Appendix 1 Data Sources

About the Workforce / Earnings & Economic Security

three major national surveys inform the first two chapters of the *Index*: the <u>National Survey of Early Care and Education</u>, 272 the <u>Occupational Employment Statistics</u> 273 survey, and the <u>Current Population Survey</u>. 274 Each survey has its own strengths and limitations, necessitating use of one or another for specific purposes.

The **National Survey of Early Care and Education (NSECE)** is a national survey of early care and education settings across the United States. It provides the most detailed, nationally representative information about the ECE workforce by setting and role. Currently, data are only available for 2012, although a follow-up study is planned for 2019, with data likely available in 2020. The NSECE allows for some limited state-level analysis, but the ability to do these analyses varies depending on the sample sizes available for any given research question, and even for the largest states (such as California), basic variables of interest (such as educational attainment by race/ethnicity or by type of program) cannot always be analyzed. In the *Index*, we use the NSECE to describe national and, where possible, state characteristics of the early educator workforce at a level that is far more detailed and relevant to existing variation in the early childhood field compared with what is available in either the Occupational Employment Statistics or the Current Population Survey.

The **Occupational Employment Statistics (OES)** is an ongoing survey of business establishments that reports data for all states but only provides basic earnings and total employment information for *employees* in broad early educator occupations, as defined by the Standard Occupational Classification of the Bureau of Labor Statistics: "childcare workers," "preschool teachers," and "education administrators: preschool/childcare center/program," as well as "kindergarten teacher" and "elementary school teacher." These data do not include the self-employed and cannot be further broken down by role or setting. In the *Index*, we use the OES survey to report comparable state data on these occupations across all states and the District of Columbia.

The **Current Population Survey (CPS)** is an ongoing survey of U.S. households that provides somewhat more detailed information for the early educator occupations listed above, as it also uses the Standard Occupational Classification of the Bureau of Labor Statistics, although it should be noted that preschool teachers cannot be distinguished from kindergarten teachers in this dataset. Unlike the OES survey, the CPS can provide estimates on self-employed as well as employee early educators. However, like the NSECE, the ability to perform state-level analyses using the CPS varies depending on the sample sizes available for any given research question. In the *Index*, we use the CPS to estimate earnings for self-employed early educators and to estimate early educator participation in a variety of public income and health care supports.

Early Childhood Workforce Policies

early childhood workforce policies across all 50 states. For the 2018 *Index*, CSCCE compiled data across each state in a two-part process. During the first stage (November-December 2017), state early care and education agency websites were reviewed to update and supplement information gathered in the 2016 *Index*. In the second stage (February-March 2018), an online survey was sent to one or more representatives from each state (child care licensing/subsidy administrators, QRIS administrators, registry administrators, etc.) to verify and supplement previously collected information. We received survey responses from at least one representative in every state but one. In the state in which we did not receive a response, we reported publicly available information from the state agency website.

In some instances, we were able to use existing data available from databases and reports covering all 50 states, such as the <u>NIEER Preschool Yearbook</u>²⁷⁵ or the <u>Quality Rating and Improvement Systems Compendium</u>.²⁷⁶

The specific data source for each policy indicator can be found under <u>State Profiles and Assessment</u>, p. 151.

Family & Income Support Policies

MANY FAMILY AND INCOME SUPPORT POLICIES ARE TRACKED across all 50 states by various research and policy organizations, such as the National Conference of State Legislatures and the National Partnership for Women & Families. We make use of several cross-state databases and reports to assess whether states provide supports for workers and families.

The specific data source for each policy indicator can be found under <u>State Profiles and Assessment</u>, p. 151.

State Context

State Context Indicators	Data Sources	Notes
Total child population under age 6	Kids Count Data Center – Child population, by single age, 2016 ²⁷⁷	Totals calculated by CSCCE.
% of children under age 6 with all available parents in the labor force	Kids Count Data Center – Children under age 6 with all available parents in the labor force, 2016 ²⁷⁸	The share of children under age 6 whose resident parents are in the civilian labor force.
% of children under age 6 in low-income working families	Kids Count Data Center – Children in low-income working families, by age group, 2016 ²⁷⁹	The share of children under age 6 living in own families that meet two criteria: 1) the family income is less than twice the federal poverty level; 2) at least one parent works 50 or more weeks during the previous year.
Number of early childhood employees	Occupational Employment Statistics, 2017 ²⁸⁰	Total includes the following occupations as defined by the Standard Occupational Classification of the U.S. Bureau of Labor Statistics: "child care workers," "preschool teachers, excluding special education," "preschool teachers, special education," "education administrators: preschool/ child care center programs." These data do not include the self-employed, although home-based child care assistants, who are employees, are likely included in the "child care worker" category. Due to the limited data available across states in the OES survey, state-based surveys or registries may provide more comprehensive estimates of the ECE workforce.

Earnings & Economic Security

Earnings & Economic Security Indicators	Data Sources	Notes
Median wage, 2015, all occupations (adjusted for inflation)	Occupational Employment Statistics, 2015 ²⁸¹	Figures for 2015 were adjusted for inflation using the CPI Inflation Calculator from the Bureau of Labor Statistics.
Median wage, 2017, all occupations	Occupational Employment Statistics, 2017 ²⁸²	
% change in median wage, all occupations, 2015 vs. 2017	Occupational Employment Statistics, 2017 ²⁸³	Figures for 2015 were adjusted for inflation using the CPI Inflation Calculator from the Bureau of Labor Statistics.
Public income support and health care program participation rates	American Community Survey, ²⁸⁴ Current Population Survey, ²⁸⁵ and program administration data	Participation rate in public income support and health care programs (Earned Income Tax Credit, Medicaid/Children's Health Insurance Program, Food Stamps, Temporary Assistance for Needy Families) for child care workers and their families. Figures available for select states in which there was a sufficient sample size (1,000 year-round child care workers or more).

Early Childhood Workforce Policies

Assessment Key for Policy Indicators							
0-4 points pe	er category		Stalled				
5-8 points pe	er category		Edging Forward				
9-12 points po	er category			Makir	ng Headway		
	Qualific	ucational Su	cational Supports				
Indicators	Values & Pa	rtial Points	Maximum Points per Indicator	Data Sources	Notes		
Minimum qualification levels (pre-K)?	Lead Teacher – BA: Yes/No	1	2	NIEER State of Preschool Yearbook, 2017 ²⁸⁶	State requires a bachelor's degree for all lead teachers in publicly funded pre-K programs.		
	Assistant Teacher – CDA/ Equivalent or higher: Yes/No	1			States requires at least a Child Development Associate Credential (CDA) or equivalent for assistant teachers in publicly funded pre-K programs.		
Minimum qualification levels (licensed centers)?	Center Director – BA: Yes/No	1		CSCCE scan of state licensing	State requires a bachelor's degree for directors of licensed child care centers.		
	Lead Teacher – BA: Yes/No	1	3		State requires a bachelor's degree for teachers who may lead groups of children in licensed child care centers.		
	Assistant Teacher – CDA/ Equivalent or higher: Yes/No	1			State requires at least a Child Development Associate® Credential (CDA) or equivalent for assistant teachers in licensed child care settings.		
Minimum qualification levels (licensed home-based)?	Lead Teacher – BA: Yes/No	1		requirements	State requires a bachelor's degree for teachers who may lead groups of children in licensed child care homes.		
	Assistant Teacher – CDA/ Equivalent or higher: Yes/No	1	2		State requires at least a Child Development Associate® Credential (CDA) or equivalent for assistant teachers in licensed child care homes.		
Scholarships to support educational pathways?	ВА	1			Scholarship funds can be applied to fees and/or tuition for coursework for a		
	AA	1			Child Development Associate® Credential (CDA) or equivalent, associate degree, or bachelor's degree.		
	CDA or equivalent	1	3	CSCCE scan of state agency websites; CSCCE survey of state representatives, 2018	Eight semester college credits or 120 clock hours of training were used as the standard for establishing equivalence with the CDA. 287 Books, paid release time, travel reimbursement, supplies, and other supports may or may not be included. Some states have more than one scholarship program.		
Collects data on scholarship recipients?	Yes/	No	2		Scholarship program collects basic data on recipients that may include total number of recipients, as well as information on demographics, geographical area, etc.		
Total			12				

Early Childhood Workforce Policies

Work Environments								
Indicators	Values & Partial Points		Maximum Points per Indicator	Data Sources	Notes			
In QRIS standards: Paid professional	Centers: Yes/No	2	4	QRIS Compendium, 2017 ²⁸⁸	State's Quality Rating and Improvement System includes this marker of quality for center- or home-based providers.			
development time?	Homes: Yes/No	2						
In QRIS standards: Paid planning/	Centers: Yes/No	2						
preparation time?	Homes: Yes/No	2						
In QRIS standards: Salary scale/	Centers: Yes/No	2	4					
benefits?	Homes: Yes/No	2						
Total			12					

Compensation & Financial Relief								
Indicators	Values & Partial Points			Maximum Points per Indicator	Data Sources	Notes		
Compensation: Salary parity for publicly funded pre-K teachers?	Parity (all) 3				State requires the same starting salary and salary schedule for teachers in state-funded pre-K programs as for teachers in K-12.			
	Parity (son	ne)	2	3	NIEER State of Preschool Yearbook, 2016 ²⁸⁹	State requires the same starting salary and salary schedule for <i>some</i> , but not <i>all</i> , publicly funded pre-K teachers.		
	Partial parit sub-parity (1			Partial Parity: State requires the same starting salary, but not the same salary schedule. Sub-Parity: Pro-rating to take account of differences in work hours is either not included or not reported.		
Compensation: Required standards (outside pre-K)?	Yes	Yes/No		3		State requires compensation standards outside of pre-K programs as a condition of public funding.		
Compensation: Standards guidelines or plans (outside	Guidelines: Yes/No		2	2	-	State has articulated compensation standards or guidelines for programs outside of publicly funded pre-K.		
pre-K)?	Plans only: Yes/No	Yes/No CSCCE scan of state agency	CSCCE scan of state agency websites; CSCCE survey of state	State has plans to develop guidelines for compensation standards or guidelines outside of publicly funded pre-K.				
Compensation: Earmarks for salaries in public funding (outside pre-K)?	Yes/No		1	representatives, 2018	State funding includes earmarks specifically for salaries outside of publicly funded pre-K.			
Financial Relief: Stipend or tax credit?	Yes/No		2		State offers a stipend or tax credit to supplement early educator pay.			
Financial Relief: Bonus?	Yes/No		1		State offers a bonus, typically a one- time award, linked to educational attainment.			
Total				12				

Early Childhood Workforce Policies

Workforce Data									
Indicators	Values & Partial Points		Maximum Points per Indicator	Data Sources	Notes				
Inclusive across settings?	Licensed+	7			State registry requires participation for directors and teaching staff in licensed settings and one or more additional settings (public pre-K programs, Head Start, and/or license-exempt child care); OR state survey samples all licensed settings and one or more additional settings (public pre-K programs, Head Start, and/or license-exempt child care).				
	All licensed settings	5			State registry requires participation for directors and teaching staff in licensed settings; OR state's survey samples all licensed settings.				
	All other: Defined, Voluntary, Not applicable	0	7	CSCCE scan of state agency websites; CSCCE survey of state representatives, 2018	States that do not fulfill the criteria of either the "licensed" or "licensed+" categories receive no points, in order to convey the importance of collecting data across the ECE workforce, regardless of setting or program funding. In practice, these are states that do not have one of these data collection mechanisms; states that have workforce registries with voluntary rather than required participation for the "licensed" or "licensed+" settings described in the text; or states with either workforce registries or surveys that include some defined sub-set of the ECE workforce (e.g., registries that require membership for all early educators participating in state-funded professional development initiatives or surveys of public pre-K teachers).				
Collects compensation data?	Wages: Yes/ No	1	- 2		State registry OR survey collects data on wages and/or benefits.				
	Benefits: Yes/ No	1	2						
Collects race/ ethnicity data?	Yes/No		2		State registry OR survey collects data on race/ethnicity of the workforce.				
Summary data reported online?	Yes/No		1		State reports online information on the early childhood workforce from their registry OR survey.				
Total			12						
			Finan	icial Resource	es				
Indicators	Values & Partial Poi	nts	Maximum Points per Indicator	Data Sources	Notes				
Pre-K per-child spending as % of K-12: Greater than 50%?	Yes/No		6	NIEER State of Preschool Yearbook, 2017 ²⁹⁰	State per-child spending on pre-K is more than 50% of state per-child spending on K-12. The <i>NIEER Yearbooks</i> are the most comprehensive source on pre-K spending by state but may underestimate sources of federal and local funding. Furthermore, they do not include special education funding, which may represent a not-insignificant proportion of total K-12 spending, depending on the state. However, there is no recent state-by-state data on K-12 special education funding, which could be used to adjust these totals to more adequately assess differences in pre-K and K-12 spending, excluding special education funding.				
State reports extra CCDBG spending?	Yes/No		Yes/No		6	Communication with <u>Center for</u> <u>Law and Social</u> <u>Policy</u> , 2018 ²⁹¹	State reported spending additional matching or Maintenance of Effort (MOE) funds for the federal Child Care Development Block Grant.		
Total			12						

Family & Income Support Policies

Income Supports							
Indicators	Values & Partial Points	Maximum Points per Indicator	Data Sources	Notes			
State Minimum Wage: Higher than federal and indexed for inflation?	Yes/No	4	Internal Revenue Service, State and Local Governments with Earned Income Tax Credit, 2018. ²⁹²	State has a minimum wage that is higher than the federal minimum wage and is indexed for inflation.			
EITC: State has refundable credit?	Yes/No	4	National Conference of State Legislatures, 2018 Minimum Wages by State, 2018. ²⁹³	State has an Earned Income Tax Credit that is refundable.			
Child & Dependent Care Tax Credit: State has refundable credit?	Yes/No	4	Tax Credits for Working Families, States Tax Credits, n.d. ²⁹⁴	State has a child care tax credit that is refundable.			
Total		12					

Health & Well-Being							
Indicators	Values & Partial Points	Maximum Points per Indicator	Data Sources	Notes			
State-wide mandated paid sick leave?	Yes/No	4	National Partnership for Women & Families, Paid Sick Days – State and District Statutes, 2018. ²⁹⁵	State has a paid sick days law.			
State-wide mandated family leave?	Yes/No	4	National Partnership for Women & Families, State Paid Family and Medical Leave Insurance Laws, 2018. ²⁹⁶	State has a paid family leave law.			
Expanded Medicaid?	Yes/No	4	Families USA, A 50-State Look at Medicaid Expansion, 2018. ²⁹⁷	State has expanded Medicaid eligibility under the provisions of the federal Affordable Care Act.			
Total		12					

Endnotes

Appendix 1: Data Sources

- 272 National Early Care and Education Survey Project Team (2015). National Survey of Early Care and Education (NSECE), 2010-2015. Retrieved from http://www.acf.hhs.gov/programs/opre/research/project/national-survey-of-early-care-and-education-nsece-2010-2014.
- 273 Bureau of Labor Statistics, U.S. Department of Labor (2015). Occupational Employment Statistics. Retrieved from www.bls.gov/oes/.
- 274 U.S. Census Bureau & the U.S. Bureau of Labor Statistics. Current Population Survey. Retrieved from http://www.census.gov/programs-surveys/cps.html.
- 275 Friedman-Krauss, A.H., Barnett, W.S., Weisenfeld, G.G., Kasmin, R., DiCrecchio, N., & Horowitz, M. (2018). The State of Preschool 2017: State Preschool Yearbook. New Brunswick, NJ: National Institute for Early Education Research. Retrieved from http://nieer.org/state-preschool-yearbooks/yearbook2017.
- 276 The Build Initiative & Child Trends (2017). A Catalog and Comparison of Quality Rating and Improvement Systems (QRIS) [Data System]. Retrieved from http://griscompendium.org/.
- 277 Retrieved from http://datacenter.kidscount.org/.
- 278 Retrieved from http://datacenter.kidscount.org/
- 279 Retrieved from http://datacenter.kidscount.org/.
- 280 Retrieved from http://stats.bls.gov/oes/home.htm.
- 281 Retrieved from http://stats.bls.gov/oes/home.htm.
- 282 Retrieved from http://stats.bls.gov/oes/home.htm.
- 283 Retrieved from http://stats.bls.gov/oes/home.htm.
- 284 Retrieved from https://www.census.gov/programs-surveys/acs/.
- 285 Retrieved from http://www.census.gov/programs-surveys/cps.html
- 286 Retrieved from http://nieer.org/state-preschool-yearbooks/yearbook2017.
- 287 Council for Professional Recognition (n.d.) CDA Credentialing Program FAQs. Retrieved from https://www.cdacouncil.orgcredentials/faqs/apply-for-cda-faqs.
- 288 Retrieved from http://qriscompendium.org/.
- 289 Retrieved from http://nieer.org/state-preschool-yearbooks/yearbook2016.
- 290 Retrieved from http://nieer.org/state-preschool-yearbooks/yearbook2017.
- 291 Retrieved from http://www.clasphome.org/.
- 292 Retrieved from https://www.irs.gov/credits-deductions/individuals/earned-income-tax-credit/states-and-local-governments-with-earned-income-tax-credit.
- 293 Retrieved from http://www.ncsl.org/research/labor-and-employment/state-minimum-wage-chart.aspx.
- 294 Retrieved from http://www.taxcreditsforworkersandfamilies.org/state-tax-credits/#1468434107561-be99920d-11c4.
- $295 \ Retrieved from \ \underline{http://www.nationalpartnership.org/research-library/work-family/psd/paid-sick-days-statutes.pdf.}$
- 296 Retrieved from https://www.irs.gov/credits-deductions/individuals/earned-income-tax-credit/states-and-local-governments-with-earned-income-tax-credit.
- 297 Retrieved from http://familiesusa.org/product/50-state-look-medicaid-expansion.



Center for the Study of Child Care Employment Institute for Research on Labor and Employment University of California, Berkeley