

Infants and Toddlers: Food Group and Nutrient Intakes

2020 Dietary Guidelines Advisory Committee Supplementary Data Analysis

Published date: July 15, 2020

U.S. Department of Agriculture 1400 Independence Avenue SW Washington, DC 20250 U.S. Department of Health and Human Services
200 Independence Avenue SW
Washington, DC 20201

Data analysis was used by the 2020 Dietary Guidelines Advisory Committee to describe the current health and dietary intakes of Americans. The data analysis team supported the work of the 2020 Dietary Guidelines Advisory Committee by conducting the analyses. The team, which is comprised of Federal scientists with advanced degrees in nutrition, statistics, and epidemiology, included scientists from the following Departments and agencies:

United States Department of Agriculture (USDA)

Center for Nutrition Policy and Promotion; Food and Nutrition Service; Food, Nutrition, and Consumer Services

Agricultural Research Service; Research, Education, and Economics

United States Department of Health and Human Services (HHS)

Office of Disease Prevention and Health Promotion; Office of the Assistant Secretary for Health National Cancer Institute; National Institutes of Health

National Center for Health Statistics; Centers for Disease Control and Prevention

The results of the data analyses for the 2020 Advisory Committee Project are available at: https://www.dietaryguidelines.gov/2020-advisory-committee-report/data-analysis. Data analyses were used to address topics and supporting scientific questions from USDA and HHS. The results should not be interpreted as dietary guidance. To view the results in the context of the 2020 Advisory Committee's Scientific Report visit: https://www.dietaryguidelines.gov/2020-advisory-committee-report.

Suggested citation for this data supplement: 2020 Dietary Guidelines Advisory Committee and Data Analysis Team. *Data Supplement: Infants and Toddlers Food Group and Nutrient Intakes.* 2020 Dietary Guidelines Advisory Committee Project. Washington, DC: U.S. Department of Agriculture and U.S. Department of Health and Human Services.

Related citation: Dietary Guidelines Advisory Committee. 2020. Scientific Report of the 2020 Dietary Guidelines Advisory Committee: Advisory Report to the Secretary of Agriculture and the Secretary of Health and Human Services. U.S. Department of Agriculture, Agricultural Research Service, Washington, DC.

This data supplement is being published by the USDA. The contents of this document may be used and reprinted without permission. Endorsements by the USDA of derivative products developed from this work may not be stated or implied. More information about the sources of the analysis is available at the bottom of In accordance with Federal civil rights law and USDA civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at How to File a Program Discrimination Complaint and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690-7442; or (3) email: program.intake@usda.gov.

USDA is an equal opportunity provider, employer, and lender.

ACKNOWLEDGEMENTS

Data Analysis and Food Pattern Modeling Cross-Cutting Working Group:

- Regan Bailey, PhD, MPH, RD, Purdue University, Working Group Chair
- Jamy Ard, MD, Wake Forest School of Medicine
- Teresa Davis, PhD, Baylor College of Medicine
- Timothy Naimi, MD, MPH, Boston University
- Jamie Stang, PhD, MPH, RD, University of Minnesota
- Barbara Schneeman, PhD, University of California, Davis, Chair of the 2020 Dietary Guidelines Advisory Committee

Data Analysis Team:

- TusaRebecca Pannucci, PhD, MPH, RD, Center for Nutrition Policy and Promotion, Food and Nutrition Service, U.S. Department of Agriculture (USDA), Team Lead
- Jaspreet Ahuja, Methods of Application of Food Composition Laboratory, Agricultural Research Service, USDA
- Joseph Goldman, MA, Food Surveys Research Group, Agricultural Research Service, USDA
- Heather C. Hamner, PhD, MS, MPH, Division of Nutrition, Physical Activity, and Obesity, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services (HHS)
- Kirsten Herrick, PhD, MSc, National Cancer Institute, National Institutes of Health, HHS
- Hazel Hiza, PhD, RD, Center for Nutrition Policy and Promotion, Food and Nutrition Service, USDA
- Kristin Koegel, MBA, RD, Center for Nutrition Policy and Promotion, Food and Nutrition Service, USDA
- Kevin Kuczynski, MS, RD, Center for Nutrition Policy and Promotion, Food and Nutrition Service, USDA
- Alanna Moshfegh, MS,RD, Food Surveys Research Group, Agricultural Research Service, USDA
- Melissa Nickle, MS, Food Surveys Research Group, Agricultural Research Service, USDA
- Lauren O'Conner, PhD, MPH, National Cancer Institute, National Institutes of Health, HHS
- Cynthia Ogden, PhD, MRP, National Center for Health Statistics, Centers for Disease Control and Prevention, HHS
- Jill Reedy, PhD, MPH, RD, National Cancer Institute, National Institutes of Health, HHS
- Donna Rhodes, MS, RD, Food Surveys Research Group, Agricultural Research Service, USDA
- Marissa Shams-White, PhD, MS, MPH, National Cancer Institute, National Institutes of Health, HHS

- Cheyenne Swanson, MS (through February 2020), Panum Group
- Edwina Wambogo, PhD, MPH, RD, Office of Dietary Supplements, National Institutes of Health, HHS

Federal Liaison:

 Kellie O Casavale, PhD, RD, Center for Food Safety and Applied Nutrition, Office of Nutrition and Food Labeling, HHS

Project Leadership:

- Eve Stoody, PhD, Designated Federal Officer and Director, Office of Nutrition Guidance and Analysis, Center for Nutrition Policy and Promotion, Food and Nutrition Service, USDA
- Janet de Jesus, MS, RD, Nutrition Advisor, Office of Disease Prevention and Health Promotion, Office of the Assistant Secretary for Health, HHS

INTRODUCTION

The Data Supplement for Infants and Toddlers: Food Group and Nutrient Intakes includes the results of the data analyses conducted for the 2020 Dietary Guidelines Advisory Committee by the data analysis team. The findings are further summarized within the Scientific Report of the 2020 Dietary Guidelines Advisory Committee (see Part D: Chapter 1), available at: https://www.dietaryguidelines.gov/2020-advisory-committee-report.

The Advisory Committee, with support from Federal staff, developed a protocol, or plan, that described how the scientific questions would be addressed using data analysis. The protocol included an *analytic framework* that described the overall scope and the approach used to answer the question and an *analytic plan* that detailed the data and subsequent analysis to be considered. More information on the data analyses conducted for the 2020 Dietary Guidelines Advisory Committee, including the protocols, is available at: https://www.dietaryguidelines.gov/2020-advisory-committee-report/data-analysis.

The Committee examined a collection of analyses to answer these questions. Key nationally representative, Federal data sources included the National Health and Nutrition Examination Survey (NHANES), the National Health Interview Survey (NHIS), and Surveillance, Epidemiology and End Results (SEER). More information about the data source used in the analysis is available at the bottom of each table of results (pages 7-19).

The Committee developed conclusion statements for each question answered using data analysis. The conclusion statements describe the state of the science, based on the evidence considered, in order to answer the specific question examined. The conclusion statements are described in the 2020 Dietary Guidelines Advisory Committee's Scientific Report, available at: https://www.dietaryguidelines.gov/2020-advisory-committee-report.

The results of the data analyses for Infants and Toddlers: Food Group and Nutrient Intakes are displayed in figures 1-5 and tables 1-8 on the following pages.

LIST OF FIGURES AND TABLES

The Data Analysis Supplement for Infants and Toddlers: Food Group and Nutrient Intakes includes the following tables:

Figure 1. Breastfeeding initiation, duration, and exclusivity; National Immunization Survey 2017-2018, among infants born in 2015	pg. 7
Figure 2. Breastfeeding initiation and duration by race/ethnicity; National Immunization Survey 2017-2018, among infants born in 2015	pg. 8
Figure 3. Breastfeeding exclusivity by race/ethnicity; National Immunization Survey 2017-2018, among infants born in 2015.	pg. 9
Figure 4. Timing of introduction of complementary foods and beverages; National Survey of Children's Health, 2016-2018.	pg. 10
Figure 5. Introduction to complementary foods and beverages <4 months, by milk source at 4 months; National Survey of Children's Health, 2016-2018	pg. 11
Table 1. Percentage of infants 6-11 months old reporting FPED quantities from complementary foods by milk reporting status, day 1, 2007-2016	pg. 12
Table 2. Percentage of children 12-23 months old reporting FPED quantities, day 1, 2007-2016	pg. 13
Table 3. Mean intake of FPED quantities from complementary foods of infants 6-11 months old by milk reporting status, day 1, 2007-2016	pg. 14
Table 4. Mean intake of FPED quantities of children 12-23 months old, day 1, 2007-2016	pg. 15
Table 5. Mean daily intake of nutrients from complementary foods of infants 6-11 months old by milk reporting status, day 1, 2007-2016	pg. 16
Table 6. Mean daily intake of nutrients from complementary foods and dietary supplements of infants 6-11 months old by milk reporting status, day 1, 2007-2016	pg. 17
Table 7. Mean daily intake of nutrients from foods, beverages, and dietary supplements of children 12-23 months old, day 1, 2007-2016	pg. 18
Table 8. Mean daily intake of nutrients from foods, beverages, and dietary supplements of children 12-23 months old, day 1, 2007-2016	pg. 19

Figure 1. Breastfeeding initiation, duration, and exclusivity; National Immunization Survey 2017-2018, among infants born in 2015

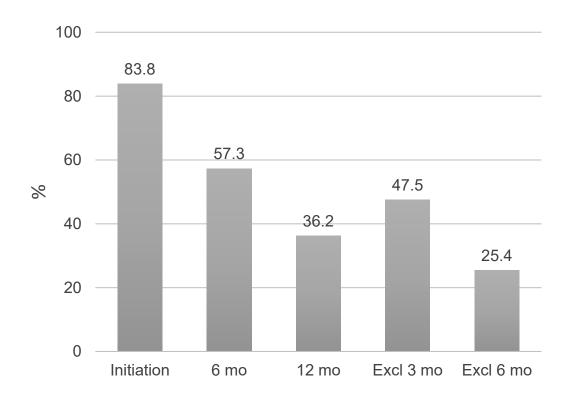


Figure 2. Breastfeeding initiation and duration by race/ethnicity; National Immunization Survey 2017-2018, among infants born in 2015

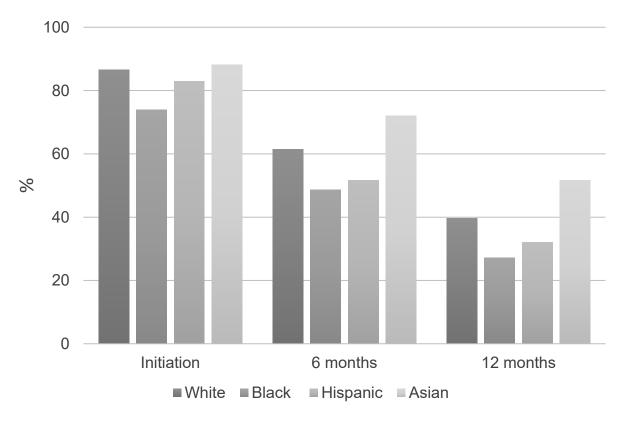


Figure 3. Breastfeeding exclusivity by race/ethnicity; National Immunization Survey 2017-2018, among infants born in 2015

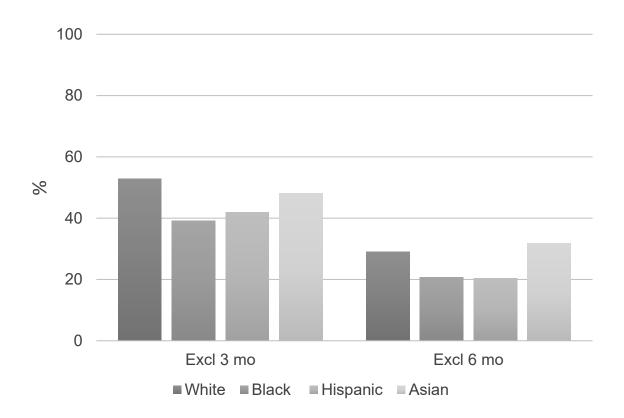


Figure 4. Timing of introduction of complementary foods and beverages; National Survey of Children's Health, 2016-2018

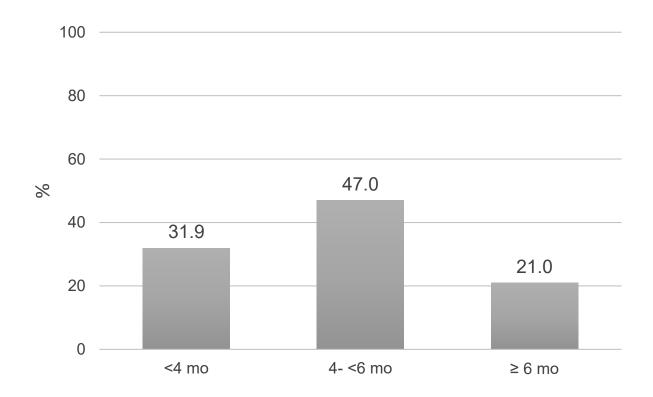


Figure 5. Introduction to complementary foods and beverages <4 months, by milk source at 4 months; National Survey of Children's Health, 2016-2018

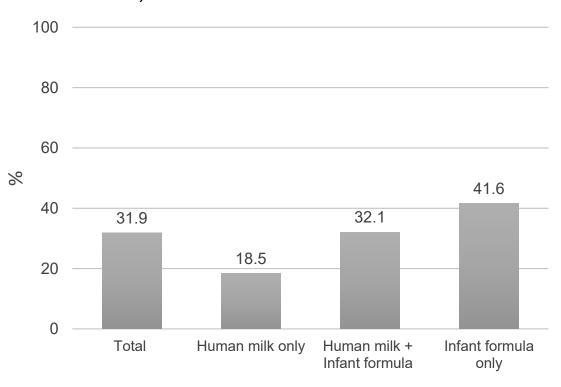


Table 1. Percentage of infants 6-11 months old reporting FPED quantities from complementary foods by milk reporting status, day 1, 2007-2016

	Percentages and standard errors					
	All infants 6-11 mo. (N = 988)			n milk oup		nula oup
			(N =	141)	(N = 847)	
	%	se	%	se	%	se
Fruit:						
Total	84	(1.3)	75	(3.7)	86	(1.1)
Citrus, melon, berry	18	(1.4)	18	(2.4)	17	(1.7)
Other fruit	74	(1.8)	70	(3.6)	75	(1.9)
Juice	40	(2.2)	20	(4.4)	45	(2.2)
Grain:						
Total	89	(1.2)	81	(3.1)	91	(1.1)
Whole	59	(2.4)	51	(4.1)	61	(2.7)
Refined	80	(1.7)	68	(4.5)	83	(1.7)
Oil	57	(2.1)	46	(4.5)	59	(2.4)
Solid fat	60	(1.6)	49	(3.9)	62	(1.7)
Added sugars	63	(2.1)	55	(4.3)	64	(2.0)
Vegetables:						
Total excluding legumes	79	(1.7)	76	(3.8)	80	(1.7)
Total starchy	42	(1.7)	37	(4.6)	43	(2.1)
Potatoes	27	(1.1)	18	(3.7)	29	(1.5)
Other starchy	30	(1.7)	28	(4.3)	31	(2.0)
Total red / orange	64	(2.0)	59	(4.6)	66	(2.1)
Tomatoes	18	(1.6)	12	(2.7)	19	(1.9)
Other red / orange	57	(2.1)	55	(5.3)	57	(2.2)
Dark green	6	(1.3)	6†	(1.9)	6	(1.5)
Other	29	(2.1)	36	(5.3)	28	(2.4)
Legume	6	(0.8)	6†	(1.6)	6	(0.9)
Total including legumes	80	(1.6)	76	(3.8)	81	(1.7)
Protein foods:						
Total excluding legumes	47	(2.1)	33	(3.7)	50	(2.3)
Total meat, poultry, seafood	41	(1.8)	25	(3.7)	44	(2.1)
Meat (beef, veal, pork, etc.)	14	(1.1)	7†	(2.4)	16	(1.3)
Poultry	28	(1.7)	18	(3.6)	30	(2.0)
Cured meat	7	(1.0)	3†	(0.9)	8	(1.3)
Total fish and seafood	1†	(0.4)	#	, í	1†	(0.4)
Eggs	19	(1.7)	17	(3.1)	19	(1.7)
Peanuts, nuts, seeds	2	(0.6)	3†	(1.3)	2	(0.7)
Soy products except soy milk	3	(0.7)	2†	(1.2)	3	(0.8)
Legumes computed as protein	6	(0.8)	6†	(1.6)	6	(0.9)
Total including legumes	49	(2.2)	35	(3.4)	51	(2.4)
Dairy:						
Total	45	(1.8)	40	(4.2)	46	(1.7)
Fluid milk	34	(1.3)	24	(3.2)	36	(1.4)
Cheese	19	(1.2)	10	(2.5)	21	(1.4)
Yogurt	11	(1.5)	17	(3.1)	10	(1.4)

NOTES: † indicates an estimate that may be less precise than others due to small sample size and/or large relative standard error.

2020 Dietary Guidelines Advisory Committee Data Supplement: Infants and Toddlers https://www.dietaryguidelines.gov/2020-advisorycommittee-report/data-analysis

[#] indicates a non-zero value too small to present. Sample based on age at Mobile Examination Center. Complementary foods include all foods and beverages except human milk and infant formula. Milk reporting status determined by the report of human milk on either day 1 or day 2.

Table 2. Percentage of children 12-23 months old reporting FPED quantities, day 1, 2007-2016

	Percenta standare		
	(N = 1242)		
	%	se	
Fruit:			
Total	94	(0.7)	
Citrus, melon, berry	40	(1.9)	
Other fruit	75	(1.6)	
Juice	66	(1.9)	
		` ,	
Grain:			
Total	99†	(0.3)	
Whole	73	(2.0)	
Refined	99	(0.4)	
0.3	07	(0.5)	
Oil	97	(0.5)	
Solid fat	100†	(0.2)	
Added sugars	98	(0.5)	
Vegetables:			
Total excluding legumes	90	(1.4)	
Total starchy	55	(1.7)	
Potatoes	42	(1.6)	
Other starchy	27	(1.7)	
Total red / orange	70	(2.1)	
Tomatoes	53	(2.1)	
Other red / orange	34	(2.0)	
Dark green	13	(1.2)	
Other	56	(1.7)	
Legume	14	(1.4)	
Total including legumes	92	(1.2)	
Protein foods:	0.5	(O =)	
Total excluding legumes	95 95	(0.7)	
Total meat, poultry, seafood	87	(1.3)	
Meat (beef, veal, pork, etc.)	38	(2.1)	
Poultry	47	(2.1)	
Cured meat	38	(1.6)	
Total fish and seafood	6	(0.7)	
Eggs	57	(1.9)	
Peanuts, nuts, seeds	22	(1.6)	
Soy products except soy milk	8	(0.6)	
Legumes computed as protein	15	(1.4)	
Total including legumes	96	(0.7)	
Dairy:			
Total	99	(0.3)	
Fluid milk	96	(0.5)	
Cheese	66	(2.2)	
Yogurt	22	(1.4)	
		\ · /	

NOTES: † indicates an estimate that may be less precise than others due to small sample size and/or large relative standard error.

indicates a non-zero value too small to present.

Sample based on age at Mobile Examination Center, includes breast-fed children (n = 101).

Page 13

Table 3. Mean intake of FPED quantities from complementary foods of infants 6-11 months old by milk reporting status, day 1, 2007-2016

	Means and standard errors							
	All infants 6-11 mo.			Human milk group			Formula group	
	(N=988)			(N=154)			(N =	834)
	Mean	se		Mean	se		Mean	se
Fruit (cup eq):								
Total	0.62	(0.021)		0.44	(0.042)		0.66	(0.024)
Citrus, melon, berry	0.03	(0.007)		0.03	(0.010)		0.03	(0.009)
Other fruit	0.40	(0.019)		0.36	(0.038)		0.41	(0.021)
Juice	0.19	(0.012)		0.05†	(0.018)		0.22	(0.012)
Grain (oz eq):								
Total	1.07	(0.035)		0.74	(0.066)		1.14	(0.050)
Whole	0.32	(0.020)		0.26	(0.046)		0.33	(0.024)
Refined	0.75	(0.036)		0.48	(0.031)		0.81	(0.045)
Oil (g)	1.7	(0.16)		1.7	(0.36)		1.7	(0.18)
Solid fat (g)	3.3	(0.21)		1.6	(0.22)		3.7	(0.25)
Added sugars (tsp eq)	1.0	(0.07)		0.9	(0.13)		1.0	(0.07)
Vegetables (oz eq):								
Total excluding legumes	0.39	(0.018)		0.33	(0.039)		0.40	(0.022)
Total starchy	0.11	(0.006)		0.08	(0.013)		0.11	(0.009)
Potatoes	0.05	(0.003)		0.03	(0.009)		0.06	(0.005)
Other starchy	0.05	(0.005)	İ	0.04	(0.008)	ĺ	0.05	(0.006)
Total red / orange	0.21	(0.012)	İ	0.16	(0.023)	ĺ	0.22	(0.014)
Tomatoes	0.03	(0.003)	İ	0.01†	(0.004)	ĺ	0.03	(0.004)
Other red / orange	0.18	(0.013)	İ	0.15	(0.023)	ĺ	0.19	(0.015)
Dark green	0.01	(0.003)	İ	$0.01\dagger$	(0.005)	ĺ	$0.01\dagger$	(0.003)
Other	0.07	(0.007)	i	0.08	(0.020)	ĺ	0.06	(0.008)
Legume	0.01	(0.002)	İ	$0.02\dagger$	(0.007)	ĺ	0.01	(0.002)
Total including legumes	0.40	(0.018)	İ	0.34	(0.038)	İ	0.41	(0.023)
Protein foods (oz eq):								
Total excluding legumes	0.48	(0.039)		0.30	(0.051)		0.52	(0.045)
Total meat, poultry, seafood	0.39	(0.034)	İ	0.22	(0.041)	ĺ	0.44	(0.040)
Meat (beef, veal, pork, etc.)	0.12	(0.014)	İ	0.06†	(0.022)	ĺ	0.13	(0.016)
Poultry	0.21	(0.024)	İ	0.14	(0.028)	ĺ	0.22	(0.028)
Cured meat	0.06	(0.018)	İ	$0.01\dagger$	(0.011)	ĺ	0.08	(0.022)
Total fish and seafood	0.01†	(0.003)	İ	#		ĺ	$0.01\dagger$	(0.004)
Eggs	0.07	(0.011)		0.04†	(0.014)		0.08	(0.013)
Peanuts, nuts, seeds	0.01†	(0.005)		0.03†	(0.020)		0.01^{+}	(0.003)
Soy products except soy milk	0.01†	(0.002)		0.01†	(0.010)		#	
Legumes computed as protein	0.05	(0.010)	İ	0.06†	(0.028)	ĺ	0.05	(0.010)
Total including legumes	0.53	(0.039)	ĺ	0.37	(0.041)	Ì	0.57	(0.045)
Dairy (cup eq):								
Total	0.26	(0.021)		0.12	(0.025)		0.30	(0.024)
Fluid milk	0.17	(0.018)		0.03	(0.010)	j	0.20	(0.022)
Cheese	0.05	(0.007)		0.03†	(0.013)	İ	0.06	(0.008)
Yogurt	0.04	(0.006)	1	0.05	(0.013)	- 1	0.04	(0.006)

NOTES: † indicates an estimate that may be less precise than others due to small sample size and/or large relative standard error.

indicates a non-zero value too small to present. Sample based on age at Mobile Examination Center.

Complementary foods include all foods and beverages except human milk and infant formula.

Milk reporting status determined by the report of human milk on day 1.

2020 Dietary Guidelines Advisory Committee Data Supplement: Infants and Toddlers https://www.dietaryguidelines.gov/2020-advisorycommittee-report/data-analysis Page 14

Table 4. Mean intake of FPED quantities of children 12-23 months old, day 1, 2007-2016

Means	and
standard	errors

(N = 1242)

	(14 – 1	1242)
	Mean	se
Fruit (cup eq):		
Total	1.25	(0.042)
Citrus, melon, berry	0.15	(0.012)
Other fruit	0.54	(0.012) (0.027)
Juice	0.56	(0.035)
Grain (oz eq):		
Total	3.07	(0.092)
Whole	0.50	(0.027)
Refined	2.56	(0.083)
Oil (g)	8.4	(0.22)
Solid fat (g)	24.7	(0.55)
Added sugars (tsp eq)	6.2	(0.20)
Vegetables (oz eq):		
Total excluding legumes	0.52	(0.017)
Total starchy	0.18	(0.010)
Potatoes	0.13	(0.008)
Other starchy	0.05	(0.005)
Total red / orange	0.18	(0.009)
Tomatoes	0.11	(0.008)
Other red / orange	0.07	(0.006)
Dark green	0.03	(0.004)
Other	0.13	(0.011)
Legume	0.04	(0.005)
Total including legumes	0.56	(0.018)
Protein foods (oz eq):		
Total excluding legumes	1.94	(0.052)
Total meat, poultry, seafood	1.50	(0.041)
Meat (beef, veal, pork, etc.)	0.34	(0.025)
Poultry	0.68	(0.042)
Cured meat	0.41	(0.026)
Total fish and seafood	0.08	(0.012)
Eggs	0.28	(0.018)
Peanuts, nuts, seeds	0.14	(0.018)
Soy products except soy milk	0.02	(0.003)
Legumes computed as protein	0.17	(0.020)
Total including legumes	2.11	(0.057)
Dairy (cup eq):		
Total	2.56	(0.072)
Fluid milk	2.11	(0.054)
Cheese	0.35	(0.031)
Yogurt	0.09	(0.007)

NOTES: † indicates an estimate that may be less precise than others due to small sample size and/or large relative standard error. # indicates a non-zero value too small to present.

Sample based on age at Mobile Examination Center, includes breast-fed children (n = 101).

Table 5. Mean daily intake of nutrients from complementary foods of infants 6-11 months old by milk reporting status, day 1, 2007-2016

All infants $6-11 \text{ mo}$. 988 Human milk 9000 group 9834 988	
Mean se Mean se Mean se	
Energy (Iron) 201 (0.5) 204 (12.0) 244 (11	
	1.8)
	53)
	.7)
	.8)
Dietary fiber (g)	18)
Total fat (g)	47)
Saturated fat (g)	16)
Monounsaturated fat (g)	17)
Polyunsaturated fat (g)	11)
	10)
PFA 18:3 (g) 0.2 (0.01) 0.1 (0.01) 0.2 (0.01)	01)
Cholesterol (mg)	.4)
Retinol (mcg)	.2)
	3.0)
Alpha-carotene (mcg)	3.8)
Beta-carotene (mcg)	9.0)
Beta-cryptoxanthin (mcg)	.6)
Lycopene (mcg)	(0.6)
	2.4)
Thiamin (mg))18)
Riboflavin (mg))17)
	24)
Vitamin B6 (mg))17)
Folic acid (mcg)	.1)
Food folate (mcg)	.0)
	.5)
	.8)
Vitamin B12 (mcg) 0.70 (0.045) 0.42 (0.040) 0.77 (0.0	156)
Vitamin C (mg)	14)
Vitamin D (mcg)	
	080)
Vitamin K (mcg)	23)
Calcium (mg)).1)
Phosphorus (mg)	.6)
Magnesium (mg)	.9)
Iron (mg)	36)
Zinc (mg)	10)
Copper (mg) 0.24 (0.008) 0.19 (0.012) 0.25 (0.0	10)
	79)
Potassium (mg)	9.7)
	1.3)
	06)
Theobromine (mg)	21)

NOTES: † indicates an estimate that may be less precise than others due to small sample size and/or large relative standard error.

indicates a non-zero value too small to present. Sample based on age at Mobile Examination Center.

Complementary foods include all foods and beverages except human milk and infant formula.

Milk reporting status determined by the report of human milk on day 1.

2020 Dietary Guidelines Advisory Committee Data Supplement: Infants and Toddlers https://www.dietaryguidelines.gov/2020-advisorycommittee-report/data-analysis Page 16

Table 6. Mean daily intake of nutrients from complementary foods and dietary supplements of infants 6-11 months old by milk reporting status, day 1, 2007-2016

		All in 6-11	nfants mo.				an milk oup			_	mula oup	
	(N=984)				(N =	140)		(N=844)				
	Percentage Mean reporting total supplements intake		total reporting total reporting		reporting total			Percentage reporting supplements			ean tal ake	
	Mean	se	Mean	se	Mean	se	Mean	se	Mean	se	Mean	se
Thiamin (mg)	4	(0.6)	0.48	(0.013)	5†	(1.9)	0.33	(0.041)	4	(0.5)	0.51	(0.017)
Riboflavin (mg)	4	(0.6)	0.61	(0.015)	5†	(1.9)	0.40	(0.044)	4	(0.5)	0.65	(0.018)
Niacin (mg)	4	(0.6)	6.3	(0.18)	5†	(1.9)	4.5	(0.45)	4	(0.5)	6.7	(0.22)
Vitamin B6 (mg)	4	(0.6)	0.43	(0.015)	5†	(1.9)	0.32	(0.023)	4	(0.6)	0.46	(0.018)
Folic acid (mcg)	#		28	(1.6)	0		19	(2.5)	#		30	(2.0)
Folate, DFE (mcg)	#		86	(3.8)	0		62	(5.6)	#		91	(4.7)
Total choline (mg)	0		48	(2.4)	0		29	(2.6)	0		52	(2.8)
Vitamin B12 (mcg)	3	(0.6)	0.79	(0.050)	3†	(1.6)	0.45	(0.068)	3	(0.5)	0.86	(0.062)
Vitamin C (mg)	6	(1.1)	45.6	(1.80)	5†	(2.0)	23.3	(2.20)	6	(1.1)	50.3	(2.21)
Vitamin D (mcg)	9	(1.3)	2.11	(0.175)	20	(3.4)	2.53	(0.429)	7	(1.2)	2.03	(0.175)
Vitamin K (mcg)	#		17.9	(1.61)	0		14.9	(2.34)	#		18.5	(1.92)
Calcium (mg)	#		238	(8.3)	1†	(1.4)	141	(15.1)	#		258	(10.1)
Phosphorus (mg)	#		229	(7.7)	0		138	(10.8)	#		249	(8.8)
Magnesium (mg)	#		59	(1.7)	0		40	(3.2)	#		63	(1.9)
Iron (mg)	1†	(0.3)	8.2	(0.29)	3†	(1.3)	5.9	(0.70)	#		8.7	(0.37)
Zinc (mg)	#		2.3	(0.08)	0		1.6	(0.17)	#		2.4	(0.11)
Copper (mg)	#		0.24	(0.008)	0		0.17	(0.012)	#		0.25	(0.010)
Selenium (mcg)	#		13.5	(0.68)	0		7.7	(0.71)	#		14.7	(0.78)
Potassium (mg)	#		574	(16.4)	0		388	(24.0)	#		614	(20.0)
Sodium (mg)	#		320	(20.2)	0		202	(20.6)	#		345	(24.3)

NOTES: † indicates an estimate that may be less precise than others due to small sample size and/or large relative standard error.

indicates a non-zero value too small to present. Sample based on age at Mobile Examination Center.

Excludes children without complete day 1 dietary supplement data.

Complementary foods include all foods and beverages except human milk and infant formula.

Milk reporting status determined by the report of human milk on either day 1 or day 2.

2020 Dietary Guidelines Advisory Committee Data Supplement: Infants and Toddlers https://www.dietaryguidelines.gov/2020-advisorycommittee-report/data-analysis Page 17

Table 7. Mean daily intake of nutrients of children 12-23 months old, day 1, 2007-2016

Means	and
standard	errors

(N = 1242)

	Mean	se
Energy (kcal)	1204	(22.7)
Protein (g)	45.8	(0.87)
Carbohydrate (g)	156	(3.3)
Total sugars (g)	88	(1.7)
Dietary fiber (g)	8.5	(0.21)
Diemiy fiber (g)	0.5	(0.21)
Total fat (g)	45.7	(0.84)
Saturated fat (g)	18.6	(0.34)
Monounsaturated fat (g)	14.8	(0.27)
Polyunsaturated fat (g)	8.0	(0.18)
PFA 18:2 (g)	6.9	(0.16)
PFA 18:3 (g)	0.9	(0.02)
Cholesterol (mg)	159	(3.6)
Retinol (mcg)	466	(10.8)
Vitamin A, RAE (mcg)	581	` ′
		(13.2)
Alpha-carotene (mcg)	291	(22.6)
Beta-carotene (mcg)	1190	(67.1)
Beta-cryptoxanthin (mcg)	74	(8.3)
Lycopene (mcg)	2212	(149.1)
Lutein + zeaxanthin (mcg)	569	(24.1)
Thiamin (mg)	1.01	(0.020)
Riboflavin (mg)	1.75	(0.031)
Niacin (mg)	11.4	(0.25)
Vitamin B6 (mg)	1.12	(0.020)
Folic acid (mcg)	114	(4.0)
Food folate (mcg)	107	(2.3)
Folate, DFE (mcg)	300	(8.0)
Total choline (mg)	201	(3.1)
Vitamin B12 (mcg)	4.03	(0.108)
Vitamin C (mg)	77.7	(2.12)
Vitamin D (mcg)	8.18	(0.183)
Alpha-tocopherol (mg)	4.08	(0.107)
Vitamin K (mcg)	37.1	(1.54)
	1016	
Calcium (mg)	1016	(24.7)
Phosphorus (mg)	972	(20.9)
Magnesium (mg)	169	(3.3)
Iron (mg)	9.2	(0.20)
Zinc (mg)	6.8	(0.11)
Copper (mg)	0.67	(0.017)
Selenium (mcg)	60.5	(1.28)
Potassium (mg)	1818	(31.9)
Sodium (mg)	1586	(37.9)
Caffeine (mg)	2.9	(0.29)
Theobromine (mg)	12.6	(1.03)

HUMAN MILK: Volume quantified using method in Briefel R, et al; The Feeding Infants and Toddlers Study 2008: Study Design and Methods. J Am Diet Assoc. 2010; 110 (suppl 3): S16-S36. Nutrient composition data are very limited (Wu X, et al; Human Milk Nutrient Composition in the United States: Current Knowledge, Challenges, and Research Needs, Curr Dev Nutr 2018; 2:nzy025 https://doi.org/10.1093/cdn/nzy025); noted 'For Reference Only' by USDA FoodData Central: Dec 2019, www.fdc.nal.usda.gov.

NOTES: † indicates an estimate that may be less precise than others due to small sample size and/or large relative standard error. Sample based on age at Mobile Examination Center, includes breast-fed children (n = 101).

2020 Dietary Guidelines Advisory Committee Data Supplement: Infants and Toddlers https://www.dietaryguidelines.gov/2020-advisory-

Table 8. Mean daily intake of nutrients from foods, beverages, and dietary supplements of children 12-23 months old, day 1, 2007-2016

Children 12-23 months

(N = 1230)

	Percentage reporting supplements		Me tot inta	al
	%	se	Mean	se
Thiamin (mg)	6	(1.1)	1.07	(0.024)
Riboflavin (mg)	6	(1.0)	1.81	(0.034)
Niacin (mg)	6	(1.0)	12.0	(0.32)
Vitamin B6 (mg)	11	(1.1)	1.22	(0.033)
Folic acid (mcg)	8	(0.7)	129	(5.1)
Folate, DFE (mcg)	8	(0.7)	326	(9.6)
Total choline (mg)	5	(0.8)	202	(3.1)
Vitamin B12 (mcg)	11	(1.0)	4.43	(0.124)
Vitamin C (mg)	13	(1.4)	85.9	(3.25)
Vitamin D (mcg)	13	(1.3)	9.45	(0.265)
Vitamin K (mcg)	1†	(0.4)	37.4	(1.60)
Calcium (mg)	3	(0.8)	1020	(24.9)
Phosphorus (mg)	2	(0.5)	974	(21.2)
Magnesium (mg)	3	(0.6)	169	(3.3)
Iron (mg)	3	(0.7)	9.7	(0.25)
Zinc (mg)	8	(0.7)	7.2	(0.14)
Copper (mg)	2	(0.6)	0.71	(0.021)
Selenium (mcg)	#		60.4	(1.29)
Potassium (mg)	#		1817	(32.1)
Sodium (mg)	3	(0.6)	1586	(38.1)

HUMAN MILK: Volume quantified using method in Briefel R, et al; The Feeding Infants and Toddlers Study 2008: Study Design and Methods. J Am Diet Assoc. 2010; 110 (suppl 3): S16-S36. Nutrient composition data are very limited (Wu X, et al; Human Milk Nutrient Composition in the United States: Current Knowledge, Challenges, and Research Needs, Curr Dev Nutr 2018; 2:nzy025 https://doi.org/10.1093/cdn/nzy025); noted 'For Reference Only' by USDA FoodData Central: Dec 2019, www.fdc.nal.usda.gov.

NOTES: \dagger indicates an estimate that may be less precise than others due to small sample size and/or large relative standard error. Sample based on age at Mobile Examination Center, includes breast-fed children (n = 101).

2020 Dietary Guidelines Advisory Committee Data Supplement: Infants and Toddlers https://www.dietaryguidelines.gov/2020-advisorycommittee-report/data-analysis