Indicators of Diet Quality, Nutrition, and Health for Americans by Program Participation Status, 2011–2016: WIC Report



Appendix H. Infants and Pregnant, Breastfeeding, and Postpartum Women







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Appendix H. Infants and Pregnant, Breastfeeding, and Postpartum Women



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Appendix H. Infants and Pregnant, Breastfeeding, and Postpartum Women

Table H.1. NHANES Respondents With Complete Dietary Recalls, 2011–2016: Sample Sizes andWeighted Population Counts

Subgroup	All Individuals	WIC Participants	Income-Eligible Nonparticipants	Higher Income Nonparticipants
	Sa	mple Sizes		
All infants	1,053	618	156	278
0–5 months old	493	275	82	135
6–11 months old	560	343	74	143
All pregnant, breastfeeding, and postpartum women	319	120	66	98
Pregnant women	174	47	41	52
Breastfeeding women	84	31	16	37
Postpartum women	99	57	20	20
	Weighted	Population Counts	·	
All infants	3,980,550	1,856,416	614,065	1,508,809
0–5 months old	1,817,140	810,269	303,333	702,278
6–11 months old	2,163,410	1,046,147	310,732	806,531
All pregnant, breastfeeding, and postpartum women	4,977,304	1,486,324	911,640	2,071,060
Pregnant women	2,624,840	539,101	507,386	1,082,547
Breastfeeding women	1,413,564	326,022	296,661	790,881
Postpartum women	1,532,715	763,554	275,950	434,194

Notes: "All individuals" includes respondents with missing WIC participation or income. WIC participants consist of individuals in households that at the time of data collection reported receiving WIC benefits. Weighted population counts were based on NHANES day 1 dietary sample weights to adjust for nonresponse in day 1 dietary recall and the differential allocation by day of the week for the dietary intake data collection.

Source: National Health And Nutrition Examination Survey (NHANES) 2011–2016 dietary recalls and demographic data. Sample includes NHANES infants 0–11 months old consuming breast milk or with complete dietary recall data and pregnant, breastfeeding, and postpartum women 20–44 years old with complete day 1 dietary recall data.

Subgroup	All Indivi	duals	WIC Partici	pants	Income-Eli Nonpartici		Higher Income Nonparticipants	
Subgroup	Percent	Standard Error	Percent	Standard Error	Percent	Standard Error	Percent	Standard Error
			Race/Ethnicity					
All infants and pregnant, breastfeeding, and postpartum women								
Mexican American	13.2	(2.09)	21.8	(3.51)	11.4 *	(2.69)	7.0 ***	(2.08)
Other Hispanic	6.8	(0.99)	10.8	(1.55)	4.6 * u	(1.86)	3.9 ***	(1.13)
Non-Hispanic White	55.3	(4.02)	33.9	(4.13)	57.6 **	(6.77)	74.8 ***	(3.92)
Non-Hispanic Black	14.5	(2.02)	24.4	(3.51)	14.5	(3.77)	3.5 *** u	(1.09)
Other race, multiracial	10.3	(1.28)	9.2	(1.78)	11.9	(2.59)	10.9	(2.11)
Infants 0–11 months old								
Mexican American	17.8	(2.53)	27.7	(4.28)	13.6 **	(2.92)	7.4 ***	(1.82)
Other Hispanic	7.3	(1.02)	11.1	(1.60)	2.7 *** u	(1.04)	4.5 ***	(1.13)
Non-Hispanic White	51.4	(3.85)	30.5	(4.25)	61.5 ***	(5.86)	73.0 ***	(3.57)
Non-Hispanic Black	13.7	(1.79)	22.7	(3.06)	11.7 *	(3.19)	3.4 *** u	(1.05)
Other race, multiracial	9.8	(1.14)	8.0	(1.57)	10.5	(2.72)	11.7	(2.27)
Pregnant, breastfeeding, and postpartun women	n							
Mexican American	9.4	(1.96)	14.4	(3.31)	9.9 u	(3.87)	6.7 u	(2.93)
Other Hispanic	6.3	(1.27)	10.5	(2.41)	5.9 u	(2.97)	3.5 * u	(1.57)
Non-Hispanic White	58.5	(4.55)	38.0	(6.04)	55.0	(8.50)	76.1 ***	(4.94)
Non-Hispanic Black	15.1	(2.56)	26.5	(4.96)	16.4	(4.77)	3.5 *** u	(1.48)
Other race, multiracial	10.6	(1.84)	10.6	(3.15)	12.8 u	(4.26)	10.3	(2.58)
		Edu	ucation (20+ Years	Old)				
Pregnant, breastfeeding, and postpartum women								
Less than high school	11.0	(1.95)	22.0	(3.96)	18.8 u	(5.99)	0.7 *** u	(0.51)
High school diploma or GED	17.6	(2.17)	28.3	(4.07)	10.0 *** u	(3.77)	8.5 *** u	(3.19)
More than high school	71.4	(3.16)	49.7	(4.85)	71.2 *	(7.78)	90.8 ***	(3.20)

Table H.2. Demographic Characteristics of WIC Participants and Nonparticipants

Insight = Indicators of Diet Quality, Nutrition, and Health for Americans by Program Participation Status, 2011–2016: WIC Report, Appendix H. Infants and 5 Pregnant, Breastfeeding, and Postpartum Women

Subgroup	All Indiv	All Individuals		ipants	Income-Eligible Nonparticipants		Higher Income Nonparticipants	
Subgroup	Percent	Standard Error	Percent	Standard Error	Percent	Standard Error	Percent	Standard Error
		Marit	al Status (20+ Ye	ars Old)				
Pregnant, breastfeeding, and postpartum women								
Married	64.4	(4.10)	36.8	(6.03)	46.1	(8.58)	95.2 ***	(3.16)
Widowed, divorced, separated	7.4	(2.07)	9.7 u	(3.39)	22.0 u	(8.00)		(.)
Never married	13.1	(2.29)	21.5	(4.78)	17.9 u	(5.58)	4.6 ** u	(3.15)
Cohabitating	15.2	(2.44)	32.0	(5.08)	14.0 * u	(5.40)	0.3 *** u	(0.29)

Notes: "All individuals" includes respondents with missing WIC participation or income. Estimates are weighted to account for differential probabilities of selection, nonresponse to survey instruments, and differences between the final sample and the U.S. civilian noninstitutionalized population. Significant differences in estimates are noted by * p < .05, ** p < .01, or *** p < .001. Differences were tested using two-sample *t*-tests comparing WIC participants with income-eligible nonparticipants or higher income nonparticipants. WIC participants consist of individuals in households that at the time of data collection reported receiving WIC benefits.

u Indicates individual estimates did not meet the standards of reliability or precision because of large coefficient of variation

Source: National Health And Nutrition Examination Survey (NHANES) 2011–2016 dietary recalls and demographic data. Sample includes NHANES infants 0–11 months old consuming breast milk or with complete dietary recall data and pregnant, breastfeeding, and postpartum women 20–44 years old with complete day 1 dietary recall data.

Subaroun	All Infa	ints	WIC Partie	cipants	Income-E Nonpartic		Higher I Nonparti	
Subgroup	Percent	Standard Error	Percent	Standard Error	Percent	Standard Error	Percent	Standard Error
			All Infants 0–11	Months Old				
Sample size	1050	-	617	-	154	-	278	_
Low weight-for-length	0.8 u	(0.28)	0.9 u	(0.45)	1.1 u	(0.88)	0.6 u	(0.36)
Healthy weight-for-length	92.4	(0.99)	93.3	(1.14)	88.7	(3.04)	92.8	(1.96)
High weight-for-length	6.8	(0.99)	5.8	(1.06)	10.2	(2.93)	6.6	(1.95)
	· ·	· · ·	Infants 0–5 M	onths Old				
Sample size	492	-	275	-	81	-	135	_
Low weight-for-length	1.2 u	(0.54)	1.2 u	(0.86)	1.7 u	(1.61)	1.0 u	(0.72)
Healthy weight-for-length	93.4	(1.26)	92.7	(1.93)	90.1	(4.13)	95.6	(2.00)
High weight-for-length	5.4	(1.13)	6.1	(1.69)	8.3 u	(3.97)	3.4 u	(1.81)
	·	· · · · ·	Infants 6–11 N	Ionths Old		· · · · · ·		
Sample size	558	-	342	-	73	-	143	_
Low weight-for-length	0.5 u	(0.24)	0.8 u	(0.45)	0.6 u	(0.53)	0.2 u	(0.17)
Healthy weight-for-length	91.5	(1.53)	93.7	(1.17)	87.4	(3.82)	90.3	(3.18)
High weight-for-length	8.0	(1.58)	5.6	(1.13)	12.0 u	(3.85)	9.5 u	(3.20)

Table H.3. Weight Status for Infant WIC Participants and Nonparticipants by Age

Notes: "All infants" includes infants with missing WIC participation or income. Weight categories are defined based on weight-for-length percentiles from the World Health Organization growth charts for infants 0 to 2 years old: low weight-for-length is \leq the 2nd percentile; healthy weight-for-length is > the 2nd and < the 98th percentiles; and high weight-for-length is \geq the 98th percentile. Estimates are weighted to account for differential probabilities of selection, nonresponse to survey instruments, and differences between the final sample and the U.S. civilian noninstitutionalized population to ensure different age distributions of NSLP participants and nonparticipants are accounted for. Significant differences in estimates are noted by * p < .05, ** p < .01, or *** p < .001. Differences were tested using two-sample *t*-tests comparing WIC participants with incomeeligible nonparticipants or higher income nonparticipants. WIC participants consist of infants in households that at the time of data collection reported receiving WIC benefits. **u** Indicates individual estimates did not meet the standards of reliability or precision because of large coefficient of variation

- Denotes not applicable

Source: National Health And Nutrition Examination Survey (NHANES) 2011–2016 dietary recalls and body measurement data. Sample includes NHANES infants aged 0–11 months old with complete length and weight data, and those with complete day 1 dietary recall data or incomplete because of the consumption of breastmilk.

Subgroup	Α	II Infant	s	WIC	Participa	ants		ome-Elig			her Inco particip	
Subgroup	Mean	Note	Standard Error	Mean	Note	Standard Error	Mean	Note	Standard Error	Mean	Note	Standard Error
				All In	fants 0–11	Months Old						
Sample size	1,053		-	618		-	156		-	278		-
Vitamin A (mcg RAE)	139.0		(9.23)	145.0		(12.63)	139.9		(24.91)	131.3		(17.70)
Iron (mg)	4.8		(0.36)	5.9		(0.56)	3.1	***	(0.44)	4.2	*	(0.46)
Zinc (mg)	1.4		(0.10)	1.6		(0.13)	1.1	*	(0.16)	1.3		(0.19)
Calories (kcal)	174.3		(9.66)	203.4		(16.70)	166.5		(19.59)	141.8	**	(15.97)
				Infa	ants 0–5 M	onths Old						
Sample size	493		-	275		-	82		-	135		-
Vitamin A (mcg RAE)	17.1		(3.13)	20.2		(5.06)	28.6		(5.43)	8.7	u	(3.42)
Iron (mg)	1.3		(0.17)	1.7		(0.29)	0.6	** u	(0.20)	1.2		(0.26)
Zinc (mg)	0.2		(0.03)	0.3		(0.06)	0.1	** u	(0.03)	0.2		(0.05)
Calories (kcal)	20.2		(2.71)	29.6		(5.59)	14.7	*	(2.72)	11.8	**	(2.42)
				Infa	nts 6–11 M	lonths Old						
Sample size	560		-	343		-	74		-	143		-
Vitamin A (mcg RAE)	241.3		(14.46)	241.6		(18.02)	248.6		(25.63)	238.0		(23.28)
Iron (mg)	7.7		(0.50)	9.2		(0.70)	5.5	***	(0.62)	6.8	*	(0.71)
Zinc (mg)	2.4		(0.12)	2.6		(0.15)	2.1	*	(0.18)	2.2		(0.30)
Calories (kcal)	303.8		(13.97)	338.0		(21.67)	314.7		(29.40)	255.1	**	(22.21)

Table H.4. Mean Usual Intakes From Complementary Foods for Infant WIC Participants and Nonparticipants by Age

Notes: "All infants" includes infants with missing WIC participation or income. The data reflect nutrient intakes from complementary foods and beverages but do not include the contribution of vitamin and mineral supplements. Usual intake was estimated using the National Cancer Institute method. Estimates are weighted to account for differential probabilities of selection, nonresponse to survey instruments, and differences between the final sample and the U.S. civilian noninstitutionalized population to ensure different age distributions of NSLP participants and nonparticipants are accounted for. Significant differences in estimates are noted by * p < .05, ** p < .01, or *** p < .001. Differences were tested using two-sample *t*-tests comparing WIC participants with income-eligible nonparticipants or higher income nonparticipants. WIC participants consist of infants in households that at the time of data collection reported receiving WIC benefits. Standard errors were estimated using balanced repeated replication to account for complex survey design.

kcal = calories, mg = milligrams, mcg RAE = microgram retinol activity equivalents

u Indicates individual estimates did not meet the standards of reliability or precision because of large coefficient of variation

– Denotes not applicable

Source: National Health And Nutrition Examination Survey (NHANES) 2011–2016 dietary recalls. Sample includes NHANES infants 0–11 months old consuming breast milk or with complete day 1 and day 2 dietary recall data.

Insight = Indicators of Diet Quality, Nutrition, and Health for Americans by Program Participation Status, 2011–2016: WIC Report, Appendix H. Infants and Pregnant, Breastfeeding, and Postpartum Women

Subgroup	5th	10th	15th	25th	50th	75th	85th	90th	95th
All infants 0–11 months old	0.0	0.0	0.0	0.0	2.8 u	192.3	344.4	468.2	657.9
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9 u	97.7 u
6–11 months old	0.0	0.0	2.3 u	12.9 u	137.1	359.9	543.3	654.0	811.5
WIC participants	0.0	0.0	0.0	0.0	7.6 u	203.2	354.5	489.3	678.1
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0	0.5 u	12.9 u	205.6
6–11 months old	0.0	0.0	1.4 u	17.0 u	113.1	356.3	545.6	661.1	811.9
Income-eligible nonparticipants	0.0	0.0	0.0	0.0	0.7 u	202.4	372.6	440.7	633.6
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5 u	216.1
6–11 months old	0.0	0.0	2.9 u	10.9 u	148.6 u	373.3	466.7	598.9	760.3
Higher income nonparticipants	0.0	0.0	0.0	0.0	0.1 u	153.8	280.2	474.0	651.3
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3 ***
6–11 months old	0.0	0.0	3.4 u	12.7 u	137.2	322.4	553.8	640.1	766.2

 Table H.5. Vitamin A (Micrograms Retinol Activity Equivalent): Percentile Distribution of Mean Usual Intakes From Complementary Foods for

 Infant WIC Participants and Nonparticipants by Age

u Indicates individual estimates did not meet the standards of reliability or precision because of large coefficient of variation

Subgroup	5th	10th	15th	25th	50th	75th	85th	90th	95th
All infants 0–11 months old	0.0	0.0	0.0	0.0	1.0	6.5	11.0	14.5	19.8
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0 u	1.2 u	4.4 u	10.7
6–11 months old	0.1 u	0.3	0.6	1.4	5.0	10.8	15.3	19.5	24.9
WIC participants	0.0	0.0	0.0	0.0	1.8	8.0	12.0	17.0	24.2
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.4 u	3.2 u	6.2	10.8
6–11 months old	0.2 u	0.7	1.0	2.0	5.4	11.9	17.8	20.6	30.1
Income-eligible nonparticipants	0.0	0.0	0.0	0.0	0.3 *** u	4.1 **	6.7 ***	9.0 **	14.7
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0	0.4 * u	1.4 ** u	3.2
6–11 months old	0.0 *	0.2 *** u	0.3 ***	0.5 ***	3.2 ***	7.1 **	10.6 **	13.8	21.2
Higher income nonparticipants	0.0	0.0	0.0	0.0	0.6 * u	5.9	10.8	13.5	17.5
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0	0.1 u	4.0 u	10.9
6–11 months old	0.1 u	0.3 * u	0.5 * u	1.3 u	4.4	9.9	14.7	17.2	20.5

Table H.6. Iron (Milligrams): Percentile Distribution of Micronutrient Mean Usual Intakes From Complementary Foods for Infant WICParticipants and Nonparticipants by Age

u Indicates individual estimates did not meet the standards of reliability or precision because of large coefficient of variation

Subgroup	5th	10th	15th	25th	50th	75th	85th	90th	95th
All infants 0–11 months old	0.0	0.0	0.0	0.0	0.3	2.0	3.2	4.1	6.1
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0 u	0.2 u	0.5	1.6
6–11 months old	0.0 u	0.1 u	0.2	0.5	1.5	3.3	4.6	5.6	7.4
WIC participants	0.0	0.0	0.0	0.0	0.5	2.1	3.5	4.5	6.5
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.1 u	0.4 u	0.8 u	1.6
6–11 months old	0.0 u	0.2	0.3	0.7	1.8	3.6	4.6	6.1	8.4
Income-eligible nonparticipants	0.0	0.0	0.0	0.0	0.1 *** u	1.3	2.8	3.5	5.5
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0 *	0.0 * u	0.2 * u	0.4
6–11 months old	0.0	0.0 * u	0.1 ** u	0.2 ***	1.3	3.2	4.0	5.2	7.6
Higher income nonparticipants	0.0	0.0	0.0	0.0	0.1 * u	1.8	2.7 *	3.4	5.0
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0	0.0 * u	0.4 u	2.1
6–11 months old	0.0	0.0 u	0.1 u	0.4	1.4	2.9	4.3	4.8	6.6 u

Table H.7. Zinc (Milligrams): Percentile Distribution of Micronutrient Men Usual Intakes From Complementary Foods for Infant WICParticipants and Nonparticipants by Age

u Indicates individual estimates did not meet the standards of reliability or precision because of large coefficient of variation

Subgroup	5th	10th	15th	25th	50th	75th	85th	90th	95th
All infants 0–11 months old	0.0	0.0	0.0	0.0	64.8	254.5	378.9	473.5	738.6
0–5 months old	0.0	0.0	0.0	0.0	0.0	3.8 u	37.5	72.7	115.6
6–11 months old	12.1 u	41.9	61.1	96.2	218.4	414.3	552.5	708.5	941.3
WIC participants	0.0	0.0	0.0	0.0	89.6	293.9	457.2	551.0	847.2
0–5 months old	0.0	0.0	0.0	0.0	0.0	19.3 u	59.3	87.4	149.5
6–11 months old	15.6 u	52.0	74.2	114.4	250.1	461.7	609.7	772.4	973.9
Income-eligible nonparticipants	0.0	0.0	0.0	0.0	41.4 *	207.0	352.6	466.9	745.7
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0 *	11.9 *** u	43.3 *	97.7 *
6–11 months old	0.0	17.5 * u	46.3 *	61.6 ***	182.0	375.5	588.8	741.7	1,245.7
Higher income nonparticipants	0.0	0.0	0.0	0.0	58.4 u	209.6	323.4 **	390.9	568.4 *
0–5 months old	0.0	0.0	0.0	0.0	0.0	0.0	4.3 *** u	38.1 u	89.3 *
6–11 months old	8.6	36.2 u	58.6	86.7	196.3	339.4 **	432.7	565.8	719.9 *

Table H.8. Calories: Percentile Distribution of Mean Usual Caloric Intakes From Complementary Foods for Infant WIC Participants and Nonparticipants by Age

u Indicates individual estimates did not meet the standards of reliability or precision because of large coefficient of variation

Subgroup	Maximum Possible	All Pregn Breastfeedir Postpartum	ıg, and	WIC Partici	WIC Participants		gible Dants	Higher Income Nonparticipants	
	HEI Score	Mean Score	Standard Error	Mean Score	Standard Error	Mean Score	Standard Error	Mean Score	Standard Error
Sample size	-	319	-	120	-	66	-	98	-
Total fruits	5	3.9	(0.46)	3.9	(0.56)	2.8	(0.65)	3.9	(0.61)
Whole fruits	5	4.5	(0.28)	4.1	(0.34)	4.1	(0.86)	4.7	(0.47)
Total vegetables	5	3.4	(0.16)	3.2	(0.23)	3.0	(0.42)	3.9 *	(0.28)
Greens and beans	5	4.0	(0.41)	3.7	(0.73)	2.7	(0.76)	4.4	(0.53)
Whole grains	10	3.7	(0.42)	3.0	(0.63)	3.0	(0.75)	4.9 *	(0.67)
Dairy	10	5.9	(0.31)	6.6	(0.69)	6.6	(0.83)	5.4	(0.51)
Total protein foods	5	5.0	(0.01)	5.0	(0.13)	5.0	(0.07)	5.0	(0.02)
Seafood and plant proteins	5	4.9	(0.18)	4.6	(0.47)	4.7	(0.51)	4.9	(0.20)
Fatty acids	10	4.6	(0.36)	4.3	(0.52)	3.4	(0.71)	5.8	(0.66)
Refined grains	10	6.1	(0.44)	4.8	(0.62)	6.9 *	(0.76)	6.7 *	(0.68)
Sodium	10	4.2	(0.52)	4.3	(0.62)	4.7	(0.79)	3.5	(0.94)
Added sugars	10	6.2	(0.35)	5.5	(0.62)	4.9	(1.01)	7.2 *	(0.49)
Saturated fats	10	5.7	(0.39)	6.7	(0.59)	4.7 *	(0.71)	5.9	(0.62)
Total HEI-2015 score	100	62.0	(1.72)	59.6	(2.54)	56.5	(2.15)	66.2	(2.61)

Table H.9. Healthy Eating Index-2015 Scores for Pregnant, Breastfeeding, and Postpartum Women WIC Participants and Nonparticipants

Notes: "All pregnant, breastfeeding, and postpartum women" includes pregnant, breastfeeding and postpartum women with missing WIC participation or income. Mean component scores may not sum to total score because of rounding. Estimates are based on the day 1 dietary recall. Estimates are weighted to account for differential probabilities of selection, nonresponse to survey instruments, and differences between the final sample and the U.S. civilian noninstitutionalized population to ensure different age distributions of NSLP participants and nonparticipants are accounted for. Significant differences in estimates are noted by * p < .05, ** p < .01, or *** p < .001. Differences were tested using two-sample *t*-tests comparing WIC participants with income-eligible nonparticipants or higher income nonparticipants. WIC participants consist of women in households that at the time of data collection reported receiving WIC benefits.

HEI = Healthy Eating Index

Source: National Health And Nutrition Examination Survey (NHANES) 2011–2016 dietary recalls; Food Pattern Equivalents Database 2011–2012, 2013–2014, and 2015–2016. Sample includes NHANES pregnant, breastfeeding, and postpartum women 20–44 years old with complete day 1 dietary recall data.