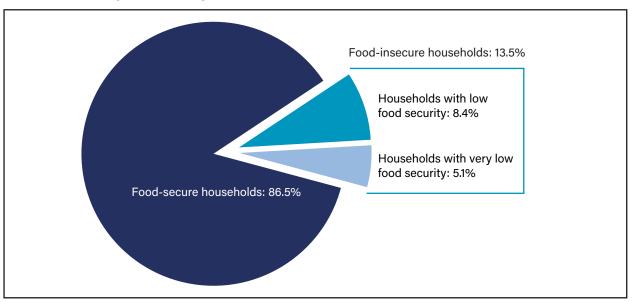
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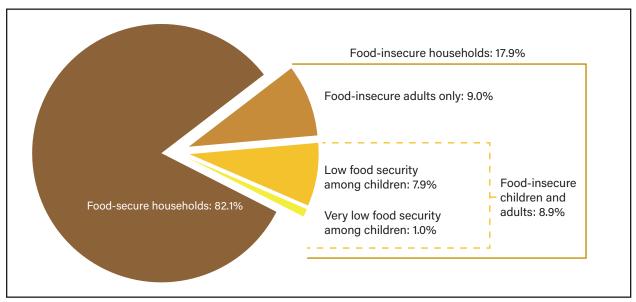
Figure 1 U.S. households by food security status, 2023



Source: USDA, Economic Research Service using U.S. Department of Commerce, Bureau of the Census, 2023 Current Population Survey Food Security Supplement data.

Among U.S. households with children under age 18, 82.1 percent were food secure in 2023. The remaining 17.9 percent of households with children (6.5 million households) were food insecure at some time in 2023 (figure 2; table 1b). Parents and caregivers often can maintain normal or near-normal diets and meal patterns for their children, even when the parents themselves are food insecure. In about half of food-insecure households with children in 2023, only adults were food insecure (9.0 percent of households with children). However, both children and adults were food insecure in 8.9 percent of households with children (3.2 million households) in 2023. In 1.0 percent of households with children (374,000 households), food insecurity among children was so severe that caregivers reported that children were hungry, skipped a meal, or did not eat for a whole day because there was not enough money for food. These households are described as having very low food security among children. Sometimes older children in such households suffer the more severe effects of food insecurity, while caregivers and other family members seek to protect younger children from those effects (Coleman-Jensen et al., 2013; Nord, 2009a).

Figure 2
U.S. households with children by food security status of adults and children, 2023



Source: USDA, Economic Research Service using U.S. Department of Commerce, Bureau of the Census, 2023 Current Population Survey Food Security Supplement data.

The food security survey is designed to measure food security status at the household level. Although it is informative to examine the number of persons living in food-insecure households, these statistics should be interpreted carefully. Within a food-insecure household, each household member may be affected differently by the household's food insecurity. Some members—particularly young children—may experience only mild or no effects, whereas adults are more severely affected. It is more precise to describe these statistics as representing "persons living in food-insecure households" rather than as representing "food-insecure persons." Similarly, "persons living in households with very low food security" is a more precise description than "persons with very low food security."

In 2023, 47.4 million people lived in food-insecure households (table 1a, middle panel). They constituted 14.3 percent of the U.S. civilian noninstitutionalized population and included 33.6 million adults (table 1a, bottom panel) and 13.8 million children (table 1b, bottom panel). About 7.2 million children (9.9 percent of children) lived in households where at least one child was food insecure. About 12.2 million adults (4.7 percent of adults) lived in households with very low food security (table 1a, bottom panel), and 841,000 children (1.2 percent of children) lived in households with very low food security among children (table 1b, bottom panel).

The percentage of households with food-insecure children was statistically significantly higher than the national average (8.9 percent) for the following groups (table 3):

- Female-headed households (18.0 percent) and male-headed households (12.4 percent);
- Households with a Black, non-Hispanic reference person (14.0 percent) or Hispanic reference person (14.0 percent); and
- Households with incomes below 100 percent of the poverty line (25.5 percent), below 130 percent of the poverty line (24.7 percent), and below 185 percent of the poverty line (20.7 percent).

Figure 5
Prevalence of food insecurity, 2022 and 2023

		ent of eholds 2023	Percentage point change	○ 2022
All households	12.8	13.5	0.7*	
Household composition				
With children < 18 years	17.3	17.9	0.6	<u> </u>
With children < 6 years	16.7	17.9	1.2 —	
Married-couple families	10.7	11.1	0.4	
Female head, no spouse	33.1	34.7	1.6	<u> </u>
Male head, no spouse	21.2	22.6	1.4 —	\triangle
With no children < 18 years	11.0	11.9	0.9*	
More than one adult	8.6	9.5	0.9*	
Women living alone	15.1	16.2	1.1 —	
Men living alone	13.8	14.0	0.2	<u> </u>
With an adult age 65+	9.1	9.3	0.2	
Adult age 65+ living alone	11.4	11.0	-0.4	\triangle
Race/ethnicity of household r	eferen	ce perso	ns	
White, non-Hispanic	9.3	9.9	0.6*	
Black, non-Hispanic	22.4	23.3	0.9	
Hispanic	20.8	21.9	1.1 —	<u>\C</u>
Other, non-Hispanic	11.0	12.0	1.0 —	\bigcirc
Household income-to-poverty	/ ratio			
Under 1.00	36.7	38.7	2.0	<u>O</u>
Under 1.30	35.2	37.3	2.1* ——	$\bigcirc \triangle$
Under 1.85	32.0	33.5	1.5 —	
1.85 and over	6.8	7.5	0.7*	\bigcirc
Area of residence				
Inside metropolitan area	12.5	13.2	0.7*	
In principal cities	15.3	15.9	0.6	<u>\C</u>
Not in principal cities	10.5	11.7	1.2*	\triangle
Outside metropolitan area	14.7	15.4	0.7	
Census geographic region				
Northeast	11.6	12.0	0.4	
Midwest	12.4	13.4	1.0	
South	14.5	14.7	0.2 —	
West	11.2	12.9	1.7*	<u> </u>
			0	10 20 30 40 Percent of households

Note: An asterisk (*) denotes the change is statistically different from zero at the 90-percent confidence level (t > 1.645).

Source: USDA, Economic Research Service using U.S. Department of Commerce, Bureau of the Census, 2022 and 2023 Current Population Survey Food Security Supplement data.

From 2022 to 2023, there were no statistically significant increases or decreases in the prevalence of very low food security for any subpopulations (figure 6). Figure 6 displays prevalence rates of very low food security for both years, as well as percentage point changes between 2022 and 2023, with asterisks (*) indicating statistically significant changes between years.

Figure 6 **Prevalence of very low food security 2022 and 2023**

		ent of eholds 2023	Percentage point change	<u> </u>	△ 2023
All households	5.1	5.1	0.0	<u> </u>	
Household composition					
With children < 18 years	5.5	5.4	-0.1		
With children < 6 years	5.4	5.2	-0.2		
Married-couple families	2.5	2.7	0.2		
Female head, no spouse	12.6	11.8	-0.8		\triangle
Male head, no spouse	7.0	8.6	1.6	\bigcirc \triangle	
With no children < 18 years	5.0	5.0	0.0	<u></u>	
More than one adult	3.7	3.6	-0.1	\bigcirc	
Women living alone	6.8	7.2	0.4		
Men living alone	6.7	6.6	-0.1	\triangle	
With an adult age 65+	3.4	3.1	-0.3		
Adult age 65+ living alone	4.6	4.2	-0.4		
Race/ethnicity of household r	eferenc	e perso	ons		
White, non-Hispanic	4.0	3.9	-0.1	\triangle	
Black, non-Hispanic	9.2	8.7	-0.5		
Hispanic	7.0	7.3	0.3		
Other, non-Hispanic	4.3	5.0	0.7		
Household income-to-poverty	/ ratio				
Under 1.00	16.7	17.0	0.3		
Under 1.30	15.6	15.6	0.0		
Under 1.85	13.5	13.8	0.3		\bigcirc
1.85 and over	2.4	2.6	0.2		
Area of residence					
Inside metropolitan area	5.0	5.0	0.0	<u> </u>	
In principal cities	6.1	5.9	-0.2		
Not in principal cities	4.2	4.4	0.2		
Outside metropolitan area	5.9	6.2	0.3		
Census geographic region					
Northeast	4.3	4.5	0.2		
Midwest	5.5	5.1	-0.4		
South	5.7	5.6	-0.1		
West	4.4	4.8	0.4		
			0		0 15 2 of households

Note: An asterisk (*) denotes the change is statistically different from zero at the 90-percent confidence level (t > 1.645).

Source: USDA, Economic Research Service using U.S. Department of Commerce, Bureau of the Census, 2022 and 2023 Current Population Survey Food Security Supplement data.

References

- Anderson, S. A. (1990). Core indicators of nutritional state for difficult-to-sample populations. *The Journal of Nutrition*, 120, 1555–1598.
- Andrews, M., Bickel, G., & Carlson, S. (1998). Household food Security in the United States in 1995: Results from the food security measurement project. *Family Economics and Nutrition Review*, 11(1/2), 17.
- Bartfeld, J., Dunifon, R., Nord, M., & Carlson, S. (2006). What factors account for state-to-state differences in food security? (Report No. EIB-20). U.S. Department of Agriculture, Economic Research Service.
- Bartfeld, J., & Men, F. (2017). Food insecurity among households with children: The role of the state economic and policy context. *Social Service Review*, *91*(4), 691–732.
- Bickel, G., Andrews, M., & Carlson, S. (1998). The magnitude of hunger: In a new national measure of food security. *Topics in Clinical Nutrition*, 13(4), 15–30.
- Bickel, G., Nord, M., Price, C., Hamilton, W. L., & Cook, J. T. (2000). *Guide to measuring household food security, Revised 2000*. U.S. Department of Agriculture, Food and Nutrition Service.
- Carlson, S. J., Andrews, M. S., & Bickel, G. W. (1999). Measuring food insecurity and hunger in the United States: Development of a national benchmark measure and prevalence estimates. *The Journal of Nutrition*, 129(2), 510S–516S.
- Coleman-Jensen, A. (2015). Commemorating 20 years of U.S. food security measurement. *Amber Waves*, U.S. Department of Agriculture, Economic Research Service, *13*(9), 1–8.
- Coleman-Jensen, A., Gregory, C. A., & Singh, A. (2014). *Household food security in the United States in 2013* (Report No. ERR-173). U.S. Department of Agriculture, Economic Research Service.
- Coleman-Jensen, A., McFall, W., & Nord, M. (2013). Food insecurity in households with children: Prevalence, severity, and household characteristics, 2010–11 (Report No. EIB-113). U.S. Department of Agriculture, Economic Research Service.
- Coleman-Jensen, A., & Rabbitt, M. (2023). *Analysis of the current population survey food security supplement split-panel test* (Report No. TB-1963). U.S. Department of Agriculture, Economic Research Service.
- Coleman-Jensen, A., Rabbitt, M. P., & Gregory, C. A. (2017). Examining an "experimental" food security status classification method for households with children (Report No. TB-1945). U.S. Department of Agriculture, Economic Research Service.
- Coleman-Jensen, A., Rabbitt, M. P., Gregory, C. A., & Singh, A. (2021). *Household food security in the United States in 2020* (Report No. ERR-298). U.S. Department of Agriculture, Economic Research Service.
- Czajka, J., Peterson, A., McGill, B., Thorn, B., & Warner-Griffin, C. (2012). *The extent and nature of underre*porting of SNAP participation in federal surveys. Prepared by Insight Policy Research, Inc., for U.S. Department of Agriculture, Food and Nutrition Service.
- Engelhard Jr., G., Rabbitt, M. P., & Engelhard, E. M. (2018). Using household fit indices to examine the psychometric quality of food insecurity measures. *Educational and Psychological Measurement*, 78(6), 1089–1107.
- Farnham, K. (2017). Evaluating nonresponse bias in the 2015 Food Security Supplement to the Current Population Survey. Memorandum for U.S. Department of Agriculture, Economic Research Service, Food Assistance Branch, from the U.S. Department of Commerce, Bureau of the Census, Demographic Statistical Methods Division.

- Fram, M. S., Frongillo, E. A., Jones, S. J., Williams, R. C., Burke, M. P., DeLoach, K. P., & Blake, C. E. (2011). Children are aware of food insecurity and take responsibility for managing food resources. *The Journal of Nutrition*, 141(6), 1114–1119.
- Gregory, C. A. (2020). Are we underestimating food insecurity? Partial identification with a Bayesian 4-parameter IRT model. *Journal of Classification*, *37*, 632–655.
- Gregory, C. A., & Coleman-Jensen, A. (2017). Food insecurity, chronic disease, and health among working-age adults (Report No. ERR-235). U.S. Department of Agriculture, Economic Research Service.
- Gregory, C. A., Mancino, L., & Coleman-Jensen, A. (2019). Food security and food purchase quality among low-income households: Findings from the National Household Food Acquisition and Purchase Survey (FoodAPS) (Report No. ERR-269). U.S. Department of Agriculture, Economic Research Service.
- Gregory, C., Rabbitt, M. P., & Ribar, D. C. (2015). The supplemental nutrition assistance program and food insecurity. In J. Bartfield, Craig Gunderson, Timothy M. Smeeding, and James P. Ziliak (Eds.), *SNAP Matters: How food stamps affect health and well-being* (pp. 74–106). Stanford University Press.
- Gundersen, C., & Gruber, J. (2001). The dynamic determinants of food insecurity. In M. Andrews & M. Prell (Eds.), *Second Food Security Measurement and Research Conference, volume II: Papers* (Vol. FANRR-11-2, pp. 92–110). U.S. Department of Agriculture, Economic Research Service.
- Gundersen, C., Kreider, B., & Pepper, J. V. (2017). Partial identification methods for evaluating food assistance programs: A case study of the causal impact of SNAP on food insecurity. *American Journal of Agricultural Economics*, 99(4), 875–893.
- Gundersen, C., & Oliveira, V. (2001). The food stamp program and food insufficiency. *American Journal of Agricultural Economics*, 83(4), 875–887.
- Hamilton, W. T., Cook, J. T., Thompson, W. W., Buron, L. F., Frongillo, J., Edward A., Olson, C. M., & Wehler, C. A. (1997a). *Household food security in the United States in 1995: Summary report of the food security measurement project.* Prepared for U.S. Department of Agriculture, Food and Nutrition Service.
- Hamilton, W. T., Cook, J. T., Thompson, W. W., Buron, L. F., Frongillo, J., Edward A., Olson, C. M., & Wehler, C. A. (1997b). Household food security in the United States in 1995: Technical Report. Prepared for U.S. Department of Agriculture, Food and Nutrition Service.
- Hanson, K. L., & Connor, L. M. (2014). Food insecurity and dietary quality in U.S. adults and children: A systematic review. *The American Journal of Clinical Nutrition*, 100(2), 684–692.
- Hoop, R., Hatch, J., Hood, E., Farber, J., & Hornick, D. (2022a). *Evaluating nonresponse bias in the 2020 Food Security Supplement to the Current Population Survey*. Memorandum for U.S. Department of Agriculture, Economic Research Service, Food Assistance Branch, from U.S. Department of Commerce, Bureau of the Census, Demographic Statistical Methods Division, Sample Design and Estimation.
- Hoop, R., Farber, J., Hornick, D., & Hood, E. (2022b). Evaluating nonresponse bias in the 2021 Food Security Supplement to the Current Population Survey. Memorandum for U.S. Department of Agriculture, Economic Research Service, Food Assistance Branch, from U.S. Department of Commerce, Bureau of the Census, Demographic Statistical Methods Division, Sample Design and Estimation.
- Hoop, R., & Zhang, W. (2023). Evaluating nonresponse bias in the 2022 Food Security Supplement to the Current Population Survey. Memorandum for U.S. Department of Agriculture, Economic Research service, Food Assistance Branch, from the U.S. Department of Commerce, Bureau of the Census, Demographic Statistical Methods Division, Sample Design and Estimation.

- Jones, J. W., Toossi, S., & Hodges, L. (2022). *The food and nutrition assistance landscape: Fiscal year 2021 annual report* (Report No. EIB-237). U.S. Department of Agriculture, Economic Research Service.
- Jones, J. W., & Toossi, S. (2024). The food and nutrition assistance landscape: Fiscal year 2023 annual report (Report No. EIB-274). U.S. Department of Agriculture, Economic Research Service.
- Leung, C. W., Epel, E. S., Ritchie, L. D., Crawford, P. B., & Laraia, B. A. (2014). Food insecurity is inversely associated with diet quality of lower-income adults. *Journal of the Academy of Nutrition and Dietetics*, 114(12), 1943–1953.
- Leung, C. W., & Tester, J. M. (2019). The association between food insecurity and diet quality varies by race/ethnicity: An analysis of National Health and Nutrition Examination Survey 2011–2014 results. *Journal of the Academy of Nutrition and Dietetics*, 119(10), 1676–1686.
- Mabli, J., Ohls, J., Dragoset, L., Canstner, L., & Santos, B. (2013). *Measuring the effect of supplemental nutrition assistance program (SNAP) participation on food security.* Prepared for U.S. Department of Agriculture, Food and Nutrition Service.
- MacLachlan, M., & C. Lowe. (2021). Food price environment: Interactive visualization. U.S. Department of Agriculture, Economic Research Service.
- Meyer, B. D., & Goerge, R. M. (2011). Errors in survey reporting and imputation and their effects on estimates of food stamp program participation. Working Paper, University of Chicago.
- Meyer, B. D., & Mittag, N. (2019). Misreporting of government transfers: How important are survey design and geography? *Southern Economic Journal*, 86(1), 230–253.
- Meyer, B. D., Mok, W. K., & Sullivan, J. X. (2009). *The under-reporting of transfers in household surveys: Its nature and consequences* (Working Paper No. 15181). National Bureau of Economic Research.
- Meyer, B. D., Mok, W. K., & Sullivan, J. X. (2015). Household surveys in crisis. *Journal of Economic Perspectives*, 29(4), 199–226.
- National Research Council (2006). Food insecurity and hunger in the United States: An assessment of the measure. In G. S. Wunderlich & J. L. Norwood (Eds.), *Committee on National Statistics, Panel to Review the U.S. Department of Agriculture's Measurement of Food Insecurity and Hunger* (Vol. 10, pp. 11578). The National Academies Press.
- Nelson, K., Brown, M. E., & Lurie, N. (1998). Hunger in an adult patient population. *Jama*, 279(15), 1211–1214.
- Nord, M. (2009a). Food insecurity in households with children: Prevalence, severity, and household characteristics (Report No. EIB-56). U.S. Department of Agriculture, Economic Research Service.
- Nord, M. (2009b). Food spending declined and food insecurity increased for middle-income and low-income house-holds from 2000 to 2007 (Report No. EIB-61). U.S. Department of Agriculture, Economic Research Service.
- Nord, M. (2012). How much does the supplemental nutrition assistance program alleviate food insecurity? Evidence from recent programme leavers. *Public Health Nutrition*, *15*(5), 811–817.
- Nord, M. (2013). Effects of the decline in the real value of SNAP benefits from 2009 to 2011 (Report No. ERR-151). U.S. Department of Agriculture, Economic Research Service.
- Nord, M., Andrews, M., & Winicki, J. (2000). Frequency and duration of food insecurity and hunger in U.S. households (Conference session). Fourth International Conference on Dietary Assessment Methods, Tucson, Arizona, United States.

- Nord, M., & Bickel, G. (2002). *Measuring children's food security in U.S. households, 1995–99* (Report No. FANRR-25). U.S. Department of Agriculture, Economic Research Service.
- Nord, M., & Coleman-Jensen, A. (2014). Improving food security classification of households with children. *Journal of Hunger & Environmental Nutrition*, 9(3), 318–333.
- Nord, M., & Golla, A. M. (2009). *Does SNAP decrease food insecurity? Untangling the self-selection effect* (Report No. ERR-85). U.S. Department of Agriculture, Economic Research Service.
- Nord, M., & Hanson, K. (2012). Adult caregiver reports of adolescents' food security do not agree well with adolescents' own reports. *Journal of Hunger & Environmental Nutrition*, 7(4), 363–380.
- Nord, M., & Hopwood, H. (2007). Recent advances provide improved tools for measuring children's food security. *The Journal of Nutrition*, 137(3), 533–536.
- Nord, M., Jemison, K., & Bickel, G. (1999). *Prevalence of food insecurity and hunger, by state, 1996–1998* (Report No. FANRR-2). U.S. Department of Agriculture, Economic Research Service.
- Nord, M., & Kantor, L. S. (2006). Seasonal variation in food insecurity is associated with heating and cooling costs among low-income elderly Americans. *The Journal of Nutrition*, 136(11), 2939–2944.
- Nord, M., & Prell, M. (2011). Food security improved following the 2009 ARRA increase in SNAP benefits (Report No. ERR-116). U.S. Department of Agriculture, Economic Research Service.
- Ohls, J. C., L. Radbill, L. M., & Schirm, A. L. (2001). *Household food security in the United States, 1995–1997: Technical issues and statistical report.* Prepared for the U.S. Department of Agriculture, Food and Nutrition Service.
- Oliveira, V. J., & Rose, D. (1996). Food expenditure estimates from the 1995 CPS Food Security Supplement: How do they compare with the consumer expenditure survey? (Staff Report No. AGES9617). U.S. Department of Agriculture, Economic Research Service.
- Parker, J. (2011). SNAP misreporting on the CPS: Does it affect poverty estimates? (Social, Economic, and Housing Statistics Division Working Paper No. 2012-1). U.S. Department of Commerce, Bureau of the Census.
- Rabbitt, M. P., & Coleman-Jensen, A. (2017). Rasch analyses of the standardized Spanish translation of the U.S. household food security survey module. *Journal of Economic and Social Measurement*, 42(2), 171–187.
- Rabbitt, M. P. (2014). Measuring the effect of supplemental nutrition assistance program participation on food insecurity using a behavioral Rasch selection model (No. 13-20). University of North Carolina at Greensboro, Department of Economics Working Paper Series.
- Rabbitt, M. P. (2018). Causal inference with latent variables from the Rasch model as outcomes. *Measurement*, 120, 193-205.
- Rabbitt, M. P., Hales, L., J., Burke, M. P., & Coleman-Jensen, A. (2023). *Household food security in the United States in 2022* (Report No. ERR-325). U.S. Department of Agriculture, Economic Research Service.
- Rabbitt, M. P., & Beymer, M. R. (2024). *Comparing food insecurity among the U.S. military and civilian adult populations* (Report No. ERR-331). U.S. Department of Agriculture, Economic Research Service.
- Rabbitt, M. P., Reed-Jones, M., Hales, L. J., & Burke, M. P. (2024). *Statistical supplement to household food security in the United States in 2023* (Report No. AP-124). U.S. Department of Agriculture, Economic Research Service.

- Rabbitt, M. P., Engelhard, G., & Jennings, J. K. (2021). Assessing the dimensionality of food-security measures. *Journal of Economic and Social Measurement*, 45(3–4), 183–213.
- Ratcliffe, C., McKernan, S.-M., & Zhang, S. (2011). How much does the supplemental nutrition assistance program reduce food insecurity? *American Journal of Agricultural Economics*, 93(4), 1082–1098.
- Ryu, J.-H., & Bartfeld, J. S. (2012). Household food insecurity during childhood and subsequent health status: The early childhood longitudinal study—Kindergarten cohort. *American Journal of Public Health*, 102(11), e50–e55.
- Scherpf, E., Newman, C., & Prell, M. (2015). *Improving the assessment of SNAP targeting using administrative records* (Report No. ERR-186). U.S. Department of Agriculture, Economic Research Service.
- Tiehen, L., Newman, C., & Kirlin, J. A. (2017). *The food spending patterns of SNAP households: Findings from the national food acquisition and purchase survey data* (Report No. EIB-176). U.S. Department of Agriculture, Economic Research Service.
- U.S. Department of Agriculture. (2021). *Thrifty food plan, 2021* (Report No. FNS-916). U.S. Department of Agriculture.
- U.S. Department of Agriculture, Center for Nutrition Policy and Promotion. (2024). Official USDA thrifty food plan: U.S. average, December 2023. U.S. Department of Agriculture, Center for Nutrition Policy and Promotion.
- U.S. Department of Agriculture, Food and Nutrition Service, Office of Policy Support. (2022). *Characteristics of supplemental nutrition assistance program households: Fiscal year 2020* (SNAP-21-CHAR). U.S. Department of Agriculture, Food and Nutrition Service, Office of Policy Support.
- U.S. Department of Labor, Bureau of Labor Statistics (2024). *The employment situation—December 2023* (USDL-24-0006). (Press release).
- Wilde, P., & Nord, M. (2005). The effect of food stamps on food security: A panel data approach. *Review of Agricultural Economics*, 27(3), 425–432.
- Wilde, P. E., Nord, M., & Zager, R. E. (2010). In longitudinal data from the survey of program dynamics, 16.9% of the U.S. population was exposed to household food insecurity in a 5-year period. *Journal of Hunger & Environmental Nutrition*, 5(3), 380–398.
- Yen, S. T., Andrews, M., Chen, Z., & Eastwood, D. B. (2008). Food stamp program participation and food insecurity: An instrumental variables approach. *American Journal of Agricultural Economics*, 90(1), 117–132.
- Zizza, C. A., Duffy, P. A., & Gerrior, S. A. (2008). Food insecurity is not associated with lower energy intakes. *Obesity*, *16*(8), 1908–1913.