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AVERAGE WEIGHT OF A MEASURED CUP OF VARIOUS FOODS

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AVERAGE WEIGHT OF A MEASURED CUP OF VARIOUS FOODS

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INTRODUCTION

Average weight and standard deviation of a measured cup of various prepared foods are presented in tabular form to assist food technologists in the development, standardization, and testing of recipes. The information will be useful to food service managers, teachers, students, home economists engaged in test kitchen research and education programs, dietitians, and consultants concerned with advising consumers on the use and purchase of food.

Some of the cookbooks for quantity food service have lists of approximate measures for given weights of commonly used foods; but, in general, this type of information is not readily available. Unpublished data collected by the Human Nutrition Research Division and others were used by the American Home Economics Association in compiling a listing of weights of one cup of a limited number of foods. These data are also used in deriving the nutritive values of foods in common household measures.

These data on the actual weights of one cup of a number of food materials in various forms were obtained in the food laboratory during the last 12 years. The data reflect the normal variation in measuring volumes of food materials. The cooked foods for which data are given were not in all cases prepared from the same lot of food as the uncooked foods. The number of samples of each food varied from two to 510.

The foods are listed in alphabetical order. The form of the food as purchased is given in the first column of the table. Fresh is used to describe foods that are purchased without being processed. Canned or bottled and frozen, dehydrated, or dry are used to describe processed forms of the foods. To further describe the form of the food when purchased, other terms such as slices, sweetened, and low moisture are used when applicable. To describe the variety or kind of a food, the terms such as Fordhook and all-purpose are used.

In the second column of the table, the way the food is prepared for use is described. Preparation procedures indicate the method of cutting the food into finer pieces, such as chopping, dicing, or mashing, whether the food was uncooked or cooked and whether sugar or other ingredients were added during the cooking process. Cooked foods were prepared by either household or quantity cooking procedures. All foods that were drained before measuring are described as "drained solids." Foods containing liquid that were not drained are described as "solids and liquid." When possible terms used to describe the various forms of a food are the same as those given in tables of food composition published by the U.S. Department of Agriculture.

² Fowler, S. F., West, B. B., and Shugart, G. S. Food for fifty. 4th Ed. 446 pp. John Wiley and Sons, Inc., New York 1961.

¹ The authors express their appreciation to Karen L. Berke (resigned) and Patricia K. Vandersall (resigned) for assistance in the laboratory and to Helen Crutchfield for assistance in compiling the data for publication.

Kotschevar, Lendal H. Standards, principles and techniques in quantity food production. 695 pp. Edward Brothers, Inc., Michigan 1964.

³ American Home Economics Association, Handbook of food preparation, 71 pp. Washington, D.C. 1964, ⁴ U.S. Agricultural Research Service, Nutritive value of foods, U.S. Dept. Agr., Home and Garden Bul. 72, ⁶ pp.

⁵ U.S. Agricultural Research Service. Composition of foods--raw, processed, prepared. U.S. Dept. Agr., Agr. Handb. 8, 190 pp. 1963.

The average weight of one cup of the food material, the number of samples tested, and the standard deviation of the weight (a measure of the variation of the data on all samples weighed), and the item number are included for each food.

Dry food items were measured in cups that measured one cup at the top rim. The cup was filled with the food material, and the top was leveled with the thin edge of a metal spatula. All materials were spooned lightly into the cup unless a special measuring technique, such as dipping, is included in the description of the food item. Liquid food materials and foods in juice were measured in glass measuring cups filled to the one-cup mark. Food items were weighed to the nearest gram or were converted to grams from weights recorded to the nearest one-eighth or one-fourth ounce.

AVERAGE WEIGHT AND STANDARD DEVIATION OF A MEASURED CUP OF VARIOUS FOODS

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Almonds	Chopped	127 157	5.4 5.1	18 10	1 2
Chocolate		180 197	3.0 4.6	10 10	3 4
Apples: Fresh, all varieties	Uncooked, pared:				
	Diced	109 122 252	3.6 8.2 10.5	11 5 9	5 6 7
Canned: Slices	Solids and liquid	225 213	15.7 13.3	24	8 9
Dehydrated: Regular-dried:					
Rings	Uncooked	86	6.9	24	10
	Solids and liquid	242 243	2.7 7.2	11 11	11 12
Low-moisture: Slices	Cooked, chilled: Solids and liquid Drained solids	240 228	8.5 19.0	7 7	13 14
Applesauce: Canned		259	6.1	12	15
Low-moisture	Cooked, chilled: Solids and liquid Drained solids	235 231	8.9 10.6	9	16 17
Apricots: Fresh	HalvesWhole	156 115	7.7 11.8	6 5	18 19
Canned, in sirup: Halves Whole	Solids and liquid	252 217 258	8.5 15.1 7.0	8 12 9	20 21 22
Dehydrated:	Drained solids	225	14.5	9	23
Regular-dried: Halves	Uncooked	127	3.0	10	24
	Solids and liquid Drained solids Drained solids, chopped	245 249 220	5.7 6.8 19.2	31 24 10	25 26 27
Low-moisture: Slices	Cooked, chilled: Solids and liquid Drained solids	245 247	10.0	10 9	28 29
Asparagus: Fresh	Cooked, drained solids, spears	187	12.4	18	30
Frozen: Cuts and tips	Cooked, drained solids	181	11.6	15	31
Canned: Spears	Drained solids	215	12.3	5	32
Avocado, fresh	Diced	147 231	4.8 1.5	7 6	33 34

				_	
Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Baking powder: Phosphate		217 177 181	2.8 4.3 2.6	38 27 10	35 36 37
Bananas, fresh:	Chunks	143 222 146	3.1 8.5 24.1	7 9 5	38 39 40
Beans: Great Northern: Dry	Uncooked	178 170	9.7 3.7	22 10	41 42
Green: Fresh	Uncooked: French style	79 105 137	4.6 3.1 18.7	10 8 17	43 44 45
Canned: Cut	Drained solids	141	12.9	12	46
Cut	Cooked, drained solids	161	17.4	22	47
Canned	Solids and liquid	256 180 186 185	6.4 5.7 13.1 9.7	10 11 24 20	48 49 50 51
Lima: Fresh	Cooked, drained solids	169 174	6.4 7.4	10 11	52 53
Fordhook Baby	Cooked, drained solids	168 173	11.2 8.7	14 18	54 55
Dry: Baby Large Mung, dry Navy, dry	Uncooked Uncooked Uncooked Uncooked Cooked, drained solids	192 177 210 207 191	5.5 2.0 4.6 4.2 1.5	13 12 10 22 20	56 57 58 59 60
Pinto, dry	Uncooked	192 164 162	7.7 4.1 4.4	40 17 9	61 62 63
Beans sprouts, canned	Solids and liquid	160 142	31.1 11.8	14 13	64 65
Beef, fresh: Ground	Uncooked	226	12.8	14	66
	Chopped	128 143	2.0 6.3	12 6	67 68
Beets: Fresh	Cooked, pared: Chopped or diced	180 205	5.9 11.3	6 14	69 70
Canned: Diced	Drained solids Drained solids Drained solids	163 176 159	7.7 12.9 9.9	7 13 15	71 72 73

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Blackberries:					
Fresh	Uncooked:				
	Unwashed	128	2.9	8	74
	Washed, drained solids	146	8.6	14	75
	Cooked: Solids and liquid	259	3.7	7	76
	Drained solids	203	9.9	5	77
Canned, in sirup	Solids and liquid	260	4.1	9	78
Frozen, sweetened	Drained solids	175 252	6.0 6.8	8 7	79 80
Blackeye peas (cowpeas):					
Fresh	Uncooked	144	3.5	4	81
_	Cooked, drained solids	163	-	3	82
Frozen	Cooked, drained solids	171 168	14.4	10	83 84
Diy	Cheoored	100	3.1	10	04
Blueberries:		146			0.5
Fresh	Uncooked	146 250	4.0	8	85 86
Calification, wild, in strap	Drained solids	170	7.2	10	87
Frozen:					
Unsweetened	Uncooked, solids and liquid Uncooked:	165	9.3	32	88
Sweetened	Solids and liquid	228	13.6	10	89
	Cooked: Solids and liquid	246	13.2	7	90
	Drained solids	163	-	2	91
Bread crumbs	Dry	102	15.9	7	92
	Soft	46	5.7	10	93
Bread stuffing:					
Mix, herb-seasoned, crumb-	Unprepared	71	9.4	20	94
type.	Stuffing prepared from mix:				
	Dry type	141	9.2	20	95
	Moist type	203	32.2	20	96
Broccoli, frozen:					
Chopped	Cooked, drained solids	188	21.3	10	97
Spears	Cooked, drained solids	185	13.6	15	98
Brussels sprouts, fresh	Cooked, drained solids	180	5.9	9	99
Buttermilk		242	3.7	10	100
Butteroil		204	3.8	20	101
O.hh forely	TT 1 - 1 -				
Cabbage, fresh	Uncooked: Chopped	89	10.3	16	102
	Shredded	61	4.5	31	103
	Slices	82	11.4	20	104
	Cooked, drained solids: Shredded	146	13.1	12	105
	Slices	144	22.0	18	105
	Wedges	184	19.6	18	107
Contain South	Cubed	162	15.3	5	108

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Carrots: Fresh	Uncooked: Chunks Diced Shredded Slices Strips Cooked, drained solids:	138 144 109 127 117	3.4 6.8 22.8 5.9 8.3	10 11 13 9 18	109 110 111 112 113
	Chunks	164 140 153	12.3 7.6 7.9	13 16 7	114 115 116
Canned: Diced	Drained solids	159	5.8	7	117
Diced	Cooked, drained solids	165	9.8	9	118
Catsup		282	3.6	5	119
Cauliflower: Fresh	Uncooked, slices	83 125 179	4.9 30.7 9.0	11 24 12	120 121 122
Celery, fresh	Uncooked: Chopped or very finely diced Diced or cut in chunks	119 121 106	11.3 9.5 5.4	16 21 11	123 124 125
	Cooked, drained solids: Diced or cut in chunks	153 168	17.3 5.1	26 6	126 127
Celery cabbage, fresh	Uncooked, strips	59	3.7	20	128
Cereals, ready-to-eat: 1 Corn: Cocoa Puffs Corn Chex Corn Flakes Corn Kix Frosted Flakes Hi-Pro Sugar Pops Trix Mixed:		30 29 29 19 43 23 31 33	.8 .6 2.2 .5 2.1 1.2 .8 .9	10 10 10 10 10 10 10 10	129 130 131 132 133 134 135 136
Alpha Bits Concentrate Grape Nuts Grape Nut Flakes Oat Flakes Special K		34 79 109 39 41 23	1.1 2.3 2.9 2.1 2.1 .6	10 10 10 10 10	137 138 139 140 141 142
Oat: Cherrios		28 46	1.3 3.4	10 10	143 144
Rice: Puffed Rice Rice Chex. Rice Honeys Rice Krinkles. Rice Krispies		13 33 37 43 27	.6 2.8 .9 1.6 1.0	10 10 10 10 10	145 146 147 148 149

See footnote at end of table.

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Cereals, ready-to-eat 1-continued					
Wheat: All-bran		61	3.6	10	150
Bran Buds		75	1.9	10	151
40% Bran Flakes		34	1.6	10	152
Puffed Wheat		12 57	.7 5.1	10 10	153 154
Shredded Wheat		35	2.5	10	155
Sugar Crisp		35 56	1.5 4.4	10	156 157
Wheat Germ		113	1.4	10	158
Wheaties	0-1-1	32	2.0	10	159
Flakes	Crushed	70	1.1	10	160
Chard, Swiss, fresh	Cooked, drained solids	191	9.7	9	161
Cheese: American and Cheddar	Diced	131	13.3	4	162
Tanious asia Circacat i i i	Shredded	111	18.9	19	163
Cottage		233 230	2.3 4.8	10 8	164 165
Parmesan, grated		106	3.4	6	166
Cherries:					
Bing, fresh	Unpitted	158 163	6.9 6.8	19 17	167 168
Dark, sweet:					
Canned, in sirup, with pits.	Drained solids: Unpitted	191	7.5	6	169
pits.	Pitted	208	16.3	2	170
Canned, in sirup, without	Solids and liquid	235 176	9.1 8.3	11	171 172
pits. Maraschino, canned:	Diamed solids	170	0.3	11	1/2
Large	Drained solids	178	8.0	10	173
Small	Drained solids	192	13.4	10	174
Canned:					
Pitted, water pack	Solids and liquid	215 177	16.0 7.9	6	175 176
Frozen:	Dramed sonds	1//	1.9	9	1/0
Pitted, sweetened	Uncooked:	256		10	100
	Solids and liquid	259 210	7.1	10 10	177 178
	Cooked:				
Royal Anne:	Solids and liquid	274	8.5	10	179
Canned, in sirup	Solids and liquid	260	8.3	11	180
	Drained solids	191	5.1	9	181
Chicken: Fresh or frozen:					
Whole	Cooked, deboned:				
	Chopped	143	6.5	13	182
	Diced	134 113	7.2 1.2	5 10	183 184
Breasts	Fried, deboned	144	15.6	14	185

See footnote at end of table.

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	ltem number
		Grams	Grams		
Chicory, fresh	Cut in pieces	53	5.9	13	187
Chili sauce		247	9.6	12	188
Chop suey vegetables, canned .	Solids and liquid	228 188	9.1 9.6	5 6	189 190
Clam liquor, canned		236	5.8	10	191
Cocoa		86	8.9	14	192
Cocoa mix		139	3.4	7	193
Coconut: Fresh	Grated.	80 92 94 77	4.9 10.9 4.5 7.2	6 29 12 30	194 195 197 196
Collard greens, frozen, chopped	Cooked, drained solids	170	21.5	12	198
Cookies: Ginger snap	Crumbs	115 86	2.0 13.8	21	199 200
Corn, white: Canned: Cream-style	Heated	250	6.0	13	201
Whole kernel: Vacuum pack With liquid	Heated	212 159	4.9 5.4	10 11	202 203
Corn, yellow: Fresh	Cut from cob, cooked, drained solids	166	7.4	6	204
Cream-style	Heated	253 173	5.9 10.6	16 7	205 206
Frozen: Whole kernel	Cooked, drained solids	182	11.8	19	207
Cornmeal: White, degerminated White, self-rising, wheat flour added.		129 141	11.5	14 10	208 209
Yellow, degerminated		148	9.2	25	210
Corn sirup, light		325	10.7	33	211
Cranberry sauce, canned	,	271	6.5	13	212
Cucumber, fresh	Pared, diced	144	8.7	10	213
Dates, dehydrated, regular-dried	Chopped	174	11.9	10	214
Eggplant, fresh	Cooked, drained solids, diced	201	10.2	18	215

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Eggs, large, shell	Shelled: Whites. Whole. Yolks.	255 251 240	5.6 6.0 3.3	8 8 8	216 217 218
Escarole, fresh	Shredded or broken in pieces	71	6.2	6	219
Figs: Canned, whole	Solids and liquid	253 208	17.8 17.4	14 10	220 221
Dehydrated, regular-dried .	Chopped	171	13.0	32	222
Fish, see individual listings					
Flour: Rice	Stirred, spooned	158	4.1	43	223
Dark	Unstirred	128 127	3.4 2.5	10 10	224 225
Light	Unsifted, spooned	101 88	10.0 7.4	41 20	226 227
Tapioca	Unsifted, spooned	107	.8	10	228
All-purpose ²	Unsifted: Dipped	143 126 116	4.8 2.8 1.9	300 510 500	229 230 231
Bread	Unsifted: Dipped Spooned	136 123	6.5	40 40	232 233
Cake ²	Sifted, spooned Unsifted: Dipped	117	3.1	300	234
Gluten	Spooned	111 99 142	2.4 1.6 4.0	300 300 10	236 237 238
Self-rising	Dipped	135 136	2.6 1.5	10	239 240
Whole wheat	Dipped Spooned Sifted, spooned Stirred, spooned	130 127 106 137	4.4 4.1 2.7 5.9	10 10 10 23	241 242 243 244
Fruits, see individual listings	,,,				
Fruit cocktail: Canned, in sirup	Solids and liquid	256 213	6.5 15.2	13 15	245 246
Fruits for salad, canned, in sirup.	Solids and liquid	246	9.4	6	247
Gelatin, flavored		187	13.9	8	248
Grapefruit: Fresh	Sections: Solids and liquid Drained solids	226 200	12.8 15.0	13 14	249 250

See footnote at end of table.

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Grapefruit-continued Canned, sections, sweetened Frozen, sections, unsweetened		256 241 241	2.9 3.7 6.9	6 8 24	251 252 253
	Drained solids	219	12.6	14	254
Grapes, seedless, fresh	Halves	171 174	8.9 8.4	16 14	255 256
Hominy grits	Uncooked	156 236	5.1 6.5	43 48	257 258
Honey, strained		326	10.9	12	259
Honeydew melon, fresh	Diced	168	9.7	17	260
Kale: Canned	Drained solids	163 184	16.2 16.5	12 11	261 262
Lemon juice: Canned, plastic lemon		227	1.6	12	263
Lemons, fresh	Juice	250	4.0	13	264
Lemonade, frozen concentrate	Thawed	283 242	6.8 4.1	10 10	265 266
Lentils, whole, dry	Uncooked	191 202	5.8 16.9	11 6	267 268
Lettuce, iceberg, fresh	Leaves	66 59 74	5.0 4.4 7.1	24 6 20	269 270 271
Luncheon meat	Chopped	136 141	9.2 3.3	9 11	272 273
Macaroni, elbow	Uncooked	136	6.2	26	274
Mango, fresh	Diced	163 163	5.7	2 4	275 276
Margarine		226	2.9	6	277
Meat, see individual listings.					
Melon balls, frozen, in sirup	Solids and liquid	231	20.1	10	278
Milk: Whole: Fresh fluid	Packed Spooned	241 145 121	8.5 4.5 4.7	47 20 30	279 280 281
Nonfat dry: Crystals	Dry Reconstituted	75 134 240	2.0 13.2 9.0	80 8 19	282 283 284
Molasses		309	11.3	24	285

AVERAGE WEIGHT AND STANDARD DEVIATION OF A MEASURED CUP OF VARIOUS FOODS-Continued

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Mushrooms, fresh	Uncooked, slices	68 175	4.7 19.5	18 22	286 287
Mustard greens: Fresh	Cooked, drained solids	221	14.8	7	288
Frozen: Chopped	Cooked, drained solids	214	16.5	8	289
Nuts, see individual listings.					
Oats, rolled: Quick	Uncooked	71 109 72	4.8 1.6 6.2	60 11 60	290 291 292
Oil, cooking		210	4.7	7	293
Okra: Fresh	Cooked, drained solids: Slices	160 177 171	8.2 15.3 25.8	7 6 7	294 295 296
Frozen: Cut	Cooked, drained solids	184 138	17.3 1.1	14 10	297 298
Olives, ripe	Slices	135	4.0	14	299
Onions: Green, fresh	Uncooked slices	99	19.5	5	300
Large	Uncooked: Chopped Grated Ground Slices	173 231 238 113	37.1 9.0 6.2 18.8	26 10 11 8	301 302 303 304
White, pearl Dehydrated, low-moisture, slices.	Cooked, drained solids: Halves or pieces Whole Whole, cooked, drained solids Dry Reconstituted, drained solids	179 209 185 64 143	11.0 10.7 5.2 — 12.1	13 13 10 6 12	305 306 307 308 309
Orange juice: Fresh	Thawed	246 268 245	3.1 5.2 3.8	10 11 7	310 311 312
Oranges, fresh	Juice	244 241 219	1.8 12.1 12.5	15 5 13	313 314 315
Oranges, mandarin, canned, sections	Solids and liquid	247 186	8.8 5.4	12 11	316 317
Parsnips, fresh	Cooked, drained solids, cut in pieces	211	14.7	8	318

AVERAGE WEIGHT AND STANDARD DEVIATION OF A MEASURED CUP OF VARIOUS FOODS--Continued

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Peaches:					
Fresh	Uncooked: Diced	266 177	1.8 14.5	12 38	319 320
	Cooked, sugar added, slices: Solids and liquid Drained solids	241 223	4.9 3.1	17	321 322
Canned, in sirup: Halves	Solids and liquid	255	14.7	6	323
Slices	Drained solids	224 253 218	19.0 6.9 16.1	8 30 17	324 325 326
Frozen, in sirup:					
Halves	Cooked, solids and liquid	250	7.2	6	327
	Solids and liquid	236 219	8.9 2.2	20 10	328 329
Dehydrated:	Solids and liquid	240 228	16.6 2.3	17 9	330 331
Regular-dried, halves	Uncooked	176 217	10.0 16.2	10 9	332 333
	Solids and liquid	242 232	7.7 14.9	24 24	334 335
Low-moisture, slices	Cooked, chilled: Solids and liquid Drained solids	249 247	9.8 8.2	11 9	336 337
Peanut butter		251	14.6	32	338
Peanuts	Chopped	138	3.8	26	339
Pears: Fresh	Uncooked: Unpared, slices	164	10.1	13	340
	Pared, slices	170	8.8	10	341
	Solids and liquid	236 215	8.4 10.1	9	342 343
Canned, in sirup, halves	Solids and liquid	229 227	13.0 27.3	6	344 345
Peas:					
Green: Fresh	Uncooked	138 163	4.3 7.5	6 13	346 347
Canned	Drained solids Uncooked Cooked, drained solids	172 145 167	5.5 10.3 8.5	5 14 19	348 349 350
Split, green or yellow: Dry	Uncooked	203	8.7 17.4	42 12	351 352
Peas and carrots: Canned	Drained solids	160 174	5.2 6.3	11 12	353 354
Pecans	Chopped	105	3.5	11	355

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Peppers, chili, green, canned	Drained solids	237	7.2	10	356
Peppers, sweet, green, fresh	Uncooked: Chopped Slices Strips Cooked, drained solids, strips	150 82 98 135	26.0 18.8 2.9 13.7	12 16 6 6	357 358 359 360
Pickle relish	Solids and liquid	243	16.2	16	361
Pickles, sweet	Chopped	148	10.5	10	362
Pineapple: Fresh	Diced	155	11.5	13	363
Chunks	Drained solids Solids and liquid. Drained solids	202 262 254 278 186 258 187 246 204	10.9 15.3 18.5 15.3 27.9 9.2 13.6 12.9 16.9	10 6 8 10 15 10 10 13 6	364 365 366 367 368 369 370 371 372
Pistachios, in shell	In shell Shelled	133 125	7.1 4.7	10 10	373 374
Plums, blue: Fresh	Halves	159 234 223	18.1 4.4 22.7	13 6 8	375 376 377
Plums, red: Fresh	Diced	164 176 169	10.0 14.8 10.0	15 13 15	378 379 380
Pork: Fresh	Uncooked: Diced Strips Cooked, chopped Uncooked, ground	234 233 142 170	8.8 10.4 3.2 3.9	14 15 10 10	381 382 383 384
eating.	Cooked: Chopped Diced Ground	138 147 109	8.1 13.4 1.9	10 8 11	385 386 387
Potatoes: Fresh	Uncooked: Chopped Diced Slices Cooked, drained solids:	147 157 149	11.6 19.6 8.0	13 13 11	388 389 390
	Diced	156 207 227 159	7.4 25.0 4.3 9.8	14 19 12 11	391 392 393 394

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Potatoes-continued					
Canned:	Drained solids	179	7.2	6	395
Small, whole Dehydrated:				6	
Flakes	Dry	46 214	6.7	10	396 397
Granules	Dry	201	7.2	10	398
	Reconstituted	210	10.9	17	399
Poultry, <u>see</u> individual listings.					
Prunes: Canned	Solids and liquid	266	7.7	15	400
	Drained solids	190	8.0	15	401
Dehydrated: Regular-dried, with pits.	Uncooked:				
	Whole	187	12.6	11	402
	Chopped	150	5.0	11	403
	Ground	274	1.1	5	404
	Unchilled:	250	42.0		405
	Solids and liquid Drained solids:	258	43.9	5	403
	Pitted	210 223	27.7 25.0	12 12	406 407
	Chilled:				
	Solids and liquid Drained solids	249 229	6.5 9.6	50	408 409
Low-moisture, pitted	Cooked, chilled: Solids and liquid	251	8.2	10	410
	Drained solids	246	8.6	9	411
Pumpkin:					
Fresh	Cooked, mashed	247 243	5.3	6 9	412 413
Dehydrated flakes		105	5.9	5	414
Radishes, fresh	Slices	114	5.3	6	415
	Whole	132	9.7	5	416
Raisins	Uncooked:				
	Chopped	162 269	20.2	14 8	417
	Whole	143	11.0	13	419
	Cooked, chilled: Solids and liquid	243	7.1	13	420
	Drained solids	182	7.8	12	421
Raspberries, red:		144	5.1		422
Frozen, sweetened	Uncooked:	144	5.1	9	422
	Solids and liquid	249 218	6.4 7.4	21	423 424
	Diamon sould 1	210	,		
Rhubarb: Fresh	Cooked, sugar added, solids and liquid	240	33.1	24	425
Frozen, in sirup	Uncooked: Solids and liquid	220	27.6	20	426
	Drained solids	168	13.7	12	427
	Cooked: Solids and liquid	248	10.9	15	428

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	ltem number
		Grams	Grams		
Rice:					
Long-grain	Uncooked	198	15.1	15	429
Precooked	Cooked	169 140	18.0 14.6	20 18	430 431
Romaine, fresh	Shredded and broken in pieces	48	4.6	6	432
Rutabagas, fresh	Uncooked, diced	139	5.6	12	433
	Cooked, drained solids: Diced	171 243	8.8 17.0	11 24	434 435
	Mashed	243	17.0	24	433
Salad dressing:					
Blue cheese: Bottled, regular		248	6.7	10	436
Bottled, low-calorie:					
5 Cal. per tsp		257 244	3.4 4.8	10	437 438
1 Cal. per tsp Cooked, bottled		233	3.4	10	436
French:					
Bottled, regular		248	4.2	10	440
Bottled, low-calorie: 12 Cal. per tsp		236	3.6	10	441
6 Cal. per tsp		259	4.7	10	442
1 Cal. per tsp		243	5.3	10	443
Italian: Bottled, regular		233	8.8	10	444
Bottled, low-calorie,		241	5.4	10	445
3 Cal. per tsp.		221	2.0	10	446
Mayonnaise, bottled,regular Mayonnaise, imitation,		221 251	2.8	10	446
bottled, low-calorie,					
7 Cal. per tsp.		247	2.4	10	440
Russian, bottled Thousand Island:		247	2.4	10	448
Bottled, regular		250	5.0	10	449
Bottled, low-calorie, 11 Cal. per tsp.		247	2.7	10	450
Salt, free running		292	3.0	27	451
Sandwich spread, bottled		246	4.7	10	452
Sauerkraut, canned	Drained solids	142	15.0	24	453
Sirup, chocolate, canned		301	5.6	10	454
Soup:					
Beef-flavored noodle, dehydrated.	Reconstituted	229	6.2	10	455
Chicken noodle, dehydrated	Reconstituted	230	5.9	10	456
Chicken rice, dehydrated	Reconstituted	228	3.9	10	457
Green pea, dehydrated	Reconstituted	242	6.3	10	458
Onion, dehydrated	Reconstituted	230	5.8	10	459
Tomato-vegetable, dehydrated.	Reconstituted	228	6.9	10	460
Sour cream		241	7.4	14	461

AVERAGE WEIGHT AND STANDARD DEVIATION OF A MEASURED CUP OF VARIOUS FOODS-Continued

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	ltem number
		Grams	Grams		
Spinach: Fresh	Uncooked: Chopped Whole Ieaves	52 33	5.2	13 27	463 464
Canned	Cooked, drained solids, whole leaves Drained solids	156 223	8.1 14.1	9	465 466
Squash: Acorn, fresh	Cooked, drained solids, mashed	231	3.3	13	467
Frozen, cooked	Cooked, drained solids: Diced	235 244 241	3.1 3.7 3.8	5 7 13	468 469 470
White summer, fresh Yellow summer, fresh	Cooked, drained solids, mashed	238	2.2	10	471
Zucchini, fresh	Slices	176 152	17.8	18	473 474
Strawberries: Fresh	Whole	144	13.2	17	475
Slices	Solids and liquid	254 239 253	4.3 11.5 13.1	10 8 19	476 477 478
	Drained solids	204	20.8	10	479
Succotash, frozen	Cooked, drained solids	192	13.6	18	480
Sugar: Brown Brownulated Confectioner's	Packed	212 152 123 95	23.0 1.7 5.5 3.4	104 8 8 24	481 482 483 484
Granulated		195	7.7	72	485
Sweetpotatoes: Fresh	Cooked, drained solids: Mashed	253 159	7.2 13.3	23 21	486 487
Canned, in sirup Dehydrated flakes	Drained solids Dry Reconstituted	200 116 253	17.7 5.2 4.9	16 22 21	488 489 490
Tangerines, fresh	Sections, without membrane	193	7.6	9	491
Tartar sauce, bottled		231	5.9	10	492
Tomatoes: Fresh	Slices	181 238 258 250	14.3 6.9 10.6 10.4	18 24 6 20	493 494 495 496
Topping, chocolate fudge, canned.		300	5.9	10	497
Turkey, fresh or froz≎n	Cooked: Chopped Diced Broth	141 135 237	12.5 6.6 3.4	15 9 8	498 499 500

AVERAGE WEIGHT AND STANDARD DEVIATION OF A MEASURED CUP OF VARIOUS FOODS-Continued

Food item and form purchased	Form of food prepared for use	Weight of 1 cup	Standard deviation	Number of samples	Item number
		Grams	Grams		
Turnip greens: Canned	Drained solids	159 163	19.6 26.5	20 15	501 502
Turnips: Fresh	Uncooked, slices	127	5.6	20	503
	Diced	157 228	7.9 6.1	10 12	504 505
Vegetables, see individual listings					
Vegetables, mixed: Canned	Drained	163 182	11.7 13.8	15 15	506 507
Vinegar		239	3.2	10	508
Walnuts	Chopped	119	5.4	11	509
Watercress, fresh		33	1.7	5	510
Watermelon, fresh	Diced	160	6.6	8	511
Whey, liquid		244	1.5	10	512
Wheat, rolled: Hard	Uncooked	87 217 89	10.9 12.4 6.0	59 6 70	513 514 515
White sauce: Thin Medium Thick	Prepared from standard formula ³ Prepared from standard formula ³ Prepared from standard formula ³	250 255 247	3.8 8.4 6.1	10 10 10	516 517 518
Yeast, active dry		148	6.3	12	519
Yoghurt: Whole milk		246 249	4.6 5.1	10 10	520 521

Ready-to-eat cereals are listed by brand name only as a means of identification.

From Matthews, Ruth H., and Batcher, Olive M. Sifted versus unsifted flour. Jour. Home Econ. 55 (2): 123-24. 1963.

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