

Child Food Insecurity



Food insecurity has the potential to be harmful to individuals of any age, but it can be especially devastating to children. The USDA estimates that more than 11 million children in the United States lived in food-insecure households 2018. That means that 1 in 7 children (15.2%) may not have consistent access to enough food for an active, healthy life.

For the tenth consecutive year, Feeding America conducted the *Map the Meal Gap* study to improve our understanding of how food insecurity and food costs vary at the local level. This year *Map the Meal Gap* uses an updated <u>methodology</u> and is released with a companion study on the <u>potential impact</u> of COVID-19 on child food insecurity at the local level utilizing the underlying *Map the Meal Gap* model. Included here are findings related to food insecurity among children, one of four related topics that make up the *Map the Meal Gap 2020* report briefs.

Key Findings

Child Food Insecurity Among States and Congressional Districts

In all 50 states and Washington, D.C., the estimated rate of child food insecurity is higher than the rate of overall food insecurity. Child food insecurity ranges from 10% in North Dakota to 25% in Louisiana. Eighty percent of the counties with the highest rates of food insecurity are in the South, and 55% of Southern counties have child food insecurity rates greater than 21%. Among congressional districts, rates of child food insecurity span from 5% (more than 12,000 children) in affluent districts like Virginia's 10th, bordering Washington, D.C., to a high of 31% (more than 45,000 children) in Alabama's 7th, which encompasses parts of Birmingham, Montgomery and Tuscaloosa.

11.2 million

-or-

1/7 ******

children are at risk of hunger.

50

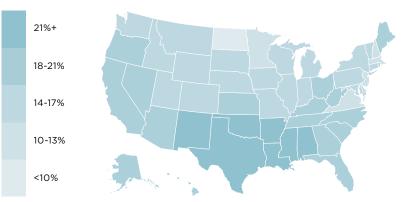
states and D.C. are home to food-insecure children.

86%

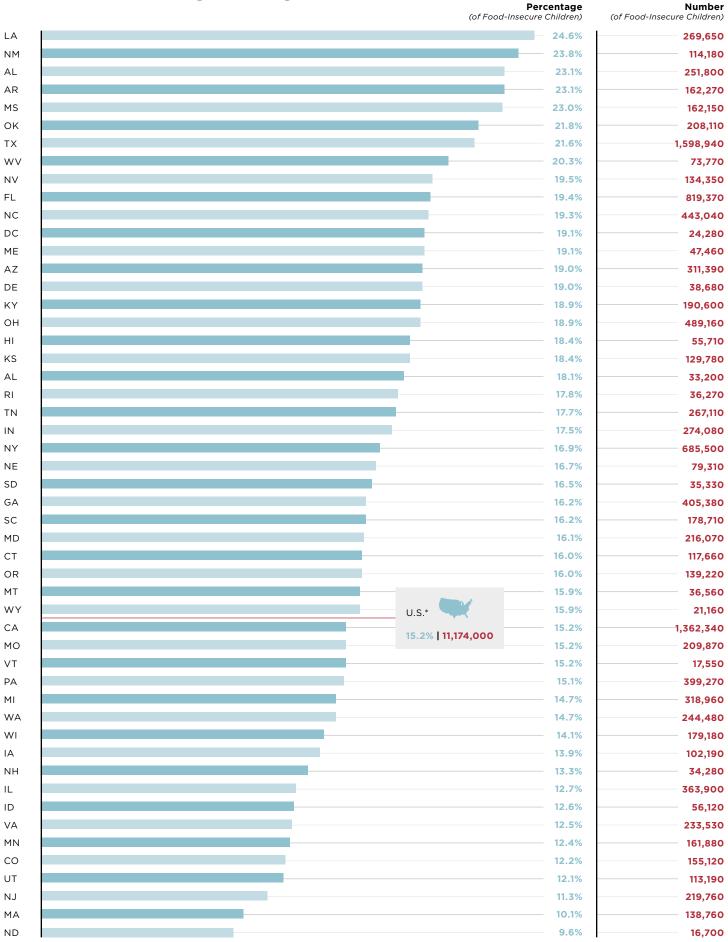
of counties with high child food insecurity are rural.

660,000

children may be food insecure in Los Angeles and New York City.

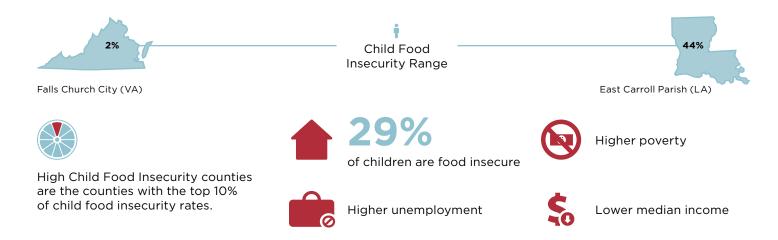


Child Food Insecurity Rates by State



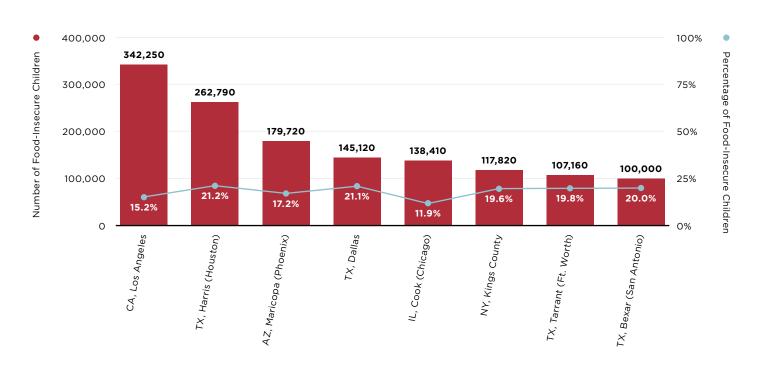
Child Food Insecurity Among Counties

Just as every state is home to food-insecure children, no county is free of child food insecurity. Rates range from 2% in Falls Church City, Virginia to 44% in East Carroll Parish, Louisiana. The variation in rates of child food insecurity shows that need is more pervasive in specific communities. Counties with the highest rates of child food insecurity have notably higher unemployment and poverty rates and lower median incomes.



Although the child food insecurity rate is one important indicator of need, even counties with more modest rates may still be home to large numbers of children whose families are food insecure. For example, the counties encompassing Los Angeles and New York City have rates of child food insecurity (15% and 18%, respectively) close to the national county average (16%). However, there is high need in both areas: more than 342,000 food-insecure children live in Los Angeles County and more than 317,000 food-insecure children live in the counties encompassing the five boroughs of New York City. Both urban and rural counties face unique challenges with food insecurity.

Counties with more than 100,000 Food-Insecure Children



Implications of Child Food Insecurity

The consequences and costs of food insecurity for all ages make addressing the issue an economic and social imperative. In particular, inadequate nutrition can stunt children's development, affecting their learning and social interaction.²

Health, Behavior and Education

There is a broad base of literature illustrating links between food insecurity and poor child health and behavioral outcomes at every age. For example, food-insecure women are more likely to experience birth complications than food-secure women³ and have iron deficiencies.⁴ One indicator of child and maternal health is low birthweight among infants,⁵ which is more common among counties with the highest rates of child food insecurity than across all counties (10% versus 8%). Furthermore, children struggling with food insecurity may be at greater risk for stunted development,⁶ anemia and asthma,^{7,8} oral health problems,⁹ hospitalization,¹⁰ mental disorders,¹¹ and lower nutrient intakes.^{12,13} Overall, food insecurity is linked with poorer physical quality of life, which may prevent children from fully engaging in daily activities.¹⁴ At school, food-insecure children are at increased risk of falling behind their food-secure peers both academically and socially; food insecurity is linked to lower grades¹⁵ and non-cognitive skills,¹⁶ and they may be more likely to exhibit behavioral problems,^{17,18} including anxiety,¹⁹ psychological distress²⁰ and substance use²¹ and to experience bullying.²²

Policy and Programs

While charitable assistance plays a critical role in helping families meet their food needs, federal nutrition programs are the first line of defense against hunger.

Federal Nutrition Programs



17 million children



5.2 million infants and children Women, Infants, and Children (WIC)

Federal School Nutrition Programs²⁴



22 million children National School Lunch Program



12.5 million children School Breakfast Program



3.7 million childrenSummer Food Service Program
+ Seamless Summer Option

Free and reduced-price lunch

Some families in need of public support, however, face challenges maintaining consistent enrollment while others may not even qualify for federal assistance. One in four food-insecure children lives in a home that is likely ineligible for these important programs, underscoring the critical role of both the public and private sector in addressing child food insecurity.²⁵ Together, these programs weave a comprehensive nutritional safety net that reaches children where they live, learn and play. Through collaborative efforts between the Feeding America network of food banks and partner agencies, policymakers, business leaders, community activists, and concerned citizens, every child in America could receive the nutrition they need.

Map the Meal Gap Methodology

To accurately estimate the number of people experiencing food insecurity in every U.S. county and congressional district, *Map the Meal Gap* uses publicly available state and local data from the U.S. Census Bureau and Bureau of Labor Statistics on factors that research has shown to contribute to food insecurity. These factors include unemployment and poverty as well as other socioeconomic and demographic characteristics. Beginning in 2020, the estimates also account for disability status, one of the key risk factors for food insecurity. In addition to measuring how pervasive the need is, the study also estimates the cost of a meal and the additional amount of dollars needed among people who are food insecure using local data from Nielsen and national survey data from the Census Bureau. More information on methodology is available online in our technical brief.



Map the Meal Gap 2020 also features report <u>briefs</u> on other topics, including an executive summary, an overview of food price variations, and an analysis of health, disability and food insecurity. Additionally, the <u>interactive map</u> allows for the exploration of food insecurity across geographies throughout the U.S.

References

- 1. United States Department of Agriculture, Economic Research Service. (2019). Household food security in the United States in 2018. Washington, D.C.: Coleman-Jensen, A., Rabbitt, M. P., Gregory, C. A., & Singh, A.
- 2. Jyoti, D.F., Frongillo, E.A., & Jones, S.J. (2005). Food insecurity affects school children's academic performance, weight gain, and social skills. Journal of Nutrition, 135(12), 2831-9.
- 3. Laraia, B. A., Siega-Riz, A., & Gundersen, C. (2010). Household food insecurity is associated with self-reported pregravid weight status, gestational weight gain and pregnancy complications. Journal of the American Dietetic Association, 110(5), 692-701.
- 4. Park, C., & Eicher-Miller, H. (2014). Iron deficiency is associated with food insecurity in pregnant females in the United States: National Health and Nutrition Examination Survey 1999-2010. Journal of the Academy of Nutrition and Dietetics, 114 (12), 1967-1973.
- 5. University of Wisconsin Population Health Institute. (2019). County Health Rankings Key Findings 2018.
- 6. Kirkpatrick, S. I., McIntyre, L., & Potestio, M. L. (2010). Child hunger and long-term adverse consequences for health. Archive of Pediatric Adolescent Medicine, 164(8), 754-762.
- 7. Eicher-Miller, H. A., Mason, A. C., Weaver, C. M., McCabe, G. P., & Boushey, C. J. (2009). Food insecurity is associated with iron deficiency anemia in US adolescents. American Journal of Clinical Nutrition, 90(5), 1358-1371.
- 8. Mangini, L., Hayward, M., Dong, Y., & Forman, M. (2015). Household food insecurity is associated with childhood asthma. Journal of Nutrition, 145 (12), 2756-2764.
- 9. Chi, D., Masterson, E., Carle, A., Mancl, L., & Coldwell, S. (2014). Socioeconomic status, food security, and dental caries in US children: Mediation analyses of data from the National Health and Nutrition Examination Survey, 2007-2008. American Journal of Public Health, 104 (5), 860-864.
- 10. Cook, P. H., Frank, D. A., Leveson, S. M., Neault, N. B., Heeren, T. C., Black, M. M., Berkowitz, C., Casey, P. H., Meyers, A. F., Cutts, D. B., & Chilton, M. (2006). Child food insecurity increases risks posed by household food insecurity to young children's health. Journal of Nutrition, 136(4), 1073-1076.
- 11. Burke, M., Martini, L., Cayir, E., Hartline-Grafton, H., & Meade, R. (2016). Severity of household food insecurity is positively associated with mental disorders among children and adolescents in the United States. Journal of Nutrition, 146 (10), 2019-2026.
- 12. King, C. (2018). Food insecurity and child behavior problems in fragile families. Economics and Human Biology, 28, 14-22.
- 13. Landry, M., van den Berg, A., Asigbee, F., Vandyousefi, S., Ghaddar, R., & Davis, J. (2019). Child-report of food insecurity is associated with diet quality in children. Nutrients, 11 (7), 1574.
- 14. Casey, P. H., Szeto, K. L., Robbins, J. M., Stuff, J. E., Connell, C., Gossett, J. M., & Simpson, P. M. (2005). Child health-related quality of life and household food security. Archives Pediatric and Adolescent Medicine, 15, 51-56.
- 15. Shanafelt, A., Hearst, M., Wang, Q., & Nanney, M. (2016). Food insecurity and rural adolescent personal health, home, and academic environments. Journal of School Health, 86(6), 472-480.
- 16. Howard, L. (2011). Does food insecurity at home affect non-cognitive performance at school? A longitudinal analysis of elementary student classroom behavior. Economics of Education Review. 30(1), 157 176.
- 17. Hobbs, S., & King, C. (2018). The unequal impact of food insecurity on cognitive and behavioral outcomes among 5-year-old urban children. Journal of Nutrition Education and Behavior, 50 (7), 687-694.
- 18. Whitsett, D., Sherman, M., & Kotchick, B. (2019). Household food insecurity in early adolescence and risk of subsequent behavior problems: Does a connection persist over time? Journal of Pediatric Psychology, 44(4), 478-489.
- 19. Whitaker, R. C., Phillips, S. M., & Orzol, S. (2006). Food insecurity and the risks of depression and anxiety in mothers and behavior problems in their pre-school-aged children. Pediatrics, 118, e859-e868.
- 20. Heflin, C., Kukla-Acevedo, S., & Darolia, R. (2019). Adolescent food insecurity and risky behaviors and mental health during the transition to adulthood. Children and Youth Services Review, 105 104416.
- 21. Baer, T., Scherer, E., Fleegler, E., & Hassan, A. (2015). Food insecurity and the burden of health-related social problems in an urban youth population. Journal of Adolescent Health, 57 (6), 601-607.
- 22. Edwards, O., & Taub, G. (2017). Children and youth perceptions of family food insecurity and bullying. School Mental Health, 9 (3), 263-272.
- 23. U.S. Department of Agriculture, Food and Nutrition Service, Office of Policy Support. (2019). Characteristics of Supplemental Nutrition Assistance Program Households: Fiscal Year 2018. Alexandria, V.A.: Kathryn Cronquist & Jenny Genser White.
- 24. United States Department of Agriculture, Food and Nutrition Service (n.d.) Child Nutrition Tables. Retrieved from https://www.fns.usda.gov/pd/child-nutrition-tables.
- 25. United States Department of Agriculture, Economic Research Service. (2019). Household food security in the United States in 2018. Washington, D.C.: Coleman-Jensen, A., Rabbitt, M. P., Gregory, C. A., & Singh, A.



