



United States Department of Agriculture

Economic
Research
Service

November 2016

National Household Food Acquisition and Purchase Survey (FoodAPS)

Codebook: Food-Away-From-Home (FAFH) Nutrient Data `faps_fafhnutrients`

The OMB clearance number for FoodAPS is 0536-0068. The data were collected by the U.S. Department of Agriculture under authority of U.S.C, Title 7, Section 2026 (a)(1).

Information about the entire data collection, including instructions on how to request access to the data, may be found at <http://www.ers.usda.gov/foodaps>.

For further information contact: FoodAPS@ers.usda.gov

Suggested citation:

National Household Food Acquisition and Purchase Survey (FoodAPS): Codebook: Food-Away-From-Home (FAFH) Nutrient Data, faps_fafhnutrients. U.S. Department of Agriculture, Economic Research Service, November 2016.

In accordance with Federal civil rights law and U.S. Department of Agriculture (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. Additionally, program information may be made available in languages other than English.

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.

1. Introduction

This codebook provides details on the Food-away-from-Home (FAFH) nutrients for each FAFH item in the Food Acquisition and Purchase Survey. Users should first read *User's Guide to Survey Design, Data Collection, and Overview of Datasets* for information about the survey design and sample, survey instruments and data collection, and analytic notes. Event-level variables are provided in the **faps_fafhevent** dataset and described in the *FAFH Event* codebook. The main item-level data are provided in the **faps_fafhitem** and described in the *FAFH item* codebook.

A number of different nutrient databases were matched to the food items in FoodAPS, and the process was complex. The *FoodAPS Nutrient Coding Overview* describes these databases and how they were used to provide nutrient values for food items in FoodAPS. This codebook provides summaries for each of the variables included in the **faps_fafhnutrients** dataset.

2. Data Contents

The **faps_fafhnutrients** data file contains one record per FAFH item acquired at each event. There are a total of 116,074 items, from 37,407 events and 4,305 households. Variables are grouped into four main types:

- Identifying variables
- Item amount information
- Food Pattern Equivalents (FPE) variables, reported as the amount per 100 grams
- Caloric and macro-/micronutrient content variables, reported as the amount per 100 grams.

See *FoodAPS Nutrient Coding Overview* for a description of how the nutrient and FPE values were assigned to each item.

3. Variable list

4.1. Identifying Variables	7
HHNUM	7
EVENTID	7
ITEMNUM	7
FOODCODE	7
FOODCODETYPE	8
CODENOT1112	8
USDADESCMAIN	8
USDADESCADD	8
USDAFOODCAT1	9
USDAFOODCAT2	10
USDAFOODCAT4	12
FOODGROUP	17
RECODEDFINAL	19
FOODCODEMPR	19
4.2. Item Amount information	19
GRAMSUNIT	19
GRAMSTOTAL	19
GRAMS_FLAG	20
FLUIDOZGRAMS	21
4.3. Food Pattern Equivalent Values	21
D_TOTAL	21
D_CHEESE	21
D_MILK	21
D_YOGURT	21
F_TOTAL	22
F_CITMLB	22
F_OTHER	22
F_JUICE	22
G_TOTAL	22
G_REFINED	22
G_WHOLE	23
PF_TOTAL	23
PF_MPS_TOTAL	23
PF_MEAT	23
PF_POULT	23
PF_SEAFD_HI	24

PF_SEAFD_LOW.....	24
PF_ORGAN.....	24
PF_CUREDMEAT.....	24
PF_EGGS.....	24
PF_SOY.....	24
PF_NUTSDS.....	25
PF_LEGUMES.....	25
V_LEGUMES.....	25
V_TOTAL.....	25
V_DRKGR.....	25
V_REDOR_TOTAL.....	25
V_REDOR_TOMATO.....	26
V_REDOR_OTHER.....	26
V_STARCHY_TOTAL.....	26
V_STARCHY_POTATO.....	26
V_STARCHY_OTHER.....	26
V_OTHER.....	26
OILS.....	27
SOLID_FATS.....	27
ADD_SUGARS.....	27
A_DRINKS.....	27
4.4. Nutrients.....	27
ENERGY.....	27
CARB.....	28
DIETFIBER.....	28
TOTSUG.....	28
TOTFAT.....	28
SATFAT.....	28
MONOFAT.....	28
POLYFAT.....	29
PROTEIN.....	29
ALCOHOL.....	29
CAROALPHA.....	29
CAROBETA.....	29
CHOL.....	29
CAFFEINE.....	30
CALCIUM.....	30
CHOLINE.....	30
COPPER.....	30

CRYPT	30
FOLACID	30
FOLDFE	31
FOLFOOD	31
FOLTOT	31
IRON	31
LUTEIN	31
LYCOPENE	31
MAGNES	32
NIACIN	32
PHOSP	32
POTASS	32
RETINOL	32
RIBOFL	32
SELENIUM	33
SODIUM	33
THEOBROM	33
THIAMIN	33
VITARAE	33
VITB6	33
VITB12	34
VITB12ADD	34
VITC	34
VITD	34
VITE	34
VITEADD	34
VITK	35
WATER	35
ZINC	35
SFA40	35
SFA60	35
SFA80	35
SFA100	36
SFA120	36
SFA140	36
SFA160	36
SFA180	36
MFA161	36
MFA181	37

FAFH nutrient data codebook

MFA201	37
MFA221	37
PFA182	37
PFA183	37
PFA184	37
PFA204	38
PFA205	38
PFA225	38
PFA226	38

4. Variable by Variable Codebook

4.1. Identifying Variables

HHNUM

Variable: HHNUM	Definition: 6-digit unique identifier for each household (address)	Type: Numeric
	116,074 responses with 4,305 unique values. Individual responses not shown.	

EVENTID

Variable: EVENTID	Definition: Unique identifier for event, across both FAH and FAFH events	Type: Numeric
	Note: EVENTID is unique across FAH & FAFH files.	
	116,074 responses with 37,407 unique values. Individual responses not shown.	

ITEMNUM

Variable: ITEMNUM	Definition: Sequential item number within event.	Type: Numeric
	Note: To uniquely identify an item entry, use EVENTID and ITEMNUM. ITEMNUM does not uniquely identify any particular food item, such as "12 oz box of Cheerios."	
Range:	1 – 61	
Missing observations (.):	0 (out of 116,074)	

FOODCODE

Variable: FOODCODE	Definition: Food code	Type: Numeric
	The food code can come from a variety of sources. See FOODCODETYPE.	
Range:	2021 - 9132202030	
Missing observations (.):	286 (out of 116,074)	

FOODCODETYPE

Variable: FOODCODETYPE	Definition: Type of food code (USDA or study-specific/SNDA)			Type: Numeric
	Value	Count	Percent	Value description
	0	286	0.25	No food code, ItemDesc not discernable
	1	92,374	79.58	USDA Food and Nutrient Database for Dietary Studies (FNDDS)
	2	23,318	20.09	SNDA-IV, Study-specific food code
	3	26	0.02	USDA National Nutrient Database for Standard Reference (SR)
	4	70	0.06	ERS-created food code for FoodAPS

CODENOT1112

Variable: CODENOT1112	Definition: Food code is not from USDA 2011-12 databases			Type: Numeric
	Value	Count	Percent	Value description
	0	87,101	75.04	Code is from FNDDS 2011-12 or SR 26
	1	28,687	24.71	Code is from older USDA data or other database
	.	286	0.25	No food code assigned to item

USDADESCMAIN

Variable: USDADESCMAIN	Definition: USDA main food description	Type: Character
Unique values:	2,823	
Missing observations (.):	286 (out of 116,074)	

USDADESCADD

Variable: USDADESCADD	Definition: USDA additional food description	Type: Character
Unique values:	721	
Missing observations (.):	72,687 (out of 116,074)	

USDAFOODCAT1

Variable: USDAFOODCAT1	Definition: USDA main food category (1-digit)			Type: Numeric
	Note: For FNDDS codes, these categories come directly from USDA. For SR and other food codes, the categories are manually assigned.			
	Value	Count	Percent	Value description
	1	7,322	6.31	MILK AND DAIRY
	2	10,752	9.26	PROTEIN FOODS
	3	27,671	23.84	MIXED DISHES
	4	7,540	6.50	GRAINS
	5	11,558	9.96	SNACKS AND SWEETS
	6	19,569	16.86	FRUIT AND VEGETABLES
	7	27,418	23.62	BEVERAGES
	8	3,889	3.35	FATS AND OILS, CONDIMENTS, AND SUGARS
	9	69	0.06	INFANT FORMULA AND BABY FOOD, or not in a category
	.	286	0.25	Food code not assigned

USDAFOODCAT2

Variable: USDAFOODCAT2	Definition: USDA food subcategory (2-digit)			Type: Numeric
	Note: For FNDDS codes, these categories come directly from USDA. For SR and other food codes, the categories are manually assigned.			
	Value	Count	Percent	Value description
	10	3,467	2.99	Milk
	12	2,285	1.97	Flavored milk
	14	541	0.47	Dairy drinks and substitutes
	16	715	0.62	Cheese
	18	314	0.27	Yogurt
	20	1,465	1.26	Meats
	22	4,513	3.89	Poultry
	24	1,125	0.97	Seafood
	25	1,117	0.96	Eggs
	26	1,337	1.15	Cured meats/poultry
	28	1,195	1.03	Plant-based protein foods
	30	2,921	2.52	Mixed dishes - meat, poultry, seafood
	32	2,234	1.92	Mixed dishes - grain-based
	34	1,637	1.41	Mixed dishes - Asian
	35	3,554	3.06	Mixed dishes - Mexican
	36	3,060	2.64	Mixed dishes - pizza
	37	13,263	11.43	Mixed dishes - sandwiches (single code)
	38	1,002	0.86	Mixed dishes - soups
	40	1,247	1.07	Cooked grains
	42	3,019	2.60	Breads, rolls, tortillas
	44	2,036	1.75	Quick breads and bread products
	46	958	0.83	Ready-to-eat cereals
	48	280	0.24	Cooked cereals
	50	3,475	2.99	Savory snacks
	52	404	0.35	Crackers
	54	217	0.19	Snack/meal bars
	55	4,266	3.68	Sweet bakery products
	57	1,306	1.13	Candy
	58	1,890	1.63	Other desserts
	60	4,459	3.84	Fruits
	64	7,038	6.06	Vegetables, excluding potatoes
	68	8,072	6.95	White potatoes
	70	2,845	2.45	100% juice

	Value	Count	Percent	Value description
	71	2,116	1.82	Diet beverages
	72	10,283	8.86	Sweetened beverages
	73	7,403	6.38	Coffee and tea
	75	1,299	1.12	Alcoholic beverages
	77	3,324	2.86	Plain water
	78	148	0.13	Flavored or enhanced water
	80	1,456	1.25	Fats and oils
	84	1,856	1.60	Condiments and sauces
	88	577	0.50	Sugars
	90	46	0.04	Baby foods
	94	22	0.02	Infant formulas
	99	1	0.00	Not in a category
	.	286	0.25	Food code not assigned

USDAFOODCAT4

Variable: USDAFOODCAT4	Definition: USDA detailed food category (4-digit)			Type: Numeric
	Note: For FNDDS codes, these categories come directly from USDA. For SR and other food codes, the categories are manually assigned.			
	Value	Count	Percent	Value description
	1002	555	0.48	Milk, whole
	1004	1,370	1.18	Milk, reduced fat
	1006	1,332	1.15	Milk, low-fat
	1008	210	0.18	Milk, nonfat
	1202	28	0.02	Flavored milk, whole
	1204	878	0.76	Flavored milk, reduced fat
	1206	1,068	0.92	Flavored milk, low-fat
	1208	311	0.27	Flavored milk, nonfat
	1402	516	0.44	Milk shakes and other dairy drinks
	1404	25	0.02	Milk substitutes
	1602	671	0.58	Cheese
	1604	44	0.04	Cottage/ricotta cheese
	1802	114	0.10	Yogurt, whole and reduced fat
	1804	200	0.17	Yogurt, low-fat and nonfat
	2002	891	0.77	Beef, excludes ground
	2004	62	0.05	Ground beef
	2006	471	0.41	Pork
	2008	23	0.02	Lamb, goat, game
	2010	18	0.02	Liver and organ meats
	2202	2,256	1.94	Chicken, whole pieces
	2204	2,085	1.80	Chicken patties, nuggets, and tenders
	2206	172	0.15	Turkey, duck, other poultry
	2402	659	0.57	Fish
	2404	466	0.40	Shellfish
	2502	1,117	0.96	Eggs and omelets
	2602	371	0.32	Cold cuts and cured meats
	2604	426	0.37	Bacon
	2606	14	0.01	Frankfurters
	2608	526	0.45	Sausages

FAFH nutrient data codebook

	Value	Count	Percent	Value description
	2802	875	0.75	Beans, peas, legumes
	2804	257	0.22	Nuts and seeds
	2806	63	0.05	Processed soy products
	3002	1,451	1.25	Meat mixed dishes
	3004	1,174	1.01	Poultry mixed dishes
	3006	296	0.26	Seafood mixed dishes
	3202	496	0.43	Rice mixed dishes
	3204	966	0.83	Pasta mixed dishes, excludes macaroni and cheese
	3206	529	0.46	Macaroni and cheese
	3208	243	0.21	Turnovers and other grain-based items
	3402	442	0.38	Fried rice and lo/chow mein
	3404	668	0.58	Stir-fry and soy-based sauce mixtures
	3406	527	0.45	Egg rolls, dumplings, sushi
	3502	2,404	2.07	Burritos and tacos
	3504	350	0.30	Nachos
	3506	800	0.69	Other Mexican mixed dishes
	3602	3,060	2.64	Pizza
	3702	4,355	3.75	Burgers (single code)
	3703	95	0.08	Frankfurter sandwiches (single code)
	3704	2,788	2.40	Chicken/turkey sandwiches (single code)
	3706	1,927	1.66	Egg/breakfast sandwiches (single code)
	3708	4,098	3.53	Other sandwiches (single code)
	3802	1,002	0.86	Soups
	4002	922	0.79	Rice
	4004	325	0.28	Pasta, noodles, cooked grains
	4202	1,167	1.01	Yeast breads
	4204	1,365	1.18	Rolls and buns
	4206	340	0.29	Bagels and English muffins
	4208	147	0.13	Tortillas
	4402	1,180	1.02	Biscuits, muffins, quick breads
	4404	856	0.74	Pancakes, waffles, French toast

FAFH nutrient data codebook

	Value	Count	Percent	Value description
	4602	876	0.75	Ready-to-eat cereal, higher sugar (>21.2g/100g)
	4604	82	0.07	Ready-to-eat cereal, lower sugar (≤21.2g/100g)
	4802	144	0.12	Oatmeal
	4804	136	0.12	Grits and other cooked cereals
	5002	1,373	1.18	Potato chips
	5004	908	0.78	Tortilla, corn, other chips
	5006	223	0.19	Popcorn
	5008	971	0.84	Pretzels/snack mix
	5202	365	0.31	Crackers, excludes saltines
	5204	39	0.03	Saltine crackers
	5402	180	0.16	Cereal bars
	5404	37	0.03	Nutrition bars
	5502	1,419	1.22	Cakes and pies
	5504	1,550	1.34	Cookies and brownies
	5506	1,297	1.12	Doughnuts, sweet rolls, pastries
	5702	555	0.48	Candy containing chocolate
	5704	751	0.65	Candy not containing chocolate
	5802	1,286	1.11	Ice cream and frozen dairy desserts
	5804	182	0.16	Pudding
	5806	422	0.36	Gelatins, ices, sorbets
	6002	1,128	0.97	Apples
	6004	464	0.40	Bananas
	6006	201	0.17	Grapes
	6008	370	0.32	Peaches and nectarines
	6010	220	0.19	Berries
	6012	454	0.39	Citrus fruits
	6014	276	0.24	Melons
	6016	56	0.05	Dried fruits
	6018	1,290	1.11	Other fruits and fruit salads
	6402	136	0.12	Tomatoes
	6404	511	0.44	Carrots
	6406	287	0.25	Other red and orange vegetables

FAFH nutrient data codebook

	Value	Count	Percent	Value description
	6408	428	0.37	Dark green vegetables, excludes lettuce
	6410	1,886	1.62	Lettuce and lettuce salads
	6412	647	0.56	String beans
	6414	233	0.20	Onions
	6416	683	0.59	Corn
	6418	229	0.20	Other starchy vegetables
	6420	1,094	0.94	Other vegetables and combinations
	6422	904	0.78	Vegetable mixed dishes
	6802	759	0.65	White potatoes, baked or boiled
	6804	6,177	5.32	French fries and other fried white potatoes
	6806	1,136	0.98	Mashed potatoes and white potato mixtures
	7002	1,116	0.96	Citrus juice
	7004	832	0.72	Apple juice
	7006	867	0.75	Other fruit juice
	7008	30	0.03	Vegetable juice
	7102	2,068	1.78	Diet soft drinks
	7104	24	0.02	Diet sport and energy drinks
	7106	24	0.02	Other diet drinks
	7202	7,861	6.77	Soft drinks
	7204	1,738	1.50	Fruit drinks
	7206	653	0.56	Sport and energy drinks
	7208	31	0.03	Nutritional beverages
	7302	4,398	3.79	Coffee
	7304	3,005	2.59	Tea
	7502	699	0.60	Beer
	7504	306	0.26	Wine
	7506	294	0.25	Liquor and cocktails
	7702	2,397	2.07	Tap water
	7704	927	0.80	Bottled water
	7802	104	0.09	Flavored or carbonated water
	7804	44	0.04	Enhanced or fortified water
	8002	262	0.23	Butter and animal fats

FAFH nutrient data codebook

	Value	Count	Percent	Value description
	8004	18	0.02	Margarine
	8006	284	0.24	Cream cheese, sour cream, whipped cream
	8008	47	0.04	Cream and cream substitutes
	8010	49	0.04	Mayonnaise
	8012	796	0.69	Salad dressings and vegetable oils
	8402	450	0.39	Tomato-based condiments
	8404	11	0.01	Soy-based condiments
	8406	158	0.14	Mustard and other condiments
	8408	183	0.16	Olives, pickles, pickled vegetables
	8410	60	0.05	Pasta sauces, tomato-based
	8412	994	0.86	Dips, gravies, other sauces
	8802	29	0.02	Sugars and honey
	8804	17	0.01	Sugar substitutes
	8806	531	0.46	Jams, syrups, toppings
	9002	7	0.01	Baby food: cereals
	9004	13	0.01	Baby food: fruit
	9006	7	0.01	Baby food: vegetable
	9008	2	0.00	Baby food: meat and dinners
	9012	17	0.01	Baby food: snacks and sweets
	9402	22	0.02	Formula, ready-to-feed
	9999	1	0.00	Not included in a food category
	.	286	0.25	Food code not assigned

FOODGROUP

Variable: FOODGROUP	Definition: Food group (ERS classification)			Type: Numeric
	Value	Count	Percent	Value description
	10101	37	0.03	Whole-grain breads, rolls, etc.
	10102	5	0.00	Whole-grain rice and pasta
	10103	9	0.01	Whole-grain breakfast cereals
	10201	2,026	1.75	Non-whole-grain breads, rolls, etc.
	10202	16	0.01	Non-whole grain rice and pasta
	10203	11	0.01	Non-whole-grain breakfast cereals
	10204	1	0.00	Non-whole-grain flour, bread mixes, frozen dough
	20101	2	0.00	Fresh starchy vegetables
	20103	1	0.00	Canned starchy vegetables
	20201	118	0.10	Fresh tomatoes
	20203	1	0.00	Canned tomatoes
	20301	45	0.04	Fresh dark green vegetables
	20401	124	0.11	Fresh red and orange vegetables
	20503	22	0.02	Canned beans
	20601	332	0.29	Fresh other/mixed vegetables
	20603	13	0.01	Canned other/mixed vegetables
	30101	2,926	2.52	Fresh whole fruit
	30103	8	0.01	Canned whole fruit
	30104	1	0.00	Dried whole fruit
	30201	2,350	2.02	100% fruit and vegetable juices
	40101	557	0.48	Whole milk
	40102	5	0.00	Whole milk cream
	40103	109	0.09	Whole milk yogurt
	40201	2,934	2.53	Low-fat or skim milk
	40203	123	0.11	Low-fat or skim milk yogurt
	40301	48	0.04	All unprocessed cheese
	40302	7	0.01	Processed cheese, soups, sauces
	50101	44	0.04	Fresh beef, pork, veal, lamb, game
	50201	1	0.00	Fresh chicken, turkey, game birds
	50203	1	0.00	Canned chicken, turkey, game birds
	50303	12	0.01	Canned fish and seafood
	50401	147	0.13	Raw nuts and seeds

FAFH nutrient data codebook

	Value	Count	Percent	Value description
	50402	3	0.00	Processed nuts/seeds and spreads
	50501	168	0.14	Bacon, sausage, lunch meats, etc.
	50601	1	0.00	Eggs and egg substitutes
	50701	1	0.00	Tofu and meat substitutes
	60101	62,921	54.21	Ready-to-eat prepared meals
	60201	10	0.01	Frozen prepared meals
	60301	6	0.01	Canned prepared meals
	60401	5	0.00	Packaged prepared meals
	70101	10	0.01	Fats and oils
	70102	25	0.02	Salad dressing
	70201	106	0.09	Condiments, gravies, and sauces
	70202	7	0.01	Dry spices
	70301	3,131	2.70	Sweetened coffee and tea
	70302	4,272	3.68	Unsweetened coffee and tea
	70303	2,184	1.88	Low-calorie beverages
	70304	11,111	9.57	All other caloric beverages
	70305	1,299	1.12	Alcohol
	70306	3,344	2.88	Water
	70401	495	0.43	Sweeteners
	70402	83	0.07	Jellies and jams
	70403	1,326	1.14	Candy
	70404	4,800	4.14	Baked goods
	70405	2	0.00	Cake mixes
	70406	4,153	3.58	Milk drinks and milk desserts
	70407	388	0.33	All other desserts
	70501	384	0.33	Whole-grain salty snacks
	70502	3,491	3.01	Non-whole-grain salty snacks
	70601	43	0.04	Vitamins and meal supplements
	70701	46	0.04	Baby food
	70801	22	0.02	Infant formula
	99999	201	0.17	Not coded items

RECODEDFINAL

Variable: RECODEDFINAL	Definition: Food code changed after all ERS reviews			Type: Numeric
	Value	Count	Percent	Value description
	0	115,697	99.68	Food code was not changed
	1	377	0.32	Food code was changed

FOODCODEMPR

Variable: FOODCODEMPR	Definition: USDA food code assigned by MPR	Type: Numeric
	Note: This variable only has a value when ERS recoded the item or assigned an uncoded item a food code. 950 unique values.	
Range:	27213500 - 803020032	
Missing observations (.):	71,412 (out of 116,074)	

4.2. Item Amount information**GRAMSUNIT**

Variable: GRAMSUNIT	Definition: Gram weight of one unit of item (quantity=1)				Type: Numeric
	N	Min	Max	Mean	#Missing
	115,600	1	46,383.2	268.7994	474

GRAMSTOTAL

Variable: GRAMSTOTAL	Definition: Total gram weight of item (gramsunit*quantity)				Type: Numeric
	N	Min	Max	Mean	#Missing
	115,600	1	113,664	330.9932	474

GRAMS_FLAG

Variable: GRAMS_FLAG	Definition: Source/method for assigning gram weight			Type: Numeric
	Value	Count	Percent	Value description
	0	15,372	13.24	MenuStat grams
	1	2,173	1.87	MenuStat kcal/FNDDS energy * 100
	2	8,632	7.44	MenuStat oz converted to grams
	4	583	0.50	MenuStat grams for similar item, same restaurant
	5	835	0.72	MenuStat grams for similar item, different restaurant
	7	233	0.20	Constructed from ingredients
	8	373	0.32	Web lookup
	9	18,470	15.91	From reported grams or ounces
	10	37	0.03	From reported ounces & recoded food code information
	11	1,282	1.10	FAH median grams per food code
	12	10,194	8.78	TOP median grams per food code
	14	1,671	1.44	TOP median grams per food code (not by fast food or c-store)
	15	438	0.38	TOP large pizza grams, adjusted for size
	21	2,370	2.04	FAH median grams per dollar per food code
	23	305	0.26	TOP median grams per piece x # pieces
	101	532	0.46	FAH median grams per FOODCAT4
	102	3,926	3.38	TOP median grams per FOODCAT4
	111	1,502	1.29	FAH median grams per dollar per FOODCAT4
	200	1,292	1.11	FNDDS portion weight
	201	38	0.03	FNDDS large pizza grams, adjusted to size
	300	23,422	20.18	SNDA-IV average portion weight
	400	21,225	18.29	NHANES median grams per food code
	401	685	0.60	NHANES median grams per Foodcat4
	.	474	0.41	Not applicable, could not assign food code

FLUIDOZGRAMS

Variable: FLUIDOZGRAMS	Definition: Gram weight of 1 fluid ounce of item				Type: Numeric
	Note: Only identifiable liquid items are assigned a fluid ounce conversion.				
	N	Min	Max	Mean	#Missing (.)
	23,877	16.5	41	29.9452	92,197

4.3. Food Pattern Equivalent Values**D_TOTAL**

Variable: D_TOTAL	Definition: Total milk, yogurt, cheese, and whey (cup eq. per 100g)	Type: Numeric
Range:	0 – 3.53	
Missing observations (.):	286 (out of 116,074)	

D_CHEESE

Variable: D_CHEESE	Definition: Cheese (cup eq. per 100g)	Type: Numeric
Range:	0 – 3.53	
Missing observations (.):	286 (out of 116,074)	

D_MILK

Variable: D_MILK	Definition: Fluid milk and calcium-fortified soy milk (cup eq. per 100g)	Type: Numeric
Range:	0 - 0.58	
Missing observations (.):	286 (out of 116,074)	

D_YOGURT

Variable: D_YOGURT	Definition: Yogurt (cup eq. per 100g)	Type: Numeric
Range:	0 – 0.41	
Missing observations (.):	286 (out of 116,074)	

F_TOTAL

Variable: F_TOTAL	Definition: Total whole fruits and fruit juices (cup eq. per 100g)	Type: Numeric
Range:	0 – 2.5	
Missing observations (.):	286 (out of 116,074)	

F_CITMLB

Variable: F_CITMLB	Definition: Whole citrus, melons, and berries (cup eq. per 100g)	Type: Numeric
Range:	0 – 1.79	
Missing observations (.):	286 (out of 116,074)	

F_OTHER

Variable: F_OTHER	Definition: Whole fruit, excluding citrus, melons, and berries (cup eq. per 100g)	Type: Numeric
Range:	0 - 2.5	
Missing observations (.):	286 (out of 116,074)	

F_JUICE

Variable: F_JUICE	Definition: Fruit juices, citrus and non-citrus (cup eq. per 100g)	Type: Numeric
Range:	0 – 0.43225	
Missing observations (.):	286 (out of 116,074)	

G_TOTAL

Variable: G_TOTAL	Definition: Total whole and refined grains (oz. eq. per 100g)	Type: Numeric
Range:	0 – 5.97	
Missing observations (.):	286 (out of 116,074)	

G_REFINED

Variable: G_REFINED	Definition: Refined or non-whole grains (oz. eq. per 100g)	Type: Numeric
Range:	0 - 5.97	
Missing observations (.):	286 (out of 116,074)	

G_WHOLE

Variable: G_WHOLE	Definition: Whole grains (oz. eq. per 100g)	Type: Numeric
Range:	0 – 5.31	
Missing observations (.):	286 (out of 116,074)	

PF_TOTAL

Variable: PF_TOTAL	Definition: Total meat, poultry, seafood, organ & cured meats, eggs, soy, nuts and seeds (oz. eq. per 100g); excludes legumes	Type: Numeric
Range:	0 – 7.76	
Missing observations (.):	286 (out of 116,074)	

PF_MPS_TOTAL

Variable: PF_MPS_TOTAL	Definition: Total meat, poultry, seafood, organ & cured meats (oz. eq. per 100g)	Type: Numeric
Range:	0 - 7.76	
Missing observations (.):	286 (out of 116,074)	

PF_MEAT

Variable: PF_MEAT	Definition: Beef, veal, pork, lamb, game meat (oz. eq. per 100g); excludes organ & cured meats	Type: Numeric
Range:	0 – 3.51	
Missing observations (.):	286 (out of 116,074)	

PF_POULT

Variable: PF_POULT	Definition: Chicken, turkey, Cornish hens, and game birds (oz. eq. per 100g); excludes organ & cured meats	Type: Numeric
Range:	0 - 3.53	
Missing observations (.):	286 (out of 116,074)	

PF_SEAFD_HI

Variable: PF_SEAFD_HI	Definition: Seafood (finfish, shellfish and other) high in n-3 fatty acids (oz. eq. per 100g)	Type: Numeric
Range:	0 – 3.53	
Missing observations (.):	286 (out of 116,074)	

PF_SEAFD_LOW

Variable: PF_SEAFD_LOW	Definition: Seafood (finfish, shellfish, and other) low in n-3 fatty acids (oz. eq. per 100g)	Type: Numeric
Range:	0 – 7.76	
Missing observations (.):	286 (out of 116,074)	

PF_ORGAN

Variable: PF_ORGAN	Definition: Organ meat from beef, veal, pork, lamb, game, poultry (oz. eq. per 100g)	Type: Numeric
Range:	0 – 3.5	
Missing observations (.):	286 (out of 116,074)	

PF_CUREDMEAT

Variable: PF_CUREDMEAT	Definition: Cured/luncheon meat made from beef, pork, or poultry (oz. eq. per 100g)	Type: Numeric
Range:	0 – 3.53	
Missing observations (.):	286 (out of 116,074)	

PF_EGGS

Variable: PF_EGGS	Definition: Eggs (chicken, duck, goose, quail) and egg substitutes (oz. eq. per 100g)	Type: Numeric
Range:	0 - 2	
Missing observations (.):	286 (out of 116,074)	

PF_SOY

Variable: PF_SOY	Definition: Soy products (oz. eq. per 100g); excludes calcium-fortified soy milk and immature soybeans	Type: Numeric
Range:	0 – 3.48	
Missing observations (.):	286 (out of 116,074)	

PF_NUTSDS

Variable: PF_NUTSDS	Definition: Peanuts, tree nuts, and seeds (oz. eq. per 100g); excludes coconut	Type: Numeric
Range:	0 – 7.05	
Missing observations (.):	286 (out of 116,074)	

PF_LEGUMES

Variable: PF_LEGUMES	Definition: Legumes, oz eq. of protein foods	Type: Numeric
Range:	0 – 6.67	
Missing observations (.):	286 (out of 116,074)	

V_LEGUMES

Variable: V_LEGUMES	Definition: Legumes, cup eq. of vegetables	Type: Numeric
Range:	0 -1.67	
Missing observations (.):	286 (out of 116,074)	

V_TOTAL

Variable: V_TOTAL	Definition: Total dark green, red, and orange, starchy, and other vegetables (cup eq. per 100g); excludes legumes	Type: Numeric
Range:	0 - 10	
Missing observations (.):	286 (out of 116,074)	

V_DRKGR

Variable: V_DRKGR	Definition: Dark green vegetables (cup eq. per 100g)	Type: Numeric
Range:	0 – 3.33	
Missing observations (.):	286 (out of 116,074)	

V_REDOR_TOTAL

Variable: V_REDOR_TOTAL	Definition: Total red and orange vegetables (tomatoes + other) (cup eq. per 100g)	Type: Numeric
Range:	0 - 1.75	
Missing observations (.):	286 (out of 116,074)	

V_REDOR_TOMATO

Variable: V_REDOR_TOMATO	Definition: Tomatoes and tomato products (cup eq. per 100g)	Type: Numeric
Range:	0 – 0.6	
Missing observations (.):	286 (out of 116,074)	

V_REDOR_OTHER

Variable: V_REDOR_OTHER	Definition: Other red and orange vegetables (cup eq. per 100g); excludes tomatoes and tomato products	Type: Numeric
Range:	0 – 1.75	
Missing observations (.):	286 (out of 116,074)	

V_STARCHY_TOTAL

Variable: V_STARCHY_TOTAL	Definition: Total starchy vegetables (white potatoes + other) (cup eq. per 100g)	Type: Numeric
Range:	0 - 2.17	
Missing observations (.):	286 (out of 116,074)	

V_STARCHY_POTATO

Variable: V_STARCHY_POTATO	Definition: White potatoes (cup eq. per 100g)	Type: Numeric
Range:	0 – 2.17	
Missing observations (.):	286 (out of 116,074)	

V_STARCHY_OTHER

Variable: V_STARCHY_OTHER	Definition: Other starchy vegetables (cup eq. per 100g), excludes white potatoes	Type: Numeric
Range:	0 – 1.75	
Missing observations (.):	286 (out of 116,074)	

V_OTHER

Variable: V_OTHER	Definition: Other vegetables not in other vegetable components (cup eq. per 100g)	Type: Numeric
Range:	0 - 10	
Missing observations (.):	286 (out of 116,074)	

OILS

Variable: OILS	Definition: Oils (g) per 100g	Type: Numeric
Range:	0 - 100	
Missing observations (.):	286 (out of 116,074)	

SOLID_FATS

Variable: SOLID_FATS	Definition: Solid fats (g) per 100g	Type: Numeric
Range:	0 – 88.36	
Missing observations (.):	286 (out of 116,074)	

ADD_SUGARS

Variable: ADD_SUGARS	Definition: Foods defined as added sugars (tsp eq.) per 100g	Type: Numeric
Range:	0 – 23.76	
Missing observations (.):	286 (out of 116,074)	

A_DRINKS

Variable: A_DRINKS	Definition: Alcoholic beverages (no. of drinks) per 100g	Type: Numeric
Range:	0 – 2.57	
Missing observations (.):	286 (out of 116,074)	

4.4. Nutrients**ENERGY**

Variable: ENERGY	Definition: Energy (kcal), per 100g	Type: Numeric
Range:	0 - 886	
Missing observations (.):	286 (out of 116,074)	

CARB

Variable: CARB	Definition: Carbohydrate (g), per 100g	Type: Numeric
Range:	0 - 100	
Missing observations (.):	286 (out of 116,074)	

DIETFIBER

Variable: DIETFIBER	Definition: Total dietary fiber (g), per 100g	Type: Numeric
Range:	0 – 47.5	
Missing observations (.):	288 (out of 116,074)	

TOTSUG

Variable: TOTSUG	Definition: Total sugars (g), per 100g	Type: Numeric
Range:	0 – 99.8	
Missing observations (.):	288 (out of 116,074)	

TOTFAT

Variable: TOTFAT	Definition: Total fat (g), per 100g	Type: Numeric
Range:	0 - 100	
Missing observations (.):	286 (out of 116,074)	

SATFAT

Variable: SATFAT	Definition: Total saturated fatty acids (g), per 100g	Type: Numeric
Range:	0 – 51.368	
Missing observations (.):	286 (out of 116,074)	

MONOFAT

Variable: MONOFAT	Definition: Total monounsaturated fatty acids (g), per 100g	Type: Numeric
Range:	0 – 72.961	
Missing observations (.):	286 (out of 116,074)	

POLYFAT

Variable: POLYFAT	Definition: Total polyunsaturated fatty acids (g), per 100g	Type: Numeric
Range:	0 – 47.174	
Missing observations (.):	286 (out of 116,074)	

PROTEIN

Variable: PROTEIN	Definition: Protein (g), per 100g	Type: Numeric
Range:	0 – 62.82	
Missing observations (.):	286 (out of 116,074)	

ALCOHOL

Variable: ALCOHOL	Definition: Alcohol (g), per 100g	Type: Numeric
Range:	0 - 36	
Missing observations (.):	286 (out of 116,074)	

CAROALPHA

Variable: CAROALPHA	Definition: Alpha carotene (mcg), per 100g	Type: Numeric
Range:	0 – 4,776	
Missing observations (.):	288 (out of 116,074)	

CAROBETA

Variable: CAROBETA	Definition: Beta carotene (mcg), per 100g	Type: Numeric
Range:	0 – 14,205	
Missing observations (.):	288 (out of 116,074)	

CHOL

Variable: CHOL	Definition: Cholesterol (mg), per 100g	Type: Numeric
Range:	0 - 997	
Missing observations (.):	286 (out of 116,074)	

CAFFEINE

Variable: CAFFEINE	Definition: Caffeine (mg), per 100g	Type: Numeric
Range:	0 – 3,142	
Missing observations (.):	288 (out of 116,074)	

CALCIUM

Variable: CALCIUM	Definition: calcium (mg), per 100g	Type: Numeric
Range:	0 – 1,332	
Missing observations (.):	286 (out of 116,074)	

CHOLINE

Variable: CHOLINE	Definition: Choline (mg), per 100g	Type: Numeric
Range:	0 – 467.1	
Missing observations (.):	288 (out of 116,074)	

COPPER

Variable: COPPER	Definition: Copper (mg), per 100g	Type: Numeric
Range:	0 – 14.467	
Missing observations (.):	286 (out of 116,074)	

CRYPT

Variable: CRYPT	Definition: Beta cryptoxanthin (mcg), per 100g	Type: Numeric
Range:	0 – 1,447	
Missing observations (.):	288 (out of 116,074)	

FOLACID

Variable: FOLACID	Definition: Folic acid (mcg), per 100g	Type: Numeric
Range:	0 – 1,536	
Missing observations (.):	286 (out of 116,074)	

FOLDFE

Variable: FOLDFE	Definition: Folate as dietary folate equivalents (mcg), per 100g	Type: Numeric
Range:	0 – 2,630	
Missing observations (.):	288 (out of 116,074)	

FOLFOOD

Variable: FOLFOOD	Definition: Food folate (mcg), per 100g	Type: Numeric
Range:	0 - 573	
Missing observations (.):	286 (out of 116,074)	

FOLTOT

Variable: FOLTOT	Definition: Total folate (mcg), per 100g	Type: Numeric
Range:	0 – 1,555	
Missing observations (.):	286 (out of 116,074)	

IRON

Variable: IRON	Definition: Iron (mg), per 100g	Type: Numeric
Range:	0 – 62.1	
Missing observations (.):	288 (out of 116,074)	

LUTEIN

Variable: LUTEIN	Definition: Lutein + zeaxanthin (mcg), per 100g	Type: Numeric
Range:	0 – 17,472	
Missing observations (.):	288 (out of 116,074)	

LYCOPENE

Variable: LYCOPENE	Definition: Lycopene (mcg), per 100g	Type: Numeric
Range:	0 – 14,308	
Missing observations (.):	288 (out of 116,074)	

MAGNES

Variable: MAGNES	Definition: Magnesium (mg), per 100g	Type: Numeric
Range:	0 - 550	
Missing observations (.):	286 (out of 116,074)	

NIACIN

Variable: NIACIN	Definition: Niacin (mg), per 100g	Type: Numeric
Range:	0 - 69	
Missing observations (.):	286 (out of 116,074)	

PHOSP

Variable: PHOSP	Definition: Phosphorus (mg), per 100g	Type: Numeric
Range:	0 – 1,174	
Missing observations (.):	286 (out of 116,074)	

POTASS

Variable: POTASS	Definition: Potassium (mg), per 100g	Type: Numeric
Range:	0 – 3,535	
Missing observations (.):	286 (out of 116,074)	

RETINOL

Variable: RETINOL	Definition: Retinol (mcg), per 100g	Type: Numeric
Range:	0 – 7,664	
Missing observations (.):	286 (out of 116,074)	

RIBOFL

Variable: RIBOFL	Definition: Riboflavin (mg), per 100g	Type: Numeric
Range:	0 – 5.86	
Missing observations (.):	286 (out of 116,074)	

SELENIUM

Variable: SELENIUM	Definition: Selenium (mcg), per 100g	Type: Numeric
Range:	0 – 147.8	
Missing observations (.):	286 (out of 116,074)	

SODIUM

Variable: SODIUM	Definition: Sodium (mg), per 100g	Type: Numeric
Range:	0 – 38,758	
Missing observations (.):	286 (out of 116,074)	

THEOBROM

Variable: THEOBROM	Definition: Theobromine (mg), per 100g	Type: Numeric
Range:	0 - 486	
Missing observations (.):	288 (out of 116,074)	

THIAMIN

Variable: THIAMIN	Definition: Thiamin (mg), per 100g	Type: Numeric
Range:	0 – 8.06	
Missing observations (.):	286 (out of 116,074)	

VITARAE

Variable: VITARAE	Definition: Vitamin A as retinol activity equivalents (mcg), per 100g	Type: Numeric
Range:	0 – 7,679	
Missing observations (.):	286 (out of 116,074)	

VITB6

Variable: VITB6	Definition: Vitamin B-6 (mg), per 100g	Type: Numeric
Range:	0 – 6.9	
Missing observations (.):	286 (out of 116,074)	

VITB12

Variable: VITB12	Definition: Vitamin B-12 (mcg), per 100g	Type: Numeric
Range:	0 – 82.44	
Missing observations (.):	286 (out of 116,074)	

VITB12ADD

Variable: VITB12ADD	Definition: Added vitamin B-12 (mcg), per 100g	Type: Numeric
Range:	0 – 20.7	
Missing observations (.):	288 (out of 116,074)	

VITC

Variable: VITC	Definition: Vitamin C (mg), per 100g	Type: Numeric
Range:	0 – 228.3	
Missing observations (.):	286 (out of 116,074)	

VITD

Variable: VITD	Definition: Vitamin D (D2 + D3) (mcg), per 100g	Type: Numeric
Range:	0 – 28.3	
Missing observations (.):	23,604 (out of 116,074)	

VITE

Variable: VITE	Definition: Vitamin E (alpha-tocopherol) (mg), per 100g	Type: Numeric
Range:	0 – 46.35	
Missing observations (.):	288 (out of 116,074)	

VITEADD

Variable: VITEADD	Definition: Added vitamin E (mg), per 100g	Type: Numeric
Range:	0 – 45.52	
Missing observations (.):	288 (out of 116,074)	

VITK

Variable: VITK	Definition: Vitamin K (phylloquinone) (mcg), per 100g	Type: Numeric
Range:	0 - 830	
Missing observations (.):	288 (out of 116,074)	

WATER

Variable: WATER	Definition: Water (g), per 100g	Type: Numeric
Range:	0 – 99.98	
Missing observations (.):	286 (out of 116,074)	

ZINC

Variable: ZINC	Definition: Zinc (mg), per 100g	Type: Numeric
Range:	0 – 51.7	
Missing observations (.):	286 (out of 116,074)	

SFA40

Variable: SFA40	Definition: Saturated fatty acid 4:0 (butanoic) (g), per 100g	Type: Numeric
Range:	0 – 3.226	
Missing observations (.):	288 (out of 116,074)	

SFA60

Variable: SFA60	Definition: Saturated fatty acid 6:0 (hexanoic) (g), per 100g	Type: Numeric
Range:	0 – 2.007	
Missing observations (.):	288 (out of 116,074)	

SFA80

Variable: SFA80	Definition: Saturated fatty acid 8:0 (octanoic) (g), per 100g	Type: Numeric
Range:	0 – 2.51	
Missing observations (.):	288 (out of 116,074)	

SFA100

Variable: SFA100	Definition: Saturated fatty acid 10:0 (decanoic) (g), per 100g	Type: Numeric
Range:	0 – 2.782	
Missing observations (.):	288 (out of 116,074)	

SFA120

Variable: SFA120	Definition: Saturated fatty acid 12:0 (dodecanoic) (g), per 100g	Type: Numeric
Range:	0 – 14.91	
Missing observations (.):	288 (out of 116,074)	

SFA140

Variable: SFA140	Definition: Saturated fatty acid 14:0 (tetradecanoic) (g), per 100g	Type: Numeric
Range:	0 – 7.436	
Missing observations (.):	288 (out of 116,074)	

SFA160

Variable: SFA160	Definition: Saturated fatty acid 16:0 (hexadecanoic) (g), per 100g	Type: Numeric
Range:	0 – 21.697	
Missing observations (.):	288 (out of 116,074)	

SFA180

Variable: SFA180	Definition: Saturated fatty acid 18:0 (octadecanoic) (g), per 100g	Type: Numeric
Range:	0 – 11.2	
Missing observations (.):	288 (out of 116,074)	

MFA161

Variable: MFA161	Definition: Monounsaturated fatty acid 16:1 (hexadecenoic) (g), per 100g	Type: Numeric
Range:	0 – 2.83	
Missing observations (.):	288 (out of 116,074)	

MFA181

Variable: MFA181	Definition: Monounsaturated fatty acid 18:1 (octadecenoic) (g), per 100g	Type: Numeric
Range:	0 – 71.269	
Missing observations (.):	288 (out of 116,074)	

MFA201

Variable: MFA201	Definition: Monounsaturated fatty acid 20:1 (eicosenoic) (g), per 100g	Type: Numeric
Range:	0 - 1.037	
Missing observations (.):	288 (out of 116,074)	

MFA221

Variable: MFA221	Definition: Monounsaturated fatty acid 22:1 (docosenoic) (g), per 100g	Type: Numeric
Range:	0 – 1.345	
Missing observations (.):	288 (out of 116,074)	

PFA182

Variable: PFA182	Definition: Polyunsaturated fatty acid 18:2 (octadecadienoic) (g), per 100g	Type: Numeric
Range:	0 - 41.3	
Missing observations (.):	288 (out of 116,074)	

PFA183

Variable: PFA183	Definition: Polyunsaturated fatty acid 18:3 (octadecatrienoic) (g), per 100g	Type: Numeric
Range:	0 – 22.813	
Missing observations (.):	288 (out of 116,074)	

PFA184

Variable: PFA184	Definition: Polyunsaturated fatty acid 18:4 (octadecatetraenoic) (g), per 100g	Type: Numeric
Range:	0 – 0.278	
Missing observations (.):	288 (out of 116,074)	

PFA204

Variable: PFA204	Definition: Polyunsaturated fatty acid 20:4 (eicosatetraenoic) (g), per 100g	Type: Numeric
Range:	0 - 0.504	
Missing observations (.):	288 (out of 116,074)	

PFA205

Variable: PFA205	Definition: Polyunsaturated fatty acid 20:5 (eicosapentaenoic) (g), per 100g	Type: Numeric
Range:	0 – 0.94	
Missing observations (.):	288 (out of 116,074)	

PFA225

Variable: PFA225	Definition: Polyunsaturated fatty acid 22:5 (docosapentaenoic) (g), per 100g	Type: Numeric
Range:	0 - 0.247	
Missing observations (.):	288 (out of 116,074)	

PFA226

Variable: PFA226	Definition: Polyunsaturated fatty acid 22:6 (docosahexaenoic) (g), per 100g	Type: Numeric
Range:	0 – 1.523	
Missing observations (.):	288 (out of 116,074)	