that is available to the public. The report must also include the percentage of students eligible to receive free and reduced-price lunches. In each subsequent year, the district continues to report this data.
- **Year two:** States and districts begin to fill in funding gaps. States would rank their Title I schools by per-pupil expenditures and ensure that the lowest-spending 25 percent of schools are funded to at least 100 percent of the average level of their districts' comparison schools. These gaps could be closed through state or local actions or a combination of both.<sup>32</sup>
- **Year three:** States ensure that the lowest-spending 50 percent of Title I schools are funded to at least 100 percent of the average level of their districts' comparison schools.
- **Year four:** States ensure that the lowest-spending 75 percent of Title I schools are funded to at least 100 percent of the average level of their districts' comparison schools.
- **Year five:** States ensure that all Title I schools are funded at least to the level of the average of their districts' comparison schools.

Under current law, districts already risk losing their Title I dollars if they fail to comply with comparability requirements. Congress should expand this provision to hold states accountable for the gaps outlined above as well. Here, the guiding principle is that states hold the ultimate responsibility for operating inequitable funding systems. Specifically, states should risk losing their full allocation of Title I dollars each year that they fail to keep on track with the above timeline. This arrangement would be a strong deterrent to states and districts that wish to continue their current approaches to funding their most disadvantaged schools. Nationally, this amounts to a reasonable trade-off. For example, we found that in the second year—the first year of narrowing comparability gaps—states and districts would be responsible for closing gaps by around \$2.3 billion in exchange for receiving more than \$14.6 billion in federal Title I funds.

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## Conclusion

Students from economically disadvantaged backgrounds deserve the same opportunities at their peers from higher-income families. Notwithstanding the fact that comparability is the law of the land, the way districts comply with the provision undermines its true intent. Under the current fiscal policy, districts can spend less of their own state and local dollars on the schools with the highest needs, and most do spend millions of dollars less in these schools. Therefore, Congress should close the comparability loophole by requiring that districts fund their Title I schools at the same level as or higher than—based on actual spending—their other schools.

To truly address the problem of fiscal inequity, Congress must seize this opportunity to close the comparability loophole. An improved comparability provision could go a long way toward ensuring that all low-income students get their fair share of state and local funding.

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## Appendix

**TABLE A1**  
**Inequitably funded schools in the United States**

State results from comparability analysis, school year 2011-12

|                      | Estimated number of inequitably funded schools | Percent of schools in study | Estimated total number of low-income students in these schools | Percent of low-income students in study | Estimated amount of additional funding necessary to equitably fund these schools |
|----------------------|--|-----------------------------|--|---|--|
| Alabama              | 228  | 21%                         | 91,597   | 27%                                     | \$159,000,000  |
| Alaska               | 42   | 15%                         | 9,067  | 24%                                     | \$14,300,000   |
| Arizona              | 267  | 24%                         | 145,792  | 37%                                     | \$143,000,000  |
| Arkansas             | 68   | 13%                         | 24,489   | 15%                                     | \$44,000,000   |
| California           | 1,745  | 25%                         | 421,529  | 34%                                     | \$885,000,000  |
| Colorado             | 170  | 13%                         | 57,219   | 19%                                     | \$73,200,000   |
| Connecticut          | 181  | 22%                         | 57,719   | 35%                                     | \$160,000,000  |
| Delaware             | 33   | 21%                         | 11,909   | 23%                                     | \$15,000,000   |
| District of Columbia | 20   | 17%                         | 6,918  | 31%                                     | \$15,300,000   |
| Florida              | 671  | 20%                         | 360,346  | 25%                                     | \$313,000,000  |
| Georgia              | 527  | 27%                         | 284,453  | 34%                                     | \$297,000,000  |
| Hawaii               | 82   | 29%                         | 38,363   | 43%                                     | \$24,900,000   |
| Idaho                | 97   | 23%                         | 26,854   | 26%                                     | \$39,000,000   |
| Illinois             | 738  | 28%                         | 318,055  | 39%                                     | \$531,000,000  |
| Indiana              | 265  | 21%                         | 81,307   | 22%                                     | \$121,000,000  |
| Iowa                 | 103  | 16%                         | 23,011   | 19%                                     | \$49,900,000   |
| Kansas               | 121  | 16%                         | 36,338   | 21%                                     | \$36,100,000   |
| Kentucky             | 193  | 20%                         | 63,619   | 22%                                     | \$130,000,000  |
| Louisiana            | 273  | 26%                         | 114,396  | 31%                                     | \$254,000,000  |
| Maine                | 37   | 16%                         | 661  | 16%                                     | \$21,700,000   |
| Maryland             | 226  | 17%                         | 85,308   | 24%                                     | \$119,000,000  |
| Massachusetts        | 227  | 19%                         | 67,992   | 26%                                     | \$111,000,000  |
| Michigan             | 393  | 22%                         | 111,652  | 26%                                     | \$254,000,000  |
| Minnesota            | 95   | 12%                         | 18,888   | 11%                                     | \$130,000,000  |
| Mississippi          | 97   | 15%                         | 40,656   | 17%                                     | \$65,300,000   |
| Missouri             | 271  | 23%                         | 71,359   | 27%                                     | \$230,000,000  |
| Montana              | 33   | 17%                         | 6,460  | 23%                                     | \$9,900,000  |
| Nebraska             | 55   | 11%                         | 10,224   | 10%                                     | \$17,700,000   |
| Nevada               | 108  | 19%                         | 67,358   | 29%                                     | \$53,000,000   |
| New Hampshire        | 34   | 15%                         | 3,948  | 12%                                     | \$12,800,000   |
| New Jersey           | 355  | 23%                         | 119,385  | 33%                                     | \$334,000,000  |
| New Mexico           | 131  | 22%                         | 53,036   | 27%                                     | \$90,700,000   |

|                | Estimated number of inequitably funded schools | Percent of schools in study | Estimated total number of low-income students in these schools | Percent of low-income students in study | Estimated amount of additional funding necessary to equitably fund these schools |
|----------------|--|-----------------------------|--|---|--|
| New York       | 288  | 20%                         | 69,417   | 24%                                     | \$140,000,000  |
| North Carolina | 281  | 13%                         | 112,327  | 16%                                     | \$76,300,000   |
| North Dakota   | 28   | 19%                         | 4,131  | 24%                                     | \$13,900,000   |
| Ohio           | 491  | 23%                         | 132,181  | 27%                                     | \$944,000,000  |
| Oklahoma       | 132  | 18%                         | 51,965   | 22%                                     | \$45,100,000   |
| Oregon         | 172  | 19%                         | 50,030   | 21%                                     | \$47,700,000   |
| Pennsylvania   | 491  | 24%                         | 146,333  | 31%                                     | \$199,000,000  |
| Rhode Island   | 49   | 20%                         | 13,304   | 24%                                     | \$19,300,000   |
| South Carolina | 162  | 16%                         | 66,735   | 19%                                     | \$87,000,000   |
| South Dakota   | 54   | 19%                         | 8,204  | 29%                                     | \$32,900,000   |
| Tennessee      | 278  | 19%                         | 121,713  | 25%                                     | \$99,900,000   |
| Texas          | 1,402  | 26%                         | 705,070  | 34%                                     | \$1,660,000,000  |
| Utah           | 78   | 11%                         | 32,316   | 14%                                     | \$40,300,000   |
| Vermont        | 5  | 29%                         | 871  | 32%                                     | \$1,200,000  |
| Virginia       | 236  | 14%                         | 76,939   | 18%                                     | \$95,200,000   |
| Washington     | 237  | 15%                         | 68,171   | 17%                                     | \$64,300,000   |
| West Virginia  | 102  | 16%                         | 24,311   | 18%                                     | \$32,200,000   |
| Wisconsin      | 237  | 18%                         | 57,106   | 22%                                     | \$64,600,000   |
| Wyoming        | 60   | 26%                         | 8,123  | 33%                                     | \$57,100,000   |
| <b>Total</b>   | <b>12,669</b>                                  |                             | <b>4,579,155</b>   |   | <b>\$8,473,800,000</b>   |

Source: U.S. Department of Education, "Civil Rights Data Collection," received by request; National Center for Education Statistics, *Public Elementary/Secondary School Universe Survey: v.1a* (U.S. Department of Education, 2011-12), available at <http://nces.ed.gov/ipeds/data/ipeds-tables/ipeds-table-generator.aspx>.

**TABLE A2**  
**Estimated number of districts with inequitably funded schools, by state**

School year 2011-12

|                | Estimated number of school districts<br>with inequitably funded schools | Percent of total districts in study |
|----------------|---|-------------------------------------|
| Alabama        | 51  | 68%                                 |
| Alaska         | 11  | 79%                                 |
| Arizona        | 60  | 67%                                 |
| Arkansas       | 34  | 61%                                 |
| California     | 342   | 73%                                 |
| Colorado       | 42  | 72%                                 |
| Connecticut    | 56  | 61%                                 |
| Delaware       | 10  | 77%                                 |
| Florida        | 50  | 93%                                 |
| Georgia        | 80  | 84%                                 |
| Idaho          | 28  | 72%                                 |
| Illinois       | 183   | 64%                                 |
| Indiana        | 92  | 66%                                 |
| Iowa           | 42  | 54%                                 |
| Kansas         | 42  | 64%                                 |
| Kentucky       | 56  | 62%                                 |
| Louisiana      | 34  | 69%                                 |
| Maine          | 25  | 71%                                 |
| Maryland       | 18  | 75%                                 |
| Massachusetts  | 80  | 59%                                 |
| Michigan       | 133   | 69%                                 |
| Minnesota      | 46  | 55%                                 |
| Mississippi    | 44  | 60%                                 |
| Missouri       | 88  | 80%                                 |
| Montana        | 19  | 56%                                 |
| Nebraska       | 27  | 52%                                 |
| Nevada         | 12  | 86%                                 |
| New Hampshire  | 19  | 54%                                 |
| New Jersey     | 133   | 67%                                 |
| New Mexico     | 34  | 83%                                 |
| New York       | 131   | 68%                                 |
| North Carolina | 58  | 73%                                 |
| North Dakota   | 10  | 56%                                 |
| Ohio           | 140   | 57%                                 |
| Oklahoma       | 43  | 67%                                 |
| Oregon         | 59  | 81%                                 |

|                | <b>Estimated number of school districts<br/>with inequitably funded schools</b> | <b>Percent of total districts in study</b> |
|----------------|---|--|
| Pennsylvania   | 172   | 73%  |
| Rhode Island   | 18  | 72%  |
| South Carolina | 41  | 69%  |
| South Dakota   | 28  | 65%  |
| Tennessee      | 64  | 75%  |
| Texas          | 237   | 81%  |
| Utah           | 26  | 76%  |
| Vermont        | 3   | 100%                                       |
| Virginia       | 61  | 75%  |
| Washington     | 83  | 67%  |
| West Virginia  | 34  | 83%  |
| Wisconsin      | 82  | 57%  |
| Wyoming        | 21  | 95%  |

Note: The number of districts varies across states. For example, there were 24 regular school districts included from Maryland but 144 districts from Wisconsin. Consequently, comparing percentages across states in this table might not be appropriate. The results for Hawaii and the District of Columbia are not included as each only has one school district.

Source: U.S. Department of Education, "Civil Rights Data Collection," received by request; National Center for Education Statistics, *Public Elementary/Secondary School Universe Survey: v.1a* (U.S. Department of Education, 2011-12), available at <http://nces.ed.gov/ccd/elsi/tableGenerator.aspx>.

**TABLE A3**  
**Analytic sample for comparability analysis**

School year 2011-12

|                      | Total districts in study | Total schools in study districts | Total low-income students in study districts |
|----------------------|--------------------------|----------------------------------|--|
| Alabama              | 75                       | 1,071                            | 334,212                                      |
| Alaska               | 14                       | 272                              | 37,142                                       |
| Arizona              | 90                       | 1,111                            | 397,730                                      |
| Arkansas             | 56                       | 506                              | 160,625                                      |
| California           | 469                      | 7,032                            | 1,245,739                                    |
| Colorado             | 58                       | 1,275                            | 297,295                                      |
| Connecticut          | 92                       | 807                              | 166,366                                      |
| Delaware             | 13                       | 156                              | 51,123                                       |
| District of Columbia | 1                        | 115                              | 22,610                                       |
| Florida              | 54                       | 3,384                            | 1,470,650                                    |
| Georgia              | 95                       | 1,941                            | 843,038                                      |
| Hawaii               | 1                        | 284                              | 89,853                                       |
| Idaho                | 39                       | 424                              | 101,393                                      |
| Illinois             | 285                      | 2,630                            | 819,725                                      |
| Indiana              | 140                      | 1,282                            | 373,497                                      |
| Iowa                 | 78                       | 641                              | 119,272                                      |
| Kansas               | 66                       | 744                              | 171,189                                      |
| Kentucky             | 91                       | 964                              | 285,754                                      |
| Louisiana            | 49                       | 1,066                            | 374,481                                      |
| Maine                | 35                       | 226                              | 4,244  |
| Maryland             | 24                       | 1,369                            | 351,411                                      |
| Massachusetts        | 136                      | 1,220                            | 263,697                                      |
| Michigan             | 193                      | 1,804                            | 426,608                                      |
| Minnesota            | 84                       | 801                              | 168,136                                      |
| Mississippi          | 73                       | 639                              | 240,149                                      |
| Missouri             | 110                      | 1,158                            | 260,842                                      |
| Montana              | 34                       | 192                              | 28,268                                       |
| Nebraska             | 52                       | 507                              | 98,422                                       |
| Nevada               | 14                       | 582                              | 234,007                                      |
| New Hampshire        | 35                       | 234                              | 32,346                                       |
| New Jersey           | 200                      | 1,549                            | 366,991                                      |
| New Mexico           | 41                       | 594                              | 197,724                                      |
| New York             | 192                      | 1,432                            | 294,811                                      |
| North Carolina       | 80                       | 2,090                            | 691,006                                      |
| North Dakota         | 18                       | 144                              | 17,037                                       |
| Ohio                 | 246                      | 2,103                            | 493,482                                      |

|                | Total districts in study | Total schools in study districts | Total low-income students in study districts |
|----------------|--------------------------|----------------------------------|--|
| Oklahoma       | 64                       | 727                              | 235,032                                      |
| Oregon         | 73                       | 923                              | 241,515                                      |
| Pennsylvania   | 237                      | 2,062                            | 469,909                                      |
| Rhode Island   | 25                       | 244                              | 55,536                                       |
| South Carolina | 59                       | 1,035                            | 358,355                                      |
| South Dakota   | 43                       | 281                              | 28,334                                       |
| Tennessee      | 85                       | 1,479                            | 488,914                                      |
| Texas          | 294                      | 5,328                            | 2,089,090                                    |
| Utah           | 34                       | 707                              | 223,410                                      |
| Vermont        | 3                        | 17                               | 2,707  |
| Virginia       | 81                       | 1,629                            | 420,941                                      |
| Washington     | 123                      | 1,558                            | 393,386                                      |
| West Virginia  | 41                       | 624                              | 132,695                                      |
| Wisconsin      | 144                      | 1,334                            | 261,748                                      |
| Wyoming        | 22                       | 231                              | 24,866                                       |

Source: U.S. Department of Education, "Civil Rights Data Collection," received by request; National Center for Education Statistics, *Public Elementary/Secondary School Universe Survey: v.1a* (U.S. Department of Education, 2011-12), available at <http://nces.ed.gov/ccd/elsi/tableGenerator.aspx>.

## Endnotes

- 1 *Brown v. Board of Education*, 347 U.S. 483 (1954), available at <http://caselaw.lp.findlaw.com/scripts/getcase.pl?court=US&vol=347&invol=483>.
- 2 Gary Orfield, John Kucsera, and Genevieve Siegel-Hawley, "E Pluribus... Separation: Deepening Double Segregation for More Students" (Los Angeles: The Civil Rights Project, 2012), available at <http://civilrightsproject.ucla.edu/research/k-12-education/integration-and-diversity/mlk-national/e-pluribus...separation-deepening-double-segregation-for-more-students>.
- 3 *No Child Left Behind Act*, § 1120A(c), "Comparability of Services," available at <http://www2.ed.gov/policy/elsec/leg/esea02/pg2.html#sec1120A>.
- 4 Ary Spatig-Amerikaner, "Unequal Education: Federal Loophole Enables Lower Spending on Students of Color" (Washington: Center for American Progress, 2012), available at <https://www.americanprogress.org/issues/education/report/2012/08/22/29002/unequal-education>.
- 5 Daniel Weisberg and others, "The Widget Effect: Our National Failure to Acknowledge and Act on Differences in Teacher Effectiveness" (Brooklyn, NY: The New Teacher Project, 2009), available at <http://tntp.org/publications/view/the-widget-effect-failure-to-act-on-differences-in-teacher-effectiveness>.
- 6 RAND Education, "Teachers Matter: Understanding Teachers' Impact on Student Achievement" (2012), available at <http://www.rand.org/education/projects/measuring-teacher-effectiveness/teachers-matter.html>.
- 7 The New Teacher Project, "Teacher Experience: What Does the Research Say?" (2012), available at [http://tntp.org/assets/documents/TNTP\\_FactSheet\\_TeacherExperience\\_2012.pdf](http://tntp.org/assets/documents/TNTP_FactSheet_TeacherExperience_2012.pdf).
- 8 K. Kirabo Jackson, Rucker C. Johnson, and Claudia Persico, "The Effects of School Spending on Educational and Economic Outcomes: Evidence from School Finance Reforms." Working Paper 20847 (National Bureau of Economic Research, 2015), available at <http://www.nber.org/papers/w20847>.
- 9 Districts reported their own information to the U.S. Department of Education for this data collection. While the department provided specific guidance about what expenses to include and what not to include, it is probable that districts may have filled out these forms using slightly different analytic approaches. Given these data quality issues, we were not able to cross-reference the Civil Rights Data Collection with other school finance datasets. This is the most comprehensive database of its kind. If we assume that districts used similar accounting techniques for each of their schools, then our school-level comparisons should still represent disparities across schools in the same district. U.S. Department of Education, "Civil Rights Data Collection," received by request.
- 10 In many ways, we are indebted to Ary Spatig-Amerikaner for her 2012 CAP report using similar methods with 2008-09 school finance data. See Spatig-Amerikaner, "Unequal Education." In this brief, we compared Title I schools with the average for their grade span and indicated that a school was inequitably funded if its total spending per student was below the average. In grade spans with both Title I and non-Title I schools, we compared Title I schools with the non-Title I average. In grade spans with only Title I schools, we compared higher-poverty Title I schools with the average across lower-poverty Title I schools in their grade span. We followed the Fiscal Fairness Act's provisions: Higher-poverty schools are those from the top three quartiles of schools in terms of student poverty rates, and lower-poverty schools are from the bottom quartile. See *Fiscal Fairness Act*, H.R. 1294, 112 Cong. 1 sess. (Government Printing Office, 2011), 10b-c. We excluded all districts that did not receive any Title I dollars in 2011-12. See Bureau of the Census, *Public Elementary-Secondary Education Finance Data* (U.S. Department of Commerce, 2012), available at <http://www.census.gov/govs/school/>. We also did not include any district's grade spans that only include one school. We also dropped districts that served fewer than 100 students and districts that were irregular—for example, regional education agencies, all-charter agencies, or entities run directly by states. Finally, we dropped the spending outliers that were outside of the 1 percent to 99 percent range. Specifically, we dropped all schools that spent less than \$1,626 per student or more than \$35,385 per student. Throughout the paper, our comparisons are across grade spans—elementary, middle, and high school—but we omit the words "grade spans" for clarity.
- 11 This analysis relied on school-level data about students who are eligible for free or reduced-price lunches. See U.S. Department of Education, "Elementary/Secondary Information System," available at <http://nces.ed.gov/ccd/elsi> (last accessed February 2015).
- 12 We used Lori Taylor's Comparable Wage Index to adjust school-level spending for differences in cost of living. See Texas A&M University, "Extending the NCES CWI," available at [http://bush.tamu.edu/research/faculty/Taylor\\_CWI/](http://bush.tamu.edu/research/faculty/Taylor_CWI/) (last accessed February 2015).
- 13 All of the following findings are based on the authors' analysis of U.S. Department of Education, "Civil Rights Data Collection."
- 14 Spatig-Amerikaner, "Unequal Education."
- 15 The total amount of state and local education revenue in 2011-12 was \$542,823,200,000. Stephen Q. Cornman, "Revenues and Expenditures for Public Elementary and Secondary School Districts: School Year 2011-12 (Fiscal Year 2012)" (U.S. Department of Education, 2015), available at <http://nces.ed.gov/pubs2014/2014303.pdf>.
- 16 *Every Child Ready for College or Career Act*, forthcoming, 114 Cong. 1 sess., available at <http://www.help.senate.gov/imo/media/AEG15033.pdf>; *Student Success Act*, H.R. 5, 114 Cong. 1 sess. (Government Printing Office, 2015), available at <https://www.congress.gov/bill/114th-congress/house-bill/5/text?q=%22search%22%3A%5B%22hr+5%22%5D>.
- 17 Education and the Workforce Committee, "Full Committee: H.R. 5 'Student Success Act,'" February 11, 2015, available at <http://edworkforce.house.gov/calendar/eventsingle.aspx?EventID=398329>.
- 18 The authors would like to acknowledge Jeanette Luna for research support for this text box.
- 19 According to the Apple website, a MacBook Pro costs around \$1,199. See Apple Store, "MacBook Pro," available at <http://store.apple.com/us-hed/mac> (last accessed February 2015).
- 20 The Robin Hood Foundation offers libraries for schools at about \$100,000 per campus. See NYC Department of Education, "Robin Hood Libraries" (2007), available at [http://schools.nyc.gov/offices/d\\_chanc\\_oper/budget/dbor/allocationmemo/fy07\\_08/fy08\\_pdf/sam28.pdf](http://schools.nyc.gov/offices/d_chanc_oper/budget/dbor/allocationmemo/fy07_08/fy08_pdf/sam28.pdf).
- 21 According to a study by the National Association of Music Merchants, it costs districts about \$187 per student to offer a "comprehensive K-12 music education program." See National Association of Music Merchants, "Study First to Detail the Costs of Comprehensive Music Education," Press release, August 28, 2012, available at <https://www.namm.org/news/press-releases/study-first-detail-costs-comprehensive-music>.
- 22 According to Urban Gateways, a foundation offering arts education enrichment programs, it costs around \$34,000 to provide 12 classrooms with six artists for 24 sessions. See Urban Gateways, "Arts Ed Packages," available at <http://urbangateways.org/programs/arts-ed-packages> (last accessed February 2015).
- 23 According to the Bureau of Labor Statistics, the median salary of a guidance counselor is \$53,610. See Bureau of Labor Statistics, "Occupational Outlook Handbook: School and Career Counselors," available at <http://www.bls.gov/ooh/community-and-social-service/school-and-career-counselors.htm> (last accessed February 2015).

- 24 Ruth Heuer and Stephanie Stulich, "Comparability of State and Local Expenditures Among Schools Within Districts: A Report from the Study of School-Level Expenditures" (U.S. Department of Education, 2011), available at <http://www2.ed.gov/rschstat/eval/title-i/school-level-expenditures/school-level-expenditures.pdf>.
- 25 Spatig-Amerikaner, "Unequal Education."
- 26 For example, see Raegen Miller, "Comparable, Schmomparable: Evidence of Inequity in the Allocation of Funds for Teacher Salary Within California's Public School Districts" (Washington: Center for American Progress, 2010), available at <https://www.americanprogress.org/issues/education/report/2010/05/26/7746/comparable-schmomparable>.
- 27 The Education Trust, "Their Fair Share: How Teacher Salary Gaps Shortchange Poor Children in Texas" (2007), available at <http://edtrust.org/resource/their-fair-share-how-teacher-salary-gaps-shortchange-poor-children-in-texas/>; Lindsey Luebchow, "Equitable Resources in Low Income Schools: Teacher Equity and the Federal Title I Comparability Requirement" (New America Foundation, 2009), available at [http://www.newamerica.net/files/Equitable\\_Resources\\_in\\_Low\\_Income\\_Schools.pdf](http://www.newamerica.net/files/Equitable_Resources_in_Low_Income_Schools.pdf).
- 28 Center for American Progress, "Tipping the Scales: How a loophole in current education law allows inequities in education spending," August 2011, available at <http://images2.americanprogress.org/CAP/2011/08/comparability.mp4>.
- 29 This recommendation relies on definitions given in the Fiscal Fairness Act proposed in the 112th Congress. Specifically, districts should compare schools in the top three quartiles of poverty, or higher-poverty schools, with schools in the bottom quartile, or lower-poverty schools. See *Fiscal Fairness Act*, H.R. 1294.
- 30 U.S. Department of Education, *Title I Fiscal Issues: Maintenance of Effort; Comparability; Supplement, Not Supplant; Carryover; Consolidating Funds in Schoolwide Programs; Grantback Requirements* (2008), available at <https://www2.ed.gov/programs/titleiparta/fiscalguid.pdf>.
- 31 Karen Hawley Miles, Kaitlin Pennington, and David Bloom, "Do More, Add More, Earn More: Teacher Salary Redesign Lessons from 10 First-Mover Districts" (Washington: Center for American Progress, 2015), available at <https://www.americanprogress.org/issues/education/report/2015/02/17/106584/do-more-add-more-earn-more>.
- 32 Comparison schools are defined the same way as in the recommendations above. Specifically, Title I schools should be compared to non-Title I schools when possible. If not, higher-poverty Title I schools should be compared to lower-poverty Title I schools. Spatig-Amerikaner also recommended focusing first on schools with lowest per-pupil expenditures. Spatig-Amerikaner, "Unequal Education."