How to interpret data on the individual state profiles

For each state with a preschool education initiative, we include one page with a description of the state’s program followed by a page with data on the program’s key features, focusing on access, quality, and resources.

The first page for each state begins with two sets of bar graphs. The first shows percentages of the state’s 3-year-old and 4-year-olds enrolled in the state prekindergarten program. The second set shows the state’s spending per child enrolled in the state pre-K initiative. Both sets of bar graphs depict changes in state preschool over time, from fiscal year 2002 (which corresponds to the 2001-2002 school year) through fiscal year 2012 (which corresponds to the 2011-2012 school year). Most of the data used for comparison purposes come from NIEER’s previous Yearbooks, although spending figures are adjusted for inflation and represent 2012 dollars. In addition, there are some exceptions in cases where states revised data or reported data differently. Several states—California, Florida, Massachusetts, Nebraska, and North Carolina—reported spending from the American Recovery and Reinvestment Act (ARRA) in the 2009-2010 and 2010-2011 school years, which was included as state funding. However, these funds were no longer available in the 2011-2012 school year. The percent of students enrolled is calculated using Census estimates of 3- and 4-year-olds children in each state, with the exception of the 2010-2011 school year when estimates were not available and actual Census data were used.

Following the bar graphs is a brief narrative providing information on the main features of the state’s initiative(s). This includes details such as the initiative’s history, the types of settings in which state-funded preschool can be offered, enrollment eligibility criteria, and evaluations if conducted. In many cases, the narrative also describes unique or particularly interesting aspects of the state initiatives that may not be highlighted elsewhere in the report, as well as relevant new developments in the 2011-2012 school year and expected changes for the 2012-2013 school year. Some descriptive information in the narratives was originally based on information found in the reports Seeds of Success from the Children’s Defense Fund and Quality Counts 2002 from Education Week.

For the 40 states with preschool programs, the bottom of the first page of each state profile presents four numbers showing the state’s ranking on the following measures:

- The percentage of the state’s 4-year-old population enrolled in the state’s preschool program (Access Rankings – 4-Year-Olds);
- The percentage of the state’s 3-year-old population enrolled in the state’s preschool program (Access Rankings – 3-Year-Olds);
- State expenditures per child enrolled in the program (Resources Rankings – State Spending);
- All reported expenditures per child enrolled in the program, including local and federal spending as well as state spending (Resources Rankings – All Reported Spending).

The All Reported Spending ranking provides a more complete picture of pre-K spending in states using local and federal funding sources than the State Spending ranking alone. However, because states vary in their ability to report spending from these other sources, this ranking is imperfect and sometimes underestimates total spending.

Iowa, Kansas, Louisiana, New Jersey, Pennsylvania, South Carolina, Vermont, and Wisconsin each have more than one distinct preschool education initiative, therefore information is presented slightly differently for these states and is explained on their individual profiles.

The District of Columbia provides pre-K to a substantial number of 3- and 4-year-olds through D.C. Public Schools (DCPS), community-based organizations (CBOs), and charter schools (authorized by the D.C. Public Charter Board). Programs in DCPS and CBO settings operate under similar program standards and so are profiled together.
Beginning in the 2009-2010 school year, data were included in the Yearbook on pre-K programs operating in D.C.'s charter schools. As the nature of charter schools allows for each school to set its own regulations and standards through its charter, programs operated in these settings are profiled separately to accurately portray this governance structure. Information is presented similarly to states that have more than one prekindergarten initiative. While D.C.'s unique situation as a city independent of a state makes it difficult to compare directly to state-funded programs, D.C. does have higher per-child spending and access figures than any state and so has been given a ranking of “1*” to indicate this position. However, state rankings also begin at position 1, to be interpreted as “first among states.”

State profile pages are also given for the 10 states that did not fund preschool education initiatives in the 2011-2012 school year. For most of these states, the space for the narrative of the state’s initiative is left blank, and the table of quality standards is marked “NA” for all 10 states. However, these profiles report enrollment data for special education and federally funded Head Start. In addition, data on per-child spending for K-12 education and federal Head Start are included. When applicable, state-funded Head Start spending and enrollment are also provided for no-program states.

The following sections provide an overview of information contained in the data tables on the state profile pages and explain why these elements are important. Data in the tables are for the 2011-2012 school year except where noted.

ACCESS
The Access data table begins with the total state program enrollment, which is the number of children of all ages enrolled at a specific point in time. Following that is the percentage of school districts (or other local education authorities, such as counties or parishes) providing state-funded prekindergarten programs. This information shows the extent of the initiative’s geographic coverage. Next, the table shows what, if any, income requirement is used in determining eligibility for the program.

Data on the hours of operation (hours per day and days per week) and operating schedule (academic or calendar year) are shown as additional measures of access because working parents may find it difficult to get their children to and from programs that operate only a few hours a day. The amount of time children participate in a preschool program also matters for other reasons, such as influencing the program’s effects on children’s development and learning.

The Access data table also shows enrollment of 3- and 4-year-old children in two federally funded programs besides the state prekindergarten initiative: preschool special education and Head Start. The Head Start enrollment total includes children in the American Indian/Alaskan Native and migrant regions. The final item in the table reports how many children ages 3 and 4 are participating in Head Start through state supplemental funds.

Two Access pie charts illustrate the percentages of the state’s 3- and 4-year-olds enrolled in the state-funded preschool initiative(s), special education, and Head Start. The remaining children are categorized as enrolled in “Other/None.” These children may be enrolled in another type of private or publicly funded program (e.g., state-subsidized child care) or may not be attending a center-based program at all. For the 2012 Yearbook, we calculated an unduplicated count for special education enrollment in order to more accurately represent the number of children served in the state. The special education percentage in the pie chart represents children who are in special education but not enrolled in Head Start or state preschool programs. The Head Start percentage also includes any children supported by state contributions to the federal Head Start program.
QUALITY STANDARDS CHECKLIST

State policies in 10 critical areas related to quality are shown in the Quality Standards Checklist table. For each area, states receive a checkmark when their policy meets or exceeds the related benchmark standard. On the right side of the page, a box displays the total number of benchmarks met by the state.

The Quality Standards Checklist represents a set of minimum criteria established by state policy needed to ensure the effectiveness of preschool education programs, especially when serving children at risk for school failure. However, the checklist is not intended as an exhaustive inventory of all the features of a high-quality program, although each of these research-based standards is essential. While meeting all 10 standards does not necessarily guarantee that a program is of high quality, no state's prekindergarten policies should be considered satisfactory unless all 10 benchmarks are met. Although programs may routinely engage in practices meeting criteria for quality standards, credit is given only when the practices are explicitly required in state policy.

The limitations of the research are such that judgment inevitably plays a role in setting specific benchmarks based on evidence. Studies find that the potential benefits from strong preschool education programs are such that the monetary investment in pre-K is returned seven to 17 times. Therefore, we gave more weight to the risk of losing substantial benefits by setting benchmarks too low than to the risk of raising costs by setting benchmarks too high.

Costs of many preschool programs are currently quite low; thus, benchmarks steer closer to the characteristics of programs demonstrated to produce reasonably large education benefits for children in randomized trials and the strongest quasi-experimental studies (e.g., HighScope Perry Preschool and Chicago Child-Parent Centers) and farther from the characteristics of programs found in rigorous studies to have weak effects.

Of the 10 standards we use to gauge the quality of state-funded preschool programs, four involve teacher credentials and training. State preschool policies are evaluated based on whether programs require teachers to have a bachelor's degree; whether they require teachers to have specialization in preschool education; whether they require assistant teachers to have at least 15 hours of annual in-service training. Teacher qualifications receive the most emphasis in our checklist because research shows this area to be crucial in determining program quality. Better education and training for teachers can improve the interaction between children and teachers, which in turn affects children’s learning.

Class size and staff-child ratios are also emphasized in the Quality Standards Checklist, with the expectation that states will limit class sizes to 20 children at the most and have no more than 10 children per staff member. With smaller classes and fewer children per teacher, children have greater opportunities for interaction with adults and can receive more individualized attention, resulting in a higher quality program.

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4 Preschool classrooms typically are taught by a team of a teacher and an assistant. Research focusing specifically on the qualifications of assistant teachers is rare, but the available evidence points to a relationship between assistant teacher qualifications and teaching quality. Teacher qualifications receive the most emphasis in our checklist because research shows this area to be crucial in determining program quality. Better education and training for teachers can improve the interaction between children and teachers, which in turn affects children’s learning.


Early learning standards are also critical to quality as they offer programs guidance and ensure that they cover the full range of areas essential to children’s learning and development. States should have comprehensive early learning standards covering all areas identified as fundamental by the National Education Goals Panel—children’s physical well-being and motor development, social/ emotional development, approaches toward learning, language development, and cognition and general knowledge. These standards should be specifically tailored to the learning of preschool-age children so that it is appropriate for their level of development.

The Quality Standards Checklist also addresses the comprehensive services that preschool education programs should be expected to offer. Programs should provide at least one meal; 10 vision, hearing, and health screenings and referrals; and other support services, such as parent education, parent conferences and/or home visits, or referrals for such services. These items are included because children’s overall well-being and success in school involves not only their cognitive development but also their physical and social/emotional health.

It is important to note that the Quality Standards Checklist focuses on state preschool policy requirements rather than actual practice. A state with good policies may have some programs that fail to comply with these policies; conversely, a state with weak policies may have many programs that exceed state minimum standards. While evaluating implementation of standards is outside the scope of this report, the checklist does include an indicator of whether states are taking steps to monitor programs’ implementation of the quality standards. Policies requiring strong state quality standards are essential, but it is also necessary to have a means of ascertaining that individual pre-K programs meet those standards. Therefore, programs should require at a minimum that all sites are visited for program quality at least once every five years to enforce standards and ensure high-quality education in state-funded preschool programs.

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12 Families are the primary source of support for child development, and the most effective programs have partnered with parents. Bowman, Donovan, & Burns (2001). Frede (1998).

13 Monitoring of program quality and external accountability for pre-K are essential components of program standards. Bowman, Donovan, & Burns (2001).
RESOURCES

The table in the Resources section provides the following information: total state spending for the state prekindergarten initiative; whether a local match, monetary or in-kind, is required; amount of state Head Start spending (if applicable); state spending per child enrolled in the program; and all reported (local, state, and federal) spending per child enrolled in the program. These measures show various views of the resources dedicated to pre-K, which allows for a more complete picture of a state’s commitment to preschool education. For example, a state’s total spending may appear low, but may prove to be high relative to the number of children enrolled. On the other hand, a state with a high total funding level may have a low per-pupil spending level if it enrolls a large number of children. In some states, local communities contribute substantial additional funds to state preschool education by using local funding sources or leveraging federal funding sources. In such cases, the figure that includes all reported spending is the best gauge of the level of available resources, to the extent that information about local and locally allocated federal spending is available.

The bar chart in the Resources section compares per-child spending in state-funded programs to federal Head Start and K-12 per-child spending. Head Start per-child spending for the 2011-2012 year includes funding only for 3- and 4-year-olds served. Past years’ figures have unintentionally included funds for Early Head Start which made per-child amounts seem artificially higher. Different colors indicate the different funding sources (local, state, and federal). Separate colors are used to indicate any TANF funds that a state directs toward its preschool initiative. While TANF funds are federal dollars, it is the state’s decision to devote these funds to preschool education as opposed to other purposes. Data on the amounts of local and federal preschool funds are included in the bar chart when available.