

# Total Diet Study Statistics on Element Results 1991-1996

U.S. Food and Drug Administration  
Washington, DC

<b>Na</b>	<b>Mg</b>												<b>P</b>				
<b>K</b>	<b>Ca</b>				<b>Mn</b>	<b>Fe</b>		<b>Ni</b>	<b>Cu</b>	<b>Zn</b>			<b>As</b>	<b>Se</b>			
										<b>Cd</b>							
										<b>Hg</b>		<b>Pb</b>					

Revision 0  
June 15, 1999

Summaries of element analytical results in food and nominal element analytical limits are provided for samples analyzed under the Food and Drug Administration's Total Diet Study program. The information pertains to Total Diet Study market baskets 91-3 through 97-1 collected between September 1991 and November 1996.

Notes

- LOD: Limit of Detection.
- LOQ: Limit of Quantification.
- Trace: Analytical result is greater than LOD but less than LOQ.
- Statistics were calculated using value of 0 for results below LOD.
- Nominal LODs and LOQs are provided since the actual LOD and LOQ for a particular food may have varied among market baskets due to slight differences in mass of sample analyzed or changes in the analytical method.

Document Name: Total Diet Study Statistics on Element Results 1991-96

Revision 0

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This document is available on the Internet at <<http://www.cfsan.fda.gov/~lrd/pestadd.html>>.

US Food and Drug Administration  
Center for Food Safety and Applied Nutrition  
Office of Plant and Dairy Foods and Beverages  
Division of Pesticides and Industrial Chemicals  
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**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Cadmium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4695</b>	<b>1950</b>	<b>596</b>	<b>0.010</b>	<b>0.018</b>	<b>0</b>	<b>0.323</b>	<b>0.004</b>		
whole milk, fluid	1	18	18	0	0	0	0	0	0	0.002	0.005
lowfat (2% fat) milk, fluid	2	18	18	0	0	0	0	0	0	0.002	0.005
chocolate milk, fluid	3	18	15	3	0.001	0.001	0	0.004	0	0.002	0.005
skim milk, fluid	4	18	17	0	0.0002	0.001	0	0.004	0	0.001	0.004
plain yogurt, lowfat	6	18	17	0	0.0003	0.001	0	0.006	0	0.002	0.005
chocolate milk shake, fast-food	7	18	13	5	0.001	0.001	0	0.003	0	0.002	0.005
evaporated milk, canned	8	18	18	0	0	0	0	0	0	0.002	0.005
American, processed cheese	10	18	12	5	0.003	0.008	0	0.032	0	0.003	0.01
cottage cheese, 4% milkfat	11	18	16	2	0.0004	0.001	0	0.004	0	0.002	0.005
cheddar cheese	12	18	18	0	0	0	0	0	0	0.003	0.01
ground beef, pan-cooked	13	18	17	1	0.0003	0.001	0	0.005	0	0.002	0.007
beef chuck roast, baked	14	18	16	2	0.0004	0.001	0	0.005	0	0.002	0.007
beef steak, loin, pan-cooked	16	18	17	0	0.0004	0.002	0	0.008	0	0.002	0.007
ham, baked	17	18	9	8	0.002	0.003	0	0.01	0.002	0.003	0.01
pork chop, pan-cooked	18	18	18	0	0	0	0	0	0	0.002	0.007
pork sausage, pan-cooked	19	18	14	3	0.002	0.004	0	0.016	0	0.003	0.01
pork bacon, pan-cooked	20	18	9	6	0.004	0.006	0	0.021	0.002	0.003	0.01
pork roast, baked	21	18	17	1	0.0003	0.001	0	0.006	0	0.002	0.007
lamb chop, pan-cooked	22	18	16	2	0.0003	0.001	0	0.003	0	0.002	0.007
chicken, fried (breast, leg, and thigh) homemade	24	18	14	4	0.001	0.001	0	0.004	0	0.002	0.007
turkey breast, roasted	26	18	14	3	0.001	0.002	0	0.006	0	0.002	0.005
liver, beef, fried	27	18	0	0	0.077	0.032	0.042	0.173	0.074	0.003	0.01
frankfurters, beef, boiled	28	18	0	17	0.005	0.002	0.003	0.010	0.005	0.003	0.01
bologna, sliced	29	18	3	15	0.004	0.002	0	0.008	0.004	0.003	0.01
salami, sliced	30	18	6	11	0.003	0.003	0	0.010	0.003	0.003	0.01
tuna, canned in oil	32	18	0	0	0.020	0.006	0.011	0.030	0.021	0.002	0.007
fish sticks, frozen, heated	34	18	0	0	0.012	0.010	0.007	0.051	0.010	0.002	0.007
eggs, scrambled	35	18	17	1	0.0002	0.001	0	0.004	0	0.002	0.005
eggs, fried	36	18	18	0	0	0	0	0	0	0.002	0.005
eggs, boiled	37	18	18	0	0	0	0	0	0	0.002	0.005
pinto beans, dry, boiled	38	18	0	9	0.005	0.001	0.003	0.006	0.005	0.002	0.005
pork and beans, canned	39	18	5	10	0.003	0.003	0	0.013	0.003	0.002	0.005
lima beans, immature, frozen, boiled	42	18	16	2	0.0004	0.001	0	0.004	0	0.002	0.005
green peas, fresh/frozen, boiled	46	18	5	10	0.003	0.003	0	0.012	0.003	0.002	0.005
peanut butter, smooth	47	18	0	0	0.056	0.020	0.031	0.106	0.054	0.003	0.01
peanuts, dry roasted	48	18	0	0	0.051	0.019	0.020	0.091	0.045	0.003	0.01

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Cadmium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	1	5	0.007	0.004	0	0.014	0.008	0.002	0.005
oatmeal, quick (1-3 min), cooked	51	18	4	12	0.003	0.002	0	0.007	0.003	0.002	0.005
wheat cereal, farina, quick (1-3min), cooked	52	18	0	5	0.006	0.002	0.004	0.012	0.005	0.002	0.005
corngrits, regular, cooked	53	18	15	2	0.001	0.001	0	0.005	0	0.002	0.005
corn, fresh/frozen, boiled	54	18	9	5	0.002	0.003	0	0.008	0.002	0.002	0.005
cream style corn, canned	56	18	14	4	0.001	0.001	0	0.003	0	0.002	0.005
popcorn, popped in oil	57	18	0	11	0.008	0.003	0.003	0.014	0.008	0.003	0.01
white bread	58	18	0	0	0.018	0.005	0.011	0.029	0.017	0.002	0.007
white roll	59	18	0	0	0.018	0.005	0.013	0.037	0.018	0.002	0.007
cornbread, homemade	60	18	0	7	0.008	0.003	0.005	0.014	0.007	0.002	0.007
biscuit, from refrigerated dough, baked	61	18	0	0	0.019	0.006	0.012	0.031	0.017	0.002	0.007
whole wheat bread	62	18	0	0	0.024	0.003	0.019	0.030	0.023	0.002	0.007
tortilla, flour	63	18	0	0	0.018	0.003	0.011	0.024	0.017	0.002	0.007
rye bread	64	18	0	1	0.016	0.005	0.006	0.028	0.015	0.002	0.007
blueberry muffin, commercial	65	18	0	5	0.008	0.002	0.004	0.012	0.007	0.002	0.007
saltine crackers	66	18	0	0	0.028	0.009	0.011	0.049	0.027	0.003	0.01
corn chips	67	18	8	10	0.002	0.002	0	0.006	0.003	0.003	0.01
pancake from mix	68	18	0	3	0.010	0.002	0.005	0.014	0.010	0.002	0.007
egg noodles, boiled	69	18	0	0	0.027	0.005	0.020	0.040	0.026	0.002	0.005
macaroni, boiled	70	18	0	0	0.028	0.005	0.019	0.035	0.028	0.002	0.005
corn flakes	71	18	9	9	0.002	0.002	0	0.006	0.002	0.002	0.007
fruit-flavored, sweetened cereal	72	18	0	2	0.009	0.003	0.003	0.018	0.008	0.002	0.007
shredded wheat cereal	73	18	0	0	0.057	0.020	0.036	0.126	0.052	0.002	0.007
raisin bran cereal	74	18	0	0	0.047	0.009	0.033	0.065	0.044	0.002	0.007
crisped rice cereal	75	18	0	8	0.007	0.004	0.003	0.020	0.007	0.002	0.007
granola cereal	76	18	0	0	0.019	0.008	0.012	0.045	0.017	0.002	0.007
oat ring cereal	77	18	0	0	0.015	0.003	0.010	0.022	0.014	0.002	0.007
apple, red, raw	78	18	16	2	0.0003	0.001	0	0.003	0	0.002	0.005
orange, raw	79	18	18	0	0	0	0	0	0	0.002	0.005
banana, raw	80	18	18	0	0	0	0	0	0	0.002	0.005
watermelon, raw	81	18	16	2	0.0003	0.001	0	0.003	0	0.001	0.004
peach, raw	83	18	9	7	0.002	0.003	0	0.010	0.002	0.002	0.005
applesauce, bottled	84	18	18	0	0	0	0	0	0	0.002	0.005
pear, raw	85	18	13	4	0.001	0.002	0	0.006	0	0.002	0.005
strawberries, raw	86	18	0	0	0.016	0.012	0.004	0.059	0.013	0.001	0.004
fruit cocktail, canned in heavy syrup	87	18	17	1	0.0002	0.001	0	0.003	0	0.002	0.005
grapes, red/green, seedless, raw	88	18	17	0	0.0002	0.001	0	0.004	0	0.001	0.004

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Cadmium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	0	1	0.008	0.006	0.003	0.029	0.006	0.001	0.004
plums, raw	91	18	17	0	0.0002	0.001	0	0.004	0	0.001	0.004
grapefruit, raw	92	18	17	1	0.0002	0.001	0	0.003	0	0.001	0.004
pineapple, canned in juice	93	18	17	0	0.0002	0.001	0	0.003	0	0.001	0.003
sweet cherries, raw	94	12	12	0	0	0	0	0	0	0.001	0.004
raisins, dried	95	18	16	1	0.001	0.002	0	0.009	0	0.002	0.007
prunes, dried	96	18	13	4	0.001	0.002	0	0.007	0	0.002	0.007
avocado, raw	97	18	0	1	0.027	0.023	0.007	0.106	0.018	0.003	0.01
orange juice, from frozen concentrate	98	18	16	0	0.001	0.002	0	0.007	0	0.001	0.003
apple juice, bottled	99	18	18	0	0	0	0	0	0	0.001	0.003
grapefruit juice, from frozen concentrate	100	18	18	0	0	0	0	0	0	0.001	0.003
prune juice, bottled	103	18	17	1	0.0002	0.001	0	0.003	0	0.001	0.004
lemonade, from frozen concentrate	105	18	18	0	0	0	0	0	0	0.001	0.003
spinach, fresh/frozen, boiled	107	18	0	0	0.125	0.080	0.050	0.282	0.091	0.002	0.005
collards, fresh/frozen, boiled	108	18	0	0	0.039	0.024	0.014	0.095	0.035	0.002	0.005
iceberg lettuce, raw	109	18	0	0	0.066	0.072	0.018	0.323	0.040	0.001	0.004
cabbage, fresh, boiled	110	18	0	5	0.005	0.003	0.003	0.012	0.004	0.001	0.004
coleslaw with dressing, homemade	111	18	2	12	0.005	0.003	0	0.013	0.004	0.002	0.007
sauerkraut, canned	112	18	1	14	0.004	0.001	0	0.007	0.004	0.002	0.005
broccoli, fresh/frozen, boiled	113	18	0	0	0.014	0.008	0.005	0.030	0.010	0.002	0.005
celery, raw	114	18	1	0	0.041	0.019	0	0.094	0.043	0.001	0.004
asparagus, fresh/frozen, boiled	115	18	2	5	0.010	0.010	0	0.033	0.006	0.002	0.005
cauliflower, fresh/frozen, boiled	116	18	0	0	0.009	0.003	0.005	0.015	0.009	0.002	0.005
tomato, red, raw	117	18	1	0	0.011	0.008	0	0.032	0.009	0.001	0.004
tomato sauce, plain, bottled	119	18	0	0	0.025	0.009	0.014	0.051	0.022	0.002	0.007
green beans, fresh/frozen, boiled	121	18	12	4	0.001	0.002	0	0.007	0	0.002	0.005
cucumber, raw	123	18	9	7	0.002	0.002	0	0.005	0.002	0.001	0.004
summer squash, fresh/frozen, boiled	124	18	6	8	0.003	0.003	0	0.014	0.003	0.002	0.005
green pepper, raw	125	18	0	0	0.018	0.013	0.005	0.053	0.013	0.002	0.005
winter squash, fresh/frozen, baked, mashed	126	18	2	1	0.008	0.008	0	0.038	0.006	0.002	0.005
onion, mature, raw	128	18	0	2	0.016	0.01	0.003	0.033	0.013	0.002	0.005
radish, raw	132	18	1	5	0.009	0.007	0	0.027	0.006	0.002	0.005
French fries, frozen, heated	134	18	0	0	0.034	0.013	0.012	0.066	0.036	0.002	0.007
mashed potatoes, from flakes	135	18	0	0	0.022	0.004	0.015	0.031	0.021	0.002	0.005
white potato, boiled without skin	136	18	0	0	0.028	0.011	0.014	0.053	0.025	0.002	0.005
white potato, baked with skin	137	18	0	0	0.039	0.012	0.016	0.059	0.036	0.002	0.005
potato chips	138	18	0	0	0.062	0.027	0.022	0.127	0.060	0.003	0.01

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Cadmium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	0	0.020	0.007	0.007	0.032	0.021	0.002	0.007
sweet potato, fresh, baked	140	18	0	1	0.008	0.003	0.004	0.018	0.007	0.002	0.005
spaghetti with tomato sauce and meat	142	18	0	0	0.020	0.003	0.015	0.027	0.019	0.002	0.005
beef stew with potatoes, carrots, and onion, homemade	143	18	0	0	0.016	0.005	0.009	0.026	0.014	0.002	0.005
macaroni and cheese, from box mix	146	18	0	0	0.016	0.004	0.009	0.021	0.015	0.002	0.007
quarter-pound hamburger on bun, fast-food	147	18	0	0	0.011	0.002	0.007	0.014	0.011	0.002	0.007
meatloaf, homemade	148	18	6	10	0.004	0.004	0	0.015	0.003	0.002	0.007
spaghetti with tomato sauce, canned	149	18	0	0	0.014	0.004	0.008	0.022	0.012	0.002	0.005
lasagna with meat, homemade	151	18	0	0	0.018	0.004	0.013	0.030	0.018	0.002	0.007
chicken potpie, frozen, heated	152	18	0	0	0.011	0.002	0.007	0.016	0.011	0.002	0.007
chicken noodle soup, canned, condensed, prepared with water	155	18	1	12	0.004	0.001	0	0.006	0.004	0.002	0.005
tomato soup, canned, condensed, prepared with water	156	18	1	0	0.008	0.003	0	0.013	0.008	0.002	0.005
vegetable beef soup, canned, condensed, prepared with water	157	18	1	1	0.009	0.008	0	0.037	0.008	0.002	0.005
white sauce, homemade	160	18	13	5	0.001	0.001	0	0.003	0	0.002	0.007
dill cucumber pickles	161	18	9	9	0.002	0.002	0	0.006	0.002	0.002	0.007
margarine, stick, regular (salted)	162	18	16	2	0.002	0.005	0	0.017	0	0.007	0.024
butter, regular (salted)	164	18	17	1	0.0004	0.002	0	0.008	0	0.007	0.024
mayonnaise, regular, bottled	166	18	16	2	0.001	0.003	0	0.012	0	0.007	0.024
half & half cream	167	18	17	1	0.0002	0.001	0	0.003	0	0.003	0.01
cream substitute, frozen	168	18	17	1	0.0002	0.001	0	0.004	0	0.002	0.007
white sugar, granulated	169	18	17	1	0.0002	0.001	0	0.004	0	0.004	0.012
pancake syrup	170	18	17	0	0.001	0.004	0	0.016	0	0.002	0.007
honey	172	18	17	1	0.0002	0.001	0	0.003	0	0.002	0.007
tomato catsup	173	18	0	0	0.024	0.007	0.013	0.041	0.022	0.002	0.007
chocolate pudding, from instant mix	175	18	0	3	0.008	0.006	0.003	0.024	0.006	0.002	0.005
vanilla flavored light ice cream	177	18	18	0	0	0	0	0	0	0.002	0.005
chocolate cake with chocolate icing, commercial	178	18	0	0	0.015	0.007	0.008	0.030	0.013	0.002	0.005
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	12	0.005	0.003	0.003	0.016	0.004	0.002	0.005
sweet roll/Danish, commercial	182	18	0	0	0.011	0.002	0.005	0.015	0.011	0.002	0.005
chocolate chip cookies, commercial	183	18	0	0	0.028	0.009	0.013	0.045	0.025	0.002	0.005
sandwich cookies with creme filling, commercial	184	18	0	0	0.017	0.006	0.007	0.026	0.018	0.002	0.005

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**Cadmium - Summary of Results**

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apple pie, fresh/frozen, commercial	185	18	0	14	0.005	0.001	0.003	0.008	0.005	0.002	0.007
pumpkin pie, fresh/frozen, commercial	186	18	0	12	0.006	0.002	0.003	0.010	0.006	0.002	0.007
milk chocolate candy bar, plain	187	18	0	0	0.031	0.024	0.010	0.123	0.025	0.002	0.007
caramel candy	188	18	16	2	0.001	0.002	0	0.006	0	0.002	0.007
gelatin dessert, any flavor	190	18	18	0	0	0	0	0	0	0.002	0.005
cola carbonated beverage	191	18	18	0	0	0	0	0	0	0.001	0.003
fruit drink, from powder	193	18	18	0	0	0	0	0	0	0.001	0.003
low-calorie cola carbonated beverage	194	18	18	0	0	0	0	0	0	0.001	0.003
coffee, decaffeinated, from instant	196	18	18	0	0	0	0	0	0	0.001	0.003
tea, from tea bag	197	18	18	0	0	0	0	0	0	0.001	0.003
beer	198	18	18	0	0	0	0	0	0	0.001	0.003
dry table wine	199	18	18	0	0	0	0	0	0	0.001	0.003
whiskey	200	18	18	0	0	0	0	0	0	0.001	0.003
tap water	201	18	18	0	0	0	0	0	0	0.001	0.003
milk-based infant formula, high iron, ready-to-feed	202	18	18	0	0	0	0	0	0	0.001	0.004
milk-based infant formula, low iron, ready-to-feed	203	18	17	1	0.0002	0.001	0	0.003	0	0.001	0.004
beef, strained/junior	205	18	15	2	0.001	0.003	0	0.011	0	0.002	0.005
chicken, strained/junior	207	18	9	9	0.002	0.002	0	0.004	0.002	0.002	0.005
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	0	0.005	0.001	0.005	0.006	0.005	0.002	0.005
beef with vegetables, high/lean meat, strained/junior	209	2	0	0	0.005	0.001	0.005	0.006	0.005	0.002	0.005
ham with vegetables, high/lean meat, strained/junior	210	2	0	1	0.005	0.001	0.004	0.005	0.005	0.002	0.005
vegetables and beef, strained/junior	211	18	0	0	0.014	0.008	0.005	0.034	0.013	0.002	0.005
vegetables and chicken, strained/junior	212	18	0	0	0.015	0.011	0.005	0.049	0.011	0.002	0.005
vegetables and ham, strained/junior	213	18	0	0	0.011	0.006	0.005	0.024	0.009	0.002	0.005
chicken noodle dinner, strained/junior	214	18	0	0	0.011	0.005	0.006	0.028	0.010	0.002	0.005
macaroni, tomatoes, and beef, strained/junior	215	18	0	0	0.015	0.007	0.009	0.041	0.013	0.002	0.005
turkey and rice, strained/junior	216	18	0	0	0.014	0.012	0.005	0.058	0.009	0.002	0.005
carrots, strained/junior	218	18	0	0	0.028	0.038	0.005	0.168	0.017	0.002	0.005
green beans, strained/junior	219	18	16	1	0.001	0.003	0	0.012	0	0.002	0.005
mixed vegetables, strained/junior	220	18	1	0	0.021	0.015	0	0.046	0.016	0.002	0.005
sweet potatoes, strained/junior	221	18	2	4	0.005	0.003	0	0.010	0.005	0.002	0.005

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Cadmium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	12	5	0.001	0.002	0	0.005	0	0.002	0.005
peas, strained/junior	223	18	11	5	0.001	0.002	0	0.005	0	0.002	0.005
creamed spinach, strained/junior	224	18	0	0	0.090	0.025	0.045	0.128	0.095	0.002	0.005
applesauce, strained/junior	225	18	17	1	0.0002	0.001	0	0.003	0	0.002	0.005
peaches, strained/junior	226	18	9	7	0.002	0.002	0	0.005	0.002	0.002	0.005
pears, strained/junior	227	18	10	7	0.002	0.002	0	0.006	0	0.002	0.005
apple juice, strained	230	18	18	0	0	0	0	0	0	0.001	0.003
orange juice, strained	231	18	18	0	0	0	0	0	0	0.001	0.003
custard pudding, strained/junior	232	18	17	1	0.0002	0.001	0	0.003	0	0.002	0.005
fruit dessert/pudding, strained/junior	233	18	17	1	0.0002	0.001	0	0.003	0	0.002	0.005
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	17	1	0.0002	0.001	0	0.004	0	0.002	0.005
Swiss cheese	236	18	16	1	0.001	0.002	0	0.009	0	0.002	0.007
cream cheese	237	18	18	0	0	0	0	0	0	0.002	0.007
veal cutlet, pan-cooked	238	18	14	3	0.001	0.002	0	0.009	0	0.002	0.007
ham luncheon meat, sliced	239	18	9	9	0.002	0.002	0	0.004	0.002	0.003	0.01
chicken breast, roasted	240	18	17	1	0.0002	0.001	0	0.003	0	0.002	0.007
chicken nuggets, fast-food	241	18	0	12	0.006	0.002	0.003	0.009	0.005	0.002	0.007
chicken, fried (breast, leg, and thigh), fast-food	242	18	2	13	0.006	0.005	0	0.023	0.005	0.002	0.007
haddock, pan-cooked	243	18	15	1	0.002	0.005	0	0.018	0	0.002	0.007
shrimp, boiled	244	18	1	4	0.013	0.010	0	0.043	0.011	0.002	0.007
kidney beans, dry, boiled	245	18	8	8	0.003	0.003	0	0.011	0.003	0.002	0.005
peas, mature, dry, boiled	246	18	11	5	0.001	0.002	0	0.007	0	0.002	0.005
mixed nuts, no peanuts, dry roasted	247	18	1	16	0.007	0.002	0	0.010	0.007	0.003	0.01
cracked wheat bread	248	18	0	0	0.021	0.004	0.016	0.030	0.021	0.002	0.007
bagel, plain	249	18	0	0	0.019	0.007	0.013	0.043	0.017	0.002	0.007
English muffin, plain, toasted	250	18	0	0	0.021	0.006	0.010	0.032	0.021	0.002	0.007
graham crackers	251	18	0	0	0.030	0.008	0.018	0.047	0.029	0.002	0.007
butter-type crackers	252	18	0	0	0.026	0.008	0.007	0.041	0.026	0.002	0.007
apricot, raw	253	13	8	4	0.002	0.002	0	0.007	0	0.002	0.005
peach, canned in light/medium syrup	254	18	11	4	0.002	0.004	0	0.014	0	0.002	0.005
pear, canned in light syrup	255	18	16	1	0.001	0.003	0	0.012	0	0.002	0.005
pineapple juice, from frozen concentrate	256	18	16	0	0.0004	0.001	0	0.004	0	0.001	0.003
grape juice, from frozen concentrate	257	18	18	0	0	0	0	0	0	0.001	0.003
French fries, fast-food	258	18	0	0	0.053	0.019	0.030	0.100	0.052	0.003	0.01
carrot, fresh, boiled	259	18	0	2	0.020	0.016	0.004	0.068	0.015	0.002	0.005
tomato, stewed, canned	260	18	0	0	0.016	0.005	0.012	0.029	0.014	0.002	0.005



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Cadmium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato juice, bottled	261	18	0	0	0.016	0.004	0.010	0.027	0.015	0.001	0.004
beets, fresh/frozen, boiled	262	18	0	0	0.020	0.010	0.007	0.043	0.017	0.002	0.005
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	0.007	0.002	0.005	0.012	0.007	0.002	0.005
mushrooms, raw	264	18	1	2	0.007	0.004	0	0.016	0.006	0.002	0.005
eggplant, fresh, boiled	265	18	0	1	0.016	0.009	0.004	0.033	0.013	0.002	0.005
turnip, fresh/frozen, boiled	266	18	0	1	0.016	0.007	0.004	0.031	0.013	0.002	0.005
okra, fresh/frozen, boiled	267	18	0	0	0.019	0.011	0.007	0.053	0.016	0.002	0.005
mixed vegetables, frozen, boiled	268	18	1	5	0.007	0.004	0	0.013	0.006	0.002	0.005
beef stroganoff, homemade	269	18	0	0	0.014	0.004	0.009	0.022	0.014	0.002	0.005
green peppers stuffed with beef and rice, homemade	270	18	0	0	0.011	0.006	0.005	0.026	0.009	0.002	0.005
chili con carne with beans, homemade	271	18	0	9	0.007	0.003	0.004	0.016	0.007	0.002	0.007
tuna noodle casserole, homemade	272	18	0	0	0.016	0.003	0.012	0.021	0.015	0.002	0.005
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	18	0	0	0.009	0.002	0.007	0.016	0.009	0.002	0.005
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	18	0	0	0.010	0.003	0.007	0.017	0.009	0.002	0.005
quarter-pound cheeseburger on bun, fast-food	275	18	0	1	0.010	0.002	0.006	0.013	0.009	0.002	0.007
fish sandwich on bun, fast-food	276	18	0	0	0.011	0.004	0.007	0.024	0.010	0.002	0.007
frankfurter on bun, fast-food	277	18	0	0	0.011	0.003	0.008	0.018	0.011	0.002	0.007
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	0.009	0.002	0.007	0.014	0.008	0.002	0.007
taco/tostada, from Mexican carry-out	279	18	0	1	0.016	0.009	0.006	0.046	0.013	0.002	0.007
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	0.016	0.003	0.013	0.022	0.016	0.002	0.007
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	0.015	0.002	0.013	0.020	0.015	0.002	0.007
beef chow mein, from Chinese carry-out	282	18	0	1	0.011	0.007	0.004	0.036	0.009	0.002	0.005
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	6	7	0.003	0.002	0	0.006	0.003	0.002	0.005
mushroom soup, canned, condensed, prepared with whole milk	284	18	14	4	0.001	0.001	0	0.003	0	0.002	0.005
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	1	0	0.014	0.007	0	0.031	0.012	0.002	0.005

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Cadmium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
vanilla ice cream	286	18	18	0	0	0	0	0	0	0.002	0.005
fruit flavor sherbet	287	18	17	1	0.0002	0.001	0	0.003	0	0.001	0.004
popsicle, any flavor	288	18	18	0	0	0	0	0	0	0.002	0.007
chocolate snack cake with chocolate icing	289	18	0	0	0.020	0.005	0.009	0.035	0.019	0.002	0.005
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	0.011	0.003	0.007	0.018	0.011	0.002	0.005
brownies, commercial	291	18	0	0	0.022	0.007	0.012	0.034	0.019	0.002	0.005
sugar cookies, commercial	292	18	0	0	0.013	0.005	0.007	0.024	0.013	0.002	0.005
suckers, any flavor	293	18	15	3	0.001	0.002	0	0.009	0	0.003	0.01
pretzels, hard, salted, any shape	294	18	1	0	0.021	0.009	0	0.039	0.019	0.003	0.01
chocolate syrup dessert topping	295	18	0	0	0.029	0.009	0.018	0.049	0.026	0.002	0.005
jelly, any flavor	296	18	16	1	0.001	0.002	0	0.007	0	0.002	0.005
sweet cucumber pickles	297	18	15	3	0.001	0.001	0	0.004	0	0.002	0.005
yellow mustard	298	18	0	0	0.027	0.006	0.016	0.039	0.026	0.002	0.005
black olives	299	18	18	0	0	0	0	0	0	0.002	0.005
sour cream	300	18	18	0	0	0	0	0	0	0.002	0.007
brown gravy, homemade	301	18	13	4	0.001	0.002	0	0.007	0	0.002	0.007
French salad dressing, regular	302	18	4	10	0.008	0.005	0	0.018	0.009	0.007	0.024
Italian salad dressing, low-calorie	303	18	11	6	0.002	0.003	0	0.009	0	0.003	0.008
olive/safflower oil	304	18	18	0	0	0	0	0	0	0.007	0.024
coffee, from ground	305	18	16	0	0.002	0.006	0	0.026	0	0.001	0.003
fruit-flavored carbonated beverage	306	18	18	0	0	0	0	0	0	0.001	0.003
fruit drink, canned	307	18	17	0	0.0002	0.001	0	0.003	0	0.001	0.003
martini	308	18	18	0	0	0	0	0	0	0.001	0.003
soy-based infant formula, ready-to-feed	309	18	18	0	0	0	0	0	0	0.001	0.003
egg yolk, strained/junior	310	12	11	0	0.001	0.002	0	0.007	0	0.002	0.007
rice infant cereal, instant, prepared with whole milk	311	18	0	11	0.006	0.002	0.003	0.010	0.006	0.002	0.007
rice cereal, strained/junior	312	18	16	2	0.0003	0.001	0	0.003	0	0.002	0.005
bananas with tapioca, strained/junior	313	18	17	1	0.0002	0.001	0	0.003	0	0.002	0.005
beets, strained/junior	314	15	0	0	0.026	0.005	0.014	0.035	0.027	0.002	0.005
split peas with vegetables and ham/bacon	316	18	0	1	0.010	0.006	0.003	0.024	0.009	0.002	0.005
teething biscuits	317	18	0	0	0.014	0.004	0.010	0.024	0.013	0.002	0.007
squash, strained/junior	320	11	1	4	0.006	0.003	0	0.011	0.005	0.002	0.005

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Lead - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4699</b>	<b>3497</b>	<b>1081</b>	<b>0.005</b>	<b>0.011</b>	<b>0</b>	<b>0.210</b>	<b>0</b>		
whole milk, fluid	1	18	15	3	0.002	0.004	0	0.011	0	0.007	0.03
lowfat (2% fat) milk, fluid	2	18	17	1	0.001	0.003	0	0.011	0	0.007	0.03
chocolate milk, fluid	3	18	17	1	0.001	0.003	0	0.013	0	0.007	0.03
skim milk, fluid	4	18	16	2	0.001	0.004	0	0.017	0	0.005	0.02
plain yogurt, lowfat	6	18	17	1	0.0004	0.002	0	0.008	0	0.007	0.03
chocolate milk shake, fast-food	7	18	8	10	0.009	0.009	0	0.020	0.009	0.007	0.03
evaporated milk, canned	8	18	16	2	0.002	0.005	0	0.019	0	0.007	0.03
American, processed cheese	10	18	18	0	0	0	0	0	0	0.014	0.05
cottage cheese, 4% milkfat	11	18	13	4	0.004	0.008	0	0.030	0	0.007	0.03
cheddar cheese	12	18	17	1	0.001	0.004	0	0.016	0	0.014	0.05
ground beef, pan-cooked	13	18	16	1	0.003	0.010	0	0.040	0	0.01	0.04
beef chuck roast, baked	14	18	14	4	0.003	0.007	0	0.020	0	0.01	0.04
beef steak, loin, pan-cooked	16	18	15	3	0.003	0.007	0	0.020	0	0.01	0.04
ham, baked	17	18	16	2	0.002	0.006	0	0.020	0	0.014	0.05
pork chop, pan-cooked	18	18	15	3	0.002	0.005	0	0.014	0	0.01	0.04
pork sausage, pan-cooked	19	18	14	4	0.004	0.009	0	0.026	0	0.014	0.05
pork bacon, pan-cooked	20	18	15	3	0.003	0.008	0	0.027	0	0.014	0.05
pork roast, baked	21	18	17	1	0.002	0.007	0	0.030	0	0.01	0.04
lamb chop, pan-cooked	22	18	14	4	0.003	0.006	0	0.020	0	0.01	0.04
chicken, fried (breast, leg, and thigh) homemade	24	18	16	2	0.002	0.007	0	0.030	0	0.01	0.04
turkey breast, roasted	26	18	18	0	0	0	0	0	0	0.007	0.03
liver, beef, fried	27	18	0	15	0.031	0.018	0.014	0.080	0.025	0.014	0.05
frankfurters, beef, boiled	28	18	16	2	0.002	0.007	0	0.026	0	0.014	0.05
bologna, sliced	29	18	15	3	0.003	0.006	0	0.020	0	0.014	0.05
salami, sliced	30	18	16	2	0.002	0.005	0	0.016	0	0.014	0.05
tuna, canned in oil	32	18	15	3	0.002	0.004	0	0.013	0	0.01	0.04
fish sticks, frozen, heated	34	18	16	2	0.001	0.004	0	0.011	0	0.01	0.04
eggs, scrambled	35	18	17	1	0.001	0.002	0	0.009	0	0.007	0.03
eggs, fried	36	18	17	1	0.001	0.002	0	0.009	0	0.007	0.03
eggs, boiled	37	18	16	2	0.001	0.004	0	0.013	0	0.007	0.03
pinto beans, dry, boiled	38	18	15	3	0.002	0.004	0	0.014	0	0.007	0.03
pork and beans, canned	39	18	13	5	0.003	0.006	0	0.018	0	0.007	0.03
lima beans, immature, frozen, boiled	42	18	15	3	0.002	0.005	0	0.020	0	0.007	0.03
green peas, fresh/frozen, boiled	46	18	14	4	0.003	0.006	0	0.020	0	0.007	0.03
peanut butter, smooth	47	18	15	3	0.003	0.007	0	0.019	0	0.014	0.05
peanuts, dry roasted	48	18	18	0	0	0	0	0	0	0.014	0.05

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Lead - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	13	4	0.004	0.008	0	0.030	0	0.007	0.03
oatmeal, quick (1-3 min), cooked	51	18	16	2	0.001	0.003	0	0.009	0	0.007	0.03
wheat cereal, farina, quick (1-3min), cooked	52	18	13	5	0.004	0.007	0	0.022	0	0.007	0.03
corngrits, regular, cooked	53	18	15	3	0.003	0.007	0	0.024	0	0.007	0.03
corn, fresh/frozen, boiled	54	18	15	3	0.002	0.004	0	0.014	0	0.007	0.03
cream style corn, canned	56	18	12	6	0.004	0.007	0	0.020	0	0.007	0.03
popcorn, popped in oil	57	18	12	6	0.007	0.010	0	0.030	0	0.014	0.05
white bread	58	18	12	6	0.004	0.006	0	0.016	0	0.01	0.04
white roll	59	18	9	9	0.009	0.009	0	0.024	0.005	0.01	0.04
cornbread, homemade	60	18	11	7	0.005	0.007	0	0.017	0	0.01	0.04
biscuit, from refrigerated dough, baked	61	18	10	8	0.005	0.006	0	0.012	0	0.01	0.04
whole wheat bread	62	18	10	8	0.006	0.007	0	0.018	0	0.01	0.04
tortilla, flour	63	18	12	6	0.005	0.008	0	0.024	0	0.01	0.04
rye bread	64	18	12	6	0.006	0.010	0	0.030	0	0.01	0.04
blueberry muffin, commercial	65	18	13	5	0.003	0.006	0	0.015	0	0.01	0.04
saltine crackers	66	18	12	6	0.007	0.011	0	0.028	0	0.014	0.05
corn chips	67	18	17	1	0.001	0.003	0	0.014	0	0.014	0.05
pancake from mix	68	18	11	7	0.005	0.007	0	0.020	0	0.01	0.04
egg noodles, boiled	69	18	12	6	0.003	0.005	0	0.014	0	0.007	0.03
macaroni, boiled	70	18	15	3	0.001	0.003	0	0.008	0	0.007	0.03
corn flakes	71	18	14	4	0.003	0.005	0	0.013	0	0.01	0.04
fruit-flavored, sweetened cereal	72	18	13	4	0.006	0.012	0	0.050	0	0.01	0.04
shredded wheat cereal	73	18	18	0	0	0	0	0	0	0.01	0.04
raisin bran cereal	74	18	11	7	0.007	0.010	0	0.036	0	0.01	0.04
crisped rice cereal	75	18	14	4	0.004	0.008	0	0.030	0	0.01	0.04
granola cereal	76	18	9	9	0.007	0.008	0	0.026	0.005	0.01	0.04
oat ring cereal	77	18	9	9	0.006	0.006	0	0.016	0.005	0.01	0.04
apple, red, raw	78	18	14	4	0.002	0.004	0	0.013	0	0.007	0.03
orange, raw	79	18	15	3	0.002	0.004	0	0.012	0	0.007	0.03
banana, raw	80	18	18	0	0	0	0	0	0	0.007	0.03
watermelon, raw	81	18	18	0	0	0	0	0	0	0.005	0.02
peach, raw	83	18	14	3	0.003	0.008	0	0.03	0	0.007	0.03
applesauce, bottled	84	18	18	0	0	0	0	0	0	0.007	0.03
pear, raw	85	18	17	1	0.0004	0.002	0	0.008	0	0.007	0.03
strawberries, raw	86	18	16	2	0.001	0.003	0	0.009	0	0.005	0.02
fruit cocktail, canned in heavy syrup	87	18	0	11	0.031	0.017	0.011	0.064	0.026	0.007	0.03
grapes, red/green, seedless, raw	88	18	12	6	0.004	0.006	0	0.019	0	0.005	0.02

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Lead - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	16	2	0.001	0.004	0	0.014	0	0.005	0.02
plums, raw	91	18	17	1	0.001	0.003	0	0.011	0	0.005	0.02
grapefruit, raw	92	18	16	2	0.001	0.004	0	0.013	0	0.005	0.02
pineapple, canned in juice	93	18	4	6	0.013	0.010	0	0.030	0.012	0.004	0.01
sweet cherries, raw	94	12	11	1	0.001	0.003	0	0.012	0	0.005	0.02
raisins, dried	95	18	6	12	0.014	0.012	0	0.030	0.014	0.01	0.04
prunes, dried	96	18	12	5	0.007	0.012	0	0.040	0	0.01	0.04
avocado, raw	97	18	16	2	0.003	0.010	0	0.040	0	0.014	0.05
orange juice, from frozen concentrate	98	18	16	1	0.002	0.005	0	0.020	0	0.004	0.02
apple juice, bottled	99	18	9	9	0.006	0.006	0	0.018	0.004	0.004	0.02
grapefruit juice, from frozen concentrate	100	18	18	0	0	0	0	0	0	0.004	0.02
prune juice, bottled	103	18	14	3	0.004	0.013	0	0.054	0	0.005	0.02
lemonade, from frozen concentrate	105	18	18	0	0	0	0	0	0	0.004	0.02
spinach, fresh/frozen, boiled	107	18	6	9	0.013	0.014	0	0.040	0.009	0.007	0.03
collards, fresh/frozen, boiled	108	18	3	14	0.012	0.009	0	0.040	0.010	0.007	0.03
iceberg lettuce, raw	109	18	18	0	0	0	0	0	0	0.005	0.02
cabbage, fresh, boiled	110	18	18	0	0	0	0	0	0	0.005	0.02
coleslaw with dressing, homemade	111	18	16	2	0.001	0.003	0	0.011	0	0.01	0.04
sauerkraut, canned	112	18	9	7	0.013	0.019	0	0.069	0.004	0.007	0.03
broccoli, fresh/frozen, boiled	113	18	16	2	0.001	0.004	0	0.014	0	0.007	0.03
celery, raw	114	18	15	3	0.002	0.004	0	0.012	0	0.005	0.02
asparagus, fresh/frozen, boiled	115	18	14	5	0.003	0.005	0	0.014	0	0.007	0.03
cauliflower, fresh/frozen, boiled	116	18	17	1	0.001	0.003	0	0.011	0	0.007	0.03
tomato, red, raw	117	18	18	0	0	0	0	0	0	0.005	0.02
tomato sauce, plain, bottled	119	18	12	6	0.005	0.008	0	0.020	0	0.01	0.04
green beans, fresh/frozen, boiled	121	18	15	2	0.003	0.006	0	0.020	0	0.007	0.03
cucumber, raw	123	18	17	0	0.002	0.007	0	0.030	0	0.005	0.02
summer squash, fresh/frozen, boiled	124	18	17	1	0.001	0.005	0	0.020	0	0.007	0.03
green pepper, raw	125	18	17	1	0.001	0.003	0	0.014	0	0.007	0.03
winter squash, fresh/frozen, baked, mashed	126	18	16	2	0.001	0.004	0	0.014	0	0.007	0.03
onion, mature, raw	128	18	16	2	0.001	0.005	0	0.018	0	0.007	0.03
radish, raw	132	18	18	0	0	0	0	0	0	0.007	0.03
French fries, frozen, heated	134	18	17	1	0.001	0.005	0	0.020	0	0.01	0.04
mashed potatoes, from flakes	135	18	18	0	0	0	0	0	0	0.007	0.03
white potato, boiled without skin	136	18	18	0	0	0	0	0	0	0.007	0.03
white potato, baked with skin	137	18	14	4	0.003	0.006	0	0.020	0	0.007	0.03
potato chips	138	18	15	3	0.004	0.010	0	0.032	0	0.014	0.05

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Lead - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	17	1	0.001	0.003	0	0.014	0	0.01	0.04
sweet potato, fresh, baked	140	18	5	10	0.017	0.017	0	0.064	0.015	0.007	0.03
spaghetti with tomato sauce and meat	142	18	16	0	0.001	0.003	0	0.008	0	0.007	0.03
beef stew with potatoes, carrots, and onion, homemade	143	18	17	1	0.001	0.002	0	0.010	0	0.007	0.03
macaroni and cheese, from box mix	146	18	15	3	0.002	0.004	0	0.011	0	0.01	0.04
quarter-pound hamburger on bun, fast-food	147	18	13	4	0.012	0.037	0	0.160	0	0.01	0.04
meatloaf, homemade	148	18	14	4	0.003	0.005	0	0.016	0	0.01	0.04
spaghetti with tomato sauce, canned	149	18	15	3	0.002	0.004	0	0.013	0	0.007	0.03
lasagna with meat, homemade	151	18	13	5	0.003	0.005	0	0.013	0	0.01	0.04
chicken potpie, frozen, heated	152	18	15	3	0.002	0.005	0	0.013	0	0.01	0.04
chicken noodle soup, canned, condensed, prepared with water	155	18	13	4	0.006	0.011	0	0.041	0	0.007	0.03
tomato soup, canned, condensed, prepared with water	156	18	15	3	0.001	0.003	0	0.009	0	0.007	0.03
vegetable beef soup, canned, condensed, prepared with water	157	18	16	2	0.001	0.003	0	0.010	0	0.007	0.03
white sauce, homemade	160	18	16	1	0.003	0.012	0	0.050	0	0.01	0.04
dill cucumber pickles	161	18	3	12	0.025	0.020	0	0.064	0.020	0.01	0.04
margarine, stick, regular (salted)	162	18	16	2	0.005	0.013	0	0.044	0	0.035	0.12
butter, regular (salted)	164	18	18	0	0	0	0	0	0	0.035	0.12
mayonnaise, regular, bottled	166	18	15	2	0.008	0.019	0	0.067	0	0.035	0.12
half & half cream	167	18	18	0	0	0	0	0	0	0.014	0.05
cream substitute, frozen	168	18	13	5	0.005	0.010	0	0.030	0	0.01	0.04
white sugar, granulated	169	18	17	1	0.001	0.004	0	0.018	0	0.018	0.06
pancake syrup	170	18	13	5	0.004	0.007	0	0.019	0	0.01	0.04
honey	172	18	0	15	0.025	0.009	0.013	0.040	0.023	0.01	0.04
tomato catsup	173	18	12	5	0.007	0.011	0	0.040	0	0.01	0.04
chocolate pudding, from instant mix	175	18	8	10	0.006	0.006	0	0.015	0.008	0.007	0.03
vanilla flavored light ice cream	177	18	16	2	0.001	0.004	0	0.011	0	0.007	0.03
chocolate cake with chocolate icing, commercial	178	18	7	11	0.009	0.008	0	0.026	0.009	0.007	0.03
yellow cake with white icing, prepared from cake and icing mixes	179	18	13	5	0.003	0.005	0	0.013	0	0.007	0.03
sweet roll/Danish, commercial	182	18	10	8	0.007	0.008	0	0.024	0	0.007	0.03
chocolate chip cookies, commercial	183	18	1	17	0.014	0.006	0	0.023	0.014	0.007	0.03
sandwich cookies with creme filling, commercial	184	18	7	10	0.010	0.011	0	0.040	0.010	0.007	0.03

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Lead - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	8	9	0.010	0.015	0	0.060	0.010	0.01	0.04
pumpkin pie, fresh/frozen, commercial	186	18	9	9	0.007	0.008	0	0.020	0.005	0.01	0.04
milk chocolate candy bar, plain	187	18	2	13	0.028	0.025	0	0.110	0.021	0.01	0.04
caramel candy	188	18	14	4	0.004	0.008	0	0.030	0	0.01	0.04
gelatin dessert, any flavor	190	18	15	3	0.001	0.003	0	0.009	0	0.007	0.03
cola carbonated beverage	191	18	18	0	0	0	0	0	0	0.004	0.02
fruit drink, from powder	193	18	18	0	0	0	0	0	0	0.004	0.02
low-calorie cola carbonated beverage	194	18	18	0	0	0	0	0	0	0.004	0.02
coffee, decaffeinated, from instant	196	18	17	1	0.001	0.002	0	0.010	0	0.004	0.02
tea, from tea bag	197	18	18	0	0	0	0	0	0	0.004	0.02
beer	198	18	18	0	0	0	0	0	0	0.004	0.02
dry table wine	199	18	1	7	0.023	0.014	0	0.060	0.021	0.004	0.02
whiskey	200	18	17	0	0.003	0.012	0	0.049	0	0.004	0.02
tap water	201	18	18	0	0	0	0	0	0	0.004	0.02
milk-based infant formula, high iron, ready-to-feed	202	18	18	0	0	0	0	0	0	0.005	0.02
milk-based infant formula, low iron, ready-to-feed	203	18	18	0	0	0	0	0	0	0.005	0.02
beef, strained/junior	205	18	16	1	0.006	0.021	0	0.090	0	0.007	0.03
chicken, strained/junior	207	18	12	6	0.004	0.007	0	0.020	0	0.007	0.03
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	1	1	0.006	0.009	0	0.013	0.006	0.007	0.03
beef with vegetables, high/lean meat, strained/junior	209	2	1	1	0.006	0.008	0	0.012	0.006	0.007	0.03
ham with vegetables, high/lean meat, strained/junior	210	2	2	0	0	0	0	0	0	0.007	0.03
vegetables and beef, strained/junior	211	18	15	3	0.002	0.004	0	0.014	0	0.007	0.03
vegetables and chicken, strained/junior	212	18	17	1	0.001	0.002	0	0.010	0	0.007	0.03
vegetables and ham, strained/junior	213	18	14	4	0.002	0.004	0	0.013	0	0.007	0.03
chicken noodle dinner, strained/junior	214	17	13	4	0.002	0.004	0	0.011	0	0.007	0.03
macaroni, tomatoes, and beef, strained/junior	215	18	12	6	0.003	0.005	0	0.014	0	0.007	0.03
turkey and rice, strained/junior	216	18	14	4	0.003	0.006	0	0.020	0	0.007	0.03
carrots, strained/junior	218	18	10	8	0.005	0.006	0	0.018	0	0.007	0.03
green beans, strained/junior	219	18	12	6	0.003	0.005	0	0.012	0	0.007	0.03
mixed vegetables, strained/junior	220	18	14	4	0.002	0.004	0	0.012	0	0.007	0.03
sweet potatoes, strained/junior	221	18	0	14	0.022	0.008	0.01	0.039	0.020	0.007	0.03

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Lead - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	17	1	0.001	0.003	0	0.011	0	0.007	0.03
peas, strained/junior	223	18	18	0	0	0	0	0	0	0.007	0.03
creamed spinach, strained/junior	224	18	7	11	0.007	0.006	0	0.020	0.008	0.007	0.03
applesauce, strained/junior	225	18	15	3	0.002	0.004	0	0.012	0	0.007	0.03
peaches, strained/junior	226	18	16	2	0.001	0.004	0	0.015	0	0.007	0.03
pears, strained/junior	227	18	13	5	0.004	0.006	0	0.020	0	0.007	0.03
apple juice, strained	230	18	18	0	0	0	0	0	0	0.004	0.02
orange juice, strained	231	18	18	0	0	0	0	0	0	0.004	0.02
custard pudding, strained/junior	232	18	18	0	0	0	0	0	0	0.007	0.03
fruit dessert/pudding, strained/junior	233	18	15	3	0.002	0.003	0	0.010	0	0.007	0.03
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	13	4	0.004	0.008	0	0.030	0	0.007	0.03
Swiss cheese	236	18	14	4	0.004	0.008	0	0.028	0	0.01	0.04
cream cheese	237	18	15	3	0.003	0.007	0	0.024	0	0.01	0.04
veal cutlet, pan-cooked	238	18	14	4	0.003	0.006	0	0.016	0	0.01	0.04
ham luncheon meat, sliced	239	18	16	2	0.002	0.005	0	0.015	0	0.014	0.05
chicken breast, roasted	240	18	15	3	0.002	0.005	0	0.015	0	0.01	0.04
chicken nuggets, fast-food	241	18	13	5	0.003	0.006	0	0.016	0	0.01	0.04
chicken, fried (breast, leg, and thigh), fast-food	242	18	15	3	0.003	0.008	0	0.030	0	0.01	0.04
haddock, pan-cooked	243	18	14	4	0.004	0.007	0	0.022	0	0.01	0.04
shrimp, boiled	244	18	6	7	0.036	0.056	0	0.210	0.012	0.01	0.04
kidney beans, dry, boiled	245	18	15	2	0.003	0.007	0	0.030	0	0.007	0.03
peas, mature, dry, boiled	246	18	13	5	0.003	0.005	0	0.015	0	0.007	0.03
mixed nuts, no peanuts, dry roasted	247	18	12	5	0.013	0.023	0	0.090	0	0.014	0.05
cracked wheat bread	248	18	13	5	0.004	0.007	0	0.019	0	0.01	0.04
bagel, plain	249	18	13	5	0.005	0.009	0	0.030	0	0.01	0.04
English muffin, plain, toasted	250	18	5	13	0.011	0.009	0	0.032	0.011	0.01	0.04
graham crackers	251	18	6	12	0.011	0.009	0	0.025	0.012	0.01	0.04
butter-type crackers	252	18	11	7	0.006	0.008	0	0.023	0	0.01	0.04
apricot, raw	253	13	9	4	0.003	0.005	0	0.014	0	0.007	0.03
peach, canned in light/medium syrup	254	18	1	8	0.032	0.016	0	0.057	0.030	0.007	0.03
pear, canned in light syrup	255	18	1	11	0.025	0.016	0	0.067	0.020	0.007	0.03
pineapple juice, from frozen concentrate	256	18	15	3	0.002	0.003	0	0.010	0	0.004	0.02
grape juice, from frozen concentrate	257	18	10	7	0.006	0.009	0	0.030	0	0.004	0.02
French fries, fast-food	258	18	12	6	0.004	0.006	0	0.015	0	0.014	0.05
carrot, fresh, boiled	259	18	12	6	0.003	0.005	0	0.012	0	0.007	0.03
tomato, stewed, canned	260	18	12	6	0.004	0.007	0	0.024	0	0.007	0.03



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Lead - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato juice, bottled	261	17	14	3	0.002	0.005	0	0.014	0	0.005	0.02
beets, fresh/frozen, boiled	262	18	12	5	0.006	0.009	0	0.030	0	0.007	0.03
Brussels sprouts, fresh/frozen, boiled	263	18	14	3	0.006	0.017	0	0.070	0	0.007	0.03
mushrooms, raw	264	18	13	5	0.003	0.006	0	0.016	0	0.007	0.03
eggplant, fresh, boiled	265	18	15	2	0.003	0.010	0	0.040	0	0.007	0.03
turnip, fresh/frozen, boiled	266	18	18	0	0	0	0	0	0	0.007	0.03
okra, fresh/frozen, boiled	267	18	15	3	0.002	0.005	0	0.018	0	0.007	0.03
mixed vegetables, frozen, boiled	268	18	16	2	0.002	0.005	0	0.020	0	0.007	0.03
beef stroganoff, homemade	269	18	11	5	0.007	0.013	0	0.050	0	0.007	0.03
green peppers stuffed with beef and rice, homemade	270	18	13	4	0.005	0.009	0	0.030	0	0.007	0.03
chili con carne with beans, homemade	271	18	11	7	0.005	0.007	0	0.019	0	0.01	0.04
tuna noodle casserole, homemade	272	18	12	6	0.004	0.006	0	0.019	0	0.007	0.03
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	18	12	6	0.003	0.005	0	0.012	0	0.007	0.03
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	18	12	5	0.005	0.008	0	0.030	0	0.007	0.03
quarter-pound cheeseburger on bun, fast-food	275	18	16	1	0.007	0.025	0	0.106	0	0.01	0.04
fish sandwich on bun, fast-food	276	17	12	5	0.005	0.009	0	0.030	0	0.01	0.04
frankfurter on bun, fast-food	277	18	10	7	0.008	0.011	0	0.040	0	0.01	0.04
egg, cheese, and ham on English muffin, fast-food	278	18	14	3	0.005	0.013	0	0.050	0	0.01	0.04
taco/tostada, from Mexican carry-out	279	18	14	4	0.003	0.006	0	0.020	0	0.01	0.04
cheese pizza, regular crust, from pizza carry-out	280	18	13	5	0.003	0.005	0	0.013	0	0.01	0.04
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	14	4	0.003	0.005	0	0.013	0	0.01	0.04
beef chow mein, from Chinese carry-out	282	18	11	7	0.004	0.005	0	0.012	0	0.007	0.03
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	13	5	0.003	0.004	0	0.011	0	0.007	0.03
mushroom soup, canned, condensed, prepared with whole milk	284	18	15	3	0.002	0.004	0	0.014	0	0.007	0.03
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	6	12	0.008	0.007	0	0.023	0.009	0.007	0.03

## US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1

### Lead - Summary of Results

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
vanilla ice cream	286	18	17	1	0.001	0.002	0	0.010	0	0.007	0.03
fruit flavor sherbet	287	18	13	5	0.003	0.005	0	0.012	0	0.005	0.02
popsicle, any flavor	288	18	13	4	0.007	0.019	0	0.082	0	0.01	0.04
chocolate snack cake with chocolate icing	289	18	1	17	0.015	0.006	0	0.025	0.018	0.007	0.03
cake doughnuts with icing, any flavor, from doughnut store	290	18	12	6	0.004	0.005	0	0.017	0	0.007	0.03
brownies, commercial	291	18	4	14	0.010	0.006	0	0.018	0.011	0.007	0.03
sugar cookies, commercial	292	18	12	6	0.003	0.005	0	0.012	0	0.007	0.03
suckers, any flavor	293	18	15	4	0.003	0.007	0	0.020	0	0.014	0.05
pretzels, hard, salted, any shape	294	18	15	3	0.004	0.010	0	0.030	0	0.014	0.05
chocolate syrup dessert topping	295	18	2	15	0.013	0.007	0	0.030	0.012	0.007	0.03
jelly, any flavor	296	18	11	7	0.004	0.005	0	0.016	0	0.007	0.03
sweet cucumber pickles	297	18	0	8	0.036	0.025	0.009	0.115	0.032	0.007	0.03
yellow mustard	298	18	8	7	0.010	0.012	0	0.030	0.008	0.007	0.03
black olives	299	18	9	9	0.006	0.008	0	0.029	0.004	0.007	0.03
sour cream	300	18	17	0	0.002	0.009	0	0.040	0	0.01	0.04
brown gravy, homemade	301	18	15	3	0.002	0.006	0	0.020	0	0.01	0.04
French salad dressing, regular	302	18	16	2	0.005	0.016	0	0.057	0	0.035	0.12
Italian salad dressing, low-calorie	303	18	14	3	0.007	0.014	0	0.050	0	0.012	0.04
olive/safflower oil	304	18	18	0	0	0	0	0	0	0.035	0.12
coffee, from ground	305	18	16	2	0.001	0.003	0	0.010	0	0.004	0.02
fruit-flavored carbonated beverage	306	18	18	0	0	0	0	0	0	0.004	0.02
fruit drink, canned	307	18	18	0	0	0	0	0	0	0.004	0.02
martini	308	18	16	2	0.002	0.005	0	0.017	0	0.004	0.02
soy-based infant formula, ready-to-feed	309	18	18	0	0	0	0	0	0	0.004	0.02
egg yolk, strained/junior	310	12	10	2	0.002	0.006	0	0.018	0	0.01	0.04
rice infant cereal, instant, prepared with whole milk	311	18	13	5	0.004	0.007	0	0.021	0	0.01	0.04
rice cereal, strained/junior	312	18	15	3	0.002	0.005	0	0.016	0	0.007	0.03
bananas with tapioca, strained/junior	313	18	18	0	0	0	0	0	0	0.007	0.03
beets, strained/junior	314	15	11	4	0.002	0.004	0	0.009	0	0.007	0.03
split peas with vegetables and ham/bacon	316	18	15	2	0.004	0.012	0	0.050	0	0.007	0.03
teething biscuits	317	18	2	16	0.015	0.007	0	0.030	0.016	0.01	0.04
squash, strained/junior	320	18	15	3	0.003	0.006	0	0.020	0	0.007	0.03

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Nickel - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>780</b>	<b>256</b>	<b>287</b>	<b>0.136</b>	<b>0.302</b>	<b>0</b>	<b>3.66</b>	<b>0.057</b>		
whole milk, fluid	1	3	3	0	0	0	0	0	0	0.025	0.09
lowfat (2% fat) milk, fluid	2	3	3	0	0	0	0	0	0	0.025	0.09
chocolate milk, fluid	3	3	0	2	0.081	0.018	0.063	0.098	0.081	0.025	0.09
skim milk, fluid	4	3	3	0	0	0	0	0	0	0.017	0.06
plain yogurt, lowfat	6	3	3	0	0	0	0	0	0	0.025	0.09
chocolate milk shake, fast-food	7	3	0	0	0.109	0.014	0.092	0.118	0.116	0.025	0.09
evaporated milk, canned	8	3	3	0	0	0	0	0	0	0.025	0.09
American, processed cheese	10	3	3	0	0	0	0	0	0	0.05	0.17
cottage cheese, 4% milkfat	11	3	2	1	0.009	0.015	0	0.026	0	0.025	0.09
cheddar cheese	12	3	3	0	0	0	0	0	0	0.05	0.17
ground beef, pan-cooked	13	3	3	0	0	0	0	0	0	0.036	0.12
beef chuck roast, baked	14	3	3	0	0	0	0	0	0	0.036	0.12
beef steak, loin, pan-cooked	16	3	3	0	0	0	0	0	0	0.036	0.12
ham, baked	17	3	3	0	0	0	0	0	0	0.05	0.17
pork chop, pan-cooked	18	3	2	1	0.019	0.033	0	0.058	0	0.036	0.12
pork sausage, pan-cooked	19	3	2	1	0.024	0.042	0	0.073	0	0.05	0.17
pork bacon, pan-cooked	20	3	2	0	0.079	0.137	0	0.238	0	0.05	0.17
pork roast, baked	21	3	3	0	0	0	0	0	0	0.036	0.12
lamb chop, pan-cooked	22	3	2	1	0.021	0.036	0	0.062	0	0.036	0.12
chicken, fried (breast, leg, and thigh) homemade	24	3	3	0	0	0	0	0	0	0.036	0.12
turkey breast, roasted	26	3	2	1	0.014	0.024	0	0.041	0	0.025	0.09
liver, beef, fried	27	3	3	0	0	0	0	0	0	0.05	0.17
frankfurters, beef, boiled	28	3	2	1	0.018	0.031	0	0.054	0	0.05	0.17
bologna, sliced	29	3	3	0	0	0	0	0	0	0.05	0.17
salami, sliced	30	3	3	0	0	0	0	0	0	0.05	0.17
tuna, canned in oil	32	3	2	1	0.020	0.035	0	0.060	0	0.036	0.12
fish sticks, frozen, heated	34	3	0	1	0.144	0.039	0.1	0.172	0.160	0.036	0.12
eggs, scrambled	35	3	2	0	0.041	0.072	0	0.124	0	0.025	0.09
eggs, fried	36	3	3	0	0	0	0	0	0	0.025	0.09
eggs, boiled	37	3	3	0	0	0	0	0	0	0.025	0.09
pinto beans, dry, boiled	38	3	0	0	0.555	0.054	0.503	0.611	0.550	0.025	0.09
pork and beans, canned	39	3	0	0	0.424	0.052	0.381	0.482	0.410	0.025	0.09
lima beans, immature, frozen, boiled	42	3	0	0	0.532	0.161	0.417	0.716	0.462	0.025	0.09
green peas, fresh/frozen, boiled	46	3	0	0	0.586	0.317	0.227	0.826	0.706	0.025	0.09
peanut butter, smooth	47	3	0	0	0.711	0.192	0.509	0.891	0.734	0.05	0.17
peanuts, dry roasted	48	3	0	0	0.956	0.292	0.666	1.25	0.953	0.05	0.17

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Nickel - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	3	0	3	0.050	0.019	0.039	0.072	0.040	0.025	0.09
oatmeal, quick (1-3 min), cooked	51	3	0	0	0.495	0.186	0.281	0.605	0.600	0.025	0.09
wheat cereal, farina, quick (1-3min), cooked	52	3	2	1	0.012	0.021	0	0.036	0	0.025	0.09
corngrits, regular, cooked	53	3	1	2	0.025	0.025	0	0.050	0.026	0.025	0.09
corn, fresh/frozen, boiled	54	3	0	3	0.044	0.026	0.027	0.074	0.030	0.025	0.09
cream style corn, canned	56	3	0	3	0.035	0.006	0.028	0.040	0.036	0.025	0.09
popcorn, popped in oil	57	3	0	1	0.253	0.114	0.159	0.380	0.219	0.05	0.17
white bread	58	3	0	1	0.159	0.066	0.108	0.234	0.136	0.036	0.12
white roll	59	3	0	3	0.093	0.009	0.082	0.100	0.096	0.036	0.12
cornbread, homemade	60	3	0	2	0.216	0.184	0.109	0.428	0.110	0.036	0.12
biscuit, from refrigerated dough, baked	61	3	0	2	0.111	0.022	0.091	0.135	0.107	0.036	0.12
whole wheat bread	62	3	0	0	0.186	0.031	0.150	0.207	0.200	0.036	0.12
tortilla, flour	63	3	0	2	0.109	0.030	0.091	0.144	0.092	0.036	0.12
rye bread	64	3	0	3	0.105	0.006	0.098	0.109	0.107	0.036	0.12
blueberry muffin, commercial	65	3	0	3	0.064	0.005	0.059	0.069	0.063	0.036	0.12
saltine crackers	66	3	0	3	0.098	0.031	0.080	0.134	0.081	0.05	0.17
corn chips	67	3	0	2	0.160	0.023	0.146	0.187	0.147	0.05	0.17
pancake from mix	68	3	0	2	0.079	0.037	0.057	0.122	0.059	0.036	0.12
egg noodles, boiled	69	3	1	2	0.026	0.025	0	0.049	0.030	0.025	0.09
macaroni, boiled	70	3	2	1	0.012	0.021	0	0.036	0	0.025	0.09
corn flakes	71	3	0	2	0.109	0.016	0.095	0.127	0.106	0.036	0.12
fruit-flavored, sweetened cereal	72	3	0	0	0.430	0.023	0.404	0.445	0.441	0.036	0.12
shredded wheat cereal	73	3	0	0	0.216	0.135	0.126	0.371	0.151	0.036	0.12
raisin bran cereal	74	3	0	0	0.436	0.064	0.362	0.473	0.472	0.036	0.12
crisped rice cereal	75	3	0	0	0.338	0.058	0.276	0.391	0.348	0.036	0.12
granola cereal	76	3	0	0	1.01	0.210	0.849	1.25	0.944	0.036	0.12
oat ring cereal	77	3	0	0	2.32	0.438	1.81	2.58	2.57	0.036	0.12
apple, red, raw	78	3	2	1	0.011	0.018	0	0.032	0	0.025	0.09
orange, raw	79	3	1	2	0.026	0.023	0	0.045	0.033	0.025	0.09
banana, raw	80	3	0	2	0.068	0.061	0.031	0.138	0.035	0.025	0.09
watermelon, raw	81	3	0	0	0.074	0.005	0.071	0.080	0.072	0.017	0.06
peach, raw	83	3	0	1	0.099	0.055	0.038	0.145	0.113	0.025	0.09
applesauce, bottled	84	3	1	2	0.019	0.016	0	0.029	0.028	0.025	0.09
pear, raw	85	3	0	2	0.095	0.028	0.073	0.126	0.086	0.025	0.09
strawberries, raw	86	3	0	2	0.070	0.050	0.033	0.126	0.050	0.017	0.06
fruit cocktail, canned in heavy syrup	87	3	0	3	0.083	0.009	0.073	0.089	0.088	0.025	0.09
grapes, red/green, seedless, raw	88	3	1	1	0.044	0.044	0	0.088	0.043	0.017	0.06

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Nickel - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	3	0	1	0.071	0.028	0.043	0.099	0.070	0.017	0.06
plums, raw	91	3	2	1	0.009	0.016	0	0.027	0	0.017	0.06
grapefruit, raw	92	3	0	3	0.030	0.005	0.026	0.035	0.028	0.017	0.06
pineapple, canned in juice	93	3	0	0	0.668	0.870	0.104	1.67	0.229	0.014	0.05
sweet cherries, raw	94	3	3	0	0	0	0	0	0	0.017	0.06
raisins, dried	95	3	0	2	0.163	0.158	0.055	0.345	0.090	0.034	0.12
prunes, dried	96	3	0	0	0.387	0.057	0.351	0.453	0.358	0.036	0.12
avocado, raw	97	3	0	2	0.247	0.172	0.132	0.445	0.165	0.05	0.17
orange juice, from frozen concentrate	98	3	3	0	0	0	0	0	0	0.014	0.05
apple juice, bottled	99	3	2	1	0.012	0.020	0	0.035	0	0.014	0.05
grapefruit juice, from frozen concentrate	100	3	2	1	0.014	0.025	0	0.043	0	0.014	0.05
prune juice, bottled	103	3	0	0	0.095	0.014	0.079	0.107	0.099	0.017	0.06
lemonade, from frozen concentrate	105	3	3	0	0	0	0	0	0	0.014	0.05
spinach, fresh/frozen, boiled	107	3	0	3	0.058	0.011	0.047	0.069	0.057	0.025	0.09
collards, fresh/frozen, boiled	108	3	0	3	0.040	0.006	0.033	0.044	0.042	0.025	0.09
iceberg lettuce, raw	109	3	0	1	0.130	0.090	0.028	0.199	0.163	0.017	0.06
cabbage, fresh, boiled	110	3	2	1	0.011	0.020	0	0.034	0	0.017	0.06
coleslaw with dressing, homemade	111	3	1	2	0.040	0.037	0	0.073	0.048	0.036	0.12
sauerkraut, canned	112	3	0	3	0.054	0.007	0.046	0.059	0.056	0.025	0.09
broccoli, fresh/frozen, boiled	113	3	0	3	0.043	0.013	0.029	0.055	0.046	0.025	0.09
celery, raw	114	3	2	1	0.014	0.024	0	0.042	0	0.017	0.06
asparagus, fresh/frozen, boiled	115	3	0	2	0.108	0.055	0.067	0.171	0.086	0.025	0.09
cauliflower, fresh/frozen, boiled	116	3	0	2	0.085	0.041	0.054	0.132	0.069	0.025	0.09
tomato, red, raw	117	3	1	2	0.024	0.022	0	0.042	0.030	0.017	0.06
tomato sauce, plain, bottled	119	3	0	2	0.107	0.014	0.093	0.120	0.107	0.036	0.12
green beans, fresh/frozen, boiled	121	3	1	1	0.133	0.165	0	0.317	0.081	0.025	0.09
cucumber, raw	123	3	2	1	0.010	0.018	0	0.031	0	0.017	0.06
summer squash, fresh/frozen, boiled	124	3	0	2	0.069	0.039	0.045	0.114	0.049	0.025	0.09
green pepper, raw	125	3	1	1	0.103	0.112	0	0.222	0.086	0.025	0.09
winter squash, fresh/frozen, baked, mashed	126	3	0	0	0.190	0.031	0.168	0.226	0.177	0.025	0.09
onion, mature, raw	128	3	0	3	0.051	0.012	0.037	0.058	0.058	0.025	0.09
radish, raw	132	3	3	0	0	0	0	0	0	0.025	0.09
French fries, frozen, heated	134	3	0	3	0.082	0.016	0.072	0.100	0.074	0.036	0.12
mashed potatoes, from flakes	135	3	1	2	0.027	0.027	0	0.054	0.027	0.025	0.09
white potato, boiled without skin	136	3	0	3	0.061	0.025	0.033	0.079	0.071	0.025	0.09
white potato, baked with skin	137	3	0	1	0.097	0.051	0.047	0.148	0.095	0.025	0.09
potato chips	138	3	0	0	0.231	0.077	0.184	0.320	0.190	0.05	0.17

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Nickel - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	3	1	2	0.055	0.049	0	0.096	0.068	0.036	0.12
sweet potato, fresh, baked	140	3	0	1	0.115	0.041	0.089	0.162	0.093	0.025	0.09
spaghetti with tomato sauce and meatballs, homemade	142	3	0	2	0.097	0.023	0.082	0.124	0.086	0.036	0.12
beef stew with potatoes, carrots, and onion, homemade	143	3	0	3	0.049	0.011	0.042	0.062	0.044	0.025	0.09
macaroni and cheese, from box mix	146	3	2	1	0.013	0.023	0	0.039	0	0.036	0.12
quarter-pound hamburger on bun, fast-food	147	3	0	3	0.072	0.021	0.049	0.088	0.080	0.036	0.12
meatloaf, homemade	148	3	1	2	0.030	0.026	0	0.050	0.039	0.036	0.12
spaghetti with tomato sauce, canned	149	3	0	0	0.387	0.328	0.173	0.764	0.223	0.025	0.09
lasagna with meat, homemade	151	3	0	2	0.115	0.021	0.092	0.134	0.119	0.036	0.12
chicken potpie, frozen, heated	152	3	0	3	0.076	0.021	0.064	0.100	0.065	0.036	0.12
chicken noodle soup, canned, condensed, prepared with water	155	3	0	0	0.162	0.040	0.118	0.194	0.175	0.025	0.09
tomato soup, canned, condensed, prepared with water	156	3	0	1	0.177	0.104	0.060	0.258	0.212	0.025	0.09
vegetable beef soup, canned, condensed, prepared with water	157	3	0	1	0.108	0.071	0.047	0.186	0.091	0.025	0.09
white sauce, homemade	160	3	3	0	0	0	0	0	0	0.036	0.12
dill cucumber pickles	161	3	0	3	0.053	0.017	0.042	0.073	0.045	0.036	0.12
margarine, stick, regular (salted)	162	3	2	1	0.058	0.100	0	0.173	0	0.125	0.42
butter, regular (salted)	164	3	3	0	0	0	0	0	0	0.125	0.42
mayonnaise, regular, bottled	166	3	3	0	0	0	0	0	0	0.125	0.42
half & half cream	167	3	3	0	0	0	0	0	0	0.05	0.17
cream substitute, frozen	168	3	1	2	0.027	0.024	0	0.043	0.039	0.036	0.12
white sugar, granulated	169	3	3	0	0	0	0	0	0	0.063	0.21
pancake syrup	170	3	3	0	0	0	0	0	0	0.036	0.12
honey	172	3	2	1	0.019	0.033	0	0.057	0	0.036	0.12
tomato catsup	173	3	0	2	0.106	0.038	0.065	0.140	0.112	0.036	0.12
chocolate pudding, from instant mix	175	3	0	0	0.190	0.047	0.137	0.223	0.211	0.025	0.09
vanilla flavored light ice cream	177	3	3	0	0	0	0	0	0	0.025	0.09
chocolate cake with chocolate icing, commercial	178	3	0	0	0.585	0.079	0.505	0.663	0.588	0.025	0.09
yellow cake with white icing, prepared from cake and icing mixes	179	3	0	3	0.049	0.018	0.029	0.065	0.053	0.025	0.09
sweet roll/Danish, commercial	182	3	0	1	0.091	0.026	0.063	0.114	0.095	0.025	0.09
chocolate chip cookies, commercial	183	3	0	0	0.747	0.255	0.522	1.02	0.695	0.025	0.09
sandwich cookies with creme filling, commercial	184	3	0	0	0.272	0.044	0.247	0.323	0.247	0.025	0.09

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Nickel - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	3	0	3	0.048	0.009	0.038	0.054	0.052	0.036	0.12
pumpkin pie, fresh/frozen, commercial	186	3	0	1	0.121	0.035	0.082	0.147	0.135	0.036	0.12
milk chocolate candy bar, plain	187	3	0	0	0.871	0.077	0.810	0.957	0.845	0.036	0.12
caramel candy	188	3	0	3	0.088	0.018	0.075	0.109	0.081	0.034	0.12
gelatin dessert, any flavor	190	3	2	1	0.018	0.032	0	0.055	0	0.025	0.09
cola carbonated beverage	191	3	3	0	0	0	0	0	0	0.014	0.05
fruit drink, from powder	193	3	3	0	0	0	0	0	0	0.014	0.05
low-calorie cola carbonated beverage	194	3	3	0	0	0	0	0	0	0.014	0.05
coffee, decaffeinated, from instant	196	3	1	2	0.023	0.020	0	0.036	0.033	0.014	0.05
tea, from tea bag	197	3	0	3	0.038	0.007	0.030	0.043	0.041	0.014	0.05
beer	198	3	3	0	0	0	0	0	0	0.014	0.05
dry table wine	199	3	2	1	0.013	0.023	0	0.040	0	0.014	0.05
whiskey	200	3	3	0	0	0	0	0	0	0.014	0.05
tap water	201	3	3	0	0	0	0	0	0	0.014	0.05
milk-based infant formula, high iron, ready-to-feed	202	3	3	0	0	0	0	0	0	0.017	0.06
milk-based infant formula, low iron, ready-to-feed	203	3	3	0	0	0	0	0	0	0.017	0.06
beef, strained/junior	205	3	0	3	0.031	0.005	0.027	0.036	0.031	0.025	0.09
chicken, strained/junior	207	3	1	2	0.030	0.031	0	0.061	0.029	0.025	0.09
chicken/turkey with vegetables, high/lean meat, strained/junior	208	0									
beef with vegetables, high/lean meat, strained/junior	209	0									
ham with vegetables, high/lean meat, strained/junior	210	0									
vegetables and beef, strained/junior	211	3	0	2	0.093	0.024	0.078	0.121	0.081	0.025	0.09
vegetables and chicken, strained/junior	212	3	0	1	0.129	0.057	0.076	0.190	0.120	0.025	0.09
vegetables and ham, strained/junior	213	3	0	1	0.132	0.051	0.074	0.168	0.154	0.025	0.09
chicken noodle dinner, strained/junior	214	3	0	1	0.116	0.040	0.077	0.157	0.114	0.025	0.09
macaroni, tomatoes, and beef, strained/junior	215	3	0	2	0.083	0.046	0.047	0.135	0.068	0.025	0.09
turkey and rice, strained/junior	216	3	0	3	0.060	0.007	0.055	0.068	0.057	0.025	0.09
carrots, strained/junior	218	3	0	1	0.162	0.088	0.067	0.240	0.180	0.025	0.09
green beans, strained/junior	219	3	0	0	0.209	0.048	0.154	0.240	0.233	0.025	0.09
mixed vegetables, strained/junior	220	3	0	1	0.137	0.063	0.064	0.173	0.173	0.025	0.09
sweet potatoes, strained/junior	221	3	0	2	0.112	0.064	0.072	0.186	0.077	0.025	0.09

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Nickel - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	3	1	2	0.026	0.023	0	0.046	0.031	0.025	0.09
peas, strained/junior	223	3	0	0	0.211	0.039	0.185	0.256	0.191	0.025	0.09
creamed spinach, strained/junior	224	3	0	0	0.166	0.033	0.134	0.199	0.166	0.025	0.09
applesauce, strained/junior	225	3	2	1	0.019	0.032	0	0.056	0	0.025	0.09
peaches, strained/junior	226	3	0	1	0.142	0.067	0.068	0.197	0.162	0.025	0.09
pears, strained/junior	227	3	0	1	0.133	0.043	0.087	0.173	0.138	0.025	0.09
apple juice, strained	230	3	3	0	0	0	0	0	0	0.014	0.05
orange juice, strained	231	3	3	0	0	0	0	0	0	0.014	0.05
custard pudding, strained/junior	232	3	3	0	0	0	0	0	0	0.025	0.09
fruit dessert/pudding, strained/junior	233	3	0	2	0.079	0.012	0.066	0.090	0.080	0.025	0.09
fruit-flavored yogurt, lowfat (fruit mixed in)	235	3	0	3	0.040	0.016	0.030	0.058	0.032	0.025	0.09
Swiss cheese	236	3	3	0	0	0	0	0	0	0.036	0.12
cream cheese	237	3	3	0	0	0	0	0	0	0.036	0.12
veal cutlet, pan-cooked	238	3	2	0	0.053	0.091	0	0.158	0	0.036	0.12
ham luncheon meat, sliced	239	3	3	0	0	0	0	0	0	0.05	0.17
chicken breast, roasted	240	3	3	0	0	0	0	0	0	0.036	0.12
chicken nuggets, fast-food	241	3	0	1	0.169	0.054	0.108	0.211	0.187	0.036	0.12
chicken, fried (breast, leg, and thigh), fast-food	242	3	1	2	0.041	0.038	0	0.076	0.048	0.036	0.12
haddock, pan-cooked	243	3	3	0	0	0	0	0	0	0.036	0.12
shrimp, boiled	244	3	3	0	0	0	0	0	0	0.036	0.12
kidney beans, dry, boiled	245	3	0	0	0.368	0.182	0.184	0.547	0.374	0.025	0.09
peas, mature, dry, boiled	246	3	0	0	0.699	0.179	0.555	0.900	0.642	0.025	0.09
mixed nuts, no peanuts, dry roasted	247	3	0	0	3.04	0.548	2.63	3.66	2.82	0.05	0.17
cracked wheat bread	248	3	0	0	0.152	0.008	0.143	0.159	0.154	0.036	0.12
bagel, plain	249	3	0	2	0.106	0.034	0.086	0.146	0.087	0.036	0.12
English muffin, plain, toasted	250	3	0	2	0.084	0.035	0.051	0.120	0.081	0.036	0.12
graham crackers	251	3	0	1	0.156	0.032	0.119	0.174	0.174	0.036	0.12
butter-type crackers	252	3	0	0	0.151	0.021	0.129	0.170	0.155	0.036	0.12
apricot, raw	253	3	0	0	0.125	0.043	0.093	0.174	0.108	0.025	0.09
peach, canned in light/medium syrup	254	3	0	2	0.408	0.555	0.086	1.048	0.089	0.025	0.09
pear, canned in light syrup	255	3	0	3	0.057	0.013	0.043	0.068	0.059	0.025	0.09
pineapple juice, from frozen concentrate	256	3	0	0	0.109	0.053	0.067	0.169	0.091	0.014	0.05
grape juice, from frozen concentrate	257	3	2	1	0.011	0.019	0	0.033	0	0.014	0.05
French fries, fast-food	258	3	0	0	0.206	0.054	0.161	0.265	0.191	0.05	0.17
carrot, fresh, boiled	259	3	0	3	0.048	0.028	0.027	0.080	0.036	0.025	0.09
tomato, stewed, canned	260	3	0	2	0.187	0.190	0.066	0.406	0.089	0.025	0.09



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Nickel - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato juice, bottled	261	3	0	0	0.151	0.104	0.074	0.269	0.109	0.017	0.06
beets, fresh/frozen, boiled	262	3	1	2	0.030	0.031	0	0.061	0.030	0.025	0.09
Brussels sprouts, fresh/frozen, boiled	263	3	2	1	0.015	0.026	0	0.045	0	0.025	0.09
mushrooms, raw	264	3	3	0	0	0	0	0	0	0.025	0.09
eggplant, fresh, boiled	265	3	1	2	0.026	0.024	0	0.047	0.031	0.025	0.09
turnip, fresh/frozen, boiled	266	3	3	0	0	0	0	0	0	0.025	0.09
okra, fresh/frozen, boiled	267	3	0	3	0.041	0.006	0.037	0.048	0.038	0.025	0.09
mixed vegetables, frozen, boiled	268	3	0	0	0.172	0.051	0.113	0.209	0.193	0.025	0.09
beef stroganoff, homemade	269	3	3	0	0	0	0	0	0	0.025	0.09
green peppers stuffed with beef and rice, homemade	270	3	0	1	0.076	0.027	0.045	0.094	0.090	0.025	0.09
chili con carne with beans, homemade	271	3	0	0	0.218	0.039	0.178	0.255	0.221	0.036	0.12
tuna noodle casserole, homemade	272	3	0	3	0.052	0.022	0.034	0.076	0.045	0.025	0.09
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	3	0	0	0.261	0.143	0.104	0.382	0.298	0.025	0.09
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	3	0	2	0.086	0.030	0.059	0.119	0.081	0.025	0.09
quarter-pound cheeseburger on bun, fast-food	275	3	0	2	0.103	0.072	0.050	0.185	0.073	0.036	0.12
fish sandwich on bun, fast-food	276	3	0	3	0.085	0.005	0.081	0.090	0.084	0.036	0.12
frankfurter on bun, fast-food	277	3	0	3	0.075	0.022	0.053	0.096	0.076	0.036	0.12
egg, cheese, and ham on English muffin, fast-food	278	3	0	3	0.056	0.022	0.041	0.081	0.045	0.036	0.12
taco/tostada, from Mexican carry-out	279	3	0	1	0.140	0.031	0.109	0.170	0.140	0.036	0.12
cheese pizza, regular crust, from pizza carry-out	280	3	0	3	0.090	0.011	0.077	0.097	0.095	0.036	0.12
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	3	0	3	0.084	0.023	0.065	0.109	0.078	0.036	0.12
beef chow mein, from Chinese carry-out	282	3	0	3	0.067	0.011	0.055	0.076	0.071	0.025	0.09
bean with bacon/pork soup, canned, condensed, prepared with water	283	3	0	0	0.339	0.126	0.229	0.477	0.312	0.025	0.09
mushroom soup, canned, condensed, prepared with whole milk	284	3	0	1	0.247	0.221	0.060	0.491	0.189	0.025	0.09
clam chowder, New England, canned, condensed, prepared with whole milk	285	3	0	2	0.099	0.056	0.063	0.164	0.070	0.025	0.09

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Nickel - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
vanilla ice cream	286	3	2	1	0.013	0.023	0	0.039	0	0.025	0.09
fruit flavor sherbet	287	3	2	1	0.012	0.021	0	0.036	0	0.017	0.06
popsicle, any flavor	288	3	2	0	0.089	0.154	0	0.266	0	0.036	0.12
chocolate snack cake with chocolate icing	289	3	0	0	0.792	0.091	0.720	0.894	0.763	0.025	0.09
cake doughnuts with icing, any flavor, from doughnut store	290	3	0	0	0.228	0.074	0.161	0.308	0.216	0.025	0.09
brownies, commercial	291	3	0	0	0.779	0.127	0.664	0.915	0.757	0.025	0.09
sugar cookies, commercial	292	3	0	3	0.056	0.017	0.037	0.070	0.060	0.025	0.09
suckers, any flavor	293	3	1	2	0.067	0.074	0	0.146	0.054	0.05	0.17
pretzels, hard, salted, any shape	294	3	0	3	0.089	0.004	0.085	0.093	0.088	0.05	0.17
chocolate syrup dessert topping	295	3	0	0	1.04	0.233	0.833	1.29	0.981	0.025	0.09
jelly, any flavor	296	3	0	3	0.047	0.021	0.028	0.070	0.042	0.025	0.09
sweet cucumber pickles	297	3	0	3	0.042	0.016	0.026	0.057	0.043	0.025	0.09
yellow mustard	298	3	0	3	0.074	0.013	0.059	0.085	0.078	0.025	0.09
black olives	299	3	0	1	0.096	0.034	0.057	0.119	0.111	0.025	0.09
sour cream	300	3	3	0	0	0	0	0	0	0.036	0.12
brown gravy, homemade	301	3	2	1	0.012	0.021	0	0.036	0	0.036	0.12
French salad dressing, regular	302	3	3	0	0	0	0	0	0	0.125	0.33
Italian salad dressing, low-calorie	303	3	3	0	0	0	0	0	0	0.042	0.14
olive/safflower oil	304	3	3	0	0	0	0	0	0	0.125	0.42
coffee, from ground	305	3	3	0	0	0	0	0	0	0.014	0.05
fruit-flavored carbonated beverage	306	3	3	0	0	0	0	0	0	0.014	0.05
fruit drink, canned	307	3	3	0	0	0	0	0	0	0.014	0.05
martini	308	3	3	0	0	0	0	0	0	0.014	0.05
soy-based infant formula, ready-to-feed	309	3	3	0	0	0	0	0	0	0.014	0.05
egg yolk, strained/junior	310	0									
rice infant cereal, instant, prepared with whole milk	311	3	0	2	0.097	0.045	0.055	0.144	0.093	0.036	0.12
rice cereal, strained/junior	312	3	0	3	0.060	0.008	0.053	0.069	0.059	0.025	0.09
bananas with tapioca, strained/junior	313	3	0	3	0.033	0.006	0.029	0.040	0.030	0.025	0.09
beets, strained/junior	314	0									
split peas with vegetables and ham/bacon	316	3	0	1	0.102	0.022	0.082	0.126	0.099	0.025	0.09
teething biscuits	317	3	0	2	0.152	0.094	0.096	0.260	0.099	0.036	0.12
squash, strained/junior	320	3	0	1	0.127	0.084	0.045	0.213	0.123	0.025	0.09

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Arsenic - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4681</b>	<b>4109</b>	<b>368</b>	<b>0.036</b>	<b>0.366</b>	<b>0</b>	<b>10.4</b>	<b>0</b>		
whole milk, fluid	1	18	18	0	0	0	0	0	0	0.01	0.04
lowfat (2% fat) milk, fluid	2	18	18	0	0	0	0	0	0	0.01	0.04
chocolate milk, fluid	3	18	18	0	0	0	0	0	0	0.01	0.04
skim milk, fluid	4	18	17	1	0.001	0.005	0	0.020	0	0.01	0.04
plain yogurt, lowfat	6	18	18	0	0	0	0	0	0	0.01	0.04
chocolate milk shake, fast-food	7	18	18	0	0	0	0	0	0	0.01	0.04
evaporated milk, canned	8	18	17	1	0.001	0.003	0	0.012	0	0.01	0.04
American, processed cheese	10	18	18	0	0	0	0	0	0	0.02	0.05
cottage cheese, 4% milkfat	11	18	18	0	0	0	0	0	0	0.02	0.05
cheddar cheese	12	18	18	0	0	0	0	0	0	0.02	0.05
ground beef, pan-cooked	13	18	15	3	0.002	0.006	0	0.017	0	0.01	0.04
beef chuck roast, baked	14	18	17	1	0.001	0.003	0	0.012	0	0.01	0.04
beef steak, loin, pan-cooked	16	18	13	5	0.004	0.007	0	0.018	0	0.01	0.04
ham, baked	17	18	17	1	0.001	0.003	0	0.011	0	0.01	0.04
pork chop, pan-cooked	18	18	18	0	0	0	0	0	0	0.01	0.04
pork sausage, pan-cooked	19	18	17	0	0.003	0.013	0	0.055	0	0.02	0.05
pork bacon, pan-cooked	20	18	18	0	0	0	0	0	0	0.02	0.05
pork roast, baked	21	18	18	0	0	0	0	0	0	0.02	0.05
lamb chop, pan-cooked	22	18	18	0	0	0	0	0	0	0.02	0.05
chicken, fried (breast, leg, and thigh) homemade	24	18	7	7	0.024	0.028	0	0.086	0.015	0.01	0.04
turkey breast, roasted	26	18	11	6	0.010	0.016	0	0.053	0	0.01	0.04
liver, beef, fried	27	18	11	7	0.007	0.010	0	0.036	0	0.01	0.04
frankfurters, beef, boiled	28	18	18	0	0	0	0	0	0	0.02	0.05
bologna, sliced	29	18	18	0	0	0	0	0	0	0.02	0.05
salami, sliced	30	18	18	0	0	0	0	0	0	0.02	0.05
tuna, canned in oil	32	18	0	0	0.942	0.251	0.609	1.47	0.886	0.02	0.04
fish sticks, frozen, heated	34	18	0	0	0.867	0.536	0.380	2.79	0.734	0.02	0.04
eggs, scrambled	35	18	17	1	0.002	0.007	0	0.03	0	0.01	0.04
eggs, fried	36	18	16	2	0.001	0.004	0	0.013	0	0.01	0.04
eggs, boiled	37	18	17	1	0.001	0.005	0	0.022	0	0.01	0.04
pinto beans, dry, boiled	38	18	17	1	0.001	0.005	0	0.021	0	0.01	0.04
pork and beans, canned	39	18	16	2	0.002	0.006	0	0.020	0	0.01	0.04
lima beans, immature, frozen, boiled	42	18	16	2	0.001	0.004	0	0.015	0	0.01	0.04
green peas, fresh/frozen, boiled	46	18	18	0	0	0	0	0	0	0.01	0.04
peanut butter, smooth	47	18	10	6	0.017	0.023	0	0.068	0	0.02	0.05
peanuts, dry roasted	48	18	13	4	0.011	0.021	0	0.081	0	0.02	0.05

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Arsenic - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	3	3	0.066	0.034	0	0.110	0.07	0.01	0.04
oatmeal, quick (1-3 min), cooked	51	18	18	0	0	0	0	0	0	0.01	0.04
wheat cereal, farina, quick (1-3min), cooked	52	18	18	0	0	0	0	0	0	0.01	0.04
corngrits, regular, cooked	53	18	18	0	0	0	0	0	0	0.01	0.04
corn, fresh/frozen, boiled	54	18	18	0	0	0	0	0	0	0.01	0.04
cream style corn, canned	56	18	18	0	0	0	0	0	0	0.01	0.04
popcorn, popped in oil	57	18	18	0	0	0	0	0	0	0.02	0.05
white bread	58	18	18	0	0	0	0	0	0	0.02	0.05
white roll	59	18	18	0	0	0	0	0	0	0.02	0.05
cornbread, homemade	60	18	17	1	0.001	0.003	0	0.011	0	0.01	0.04
biscuit, from refrigerated dough, baked	61	18	18	0	0	0	0	0	0	0.01	0.04
whole wheat bread	62	18	12	6	0.006	0.010	0	0.028	0	0.01	0.04
tortilla, flour	63	18	17	1	0.001	0.005	0	0.021	0	0.02	0.04
rye bread	64	18	13	5	0.004	0.007	0	0.017	0	0.01	0.04
blueberry muffin, commercial	65	18	18	0	0	0	0	0	0	0.01	0.04
saltine crackers	66	18	18	0	0	0	0	0	0	0.01	0.04
corn chips	67	18	18	0	0	0	0	0	0	0.01	0.04
pancake from mix	68	18	16	2	0.001	0.004	0	0.012	0	0.01	0.04
egg noodles, boiled	69	18	18	0	0	0	0	0	0	0.02	0.05
macaroni, boiled	70	18	18	0	0	0	0	0	0	0.01	0.04
corn flakes	71	18	18	0	0	0	0	0	0	0.01	0.04
fruit-flavored, sweetened cereal	72	18	15	2	0.005	0.012	0	0.047	0	0.01	0.04
shredded wheat cereal	73	18	16	2	0.001	0.004	0	0.012	0	0.01	0.04
raisin bran cereal	74	18	10	8	0.010	0.013	0	0.037	0	0.01	0.04
crisped rice cereal	75	18	0	1	0.128	0.059	0.070	0.304	0.103	0.01	0.04
granola cereal	76	18	4	14	0.022	0.016	0	0.050	0.022	0.01	0.04
oat ring cereal	77	18	8	10	0.010	0.010	0	0.027	0.012	0.01	0.04
apple, red, raw	78	18	16	1	0.004	0.011	0	0.044	0	0.01	0.04
orange, raw	79	18	18	0	0	0	0	0	0	0.01	0.03
banana, raw	80	18	18	0	0	0	0	0	0	0.01	0.03
watermelon, raw	81	18	18	0	0	0	0	0	0	0.01	0.03
peach, raw	83	18	15	3	0.003	0.007	0	0.024	0	0.01	0.03
applesauce, bottled	84	18	18	0	0	0	0	0	0	0.01	0.03
pear, raw	85	18	18	0	0	0	0	0	0	0.01	0.03
strawberries, raw	86	18	17	1	0.001	0.003	0	0.011	0	0.01	0.03
fruit cocktail, canned in heavy syrup	87	18	16	2	0.002	0.006	0	0.024	0	0.01	0.04
grapes, red/green, seedless, raw	88	18	18	0	0	0	0	0	0	0.01	0.03

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Arsenic - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	15	3	0.003	0.006	0	0.018	0	0.01	0.03
plums, raw	91	18	18	0	0	0	0	0	0	0.01	0.03
grapefruit, raw	92	18	18	0	0	0	0	0	0	0.01	0.03
pineapple, canned in juice	93	18	17	1	0.001	0.004	0	0.018	0	0.01	0.04
sweet cherries, raw	94	12	10	2	0.003	0.007	0	0.019	0	0.01	0.04
raisins, dried	95	18	12	6	0.009	0.013	0	0.042	0	0.02	0.05
prunes, dried	96	18	17	1	0.002	0.009	0	0.040	0	0.02	0.05
avocado, raw	97	18	15	3	0.004	0.010	0	0.037	0	0.02	0.05
orange juice, from frozen concentrate	98	18	18	0	0	0	0	0	0	0.01	0.03
apple juice, bottled	99	18	13	4	0.005	0.010	0	0.040	0	0.01	0.03
grapefruit juice, from frozen concentrate	100	18	17	1	0.001	0.003	0	0.011	0	0.01	0.03
prune juice, bottled	103	18	16	2	0.001	0.004	0	0.014	0	0.01	0.03
lemonade, from frozen concentrate	105	18	18	0	0	0	0	0	0	0.01	0.03
spinach, fresh/frozen, boiled	107	18	17	1	0.001	0.005	0	0.023	0	0.01	0.03
collards, fresh/frozen, boiled	108	18	18	0	0	0	0	0	0	0.01	0.03
iceberg lettuce, raw	109	18	17	1	0.001	0.003	0	0.014	0	0.01	0.03
cabbage, fresh, boiled	110	18	17	1	0.001	0.003	0	0.011	0	0.01	0.03
coleslaw with dressing, homemade	111	18	18	0	0	0	0	0	0	0.02	0.05
sauerkraut, canned	112	18	18	0	0	0	0	0	0	0.01	0.04
broccoli, fresh/frozen, boiled	113	18	18	0	0	0	0	0	0	0.01	0.04
celery, raw	114	18	18	0	0	0	0	0	0	0.01	0.04
asparagus, fresh/frozen, boiled	115	18	18	0	0	0	0	0	0	0.01	0.04
cauliflower, fresh/frozen, boiled	116	18	18	0	0	0	0	0	0	0.01	0.04
tomato, red, raw	117	18	18	0	0	0	0	0	0	0.01	0.04
tomato sauce, plain, bottled	119	18	17	1	0.001	0.004	0	0.016	0	0.01	0.04
green beans, fresh/frozen, boiled	121	18	18	0	0	0	0	0	0	0.01	0.04
cucumber, raw	123	18	12	6	0.006	0.010	0	0.025	0	0.01	0.04
summer squash, fresh/frozen, boiled	124	18	17	1	0.001	0.003	0	0.011	0	0.01	0.04
green pepper, raw	125	18	18	0	0	0	0	0	0	0.01	0.04
winter squash, fresh/frozen, baked, mashed	126	18	18	0	0	0	0	0	0	0.01	0.04
onion, mature, raw	128	18	17	1	0.001	0.004	0	0.015	0	0.01	0.04
radish, raw	132	18	17	1	0.001	0.004	0	0.016	0	0.01	0.04
French fries, frozen, heated	134	18	18	0	0	0	0	0	0	0.02	0.04
mashed potatoes, from flakes	135	18	18	0	0	0	0	0	0	0.02	0.04
white potato, boiled without skin	136	18	18	0	0	0	0	0	0	0.01	0.03
white potato, baked with skin	137	18	15	1	0.005	0.013	0	0.042	0	0.01	0.03
potato chips	138	18	17	1	0.001	0.005	0	0.022	0	0.02	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Arsenic - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	18	0	0	0	0	0	0	0.02	0.04
sweet potato, fresh, baked	140	18	13	5	0.005	0.009	0	0.026	0	0.01	0.03
spaghetti with tomato sauce and meatballs, homemade	142	18	18	0	0	0	0	0	0	0.01	0.04
beef stew with potatoes, carrots, and onion, homemade	143	18	18	0	0	0	0	0	0	0.01	0.04
macaroni and cheese, from box mix	146	18	18	0	0	0	0	0	0	0.02	0.04
quarter-pound hamburger on bun, fast-food	147	18	18	0	0	0	0	0	0	0.01	0.04
meatloaf, homemade	148	18	17	1	0.001	0.004	0	0.015	0	0.01	0.04
spaghetti with tomato sauce, canned	149	18	17	1	0.001	0.003	0	0.012	0	0.01	0.04
lasagna with meat, homemade	151	18	18	0	0	0	0	0	0	0.01	0.04
chicken potpie, frozen, heated	152	18	18	0	0	0	0	0	0	0.01	0.03
chicken noodle soup, canned, condensed, prepared with water	155	18	18	0	0	0	0	0	0	0.01	0.03
tomato soup, canned, condensed, prepared with water	156	18	18	0	0	0	0	0	0	0.01	0.03
vegetable beef soup, canned, condensed, prepared with water	157	18	18	0	0	0	0	0	0	0.01	0.04
white sauce, homemade	160	18	18	0	0	0	0	0	0	0.01	0.03
dill cucumber pickles	161	18	16	2	0.001	0.004	0	0.014	0	0.01	0.04
margarine, stick, regular (salted)	162	18	18	0	0	0	0	0	0	0.02	0.04
butter, regular (salted)	164	18	17	1	0.001	0.006	0	0.026	0	0.02	0.04
mayonnaise, regular, bottled	166	18	18	0	0	0	0	0	0	0.02	0.05
half & half cream	167	18	18	0	0	0	0	0	0	0.01	0.04
cream substitute, frozen	168	18	18	0	0	0	0	0	0	0.01	0.04
white sugar, granulated	169	18	18	0	0	0	0	0	0	0.02	0.04
pancake syrup	170	18	18	0	0	0	0	0	0	0.02	0.04
honey	172	18	18	0	0	0	0	0	0	0.02	0.04
tomato catsup	173	18	18	0	0	0	0	0	0	0.01	0.03
chocolate pudding, from instant mix	175	18	18	0	0	0	0	0	0	0.01	0.04
vanilla flavored light ice cream	177	17	17	0	0	0	0	0	0	0.01	0.04
chocolate cake with chocolate icing, commercial	178	18	18	0	0	0	0	0	0	0.02	0.05
yellow cake with white icing, prepared from cake and icing mixes	179	18	18	0	0	0	0	0	0	0.02	0.04
sweet roll/Danish, commercial	182	18	18	0	0	0	0	0	0	0.02	0.05
chocolate chip cookies, commercial	183	18	18	0	0	0	0	0	0	0.02	0.04
sandwich cookies with creme filling, commercial	184	18	16	2	0.003	0.008	0	0.024	0	0.02	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Arsenic - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	17	1	0.002	0.008	0	0.032	0	0.02	0.04
pumpkin pie, fresh/frozen, commercial	186	18	18	0	0	0	0	0	0	0.02	0.04
milk chocolate candy bar, plain	187	18	18	0	0	0	0	0	0	0.02	0.04
caramel candy	188	18	18	0	0	0	0	0	0	0.02	0.04
gelatin dessert, any flavor	190	18	17	1	0.001	0.004	0	0.018	0	0.01	0.04
cola carbonated beverage	191	18	18	0	0	0	0	0	0	0.01	0.03
fruit drink, from powder	193	18	18	0	0	0	0	0	0	0.01	0.03
low-calorie cola carbonated beverage	194	18	18	0	0	0	0	0	0	0.01	0.03
coffee, decaffeinated, from instant	196	18	18	0	0	0	0	0	0	0.004	0.013
tea, from tea bag	197	18	18	0	0	0	0	0	0	0.004	0.013
beer	198	18	18	0	0	0	0	0	0	0.01	0.03
dry table wine	199	18	10	6	0.007	0.009	0	0.023	0	0.01	0.02
whiskey	200	18	18	0	0	0	0	0	0	0.005	0.015
tap water	201	18	18	0	0	0	0	0	0	0.002	0.007
milk-based infant formula, high iron, ready-to-feed	202	18	18	0	0	0	0	0	0	0.01	0.04
milk-based infant formula, low iron, ready-to-feed	203	18	18	0	0	0	0	0	0	0.01	0.04
beef, strained/junior	205	18	18	0	0	0	0	0	0	0.01	0.04
chicken, strained/junior	207	18	17	1	0.001	0.003	0	0.012	0	0.01	0.04
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	2	0	0	0	0	0	0	0.05	0.14
beef with vegetables, high/lean meat, strained/junior	209	2	2	0	0	0	0	0	0	0.05	0.14
ham with vegetables, high/lean meat, strained/junior	210	2	2	0	0	0	0	0	0	0.05	0.14
vegetables and beef, strained/junior	211	18	13	5	0.005	0.010	0	0.034	0	0.01	0.04
vegetables and chicken, strained/junior	212	18	12	6	0.005	0.008	0	0.022	0	0.01	0.04
vegetables and ham, strained/junior	213	18	12	6	0.004	0.006	0	0.014	0	0.01	0.04
chicken noodle dinner, strained/junior	214	18	13	5	0.005	0.009	0	0.025	0	0.01	0.04
macaroni, tomatoes, and beef, strained/junior	215	18	15	3	0.003	0.006	0	0.020	0	0.01	0.04
turkey and rice, strained/junior	216	18	11	6	0.007	0.012	0	0.047	0	0.01	0.04
carrots, strained/junior	218	18	16	0	0.035	0.106	0	0.400	0	0.01	0.04
green beans, strained/junior	219	18	18	0	0	0	0	0	0	0.01	0.04
mixed vegetables, strained/junior	220	18	15	2	0.007	0.023	0	0.095	0	0.01	0.04
sweet potatoes, strained/junior	221	18	18	0	0	0	0	0	0	0.01	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Arsenic - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	10	8	0.007	0.009	0	0.027	0	0.01	0.04
peas, strained/junior	223	18	17	1	0.001	0.006	0	0.026	0	0.01	0.04
creamed spinach, strained/junior	224	18	16	2	0.001	0.004	0	0.013	0	0.01	0.04
applesauce, strained/junior	225	18	17	1	0.001	0.006	0	0.024	0	0.01	0.04
peaches, strained/junior	226	18	18	0	0	0	0	0	0	0.01	0.04
pears, strained/junior	227	18	18	0	0	0	0	0	0	0.01	0.04
apple juice, strained	230	18	17	1	0.001	0.003	0	0.013	0	0.01	0.04
orange juice, strained	231	18	18	0	0	0	0	0	0	0.01	0.04
custard pudding, strained/junior	232	18	18	0	0	0	0	0	0	0.01	0.04
fruit dessert/pudding, strained/junior	233	18	17	1	0.001	0.003	0	0.012	0	0.01	0.04
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	16	1	0.004	0.012	0	0.043	0	0.01	0.04
Swiss cheese	236	18	17	1	0.002	0.007	0	0.029	0	0.02	0.05
cream cheese	237	18	17	1	0.001	0.005	0	0.021	0	0.02	0.05
veal cutlet, pan-cooked	238	18	17	1	0.001	0.004	0	0.018	0	0.01	0.04
ham luncheon meat, sliced	239	18	17	1	0.001	0.004	0	0.017	0	0.01	0.04
chicken breast, roasted	240	18	10	5	0.018	0.027	0	0.081	0	0.01	0.04
chicken nuggets, fast-food	241	18	10	8	0.008	0.010	0	0.029	0	0.01	0.04
chicken, fried (breast, leg, and thigh), fast-food	242	18	6	8	0.025	0.024	0	0.083	0.025	0.01	0.04
haddock, pan-cooked	243	17	0	0	5.33	2.32	1.36	10.4	5.60	0.02	0.04
shrimp, boiled	244	17	0	0	0.830	0.643	0.290	2.68	0.668	0.02	0.04
kidney beans, dry, boiled	245	18	16	2	0.002	0.006	0	0.022	0	0.01	0.04
peas, mature, dry, boiled	246	18	16	2	0.002	0.008	0	0.031	0	0.01	0.04
mixed nuts, no peanuts, dry roasted	247	18	14	4	0.007	0.013	0	0.038	0	0.02	0.05
cracked wheat bread	248	18	13	5	0.004	0.007	0	0.022	0	0.01	0.04
bagel, plain	249	18	18	0	0	0	0	0	0	0.02	0.05
English muffin, plain, toasted	250	18	16	2	0.003	0.010	0	0.031	0	0.02	0.04
graham crackers	251	18	15	2	0.005	0.013	0	0.041	0	0.01	0.04
butter-type crackers	252	18	17	1	0.001	0.003	0	0.013	0	0.01	0.04
apricot, raw	253	13	13	0	0	0	0	0	0	0.01	0.04
peach, canned in light/medium syrup	254	18	15	1	0.005	0.013	0	0.040	0	0.01	0.04
pear, canned in light syrup	255	18	18	0	0	0	0	0	0	0.01	0.04
pineapple juice, from frozen concentrate	256	18	17	1	0.001	0.006	0	0.025	0	0.01	0.03
grape juice, from frozen concentrate	257	18	15	3	0.003	0.006	0	0.023	0	0.01	0.03
French fries, fast-food	258	18	17	1	0.002	0.006	0	0.027	0	0.02	0.04
carrot, fresh, boiled	259	18	16	1	0.003	0.010	0	0.043	0	0.01	0.04
tomato, stewed, canned	260	18	18	0	0	0	0	0	0	0.01	0.04



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Arsenic - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato juice, bottled	261	18	18	0	0	0	0	0	0	0.01	0.04
beets, fresh/frozen, boiled	262	18	17	1	0.001	0.004	0	0.015	0	0.01	0.04
Brussels sprouts, fresh/frozen, boiled	263	18	17	1	0.001	0.004	0	0.015	0	0.01	0.04
mushrooms, raw	264	18	2	5	0.070	0.055	0	0.203	0.057	0.01	0.04
eggplant, fresh, boiled	265	18	18	0	0	0	0	0	0	0.01	0.04
turnip, fresh/frozen, boiled	266	18	18	0	0	0	0	0	0	0.01	0.04
okra, fresh/frozen, boiled	267	18	13	4	0.006	0.011	0	0.043	0	0.01	0.04
mixed vegetables, frozen, boiled	268	18	17	1	0.001	0.006	0	0.025	0	0.01	0.04
beef stroganoff, homemade	269	18	9	8	0.010	0.013	0	0.042	0.005	0.01	0.04
green peppers stuffed with beef and rice, homemade	270	18	7	9	0.017	0.018	0	0.060	0.014	0.01	0.04
chili con carne with beans, homemade	271	18	16	2	0.003	0.009	0	0.030	0	0.01	0.04
tuna noodle casserole, homemade	272	18	1	4	0.106	0.062	0	0.244	0.086	0.02	0.04
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	18	16	1	0.006	0.021	0	0.090	0	0.01	0.04
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	18	17	1	0.001	0.003	0	0.011	0	0.01	0.04
quarter-pound cheeseburger on bun, fast-food	275	18	16	2	0.002	0.007	0	0.026	0	0.01	0.04
fish sandwich on bun, fast-food	276	18	0	0	0.568	0.397	0.133	1.6	0.481	0.02	0.04
frankfurter on bun, fast-food	277	18	18	0	0	0	0	0	0	0.02	0.05
egg, cheese, and ham on English muffin, fast-food	278	18	17	1	0.001	0.003	0	0.011	0	0.01	0.04
taco/tostada, from Mexican carry-out	279	18	14	4	0.003	0.005	0	0.012	0	0.01	0.04
cheese pizza, regular crust, from pizza carry-out	280	18	18	0	0	0	0	0	0	0.02	0.04
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	17	1	0.002	0.008	0	0.032	0	0.02	0.04
beef chow mein, from Chinese carry-out	282	18	12	6	0.008	0.014	0	0.039	0	0.01	0.04
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	18	0	0	0	0	0	0	0.01	0.04
mushroom soup, canned, condensed, prepared with whole milk	284	18	15	2	0.005	0.013	0	0.047	0	0.01	0.04
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	1	5	0.138	0.049	0	0.206	0.135	0.02	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Arsenic - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
vanilla ice cream	286	18	18	0	0	0	0	0	0	0.01	0.04
fruit flavor sherbet	287	18	18	0	0	0	0	0	0	0.01	0.04
popsicle, any flavor	288	18	18	0	0	0	0	0	0	0.01	0.04
chocolate snack cake with chocolate icing	289	18	17	1	0.001	0.005	0	0.021	0	0.02	0.05
cake doughnuts with icing, any flavor, from doughnut store	290	18	18	0	0	0	0	0	0	0.02	0.04
brownies, commercial	291	18	17	1	0.002	0.006	0	0.027	0	0.02	0.04
sugar cookies, commercial	292	18	18	0	0	0	0	0	0	0.02	0.04
suckers, any flavor	293	18	18	0	0	0	0	0	0	0.02	0.04
pretzels, hard, salted, any shape	294	18	16	2	0.003	0.009	0	0.029	0	0.02	0.04
chocolate syrup dessert topping	295	18	18	0	0	0	0	0	0	0.02	0.04
jelly, any flavor	296	18	17	1	0.002	0.008	0	0.033	0	0.02	0.04
sweet cucumber pickles	297	18	15	2	0.006	0.016	0	0.056	0	0.01	0.04
yellow mustard	298	18	17	0	0.006	0.027	0	0.115	0	0.01	0.04
black olives	299	18	17	1	0.002	0.007	0	0.030	0	0.01	0.04
sour cream	300	18	18	0	0	0	0	0	0	0.01	0.04
brown gravy, homemade	301	18	17	1	0.001	0.003	0	0.013	0	0.01	0.04
French salad dressing, regular	302	18	16	2	0.003	0.008	0	0.030	0	0.02	0.04
Italian salad dressing, low-calorie	303	18	17	1	0.001	0.006	0	0.026	0	0.02	0.04
olive/safflower oil	304	18	17	1	0.005	0.022	0	0.092	0	0.02	0.04
coffee, from ground	305	18	18	0	0	0	0	0	0	0.01	0.03
fruit-flavored carbonated beverage	306	18	18	0	0	0	0	0	0	0.01	0.03
fruit drink, canned	307	18	17	1	0.001	0.003	0	0.013	0	0.01	0.03
martini	308	18	18	0	0	0	0	0	0	0.004	0.013
soy-based infant formula, ready-to-feed	309	18	17	1	0.001	0.003	0	0.014	0	0.01	0.04
egg yolk, strained/junior	310	12	12	0	0	0	0	0	0	0.01	0.04
rice infant cereal, instant, prepared with whole milk	311	18	5	3	0.041	0.029	0	0.087	0.049	0.01	0.04
rice cereal, strained/junior	312	18	9	9	0.010	0.011	0	0.030	0.007	0.01	0.04
bananas with tapioca, strained/junior	313	18	18	0	0	0	0	0	0	0.01	0.04
beets, strained/junior	314	15	15	0	0	0	0	0	0	0.01	0.04
split peas with vegetables and ham/bacon	316	18	12	6	0.005	0.008	0	0.020	0	0.01	0.04
teething biscuits	317	18	10	7	0.009	0.012	0	0.040	0	0.01	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Mercury - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>839</b>	<b>756</b>	<b>30</b>	<b>0.006</b>	<b>0.029</b>	<b>0</b>	<b>0.322</b>	<b>0</b>		
whole milk, fluid	1	18	18	0	0	0	0	0	0	0.01	0.04
lowfat (2% fat) milk, fluid	2	18	18	0	0	0	0	0	0	0.01	0.04
chicken, fried (breast, leg, and thigh) homemade	24	18	18	0	0	0	0	0	0	0.01	0.04
turkey breast, roasted	26	18	18	0	0	0	0	0	0	0.01	0.04
liver, beef, fried	27	18	17	1	0.002	0.007	0	0.030	0	0.01	0.04
tuna, canned in oil	32	18	0	0	0.170	0.078	0.060	0.322	0.165	0.01	0.04
fish sticks, frozen, heated	34	18	11	6	0.006	0.009	0	0.030	0	0.01	0.04
eggs, scrambled	35	18	18	0	0	0	0	0	0	0.01	0.04
eggs, fried	36	18	18	0	0	0	0	0	0	0.01	0.04
eggs, boiled	37	18	18	0	0	0	0	0	0	0.01	0.04
white rice, cooked	50	18	18	0	0	0	0	0	0	0.01	0.04
oatmeal, quick (1-3 min), cooked	51	18	17	1	0.001	0.003	0	0.012	0	0.01	0.04
white bread	58	18	18	0	0	0	0	0	0	0.02	0.07
fruit-flavored, sweetened cereal	72	18	18	0	0	0	0	0	0	0.02	0.07
crisped rice cereal	75	18	18	0	0	0	0	0	0	0.02	0.07
raisins, dried	95	18	18	0	0	0	0	0	0	0.015	0.05
prunes, dried	96	18	18	0	0	0	0	0	0	0.015	0.05
avocado, raw	97	18	18	0	0	0	0	0	0	0.02	0.07
orange juice, from frozen concentrate	98	18	18	0	0	0	0	0	0	0.01	0.04
apple juice, bottled	99	17	17	0	0	0	0	0	0	0.01	0.04
spinach, fresh/frozen, boiled	107	18	17	1	0.001	0.004	0	0.018	0	0.01	0.04
collards, fresh/frozen, boiled	108	18	18	0	0	0	0	0	0	0.01	0.04
cauliflower, fresh/frozen, boiled	116	18	18	0	0	0	0	0	0	0.01	0.04
tomato, red, raw	117	18	18	0	0	0	0	0	0	0.01	0.04
vanilla flavored light ice cream	177	17	17	0	0	0	0	0	0	0.01	0.04
milk-based infant formula, high iron, ready-to-feed	202	18	18	0	0	0	0	0	0	0.01	0.04
milk-based infant formula, low iron, ready-to-feed	203	18	18	0	0	0	0	0	0	0.01	0.04
chicken, strained/junior	207	18	18	0	0	0	0	0	0	0.01	0.04
vegetables and beef, strained/junior	211	18	18	0	0	0	0	0	0	0.01	0.04
mixed vegetables, strained/junior	220	18	18	0	0	0	0	0	0	0.01	0.04
creamed spinach, strained/junior	224	18	18	0	0	0	0	0	0	0.01	0.04
pears, strained/junior	227	18	18	0	0	0	0	0	0	0.01	0.04
apple juice, strained	230	18	18	0	0	0	0	0	0	0.01	0.04
chicken breast, roasted	240	18	18	0	0	0	0	0	0	0.01	0.04
chicken nuggets, fast-food	241	18	18	0	0	0	0	0	0	0.01	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Mercury - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
chicken, fried (breast, leg, and thigh), fast-food	242	18	18	0	0	0	0	0	0	0.01	0.04
haddock, pan-cooked	243	18	0	0	0.072	0.029	0.033	0.156	0.070	0.01	0.04
shrimp, boiled	244	18	0	8	0.028	0.010	0.017	0.053	0.026	0.01	0.04
mushrooms, raw	264	18	18	0	0	0	0	0	0	0.01	0.04
tuna noodle casserole, homemade	272	18	2	11	0.021	0.014	0	0.063	0.019	0.01	0.04
fish sandwich on bun, fast-food	276	18	15	2	0.002	0.006	0	0.021	0	0.01	0.04
beef chow mein, from Chinese carry-out	282	18	18	0	0	0	0	0	0	0.01	0.04
mushroom soup, canned, condensed, prepared with whole milk	284	18	18	0	0	0	0	0	0	0.01	0.04
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	18	0	0	0	0	0	0	0.01	0.04
soy-based infant formula, ready-to-feed	309	18	18	0	0	0	0	0	0	0.01	0.04
egg yolk, strained/junior	310	13	13	0	0	0	0	0	0	0.01	0.04
bananas with tapioca, strained/junior	313	18	18	0	0	0	0	0	0	0.01	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Selenium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4608</b>	<b>2286</b>	<b>797</b>	<b>0.073</b>	<b>0.125</b>	<b>0</b>	<b>1.80</b>	<b>0.011</b>		
whole milk, fluid	1	17	5	11	0.018	0.014	0	0.044	0.018	0.01	0.04
lowfat (2% fat) milk, fluid	2	17	6	9	0.020	0.017	0	0.056	0.024	0.01	0.04
chocolate milk, fluid	3	17	5	10	0.019	0.016	0	0.054	0.017	0.01	0.04
skim milk, fluid	4	17	5	10	0.020	0.017	0	0.058	0.022	0.01	0.04
plain yogurt, lowfat	6	17	5	8	0.024	0.018	0	0.046	0.031	0.01	0.04
chocolate milk shake, fast-food	7	17	5	11	0.021	0.016	0	0.051	0.025	0.01	0.04
evaporated milk, canned	8	17	4	4	0.039	0.028	0	0.102	0.045	0.01	0.04
American, processed cheese	10	17	0	3	0.183	0.028	0.097	0.231	0.182	0.02	0.05
cottage cheese, 4% milkfat	11	17	2	4	0.073	0.037	0	0.141	0.072	0.02	0.05
cheddar cheese	12	17	0	4	0.193	0.045	0.100	0.270	0.194	0.02	0.05
ground beef, pan-cooked	13	17	0	1	0.199	0.058	0.127	0.333	0.189	0.01	0.04
beef chuck roast, baked	14	17	0	0	0.237	0.052	0.150	0.373	0.228	0.01	0.04
beef steak, loin, pan-cooked	16	17	0	1	0.266	0.073	0.130	0.439	0.261	0.01	0.04
ham, baked	17	17	0	1	0.290	0.086	0.120	0.420	0.278	0.01	0.04
pork chop, pan-cooked	18	17	0	0	0.453	0.146	0.260	0.774	0.447	0.01	0.04
pork sausage, pan-cooked	19	17	0	4	0.205	0.112	0.066	0.556	0.178	0.02	0.05
pork bacon, pan-cooked	20	17	0	0	0.352	0.125	0.186	0.695	0.321	0.02	0.05
pork roast, baked	21	17	0	1	0.323	0.096	0.130	0.490	0.297	0.02	0.05
lamb chop, pan-cooked	22	17	0	2	0.258	0.144	0.095	0.740	0.230	0.02	0.05
chicken, fried (breast, leg, and thigh) homemade	24	17	0	2	0.253	0.104	0.090	0.465	0.240	0.01	0.04
turkey breast, roasted	26	17	0	0	0.355	0.133	0.133	0.583	0.370	0.01	0.04
liver, beef, fried	27	17	0	0	0.596	0.275	0.089	1.22	0.578	0.01	0.04
frankfurters, beef, boiled	28	17	2	3	0.096	0.043	0	0.155	0.102	0.02	0.05
bologna, sliced	29	17	0	5	0.137	0.040	0.070	0.239	0.131	0.02	0.05
salami, sliced	30	17	0	3	0.204	0.048	0.079	0.313	0.205	0.02	0.05
tuna, canned in oil	32	18	0	0	0.650	0.108	0.498	0.830	0.611	0.02	0.04
fish sticks, frozen, heated	34	18	0	1	0.165	0.032	0.076	0.200	0.171	0.02	0.04
eggs, scrambled	35	18	0	1	0.209	0.075	0.076	0.405	0.200	0.01	0.04
eggs, fried	36	17	0	0	0.279	0.092	0.149	0.454	0.278	0.01	0.04
eggs, boiled	37	17	0	1	0.282	0.104	0.116	0.477	0.288	0.01	0.04
pinto beans, dry, boiled	38	17	2	6	0.073	0.047	0	0.130	0.063	0.01	0.04
pork and beans, canned	39	17	5	9	0.029	0.025	0	0.076	0.035	0.01	0.04
lima beans, immature, frozen, boiled	42	17	14	3	0.004	0.010	0	0.036	0	0.01	0.04
green peas, fresh/frozen, boiled	46	17	15	1	0.003	0.011	0	0.044	0	0.01	0.04
peanut butter, smooth	47	17	2	8	0.081	0.072	0	0.271	0.061	0.02	0.05
peanuts, dry roasted	48	17	5	5	0.045	0.042	0	0.159	0.038	0.02	0.05

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Selenium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	17	3	4	0.057	0.042	0	0.170	0.055	0.01	0.04
oatmeal, quick (1-3 min), cooked	51	17	2	4	0.055	0.040	0	0.180	0.051	0.01	0.04
wheat cereal, farina, quick (1-3min), cooked	52	17	3	3	0.066	0.050	0	0.205	0.066	0.01	0.04
corngrits, regular, cooked	53	17	6	7	0.021	0.023	0	0.066	0.017	0.01	0.04
corn, fresh/frozen, boiled	54	17	12	5	0.005	0.009	0	0.030	0	0.01	0.04
cream style corn, canned	56	17	13	4	0.005	0.009	0	0.029	0	0.01	0.04
popcorn, popped in oil	57	18	5	6	0.073	0.068	0	0.206	0.051	0.02	0.05
white bread	58	17	0	3	0.200	0.075	0.050	0.327	0.180	0.02	0.05
white roll	59	17	0	0	0.261	0.081	0.154	0.410	0.260	0.02	0.05
cornbread, homemade	60	17	1	3	0.118	0.042	0	0.186	0.120	0.01	0.04
biscuit, from refrigerated dough, baked	61	16	0	3	0.121	0.034	0.073	0.220	0.114	0.01	0.04
whole wheat bread	62	17	0	0	0.330	0.072	0.198	0.480	0.326	0.01	0.04
tortilla, flour	63	17	0	1	0.220	0.096	0.032	0.432	0.206	0.02	0.04
rye bread	64	17	0	0	0.258	0.061	0.155	0.400	0.269	0.01	0.04
blueberry muffin, commercial	65	17	0	3	0.117	0.047	0.065	0.246	0.108	0.01	0.04
saltine crackers	66	18	1	5	0.098	0.032	0	0.138	0.100	0.01	0.04
corn chips	67	17	5	7	0.031	0.031	0	0.099	0.019	0.01	0.04
pancake from mix	68	17	0	5	0.124	0.058	0.050	0.263	0.115	0.01	0.04
egg noodles, boiled	69	17	0	1	0.215	0.075	0.052	0.373	0.227	0.02	0.05
macaroni, boiled	70	18	0	1	0.243	0.100	0.034	0.430	0.245	0.01	0.04
corn flakes	71	18	5	3	0.049	0.049	0	0.195	0.049	0.01	0.04
fruit-flavored, sweetened cereal	72	17	0	5	0.079	0.028	0.035	0.140	0.079	0.01	0.04
shredded wheat cereal	73	18	7	1	0.046	0.045	0	0.130	0.048	0.01	0.04
raisin bran cereal	74	18	5	7	0.037	0.031	0	0.108	0.038	0.01	0.04
crisped rice cereal	75	17	1	10	0.076	0.076	0	0.216	0.029	0.01	0.04
granola cereal	76	18	0	2	0.148	0.054	0.066	0.244	0.140	0.01	0.04
oat ring cereal	77	18	0	0	0.244	0.064	0.093	0.335	0.247	0.01	0.04
apple, red, raw	78	18	17	1	0.001	0.003	0	0.011	0	0.01	0.04
orange, raw	79	18	18	0	0	0	0	0	0	0.01	0.03
banana, raw	80	18	13	5	0.005	0.009	0	0.028	0	0.01	0.03
watermelon, raw	81	18	17	1	0.001	0.003	0	0.012	0	0.01	0.03
peach, raw	83	18	18	0	0	0	0	0	0	0.01	0.03
applesauce, bottled	84	18	18	0	0	0	0	0	0	0.01	0.03
pear, raw	85	18	18	0	0	0	0	0	0	0.01	0.03
strawberries, raw	86	18	17	1	0.001	0.003	0	0.012	0	0.01	0.03
fruit cocktail, canned in heavy syrup	87	18	18	0	0	0	0	0	0	0.01	0.04
grapes, red/green, seedless, raw	88	18	18	0	0	0	0	0	0	0.01	0.03

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Selenium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	14	4	0.004	0.008	0	0.025	0	0.01	0.03
plums, raw	91	18	18	0	0	0	0	0	0	0.01	0.03
grapefruit, raw	92	18	17	1	0.001	0.003	0	0.011	0	0.01	0.03
pineapple, canned in juice	93	18	18	0	0	0	0	0	0	0.01	0.04
sweet cherries, raw	94	12	12	0	0	0	0	0	0	0.01	0.04
raisins, dried	95	17	17	0	0	0	0	0	0	0.02	0.05
prunes, dried	96	17	17	0	0	0	0	0	0	0.02	0.05
avocado, raw	97	17	16	1	0.002	0.007	0	0.028	0	0.02	0.05
orange juice, from frozen concentrate	98	17	17	0	0	0	0	0	0	0.01	0.03
apple juice, bottled	99	17	16	1	0.002	0.010	0	0.040	0	0.01	0.03
grapefruit juice, from frozen concentrate	100	18	18	0	0	0	0	0	0	0.01	0.03
prune juice, bottled	103	18	18	0	0	0	0	0	0	0.01	0.03
lemonade, from frozen concentrate	105	18	17	0	0.003	0.011	0	0.047	0	0.01	0.03
spinach, fresh/frozen, boiled	107	17	14	3	0.002	0.005	0	0.015	0	0.01	0.03
collards, fresh/frozen, boiled	108	17	13	3	0.005	0.011	0	0.041	0	0.01	0.03
iceberg lettuce, raw	109	18	16	2	0.002	0.004	0	0.014	0	0.01	0.03
cabbage, fresh, boiled	110	18	15	2	0.003	0.008	0	0.030	0	0.01	0.03
coleslaw with dressing, homemade	111	18	14	4	0.007	0.015	0	0.040	0	0.02	0.05
sauerkraut, canned	112	18	11	6	0.009	0.017	0	0.071	0	0.01	0.04
broccoli, fresh/frozen, boiled	113	18	14	4	0.004	0.008	0	0.022	0	0.01	0.04
celery, raw	114	18	17	1	0.001	0.003	0	0.011	0	0.01	0.04
asparagus, fresh/frozen, boiled	115	18	5	7	0.047	0.053	0	0.217	0.037	0.01	0.04
cauliflower, fresh/frozen, boiled	116	18	14	3	0.008	0.024	0	0.103	0	0.01	0.04
tomato, red, raw	117	17	17	0	0	0	0	0	0	0.01	0.04
tomato sauce, plain, bottled	119	18	16	2	0.003	0.009	0	0.037	0	0.01	0.04
green beans, fresh/frozen, boiled	121	18	18	0	0	0	0	0	0	0.01	0.04
cucumber, raw	123	18	18	0	0	0	0	0	0	0.01	0.04
summer squash, fresh/frozen, boiled	124	18	18	0	0	0	0	0	0	0.01	0.04
green pepper, raw	125	18	18	0	0	0	0	0	0	0.01	0.04
winter squash, fresh/frozen, baked, mashed	126	18	17	1	0.001	0.003	0	0.011	0	0.01	0.04
onion, mature, raw	128	18	15	3	0.004	0.010	0	0.039	0	0.01	0.04
radish, raw	132	18	18	0	0	0	0	0	0	0.01	0.04
French fries, frozen, heated	134	18	18	0	0	0	0	0	0	0.02	0.04
mashed potatoes, from flakes	135	18	17	1	0.001	0.006	0	0.025	0	0.02	0.04
white potato, boiled without skin	136	18	18	0	0	0	0	0	0	0.01	0.03
white potato, baked with skin	137	18	15	3	0.003	0.007	0	0.020	0	0.01	0.03
potato chips	138	18	12	3	0.025	0.054	0	0.217	0	0.02	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Selenium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	13	5	0.007	0.011	0	0.030	0	0.02	0.04
sweet potato, fresh, baked	140	18	16	2	0.003	0.008	0	0.029	0	0.01	0.03
spaghetti with tomato sauce and meatballs, homemade	142	18	0	4	0.124	0.039	0.048	0.200	0.122	0.01	0.04
beef stew with potatoes, carrots, and onion, homemade	143	18	1	5	0.072	0.028	0	0.120	0.072	0.01	0.04
macaroni and cheese, from box mix	146	18	0	2	0.182	0.053	0.076	0.300	0.176	0.02	0.04
quarter-pound hamburger on bun, fast-food	147	18	0	2	0.175	0.043	0.121	0.300	0.169	0.01	0.04
meatloaf, homemade	148	18	0	2	0.201	0.053	0.074	0.300	0.205	0.01	0.04
spaghetti with tomato sauce, canned	149	18	0	6	0.104	0.025	0.060	0.170	0.099	0.01	0.04
lasagna with meat, homemade	151	18	0	4	0.140	0.033	0.093	0.190	0.145	0.01	0.04
chicken potpie, frozen, heated	152	18	3	3	0.068	0.037	0	0.127	0.077	0.01	0.03
chicken noodle soup, canned, condensed, prepared with water	155	18	5	7	0.024	0.019	0	0.060	0.023	0.01	0.03
tomato soup, canned, condensed, prepared with water	156	18	17	1	0.001	0.004	0	0.017	0	0.01	0.03
vegetable beef soup, canned, condensed, prepared with water	157	18	10	8	0.008	0.010	0	0.026	0	0.01	0.04
white sauce, homemade	160	18	6	3	0.025	0.020	0	0.053	0.029	0.01	0.03
dill cucumber pickles	161	18	18	0	0	0	0	0	0	0.01	0.04
margarine, stick, regular (salted)	162	18	18	0	0	0	0	0	0	0.02	0.04
butter, regular (salted)	164	18	18	0	0	0	0	0	0	0.02	0.04
mayonnaise, regular, bottled	166	18	11	7	0.012	0.016	0	0.045	0	0.02	0.05
half & half cream	167	18	6	12	0.017	0.013	0	0.036	0.021	0.01	0.04
cream substitute, frozen	168	18	18	0	0	0	0	0	0	0.01	0.04
white sugar, granulated	169	18	18	0	0	0	0	0	0	0.02	0.04
pancake syrup	170	18	18	0	0	0	0	0	0	0.02	0.04
honey	172	18	18	0	0	0	0	0	0	0.02	0.04
tomato catsup	173	18	17	1	0.001	0.003	0	0.014	0	0.01	0.03
chocolate pudding, from instant mix	175	18	6	10	0.022	0.023	0	0.080	0.022	0.01	0.04
vanilla flavored light ice cream	177	16	5	8	0.024	0.017	0	0.044	0.032	0.01	0.04
chocolate cake with chocolate icing, commercial	178	18	6	9	0.030	0.024	0	0.077	0.038	0.02	0.05
yellow cake with white icing, prepared from cake and icing mixes	179	18	7	3	0.029	0.027	0	0.075	0.036	0.02	0.04
sweet roll/Danish, commercial	182	18	0	5	0.131	0.039	0.064	0.220	0.125	0.02	0.05
chocolate chip cookies, commercial	183	18	6	3	0.037	0.032	0	0.119	0.042	0.02	0.04
sandwich cookies with creme filling, commercial	184	18	5	9	0.031	0.026	0	0.081	0.028	0.02	0.04



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Selenium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	15	3	0.005	0.011	0	0.033	0	0.02	0.04
pumpkin pie, fresh/frozen, commercial	186	18	6	6	0.029	0.024	0	0.076	0.035	0.02	0.04
milk chocolate candy bar, plain	187	18	4	4	0.043	0.030	0	0.110	0.046	0.02	0.04
caramel candy	188	18	8	9	0.017	0.016	0	0.050	0.022	0.02	0.04
gelatin dessert, any flavor	190	18	17	1	0.001	0.004	0	0.017	0	0.01	0.04
cola carbonated beverage	191	18	18	0	0	0	0	0	0	0.01	0.03
fruit drink, from powder	193	18	17	0	0.002	0.008	0	0.032	0	0.01	0.03
low-calorie cola carbonated beverage	194	18	18	0	0	0	0	0	0	0.01	0.03
coffee, decaffeinated, from instant	196	18	17	1	0.002	0.008	0	0.032	0	0.004	0.013
tea, from tea bag	197	18	17	1	0.002	0.008	0	0.032	0	0.004	0.013
beer	198	18	16	2	0.001	0.004	0	0.012	0	0.01	0.03
dry table wine	199	18	16	2	0.003	0.010	0	0.040	0	0.01	0.02
whiskey	200	18	18	0	0	0	0	0	0	0.005	0.015
tap water	201	18	18	0	0	0	0	0	0	0.002	0.007
milk-based infant formula, high iron, ready-to-feed	202	17	6	11	0.014	0.012	0	0.030	0.021	0.01	0.04
milk-based infant formula, low iron, ready-to-feed	203	17	6	11	0.015	0.012	0	0.033	0.019	0.01	0.04
beef, strained/junior	205	18	6	7	0.024	0.020	0	0.053	0.028	0.01	0.04
chicken, strained/junior	207	17	0	1	0.131	0.020	0.087	0.163	0.135	0.01	0.04
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	2	0.064	0.004	0.061	0.066	0.064	0.05	0.14
beef with vegetables, high/lean meat, strained/junior	209	2	2	0	0	0	0	0	0	0.05	0.14
ham with vegetables, high/lean meat, strained/junior	210	2	0	2	0.102	0.033	0.079	0.125	0.102	0.05	0.14
vegetables and beef, strained/junior	211	17	9	8	0.008	0.010	0	0.033	0	0.01	0.04
vegetables and chicken, strained/junior	212	18	6	12	0.016	0.018	0	0.073	0.014	0.01	0.04
vegetables and ham, strained/junior	213	18	7	10	0.015	0.014	0	0.041	0.020	0.01	0.04
chicken noodle dinner, strained/junior	214	18	6	8	0.024	0.018	0	0.048	0.032	0.01	0.04
macaroni, tomatoes, and beef, strained/junior	215	18	5	9	0.025	0.019	0	0.060	0.027	0.01	0.04
turkey and rice, strained/junior	216	18	6	8	0.026	0.026	0	0.095	0.025	0.01	0.04
carrots, strained/junior	218	18	18	0	0	0	0	0	0	0.01	0.04
green beans, strained/junior	219	18	18	0	0	0	0	0	0	0.01	0.04
mixed vegetables, strained/junior	220	18	11	6	0.011	0.020	0	0.081	0	0.01	0.04
sweet potatoes, strained/junior	221	18	18	0	0	0	0	0	0	0.01	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Selenium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	7	8	0.018	0.022	0	0.074	0.013	0.01	0.04
peas, strained/junior	223	18	17	1	0.001	0.004	0	0.016	0	0.01	0.04
creamed spinach, strained/junior	224	17	6	8	0.021	0.020	0	0.068	0.026	0.01	0.04
applesauce, strained/junior	225	18	17	1	0.001	0.003	0	0.012	0	0.01	0.04
peaches, strained/junior	226	18	18	0	0	0	0	0	0	0.01	0.04
pears, strained/junior	227	17	17	0	0	0	0	0	0	0.01	0.04
apple juice, strained	230	17	17	0	0	0	0	0	0	0.01	0.04
orange juice, strained	231	18	18	0	0	0	0	0	0	0.01	0.04
custard pudding, strained/junior	232	18	5	10	0.026	0.021	0	0.071	0.026	0.01	0.04
fruit dessert/pudding, strained/junior	233	18	18	0	0	0	0	0	0	0.01	0.04
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	7	10	0.017	0.015	0	0.040	0.021	0.01	0.04
Swiss cheese	236	18	0	5	0.182	0.063	0.109	0.368	0.168	0.02	0.05
cream cheese	237	18	4	7	0.047	0.033	0	0.099	0.049	0.02	0.05
veal cutlet, pan-cooked	238	18	0	1	0.172	0.053	0.098	0.354	0.165	0.01	0.04
ham luncheon meat, sliced	239	18	0	0	0.236	0.088	0.096	0.374	0.215	0.01	0.04
chicken breast, roasted	240	17	0	1	0.271	0.129	0.090	0.623	0.244	0.01	0.04
chicken nuggets, fast-food	241	17	0	1	0.201	0.120	0.052	0.595	0.163	0.01	0.04
chicken, fried (breast, leg, and thigh), fast-food	242	17	0	1	0.219	0.076	0.131	0.353	0.210	0.01	0.04
haddock, pan-cooked	243	17	0	0	0.397	0.08	0.256	0.503	0.400	0.02	0.04
shrimp, boiled	244	17	0	0	0.390	0.099	0.2	0.574	0.369	0.02	0.04
kidney beans, dry, boiled	245	18	8	8	0.015	0.016	0	0.050	0.018	0.01	0.04
peas, mature, dry, boiled	246	18	10	3	0.022	0.028	0	0.080	0	0.01	0.04
mixed nuts, no peanuts, dry roasted	247	18	1	0	0.579	0.450	0	1.80	0.436	0.02	0.05
cracked wheat bread	248	18	0	0	0.295	0.073	0.209	0.448	0.273	0.01	0.04
bagel, plain	249	18	0	0	0.308	0.098	0.165	0.518	0.285	0.02	0.05
English muffin, plain, toasted	250	18	0	0	0.277	0.067	0.144	0.402	0.264	0.02	0.04
graham crackers	251	18	4	3	0.052	0.034	0	0.100	0.061	0.01	0.04
butter-type crackers	252	18	4	2	0.058	0.036	0	0.102	0.069	0.01	0.04
apricot, raw	253	13	13	0	0	0	0	0	0	0.01	0.04
peach, canned in light/medium syrup	254	18	18	0	0	0	0	0	0	0.01	0.04
pear, canned in light syrup	255	18	18	0	0	0	0	0	0	0.01	0.04
pineapple juice, from frozen concentrate	256	18	18	0	0	0	0	0	0	0.01	0.03
grape juice, from frozen concentrate	257	18	18	0	0	0	0	0	0	0.01	0.03
French fries, fast-food	258	18	18	0	0	0	0	0	0	0.02	0.04
carrot, fresh, boiled	259	18	15	3	0.003	0.007	0	0.027	0	0.01	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Selenium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	18	0	0	0	0	0	0	0.01	0.04
tomato juice, bottled	261	18	15	3	0.003	0.006	0	0.017	0	0.01	0.04
beets, fresh/frozen, boiled	262	17	17	0	0	0	0	0	0	0.01	0.04
Brussels sprouts, fresh/frozen, boiled	263	18	13	4	0.006	0.011	0	0.040	0	0.01	0.04
mushrooms, raw	264	18	2	3	0.099	0.058	0	0.227	0.087	0.01	0.04
eggplant, fresh, boiled	265	18	18	0	0	0	0	0	0	0.01	0.04
turnip, fresh/frozen, boiled	266	18	16	2	0.002	0.005	0	0.016	0	0.01	0.04
okra, fresh/frozen, boiled	267	18	15	3	0.003	0.007	0	0.021	0	0.01	0.04
mixed vegetables, frozen, boiled	268	18	14	4	0.005	0.009	0	0.032	0	0.01	0.04
beef stroganoff, homemade	269	18	0	0	0.194	0.047	0.121	0.311	0.183	0.01	0.04
green peppers stuffed with beef and rice, homemade	270	18	2	4	0.067	0.029	0	0.099	0.070	0.01	0.04
chili con carne with beans, homemade	271	18	3	5	0.054	0.029	0	0.090	0.064	0.01	0.04
tuna noodle casserole, homemade	272	18	0	1	0.166	0.037	0.107	0.240	0.162	0.02	0.04
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	18	6	4	0.029	0.024	0	0.062	0.035	0.01	0.04
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	18	0	5	0.101	0.025	0.051	0.170	0.103	0.01	0.04
quarter-pound cheeseburger on bun, fast-food	275	18	0	0	0.174	0.027	0.126	0.230	0.179	0.01	0.04
fish sandwich on bun, fast-food	276	18	0	0	0.192	0.038	0.134	0.281	0.191	0.02	0.04
frankfurter on bun, fast-food	277	18	0	3	0.196	0.037	0.145	0.250	0.197	0.02	0.05
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	0.271	0.064	0.171	0.447	0.267	0.01	0.04
taco/tostada, from Mexican carry-out	279	18	2	3	0.102	0.045	0	0.161	0.104	0.01	0.04
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	0.253	0.042	0.184	0.332	0.245	0.02	0.04
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	0.244	0.069	0.068	0.381	0.242	0.02	0.04
beef chow mein, from Chinese carry-out	282	18	3	4	0.067	0.047	0	0.192	0.071	0.01	0.04
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	7	11	0.015	0.015	0	0.052	0.017	0.01	0.04
mushroom soup, canned, condensed, prepared with whole milk	284	18	5	11	0.021	0.020	0	0.061	0.018	0.01	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Selenium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	4	7	0.033	0.020	0	0.060	0.040	0.02	0.04
vanilla ice cream	286	18	6	11	0.018	0.014	0	0.043	0.021	0.01	0.04
fruit flavor sherbet	287	18	14	3	0.007	0.015	0	0.059	0	0.01	0.04
popsicle, any flavor	288	18	17	1	0.002	0.007	0	0.030	0	0.01	0.04
chocolate snack cake with chocolate icing	289	18	9	9	0.014	0.014	0	0.037	0.010	0.02	0.05
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	7	0.101	0.036	0.032	0.160	0.101	0.02	0.04
brownies, commercial	291	18	4	6	0.042	0.030	0	0.096	0.045	0.02	0.04
sugar cookies, commercial	292	18	4	8	0.037	0.025	0	0.073	0.035	0.02	0.04
suckers, any flavor	293	18	17	0	0.004	0.016	0	0.070	0	0.02	0.04
pretzels, hard, salted, any shape	294	18	5	4	0.036	0.027	0	0.094	0.043	0.02	0.04
chocolate syrup dessert topping	295	18	16	1	0.005	0.014	0	0.054	0	0.02	0.04
jelly, any flavor	296	18	17	1	0.001	0.006	0	0.025	0	0.02	0.04
sweet cucumber pickles	297	18	15	3	0.002	0.006	0	0.017	0	0.01	0.04
yellow mustard	298	18	0	0	0.321	0.095	0.185	0.644	0.308	0.01	0.04
black olives	299	18	18	0	0	0	0	0	0	0.01	0.04
sour cream	300	18	4	13	0.028	0.026	0	0.100	0.023	0.01	0.04
brown gravy, homemade	301	18	7	6	0.027	0.027	0	0.094	0.030	0.01	0.04
French salad dressing, regular	302	18	11	5	0.019	0.043	0	0.184	0	0.02	0.04
Italian salad dressing, low-calorie	303	18	18	0	0	0	0	0	0	0.02	0.04
olive/safflower oil	304	18	18	0	0	0	0	0	0	0.02	0.04
coffee, from ground	305	18	18	0	0	0	0	0	0	0.01	0.03
fruit-flavored carbonated beverage	306	18	18	0	0	0	0	0	0	0.01	0.03
fruit drink, canned	307	18	16	2	0.002	0.006	0	0.022	0	0.01	0.03
martini	308	18	18	0	0	0	0	0	0	0.004	0.013
soy-based infant formula, ready-to-feed	309	18	8	10	0.010	0.010	0	0.022	0.013	0.01	0.04
egg yolk, strained/junior	310	12	0	0	0.293	0.026	0.253	0.330	0.292	0.01	0.04
rice infant cereal, instant, prepared with whole milk	311	18	4	2	0.051	0.032	0	0.093	0.052	0.01	0.04
rice cereal, strained/junior	312	18	7	11	0.013	0.011	0	0.032	0.017	0.01	0.04
bananas with tapioca, strained/junior	313	18	18	0	0	0	0	0	0	0.01	0.04
beets, strained/junior	314	15	15	0	0	0	0	0	0	0.01	0.04
split peas with vegetables and ham/bacon	316	18	7	11	0.014	0.013	0	0.038	0.017	0.01	0.04
teething biscuits	317	18	0	0	0.198	0.059	0.109	0.356	0.194	0.01	0.04

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Copper - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		4671	1198	2255	1.2	7.6	0	224	0.5		
whole milk, fluid	1	18	18	0	0	0	0	0	0	0.25	0.9
lowfat (2% fat) milk, fluid	2	18	18	0	0	0	0	0	0	0.25	0.9
chocolate milk, fluid	3	18	4	14	0.3	0.2	0	0.7	0.3	0.25	0.9
skim milk, fluid	4	18	18	0	0	0	0	0	0	0.25	0.9
plain yogurt, lowfat	6	18	17	1	0.0	0.1	0	0.4	0	0.25	0.9
chocolate milk shake, fast-food	7	18	2	15	0.5	0.3	0	1.1	0.6	0.25	0.9
evaporated milk, canned	8	18	18	0	0	0	0	0	0	0.25	0.9
American, processed cheese	10	18	14	4	0.1	0.2	0	0.6	0	0.34	1.2
cottage cheese, 4% milkfat	11	18	18	0	0	0	0	0	0	0.34	1.2
cheddar cheese	12	18	7	11	0.3	0.2	0	0.7	0.4	0.34	1.2
ground beef, pan-cooked	13	18	0	17	0.8	0.1	0.7	1.0	0.8	0.25	0.9
beef chuck roast, baked	14	18	0	7	0.9	0.1	0.8	1.2	0.9	0.25	0.9
beef steak, loin, pan-cooked	16	18	0	4	1.0	0.2	0.8	1.4	1.0	0.25	0.9
ham, baked	17	18	1	16	0.6	0.2	0	1.0	0.6	0.25	0.9
pork chop, pan-cooked	18	18	0	13	0.9	0.2	0.7	1.2	0.8	0.25	0.9
pork sausage, pan-cooked	19	18	0	17	0.9	0.1	0.6	1.2	0.8	0.34	1.2
pork bacon, pan-cooked	20	18	0	13	1.2	0.5	0.8	2.8	1.0	0.34	1.2
pork roast, baked	21	18	0	18	0.8	0.2	0.5	1.1	0.8	0.34	1.2
lamb chop, pan-cooked	22	18	0	4	1.4	0.3	1.0	2.0	1.4	0.34	1.2
chicken, fried (breast, leg, and thigh) homemade	24	18	0	18	0.7	0.1	0.4	0.9	0.7	0.25	0.9
turkey breast, roasted	26	18	0	18	0.4	0.1	0.3	0.7	0.4	0.25	0.9
liver, beef, fried	27	18	0	0	111	50.8	47.7	224	98.0	0.25	0.9
frankfurters, beef, boiled	28	18	1	17	0.4	0.1	0	0.7	0.4	0.34	1.2
bologna, sliced	29	18	2	16	0.4	0.2	0	0.8	0.4	0.34	1.2
salami, sliced	30	18	0	18	0.9	0.2	0.4	1.1	0.9	0.34	1.2
tuna, canned in oil	32	18	1	17	0.5	0.1	0	0.7	0.5	0.29	1
fish sticks, frozen, heated	34	18	0	18	0.6	0.1	0.4	1.0	0.6	0.29	1
eggs, scrambled	35	18	1	17	0.5	0.1	0	0.7	0.5	0.25	0.9
eggs, fried	36	18	0	18	0.6	0.1	0.4	0.8	0.6	0.25	0.9
eggs, boiled	37	18	0	18	0.6	0.1	0.4	0.8	0.6	0.25	0.9
pinto beans, dry, boiled	38	18	0	0	2.3	0.2	2.0	2.7	2.3	0.25	0.9
pork and beans, canned	39	18	0	0	1.8	0.2	1.4	2.3	1.8	0.25	0.9
lima beans, immature, frozen, boiled	42	18	0	0	1.5	0.2	1.1	2.1	1.5	0.25	0.9
green peas, fresh/frozen, boiled	46	18	0	6	1.0	0.2	0.7	1.3	1.0	0.25	0.9
peanut butter, smooth	47	18	0	0	5.2	0.5	4.5	6.0	5.3	0.34	1.2
peanuts, dry roasted	48	18	0	0	5.8	0.7	4.9	8.1	5.8	0.34	1.2

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Copper - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	0	17	0.7	0.1	0.5	0.9	0.7	0.25	0.9
oatmeal, quick (1-3 min), cooked	51	18	0	18	0.7	0.1	0.4	0.9	0.7	0.25	0.9
wheat cereal, farina, quick (1-3min), cooked	52	18	9	8	0.23	0.3	0	1.4	0.1	0.25	0.9
corngrits, regular, cooked	53	18	17	1	0.0	0.1	0	0.3	0	0.25	0.9
corn, fresh/frozen, boiled	54	18	5	13	0.3	0.2	0	0.9	0.3	0.25	0.9
cream style corn, canned	56	18	14	4	0.1	0.2	0	0.8	0	0.25	0.9
popcorn, popped in oil	57	18	0	3	1.7	0.4	1.1	2.7	1.6	0.34	1.2
white bread	58	18	0	16	1.1	0.2	0.7	1.5	1.1	0.34	1.2
white roll	59	18	0	5	1.3	0.1	0.9	1.5	1.3	0.34	1.2
cornbread, homemade	60	18	0	18	0.6	0.1	0.4	0.7	0.6	0.25	0.9
biscuit, from refrigerated dough, baked	61	18	0	13	0.8	0.1	0.4	0.9	0.8	0.25	0.9
whole wheat bread	62	18	0	0	2.3	0.3	1.7	2.8	2.3	0.25	0.9
tortilla, flour	63	18	0	3	1.1	0.2	0.9	1.7	1.0	0.29	1
rye bread	64	18	0	0	1.5	0.2	1.0	1.8	1.6	0.25	0.9
blueberry muffin, commercial	65	18	0	16	0.7	0.2	0.5	1.1	0.6	0.25	0.9
saltine crackers	66	18	0	0	1.4	0.1	1.1	1.6	1.4	0.25	0.9
corn chips	67	18	0	3	1.0	0.2	0.8	1.4	1.0	0.25	0.9
pancake from mix	68	18	0	18	0.6	0.1	0.4	0.8	0.6	0.25	0.9
egg noodles, boiled	69	18	0	18	0.9	0.1	0.7	1.1	0.9	0.34	1.2
macaroni, boiled	70	18	0	10	0.9	0.1	0.8	1.1	0.9	0.25	0.9
corn flakes	71	18	0	18	0.5	0.1	0.4	0.7	0.5	0.25	0.9
fruit-flavored, sweetened cereal	72	18	0	3	1.0	0.1	0.8	1.4	1.0	0.25	0.9
shredded wheat cereal	73	18	0	0	3.8	0.6	2.5	5.3	3.8	0.25	0.9
raisin bran cereal	74	18	0	0	4.5	0.4	3.6	5.1	4.4	0.25	0.9
crisped rice cereal	75	18	0	0	2.0	0.3	1.5	2.4	2.0	0.25	0.9
granola cereal	76	18	0	0	3.1	0.4	2.5	3.9	3.0	0.25	0.9
oat ring cereal	77	18	0	0	3.3	0.4	2.7	4.3	3.3	0.25	0.9
apple, red, raw	78	18	5	13	0.25	0.2	0	0.6	0.3	0.25	0.9
orange, raw	79	18	0	18	0.4	0.1	0.3	0.6	0.4	0.2	0.7
banana, raw	80	18	0	0	1.1	0.2	0.8	1.4	1.1	0.2	0.7
watermelon, raw	81	18	1	17	0.3	0.1	0	0.6	0.4	0.2	0.7
peach, raw	83	18	0	11	0.7	0.2	0.4	1.1	0.6	0.2	0.7
applesauce, bottled	84	18	2	16	0.25	0.1	0	0.4	0.2	0.2	0.7
pear, raw	85	18	0	3	0.8	0.1	0.6	1.0	0.8	0.2	0.7
strawberries, raw	86	18	0	16	0.5	0.3	0.3	1.6	0.4	0.2	0.7
fruit cocktail, canned in heavy syrup	87	18	0	18	0.5	0.1	0.4	0.7	0.5	0.25	0.9
grapes, red/green, seedless, raw	88	18	0	6	1.1	0.6	0.4	2.3	0.8	0.2	0.7

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Copper - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	3	15	0.3	0.1	0	0.5	0.3	0.2	0.7
plums, raw	91	18	0	16	0.5	0.1	0.3	0.7	0.5	0.2	0.7
grapefruit, raw	92	18	1	17	0.3	0.1	0	0.5	0.4	0.2	0.7
pineapple, canned in juice	93	18	0	18	0.5	0.1	0.4	0.7	0.5	0.25	0.9
sweet cherries, raw	94	12	0	9	0.8	0.1	0.6	1.0	0.8	0.25	0.9
raisins, dried	95	18	0	0	3.4	0.5	2.5	4.3	3.4	0.34	1.2
prunes, dried	96	18	0	0	2.9	0.4	2.3	3.7	2.9	0.34	1.2
avocado, raw	97	18	0	1	2.2	0.7	0.7	3.5	2.3	0.34	1.2
orange juice, from frozen concentrate	98	18	1	17	0.3	0.1	0	0.5	0.3	0.2	0.7
apple juice, bottled	99	18	17	1	0.0	0.1	0	0.2	0	0.2	0.7
grapefruit juice, from frozen concentrate	100	18	1	17	0.3	0.1	0	0.5	0.3	0.2	0.7
prune juice, bottled	103	18	9	9	0.1	0.1	0	0.4	0.1	0.2	0.7
lemonade, from frozen concentrate	105	18	18	0	0	0	0	0	0.0	0.2	0.7
spinach, fresh/frozen, boiled	107	18	0	9	0.8	0.4	0.4	1.6	0.7	0.2	0.7
collards, fresh/frozen, boiled	108	18	1	14	0.5	0.5	0	1.9	0.4	0.2	0.7
iceberg lettuce, raw	109	18	7	11	0.23	0.2	0	0.6	0.2	0.2	0.7
cabbage, fresh, boiled	110	18	18	0	0	0	0	0	0	0.2	0.7
coleslaw with dressing, homemade	111	18	17	1	0.0	0.1	0	0.4	0	0.34	1.2
sauerkraut, canned	112	18	16	2	0.1	0.2	0	0.8	0	0.25	0.9
broccoli, fresh/frozen, boiled	113	18	7	11	0.2	0.2	0	0.4	0.3	0.25	0.9
celery, raw	114	18	15	3	0.0	0.1	0	0.3	0	0.25	0.9
asparagus, fresh/frozen, boiled	115	18	0	7	1.0	0.2	0.6	1.2	1.1	0.25	0.9
cauliflower, fresh/frozen, boiled	116	18	17	1	0.0	0.1	0	0.3	0	0.25	0.9
tomato, red, raw	117	18	1	17	0.5	0.2	0	0.8	0.5	0.25	0.9
tomato sauce, plain, bottled	119	18	0	4	1.2	0.3	0.7	1.8	1.2	0.25	0.9
green beans, fresh/frozen, boiled	121	18	1	16	0.5	0.3	0	1.6	0.5	0.25	0.9
cucumber, raw	123	18	7	11	0.2	0.2	0	0.4	0.3	0.25	0.9
summer squash, fresh/frozen, boiled	124	18	0	17	0.5	0.2	0.3	0.9	0.5	0.25	0.9
green pepper, raw	125	18	0	12	0.7	0.3	0.3	1.4	0.7	0.25	0.9
winter squash, fresh/frozen, baked, mashed	126	18	1	16	0.6	0.2	0	0.9	0.6	0.25	0.9
onion, mature, raw	128	18	0	18	0.4	0.1	0.3	0.5	0.3	0.25	0.9
radish, raw	132	18	17	1	0.0	0.1	0	0.3	0	0.25	0.9
French fries, frozen, heated	134	18	0	6	1.1	0.2	0.8	1.6	1.0	0.29	1
mashed potatoes, from flakes	135	18	3	15	0.3	0.2	0	0.6	0.4	0.29	1
white potato, boiled without skin	136	18	0	15	0.6	0.3	0.3	1.4	0.5	0.23	0.8
white potato, baked with skin	137	18	0	7	1.0	0.4	0.5	1.8	0.9	0.23	0.8
potato chips	138	18	0	0	2.8	0.9	1.2	4.8	2.6	0.29	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Copper - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	1	17	0.5	0.2	0	0.9	0.5	0.29	1
sweet potato, fresh, baked	140	18	0	1	1.3	0.3	0.8	1.9	1.3	0.23	0.8
spaghetti with tomato sauce and meatballs, homemade	142	18	0	6	1.0	0.1	0.6	1.2	1.0	0.25	0.9
beef stew with potatoes, carrots, and onion, homemade	143	18	0	16	0.7	0.1	0.5	1.1	0.7	0.25	0.9
macaroni and cheese, from box mix	146	18	0	18	0.6	0.1	0.3	0.9	0.6	0.29	1
quarter-pound hamburger on bun, fast-food	147	18	0	6	0.9	0.1	0.6	1.0	0.9	0.25	0.9
meatloaf, homemade	148	18	0	17	0.7	0.1	0.4	0.9	0.7	0.25	0.9
spaghetti with tomato sauce, canned	149	18	0	17	0.6	0.2	0.4	1.2	0.6	0.25	0.9
lasagna with meat, homemade	151	18	0	7	0.9	0.1	0.8	1.2	1.0	0.25	0.9
chicken potpie, frozen, heated	152	18	0	17	0.5	0.1	0.3	0.9	0.5	0.23	0.8
chicken noodle soup, canned, condensed, prepared with water	155	18	16	2	0.1	0.2	0	0.7	0	0.23	0.8
tomato soup, canned, condensed, prepared with water	156	18	0	18	0.4	0.1	0.3	0.6	0.4	0.23	0.8
vegetable beef soup, canned, condensed, prepared with water	157	18	10	8	0.2	0.2	0	0.5	0	0.25	0.9
white sauce, homemade	160	18	14	4	0.1	0.1	0	0.3	0	0.19	0.7
dill cucumber pickles	161	18	3	14	0.3	0.2	0	0.9	0.4	0.25	0.9
margarine, stick, regular (salted)	162	18	18	0	0	0	0	0	0	0.29	1
butter, regular (salted)	164	18	18	0	0	0	0	0	0	0.29	1
mayonnaise, regular, bottled	166	18	18	0	0	0	0	0	0	0.34	1.2
half & half cream	167	18	18	0	0	0	0	0	0	0.25	0.9
cream substitute, frozen	168	18	18	0	0	0	0	0	0	0.25	0.9
white sugar, granulated	169	18	18	0	0	0	0	0	0	0.29	1
pancake syrup	170	18	18	0	0	0	0	0	0	0.29	1
honey	172	18	18	0	0	0	0	0	0	0.29	1
tomato catsup	173	18	0	0	1.5	0.4	1.0	2.5	1.5	0.23	0.8
chocolate pudding, from instant mix	175	18	0	17	0.7	0.1	0.3	1.0	0.7	0.25	0.9
vanilla flavored light ice cream	177	18	18	0	0	0	0	0	0	0.25	0.9
chocolate cake with chocolate icing, commercial	178	18	0	0	2.1	0.4	1.5	3.1	2.1	0.34	1.2
yellow cake with white icing, prepared from cake and icing mixes	179	18	12	6	0.1	0.2	0	0.5	0	0.29	1
sweet roll/Danish, commercial	182	18	0	17	0.8	0.2	0.6	1.3	0.8	0.34	1.2
chocolate chip cookies, commercial	183	18	0	0	2.6	0.5	1.7	3.3	2.7	0.29	1
sandwich cookies with creme filling, commercial	184	18	0	5	1.6	0.8	0.6	3.6	1.5	0.29	1



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Copper - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	18	0.4	0.1	0.3	0.6	0.4	0.29	1
pumpkin pie, fresh/frozen, commercial	186	18	0	18	0.5	0.1	0.4	0.6	0.5	0.29	1
milk chocolate candy bar, plain	187	18	0	0	4.1	0.5	3.2	5.3	4.0	0.29	1
caramel candy	188	18	16	2	0.0	0.1	0	0.4	0	0.29	1
gelatin dessert, any flavor	190	18	18	0	0	0	0	0	0	0.25	0.9
cola carbonated beverage	191	18	18	0	0	0	0	0	0	0.23	0.8
fruit drink, from powder	193	18	18	0	0	0	0	0	0	0.2	0.7
low-calorie cola carbonated beverage	194	18	18	0	0	0	0	0	0	0.2	0.7
coffee, decaffeinated, from instant	196	18	18	0	0	0	0	0	0	0.1	0.4
tea, from tea bag	197	18	18	0	0	0	0	0	0	0.1	0.4
beer	198	18	18	0	0	0	0	0	0	0.17	0.6
dry table wine	199	18	15	3	0.0	0.1	0	0.2	0	0.15	0.5
whiskey	200	18	13	5	0.1	0.1	0	0.3	0	0.12	0.4
tap water	201	18	7	7	0.2	0.3	0	1.1	0.1	0.05	0.2
milk-based infant formula, high iron, ready-to-feed	202	18	0	17	0.7	0.1	0.5	1.0	0.7	0.25	0.9
milk-based infant formula, low iron, ready-to-feed	203	18	0	16	0.7	0.1	0.4	1.0	0.6	0.25	0.9
beef, strained/junior	205	18	0	18	0.4	0.1	0.3	0.6	0.4	0.25	0.9
chicken, strained/junior	207	18	0	18	0.4	0.1	0.3	0.5	0.4	0.25	0.9
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	2	0.5	0.1	0.4	0.5	0.5	0.25	0.9
beef with vegetables, high/lean meat, strained/junior	209	2	0	2	0.5	0.1	0.4	0.5	0.5	0.25	0.9
ham with vegetables, high/lean meat, strained/junior	210	2	0	2	0.6	0.0	0.6	0.7	0.6	0.25	0.9
vegetables and beef, strained/junior	211	18	2	16	0.3	0.1	0	0.5	0.4	0.25	0.9
vegetables and chicken, strained/junior	212	18	2	16	0.3	0.1	0	0.5	0.4	0.25	0.9
vegetables and ham, strained/junior	213	18	1	17	0.4	0.1	0	0.5	0.4	0.25	0.9
chicken noodle dinner, strained/junior	214	18	3	15	0.3	0.2	0	0.7	0.3	0.25	0.9
macaroni, tomatoes, and beef, strained/junior	215	18	0	18	0.5	0.1	0.3	0.8	0.5	0.25	0.9
turkey and rice, strained/junior	216	18	3	15	0.3	0.2	0	0.5	0.4	0.25	0.9
carrots, strained/junior	218	18	4	14	0.3	0.2	0	0.6	0.4	0.25	0.9
green beans, strained/junior	219	18	1	17	0.4	0.1	0	0.7	0.4	0.25	0.9
mixed vegetables, strained/junior	220	18	2	16	0.4	0.2	0	0.6	0.4	0.25	0.9
sweet potatoes, strained/junior	221	18	0	10	0.9	0.2	0.7	1.4	0.9	0.25	0.9

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Copper - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	15	3	0.0	0.1	0	0.3	0	0.25	0.9
peas, strained/junior	223	18	0	8	0.9	0.1	0.6	1.0	0.9	0.25	0.9
creamed spinach, strained/junior	224	18	0	18	0.5	0.1	0.3	0.9	0.5	0.25	0.9
applesauce, strained/junior	225	18	4	14	0.3	0.2	0	0.8	0.3	0.25	0.9
peaches, strained/junior	226	18	0	18	0.5	0.1	0.3	0.7	0.5	0.25	0.9
pears, strained/junior	227	18	0	18	0.8	0.1	0.6	0.9	0.8	0.25	0.9
apple juice, strained	230	18	17	1	0.0	0.2	0	0.7	0	0.25	0.9
orange juice, strained	231	18	0	18	0.4	0.0	0.3	0.5	0.4	0.25	0.9
custard pudding, strained/junior	232	18	18	0	0	0	0	0	0	0.25	0.9
fruit dessert/pudding, strained/junior	233	18	4	14	0.23	0.1	0	0.3	0.3	0.25	0.9
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	18	0	0	0	0	0	0	0.25	0.9
Swiss cheese	236	18	4	12	0.4	0.4	0	1.8	0.4	0.34	1.2
cream cheese	237	18	18	0	0	0	0	0	0	0.34	1.2
veal cutlet, pan-cooked	238	18	1	4	0.9	0.3	0	1.5	1.0	0.25	0.9
ham luncheon meat, sliced	239	18	1	17	0.5	0.2	0	0.7	0.5	0.25	0.9
chicken breast, roasted	240	18	1	17	0.3	0.1	0	0.5	0.3	0.25	0.9
chicken nuggets, fast-food	241	18	1	16	0.5	0.2	0	0.9	0.6	0.25	0.9
chicken, fried (breast, leg, and thigh), fast-food	242	18	1	17	0.5	0.2	0	0.7	0.6	0.25	0.9
haddock, pan-cooked	243	18	14	4	0.1	0.1	0	0.3	0	0.29	1
shrimp, boiled	244	18	0	1	2.3	0.7	0.9	3.5	2.4	0.29	1
kidney beans, dry, boiled	245	18	0	0	2.6	0.3	2.0	3.1	2.6	0.25	0.9
peas, mature, dry, boiled	246	18	0	0	2.3	0.3	1.8	2.9	2.2	0.25	0.9
mixed nuts, no peanuts, dry roasted	247	18	0	0	15.5	3.0	9.0	24.7	15.5	0.34	1.2
cracked wheat bread	248	17	0	0	1.8	0.2	1.4	2.1	1.8	0.25	0.9
bagel, plain	249	17	0	5	1.3	0.2	0.9	1.5	1.3	0.34	1.2
English muffin, plain, toasted	250	17	0	1	1.2	0.2	0.9	1.5	1.2	0.29	1
graham crackers	251	17	0	0	1.5	0.3	1.0	2.1	1.4	0.25	0.9
butter-type crackers	252	17	0	1	1.0	0.1	0.9	1.2	1.1	0.25	0.9
apricot, raw	253	13	0	8	0.9	0.3	0.5	1.7	0.8	0.25	0.9
peach, canned in light/medium syrup	254	18	2	16	0.3	0.2	0	0.7	0.3	0.25	0.9
pear, canned in light syrup	255	18	1	17	0.4	0.1	0	0.6	0.4	0.25	0.9
pineapple juice, from frozen concentrate	256	18	1	16	0.4	0.1	0	0.7	0.4	0.2	0.7
grape juice, from frozen concentrate	257	18	17	1	0.0	0.1	0	0.2	0	0.2	0.7
French fries, fast-food	258	17	0	0	1.4	0.3	1.1	2.1	1.4	0.29	1
carrot, fresh, boiled	259	18	3	15	0.4	0.2	0	0.6	0.4	0.25	0.9

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Copper - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	1	17	0.7	0.2	0	0.8	0.7	0.25	0.9
tomato juice, bottled	261	18	1	17	0.6	0.2	0	0.8	0.6	0.25	0.9
beets, fresh/frozen, boiled	262	18	1	15	0.7	0.2	0	0.9	0.7	0.25	0.9
Brussels sprouts, fresh/frozen, boiled	263	18	1	17	0.3	0.1	0	0.5	0.3	0.25	0.9
mushrooms, raw	264	18	0	0	2.2	0.5	1.4	3.1	2.1	0.25	0.9
eggplant, fresh, boiled	265	18	2	16	0.4	0.2	0	0.7	0.5	0.25	0.9
turnip, fresh/frozen, boiled	266	18	17	2	0.0	0.1	0	0.3	0	0.25	0.9
okra, fresh/frozen, boiled	267	18	0	13	0.9	0.4	0.4	2.1	0.8	0.25	0.9
mixed vegetables, frozen, boiled	268	18	1	17	0.6	0.2	0	0.8	0.6	0.25	0.9
beef stroganoff, homemade	269	17	0	0	1.2	0.1	1.0	1.4	1.2	0.25	0.9
green peppers stuffed with beef and rice, homemade	270	18	1	15	0.7	0.2	0	1.0	0.7	0.25	0.9
chili con carne with beans, homemade	271	17	0	0	1.4	0.2	1.1	1.6	1.3	0.25	0.9
tuna noodle casserole, homemade	272	17	0	17	0.5	0.1	0.3	0.8	0.4	0.29	1
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	17	0	16	0.7	0.1	0.5	1.1	0.7	0.25	0.9
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	17	0	17	0.5	0.1	0.4	0.8	0.5	0.25	0.9
quarter-pound cheeseburger on bun, fast-food	275	17	0	15	0.8	0.1	0.7	1.1	0.8	0.25	0.9
fish sandwich on bun, fast-food	276	18	0	18	0.6	0.1	0.5	0.8	0.6	0.29	1
frankfurter on bun, fast-food	277	18	0	18	0.8	0.1	0.6	1.1	0.8	0.34	1.2
egg, cheese, and ham on English muffin, fast-food	278	18	0	14	0.8	0.1	0.7	1.0	0.8	0.25	0.9
taco/tostada, from Mexican carry-out	279	18	0	11	1.1	0.8	0.7	4.3	0.8	0.25	0.9
cheese pizza, regular crust, from pizza carry-out	280	18	0	3	1.1	0.1	0.9	1.4	1.1	0.29	1
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	4	1.1	0.1	0.9	1.4	1.1	0.29	1
beef chow mein, from Chinese carry-out	282	17	0	17	0.6	0.2	0.3	0.8	0.5	0.25	0.9
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	1.2	0.2	0.9	1.5	1.2	0.25	0.9
mushroom soup, canned, condensed, prepared with whole milk	284	18	15	3	0.1	0.1	0	0.5	0	0.25	0.9

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Copper - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	13	5	0.1	0.2	0	0.4	0	0.29	1
vanilla ice cream	286	18	16	1	0.1	0.3	0	1.2	0	0.25	0.9
fruit flavor sherbet	287	18	17	1	0.0	0.1	0	0.3	0	0.25	0.9
popsicle, any flavor	288	18	18	0	0	0	0	0	0	0.25	0.9
chocolate snack cake with chocolate icing	289	18	0	0	2.6	0.6	1.5	3.6	2.4	0.34	1.2
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	14	0.9	0.2	0.6	1.5	0.9	0.29	1
brownies, commercial	291	18	0	0	2.7	0.4	2.0	3.4	2.7	0.29	1
sugar cookies, commercial	292	18	0	17	0.7	0.2	0.6	1.2	0.7	0.29	1
suckers, any flavor	293	18	2	14	0.6	0.4	0	1.9	0.6	0.29	1
pretzels, hard, salted, any shape	294	18	0	0	1.6	0.2	1.1	2.0	1.6	0.29	1
chocolate syrup dessert topping	295	18	0	0	3.5	0.4	2.9	4.3	3.5	0.29	1
jelly, any flavor	296	18	16	2	0.0	0.1	0	0.5	0	0.29	1
sweet cucumber pickles	297	18	2	16	0.3	0.1	0	0.6	0.4	0.25	0.9
yellow mustard	298	18	0	12	0.9	0.1	0.7	1.2	0.8	0.25	0.9
black olives	299	18	0	3	1.4	0.4	0.6	2.0	1.5	0.25	0.9
sour cream	300	18	18	0	0	0	0	0	0	0.25	0.9
brown gravy, homemade	301	18	3	15	0.3	0.2	0	0.6	0.3	0.25	0.9
French salad dressing, regular	302	18	16	2	0.0	0.1	0	0.4	0	0.29	1
Italian salad dressing, low-calorie	303	18	18	0	0	0	0	0	0	0.29	1
olive/safflower oil	304	18	18	0	0	0	0	0	0	0.29	1
coffee, from ground	305	18	18	0	0	0	0	0	0	0.2	0.7
fruit-flavored carbonated beverage	306	18	18	0	0	0	0	0	0	0.2	0.7
fruit drink, canned	307	18	18	0	0	0	0	0	0	0.2	0.7
martini	308	18	13	4	0.1	0.2	0	0.7	0	0.1	0.4
soy-based infant formula, ready-to-feed	309	18	0	11	0.9	0.2	0.6	1.3	0.9	0.25	0.9
egg yolk, strained/junior	310	12	0	11	0.8	0.1	0.7	1.0	0.8	0.25	0.9
rice infant cereal, instant, prepared with whole milk	311	18	0	18	0.5	0.1	0.3	0.8	0.5	0.25	0.9
rice cereal, strained/junior	312	18	8	10	0.2	0.2	0	0.4	0.3	0.25	0.9
bananas with tapioca, strained/junior	313	18	1	17	0.4	0.1	0	0.6	0.4	0.25	0.9
beets, strained/junior	314	15	0	15	0.6	0.1	0.4	0.7	0.6	0.25	0.9
split peas with vegetables and ham/bacon	316	18	0	18	0.4	0.1	0.3	0.7	0.4	0.25	0.9
teething biscuits	317	18	0	0	1.4	0.6	0.9	3.0	1.2	0.25	0.9

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Zinc - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4683</b>	<b>363</b>	<b>700</b>	<b>9.4</b>	<b>18.4</b>	<b>0</b>	<b>226</b>	<b>3.8</b>		
whole milk, fluid	1	18	0	0	3.6	0.5	2.5	4.1	3.8	0.3	0.9
lowfat (2% fat) milk, fluid	2	18	0	0	4.0	0.4	3.0	4.9	4.0	0.3	0.9
chocolate milk, fluid	3	18	0	0	4.0	0.8	2.7	6.1	4.0	0.3	1
skim milk, fluid	4	18	0	0	3.8	1.0	1.6	6.1	4.0	0.3	1
plain yogurt, lowfat	6	18	0	0	5.6	0.6	4.6	6.9	5.6	0.3	1
chocolate milk shake, fast-food	7	18	0	0	4.7	0.6	3.3	5.8	4.7	0.3	1
evaporated milk, canned	8	18	0	0	7.3	0.8	5.3	8.9	7.1	0.3	1
American, processed cheese	10	18	0	0	28.0	2.8	23.4	33.2	27.4	0.4	2
cottage cheese, 4% milkfat	11	18	0	0	3.8	0.6	2.8	5.2	3.7	0.4	2
cheddar cheese	12	18	0	0	35.5	4.7	18.5	40.6	36.5	0.4	2
ground beef, pan-cooked	13	18	0	0	59.4	6.4	48.8	71.3	59.2	0.3	1
beef chuck roast, baked	14	18	0	0	79.6	11.3	56.7	103	82.5	0.3	1
beef steak, loin, pan-cooked	16	18	0	0	56.1	7.8	39.7	68.4	55.8	0.3	1
ham, baked	17	18	0	0	22.0	4.1	13.8	29.3	22.2	0.3	1
pork chop, pan-cooked	18	18	0	0	28.3	4.0	22.0	36.6	28.2	0.3	1
pork sausage, pan-cooked	19	18	0	0	28.2	3.0	23.5	33.5	28.1	0.4	2
pork bacon, pan-cooked	20	18	0	0	27.1	4.1	20.6	36.0	26.8	0.4	2
pork roast, baked	21	18	0	0	29.6	5.3	23.0	39.7	29.7	0.4	2
lamb chop, pan-cooked	22	18	0	0	53.9	13.1	33.0	86.0	58.1	0.4	2
chicken (breast, leg, and thigh) homemade	24	18	0	0	18.7	2.2	14.1	22.1	18.9	0.3	1
turkey breast, roasted	26	18	0	0	14.0	1.8	11.4	18.1	13.7	0.3	1
liver, beef, fried	27	18	0	0	54.0	16.7	33.5	103	48.9	0.3	1
frankfurters, beef, boiled	28	18	0	0	23.0	2.1	18.5	26.9	23.1	0.4	2
bologna, sliced	29	18	0	0	14.2	2.9	9.9	19.7	14.1	0.4	2
salami, sliced	30	18	0	0	21.2	5.0	13.4	32.5	19.5	0.4	2
tuna, canned in oil	32	18	0	0	6.3	1.7	3.4	10.7	6.4	0.3	1
fish sticks, frozen, heated	34	18	0	0	4.3	0.9	2.0	5.8	4.2	0.3	1
eggs, scrambled	35	18	0	0	10.9	1.2	8.6	13.0	10.8	0.3	1
eggs, fried	36	18	0	0	12.9	1.0	11.3	14.9	13.0	0.3	1
eggs, boiled	37	18	0	0	13.2	1.5	11.6	16.5	12.7	0.3	1
pinto beans, dry, boiled	38	18	0	0	9.2	0.7	7.6	10.6	9.2	0.3	1
pork and beans, canned	39	18	0	0	7.6	1.9	4.6	10.8	7.7	0.3	1
lima beans, immature, frozen, boiled	42	18	0	0	6.2	0.6	5.4	7.5	6.2	0.3	1
green peas, fresh/frozen, boiled	46	18	0	0	6.1	1.5	2.8	7.8	6.2	0.3	1
peanut butter, smooth	47	18	0	0	27.1	1.9	22.6	30.7	27.0	0.4	2
peanuts, dry roasted	48	18	0	0	29.5	1.8	26.3	32.1	29.8	0.4	2

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Zinc - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	0	0	4.8	1.0	3.0	6.1	5.1	0.3	1
oatmeal, quick (1-3 min), cooked	51	18	0	0	5.2	1.0	3.3	7.6	5.1	0.3	1
wheat cereal, farina, quick (1-3min), cooked	52	18	0	3	1.9	1.1	0.7	5.0	1.7	0.3	1
corngrits, regular, cooked	53	18	0	5	1.2	0.4	0.6	2.5	1.2	0.3	1
corn, fresh/frozen, boiled	54	18	0	0	3.9	0.7	2.6	5.5	3.9	0.3	1
cream style corn, canned	56	18	0	0	2.8	0.6	2.2	4.4	2.6	0.3	1
popcorn, popped in oil	57	18	0	0	21.4	4.2	14.2	28.4	21.8	0.4	2
white bread	58	18	0	0	6.2	1.0	3.5	8.1	6.2	0.4	2
white roll	59	18	0	0	8.1	1.0	5.8	9.4	8.0	0.4	2
cornbread, homemade	60	18	0	0	6.0	0.9	4.7	7.9	5.9	0.3	1
biscuit, from refrigerated dough, baked	61	18	0	0	4.0	0.7	2.2	5.1	4.1	0.3	1
whole wheat bread	62	18	0	0	16.3	2.7	12.1	20.8	16.2	0.3	1
tortilla, flour	63	18	0	0	5.4	1.6	3.7	10.9	5.0	0.3	1
rye bread	64	18	0	0	9.6	1.0	6.8	11.0	9.7	0.3	1
blueberry muffin, commercial	65	18	0	0	4.1	0.6	2.9	5.0	4.0	0.3	1
saltine crackers	66	18	0	0	6.8	0.7	5.6	7.9	6.8	0.3	1
corn chips	67	18	0	0	13.9	1.6	11.5	17.8	13.7	0.3	1
pancake from mix	68	18	0	0	6.1	1.0	3.6	8.0	6.1	0.3	1
egg noodles, boiled	69	18	0	0	5.6	0.8	4.3	7.4	5.4	0.4	2
macaroni, boiled	70	18	0	0	4.3	0.4	3.6	4.9	4.2	0.3	1
corn flakes	71	18	0	0	8.1	12.6	1.2	48.3	1.8	0.3	1
fruit-flavored, sweetened cereal	72	18	0	0	140	40.0	41.2	211	147	0.3	1
shredded wheat cereal	73	18	0	0	28.1	5.5	22.3	43.4	27.0	0.3	1
raisin bran cereal	74	18	0	0	103	26.0	48.6	156	104	0.3	1
crisped rice cereal	75	18	0	0	17.9	11.2	9.1	47.4	12.8	0.3	1
granola cereal	76	18	0	0	96.5	42.0	36.0	191	91.1	0.3	1
oat ring cereal	77	18	0	0	122	55.8	25.7	226	134	0.3	1
apple, red, raw	78	18	14	4	0.1	0.2	0.0	0.8	0.0	0.3	1
orange, raw	79	18	0	17	0.6	0.1	0.4	1.0	0.5	0.2	1
banana, raw	80	18	0	0	1.6	0.1	1.4	1.9	1.6	0.2	1
watermelon, raw	81	18	0	17	0.7	0.2	0.3	1.0	0.7	0.2	1
peach, raw	83	18	0	6	1.7	1.4	0.7	5.2	1.1	0.2	1
applesauce, bottled	84	18	12	6	0.1	0.2	0.0	0.6	0.0	0.2	1
pear, raw	85	18	0	10	0.9	0.2	0.6	1.3	0.9	0.2	1
strawberries, raw	86	18	0	8	1.0	0.2	0.7	1.4	1.0	0.2	1
fruit cocktail, canned in heavy syrup	87	18	0	17	0.5	0.1	0.4	1.0	0.5	0.3	1
grapes, red/green, seedless, raw	88	18	0	17	0.5	0.2	0.3	1.1	0.5	0.2	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Zinc - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	0	3	1.4	0.3	0.8	1.9	1.4	0.2	1
plums, raw	91	18	0	15	0.8	0.2	0.5	1.2	0.8	0.2	1
grapefruit, raw	92	18	0	18	0.5	0.1	0.3	0.8	0.5	0.2	1
pineapple, canned in juice	93	18	0	16	0.8	0.1	0.6	1.1	0.8	0.3	1
sweet cherries, raw	94	12	0	12	0.6	0.1	0.4	0.7	0.6	0.3	1
raisins, dried	95	18	0	6	2.1	0.4	1.5	3.1	2.1	0.4	2
prunes, dried	96	18	0	0	4.3	0.5	3.3	5.3	4.3	0.4	2
avocado, raw	97	18	0	0	6.1	1.5	4.0	8.8	6.2	0.4	2
orange juice, from frozen concentrate	98	18	2	16	0.3	0.1	0.0	0.6	0.3	0.2	1
apple juice, bottled	99	18	7	11	0.2	0.1	0.0	0.4	0.2	0.2	1
grapefruit juice, from frozen concentrate	100	18	0	18	0.4	0.1	0.2	0.5	0.4	0.2	1
prune juice, bottled	103	18	0	0	2.0	2.2	1.1	10.7	1.4	0.2	1
lemonade, from frozen concentrate	105	18	16	2	0.0	0.1	0.0	0.2	0.0	0.2	1
spinach, fresh/frozen, boiled	107	18	0	0	4.2	1.1	2.6	6.6	3.9	0.2	1
collards, fresh/frozen, boiled	108	18	0	1	2.2	0.8	1.0	4.5	2.0	0.2	1
iceberg lettuce, raw	109	18	0	3	1.3	0.4	0.6	2.2	1.4	0.2	1
cabbage, fresh, boiled	110	18	0	13	0.9	0.3	0.4	1.7	0.8	0.2	1
coleslaw with dressing, homemade	111	18	0	17	1.5	0.3	0.9	2.3	1.4	0.4	2
sauerkraut, canned	112	18	0	9	1.1	0.3	0.5	1.9	1.0	0.3	1
broccoli, fresh/frozen, boiled	113	18	0	0	1.8	0.3	1.2	2.4	1.8	0.3	1
celery, raw	114	18	0	16	0.8	0.2	0.4	1.2	0.8	0.3	1
asparagus, fresh/frozen, boiled	115	18	0	0	3.8	0.7	2.7	5.2	3.8	0.3	1
cauliflower, fresh/frozen, boiled	116	18	0	0	1.5	0.2	1.1	2.1	1.5	0.3	1
tomato, red, raw	117	18	0	4	1.3	0.3	0.6	1.9	1.2	0.3	1
tomato sauce, plain, bottled	119	18	0	0	1.7	0.3	1.1	2.4	1.7	0.3	1
green beans, fresh/frozen, boiled	121	18	0	0	2.1	0.4	1.5	2.8	2.0	0.3	1
cucumber, raw	123	18	0	5	1.1	0.2	0.7	1.6	1.1	0.3	1
summer squash, fresh/frozen, boiled	124	18	0	0	1.8	0.4	1.3	2.9	1.8	0.3	1
green pepper, raw	125	18	0	5	1.2	0.3	0.7	1.9	1.2	0.3	1
winter squash, fresh/frozen, baked, mashed	126	18	1	0	2.1	0.7	0	3.4	2.3	0.3	1
onion, mature, raw	128	18	0	4	1.5	0.5	0.7	2.2	1.5	0.3	1
radish, raw	132	18	0	7	1.1	0.3	0.7	1.9	1.1	0.3	1
French fries, frozen, heated	134	18	0	0	3.2	0.4	2.6	4.1	3.1	0.3	1
mashed potatoes, from flakes	135	18	0	0	2.1	0.3	1.7	2.7	2.2	0.3	1
white potato, boiled without skin	136	18	0	0	2.1	0.5	1.4	3.2	1.9	0.3	1
white potato, baked with skin	137	18	0	0	3.2	0.8	1.9	5.5	3.1	0.3	1
potato chips	138	18	0	0	9.7	1.7	6.5	12.7	9.2	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Zinc - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	0	3.5	0.4	2.9	4.2	3.4	0.3	1
sweet potato, fresh, baked	140	18	0	0	2.7	0.4	1.8	3.3	2.8	0.3	1
spaghetti with tomato sauce and meatballs, homemade	142	18	0	0	8.4	1.4	6.2	10.5	8.5	0.3	1
beef stew with potatoes, carrots, and onion, homemade	143	18	0	0	22.8	6.5	10.1	38.2	22.5	0.3	1
macaroni and cheese, from box mix	146	18	0	0	5.4	1.3	2.9	7.7	5.2	0.3	1
quarter-pound hamburger on bun, fast-food	147	18	0	0	27.5	4.0	21.5	34.5	26.9	0.3	1
meatloaf, homemade	148	18	0	0	45.1	6.6	30.4	52.0	47.3	0.3	1
spaghetti with tomato sauce, canned	149	18	0	0	3.1	1.8	2.0	9.9	2.5	0.3	1
lasagna with meat, homemade	151	18	0	0	15.3	2.0	11.2	18.7	15.9	0.3	1
chicken potpie, frozen, heated	152	18	0	0	4.5	1.0	3.3	7.1	4.2	0.3	1
chicken noodle soup, canned, condensed, prepared with water	155	18	0	7	1.1	0.3	0.4	1.7	1.1	0.3	1
tomato soup, canned, condensed, prepared with water	156	18	0	10	1.0	0.2	0.7	1.4	0.9	0.3	1
vegetable beef soup, canned, condensed, prepared with water	157	18	0	0	3.4	0.6	2.6	4.9	3.6	0.3	1
white sauce, homemade	160	18	0	0	3.7	0.5	2.9	4.7	3.8	0.2	1
dill cucumber pickles	161	18	1	10	0.8	0.3	0	1.3	0.9	0.3	1
margarine, stick, regular (salted)	162	18	8	10	0.3	0.3	0	0.8	0.3	0.3	1
butter, regular (salted)	164	18	0	14	0.9	0.5	0.5	2.6	0.7	0.3	1
mayonnaise, regular, bottled	166	18	0	13	1.9	0.4	1.4	3.0	1.8	0.4	2
half & half cream	167	18	0	0	3.1	0.4	2.2	3.6	3.3	0.3	1
cream substitute, frozen	168	18	14	4	0.1	0.2	0	0.5	0	0.3	1
white sugar, granulated	169	18	17	1	0.0	0.1	0	0.4	0	0.3	1
pancake syrup	170	18	5	7	0.8	0.7	0	2.1	0.7	0.3	1
honey	172	18	0	10	1.1	0.6	0.6	2.9	0.9	0.3	1
tomato catsup	173	18	0	0	1.9	0.3	1.5	3.0	1.9	0.3	1
chocolate pudding, from instant mix	175	18	0	0	4.3	0.6	2.5	5.2	4.3	0.3	1
vanilla flavored light ice cream	177	18	0	0	3.9	0.7	2.7	5.3	3.9	0.3	1
chocolate cake with chocolate icing, commercial	178	18	0	0	5.4	0.7	3.9	7.0	5.3	0.4	2
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	0	2.2	0.6	1.2	3.5	2.2	0.3	1
sweet roll/Danish, commercial	182	18	0	0	6.0	0.9	4.8	8.2	5.8	0.4	2
chocolate chip cookies, commercial	183	18	0	0	6.9	0.8	5.4	8.7	6.8	0.3	1
sandwich cookies with creme filling, commercial	184	18	0	0	4.9	1.3	2.7	7.6	4.7	0.3	1



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Zinc - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	0	1.7	0.3	1.2	2.2	1.6	0.3	1
pumpkin pie, fresh/frozen, commercial	186	18	0	0	4.4	0.5	3.6	5.4	4.4	0.3	1
milk chocolate candy bar, plain	187	18	0	0	13.4	0.9	11.6	14.9	13.5	0.3	1
caramel candy	188	18	0	0	4.3	1.2	2.0	6.5	4.3	0.3	1
gelatin dessert, any flavor	190	18	18	0	0	0	0	0	0	0.3	1
cola carbonated beverage	191	18	17	1	0.0	0.1	0	0.3	0	0.3	1
fruit drink, from powder	193	18	18	0	0	0	0	0	0	0.2	1
low-calorie cola carbonated beverage	194	18	16	2	0.0	0.1	0	0.3	0	0.2	1
coffee, decaffeinated, from instant	196	18	15	3	0.0	0.0	0	0.1	0	0.1	0.4
tea, from tea bag	197	18	5	12	0.1	0.1	0	0.4	0.1	0.1	0.4
beer	198	18	16	2	0.0	0.1	0	0.3	0	0.2	1
dry table wine	199	18	1	7	0.5	0.2	0	1.0	0.5	0.15	0.5
whiskey	200	18	18	0	0	0	0	0	0	0.12	0.4
tap water	201	18	11	4	0.1	0.2	0	0.6	0	0.05	0.2
milk-based infant formula, high iron, ready-to-feed	202	18	0	0	6.9	0.6	5.7	8.4	6.8	0.3	1
milk-based infant formula, low iron, ready-to-feed	203	18	0	0	7.1	1.2	4.8	9.4	6.9	0.3	1
beef, strained/junior	205	18	0	0	31.2	3.8	19.7	36.4	31.0	0.3	1
chicken, strained/junior	207	18	0	0	12.5	1.6	9.6	14.9	12.5	0.3	1
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	0	6.5	0.1	6.4	6.6	6.5	0.3	1
beef with vegetables, high/lean meat, strained/junior	209	2	0	0	13.3	1.0	12.6	14.0	13.3	0.3	1
ham with vegetables, high/lean meat, strained/junior	210	2	0	0	10.3	0.6	9.9	10.7	10.3	0.3	1
vegetables and beef, strained/junior	211	18	0	0	4.1	0.9	2.3	5.2	4.3	0.3	1
vegetables and chicken, strained/junior	212	18	0	0	3.1	0.5	1.9	4.1	3.1	0.3	1
vegetables and ham, strained/junior	213	18	0	0	2.6	0.4	2.0	3.4	2.5	0.3	1
chicken noodle dinner, strained/junior	214	18	0	0	3.5	0.5	2.7	4.6	3.4	0.3	1
macaroni, tomatoes, and beef, strained/junior	215	18	0	0	3.8	0.4	3.0	4.7	3.8	0.3	1
turkey and rice, strained/junior	216	18	0	0	4.5	1.0	3.0	6.3	4.3	0.3	1
carrots, strained/junior	218	18	0	1	1.7	0.4	0.7	2.5	1.7	0.3	1
green beans, strained/junior	219	18	0	0	2.2	0.4	1.4	3.0	2.3	0.3	1
mixed vegetables, strained/junior	220	18	0	0	2.0	0.4	1.3	2.8	2.0	0.3	1
sweet potatoes, strained/junior	221	18	0	0	1.8	0.2	1.5	2.5	1.7	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Zinc - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	0	0	2.5	0.4	1.6	3.1	2.7	0.3	1
peas, strained/junior	223	18	0	0	5.5	0.7	4.1	7.0	5.4	0.3	1
creamed spinach, strained/junior	224	18	0	0	5.4	0.9	4.3	8.0	5.4	0.3	1
applesauce, strained/junior	225	18	8	9	0.3	0.3	0	1.0	0.3	0.3	1
peaches, strained/junior	226	18	0	14	0.8	0.3	0.4	1.7	0.7	0.3	1
pears, strained/junior	227	18	0	12	1.0	0.1	0.7	1.2	0.9	0.3	1
apple juice, strained	230	18	13	5	0.1	0.2	0	0.6	0	0.3	1
orange juice, strained	231	18	1	17	0.4	0.1	0	0.6	0.5	0.3	1
custard pudding, strained/junior	232	18	0	0	3.0	0.4	2.5	4.0	2.9	0.3	1
fruit dessert/pudding, strained/junior	233	18	1	14	0.6	0.4	0	1.9	0.5	0.3	1
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	0	0	4.4	0.5	3.3	5.6	4.4	0.3	1
Swiss cheese	236	18	0	0	43.6	3.2	35.6	48.9	43.9	0.4	2
cream cheese	237	18	0	0	5.1	1.0	2.7	6.7	5.1	0.4	2
veal cutlet, pan-cooked	238	18	0	0	39.4	10.1	16.7	62.9	37.8	0.3	1
ham luncheon meat, sliced	239	18	0	0	18.4	2.8	12.1	22.4	18.9	0.3	1
chicken breast, roasted	240	18	0	0	9.1	2.6	7.2	18.4	8.6	0.3	1
chicken nuggets, fast-food	241	18	0	0	8.6	1.7	5.4	13.1	8.3	0.3	1
chicken, fried (breast, leg, and thigh), fast-food	242	18	0	0	12.4	1.5	8.3	15.7	12.7	0.3	1
haddock, pan-cooked	243	18	0	0	4.7	1.0	3.7	8.1	4.5	0.3	1
shrimp, boiled	244	18	0	0	16.2	6.1	7.2	34.6	14.6	0.3	1
kidney beans, dry, boiled	245	18	0	0	10.0	0.9	8.1	11.3	10.1	0.3	1
peas, mature, dry, boiled	246	18	0	0	10.4	0.9	8.8	11.6	10.4	0.3	1
mixed nuts, no peanuts, dry roasted	247	18	0	0	41.0	7.2	23.2	62.6	40.2	0.4	2
cracked wheat bread	248	18	0	0	11.7	2.6	7.9	19.1	11.3	0.3	1
bagel, plain	249	18	0	0	7.7	1.6	5.0	12.9	7.6	0.4	2
English muffin, plain, toasted	250	18	0	0	7.8	1.5	5.7	10.7	7.8	0.3	1
graham crackers	251	18	0	0	7.8	1.4	5.3	10.1	8.3	0.3	1
butter-type crackers	252	18	0	0	5.3	0.6	4.5	6.3	5.3	0.3	1
apricot, raw	253	13	0	0	1.8	0.4	1.3	2.7	1.8	0.3	1
peach, canned in light/medium syrup	254	18	1	17	0.6	0.2	0	0.9	0.6	0.3	1
pear, canned in light syrup	255	18	0	18	0.6	0.1	0.3	0.8	0.6	0.3	1
pineapple juice, from frozen concentrate	256	18	0	17	0.7	0.1	0.5	1.0	0.7	0.2	1
grape juice, from frozen concentrate	257	18	3	15	0.4	0.2	0	0.6	0.4	0.2	1
French fries, fast-food	258	18	0	0	4.6	0.7	3.5	6.2	4.6	0.3	1
carrot, fresh, boiled	259	18	0	0	1.8	0.4	1.1	2.5	1.7	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Zinc - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	0	1	1.3	0.1	1.0	1.5	1.3	0.3	1
tomato juice, bottled	261	18	0	5	1.1	0.2	0.8	1.6	1.1	0.3	1
beets, fresh/frozen, boiled	262	18	0	0	3.4	0.8	2.2	5.5	3.3	0.3	1
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	2.4	0.5	1.7	3.7	2.3	0.3	1
mushrooms, raw	264	18	0	0	3.6	0.7	2.6	4.6	3.5	0.3	1
eggplant, fresh, boiled	265	18	0	8	1.0	0.3	0.6	1.9	1.0	0.3	1
turnip, fresh/frozen, boiled	266	18	0	3	1.2	0.4	0.6	2.3	1.1	0.3	1
okra, fresh/frozen, boiled	267	18	0	0	4.3	1.1	2.2	6.5	4.4	0.3	1
mixed vegetables, frozen, boiled	268	18	0	0	3.5	0.7	2.0	5.2	3.4	0.3	1
beef stroganoff, homemade	269	18	0	0	16.3	2.4	12.4	20.7	16.4	0.3	1
green peppers stuffed with beef and rice, homemade	270	18	0	0	13.9	5.3	6.8	30.1	12.3	0.3	1
chili con carne with beans, homemade	271	18	0	0	19.9	4.7	14.1	35.2	19.8	0.3	1
tuna noodle casserole, homemade	272	17	0	0	5.9	1.0	4.0	7.7	5.9	0.3	1
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	18	0	0	9.3	1.8	4.9	13.0	9.4	0.3	1
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	18	0	0	6.7	1.1	5.2	9.1	6.5	0.3	1
quarter-pound cheeseburger on bun, fast-food	275	18	0	0	27.0	3.6	22.2	33.5	25.7	0.3	1
fish sandwich on bun, fast-food	276	18	0	0	5.7	0.8	4.4	7.7	5.6	0.3	1
frankfurter on bun, fast-food	277	18	0	0	14.6	3.2	10.7	21.6	14.1	0.4	2
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	13.5	1.6	11.4	17.2	13.1	0.3	1
taco/tostada, from Mexican carry-out	279	18	0	0	24.2	2.8	19.1	30.0	24.5	0.3	1
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	17.4	1.5	15.0	20.5	17.4	0.3	1
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	17.7	2.0	14.5	21.8	17.5	0.3	1
beef chow mein, from Chinese carry-out	282	18	0	0	11.4	2.0	8.5	15.2	11.4	0.3	1
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	4.0	0.6	3.2	5.5	4.0	0.3	1
mushroom soup, canned, condensed, prepared with whole milk	284	18	0	0	2.8	0.6	2.1	4.1	2.6	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Zinc - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	0	0	4.1	1.0	3.1	7.5	3.8	0.3	1
vanilla ice cream	286	18	0	0	3.6	0.8	1.9	5.0	3.6	0.3	1
fruit flavor sherbet	287	18	0	8	1.1	0.5	0.4	2.6	1.0	0.3	1
popsicle, any flavor	288	18	16	2	0.0	0.1	0	0.4	0	0.3	1
chocolate snack cake with chocolate icing	289	18	0	0	5.8	1.3	3.9	8.4	5.7	0.4	2
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	4.5	0.8	3.0	5.7	4.4	0.3	1
brownies, commercial	291	18	0	0	6.7	1.1	5.0	9.3	6.6	0.3	1
sugar cookies, commercial	292	18	0	0	4.0	0.7	3.1	6.1	3.9	0.3	1
suckers, any flavor	293	18	13	5	0.1	0.2	0	0.5	0	0.3	1
pretzels, hard, salted, any shape	294	18	0	0	9.1	1.5	5.7	11.4	9.1	0.3	1
chocolate syrup dessert topping	295	18	0	0	6.7	0.8	5.6	8.4	6.6	0.3	1
jelly, any flavor	296	18	8	10	0.2	0.2	0	0.7	0.3	0.3	1
sweet cucumber pickles	297	18	2	15	0.6	0.4	0	1.7	0.6	0.3	1
yellow mustard	298	18	0	0	6.4	0.6	5.1	7.5	6.4	0.3	1
black olives	299	18	0	4	1.3	0.5	0.5	2.2	1.4	0.3	1
sour cream	300	18	0	0	3.7	0.5	2.9	4.5	3.7	0.3	1
brown gravy, homemade	301	18	0	0	5.2	2.3	2.0	9.5	4.5	0.3	1
French salad dressing, regular	302	18	0	13	0.8	0.3	0.3	1.5	0.8	0.3	1
Italian salad dressing, low-calorie	303	18	2	15	0.5	0.3	0	1.3	0.5	0.3	1
olive/safflower oil	304	18	9	8	0.4	0.5	0	2.1	0.2	0.3	1
coffee, from ground	305	18	17	1	0.0	0.0	0	0.2	0	0.2	1
fruit-flavored carbonated beverage	306	18	16	2	0.0	0.1	0	0.6	0	0.2	1
fruit drink, canned	307	18	12	6	0.1	0.1	0	0.4	0	0.2	1
martini	308	18	9	9	0.1	0.1	0	0.3	0.1	0.1	0.4
soy-based infant formula, ready-to-feed	309	18	0	0	6.7	1.1	5.0	8.5	6.8	0.3	1
egg yolk, strained/junior	310	12	0	0	22.2	1.7	19.4	26.0	22.2	0.3	1
rice infant cereal, instant, prepared with whole milk	311	18	0	0	6.4	1.2	3.5	8.8	6.3	0.3	1
rice cereal, strained/junior	312	18	0	1	1.9	1.8	0.8	8.2	1.4	0.3	1
bananas with tapioca, strained/junior	313	18	0	17	0.7	0.2	0.3	1.0	0.7	0.3	1
beets, strained/junior	314	15	0	0	2.3	0.4	1.5	3.0	2.4	0.3	1
split peas with vegetables and ham/bacon	316	18	0	0	2.8	0.5	2.2	3.8	2.7	0.3	1
teething biscuits	317	18	0	0	7.2	2.41	4.5	14.0	6.5	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Manganese - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4680</b>	<b>1193</b>	<b>1131</b>	<b>2.4</b>	<b>4.5</b>	<b>0</b>	<b>44.4</b>	<b>1.0</b>		
whole milk, fluid	1	17	17	0	0	0	0	0	0	0.3	1
lowfat (2% fat) milk, fluid	2	18	18	0	0	0	0	0	0	0.3	1
chocolate milk, fluid	3	18	5	13	0.3	0.2	0	0.7	0.4	0.3	1
skim milk, fluid	4	18	18	0	0	0	0	0	0	0.3	1
plain yogurt, lowfat	6	18	18	0	0	0	0	0	0	0.3	1
chocolate milk shake, fast-food	7	18	6	12	0.3	0.2	0	0.7	0.4	0.3	1
evaporated milk, canned	8	18	18	0	0	0	0	0	0	0.3	1
American, processed cheese	10	18	17	1	0.0	0.1	0	0.5	0	0.4	2
cottage cheese, 4% milkfat	11	18	18	0	0	0	0	0	0	0.4	2
cheddar cheese	12	18	17	1	0.0	0.1	0	0.6	0	0.4	2
ground beef, pan-cooked	13	18	18	0	0	0	0	0	0	0.3	1
beef chuck roast, baked	14	18	17	1	0.0	0.1	0	0.3	0	0.3	1
beef steak, loin, pan-cooked	16	18	18	0	0	0	0	0	0	0.3	1
ham, baked	17	18	18	0	0	0	0	0	0	0.3	1
pork chop, pan-cooked	18	18	17	1	0.0	0.1	0	0.3	0	0.3	1
pork sausage, pan-cooked	19	18	5	13	0.5	0.3	0	1.1	0.5	0.4	2
pork bacon, pan-cooked	20	18	18	0	0	0	0	0	0	0.4	2
pork roast, baked	21	18	18	0	0	0	0	0	0	0.4	2
lamb chop, pan-cooked	22	18	18	0	0	0	0	0	0	0.4	2
chicken, fried (breast, leg, and thigh) homemade	24	18	2	16	0.4	0.2	0	0.6	0.4	0.3	1
turkey breast, roasted	26	18	17	1	0.0	0.1	0	0.4	0	0.3	1
liver, beef, fried	27	18	0	0	3.7	0.3	3.2	4.3	3.6	0.3	1
frankfurters, beef, boiled	28	18	11	7	0.2	0.2	0	0.6	0	0.4	2
bologna, sliced	29	18	11	7	0.2	0.2	0	0.5	0	0.4	2
salami, sliced	30	18	0	16	1.5	2.0	0.4	9.2	1.0	0.4	2
tuna, canned in oil	32	18	9	9	0.3	0.3	0	0.9	0.2	0.3	1
fish sticks, frozen, heated	34	18	0	0	2.1	0.6	1.4	3.5	2.0	0.3	1
eggs, scrambled	35	18	16	2	0.0	0.1	0	0.4	0	0.3	1
eggs, fried	36	18	12	6	0.1	0.2	0	0.4	0	0.3	1
eggs, boiled	37	18	12	6	0.1	0.2	0	0.4	0	0.3	1
pinto beans, dry, boiled	38	18	0	0	5.1	0.5	4.2	5.9	5.1	0.3	1
pork and beans, canned	39	18	0	0	3.4	0.3	2.8	4.0	3.4	0.3	1
lima beans, immature, frozen, boiled	42	18	0	0	5.9	0.6	4.8	6.9	5.9	0.3	1
green peas, fresh/frozen, boiled	46	18	0	0	2.7	0.5	1.8	3.8	2.7	0.3	1
peanut butter, smooth	47	18	0	0	16.5	1.9	13.0	19.9	16.5	0.4	2
peanuts, dry roasted	48	18	0	0	19.9	1.7	16.8	22.8	20.2	0.4	2

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Manganese - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	0	0	4.4	0.8	3.0	5.7	4.4	0.3	1
oatmeal, quick (1-3 min), cooked	51	18	0	0	7.5	1.4	5.6	11.5	7.3	0.3	1
wheat cereal, farina, quick (1-3min), cooked	52	18	0	4	1.8	1.4	0.7	6.2	1.4	0.3	1
corngrits, regular, cooked	53	18	10	8	0.2	0.2	0	0.5	0	0.3	1
corn, fresh/frozen, boiled	54	18	0	13	0.9	0.2	0.7	1.4	0.9	0.3	1
cream style corn, canned	56	18	0	18	0.6	0.1	0.4	0.7	0.6	0.3	1
popcorn, popped in oil	57	18	0	0	8.3	1.7	4.7	11.1	8.6	0.4	2
white bread	58	18	0	0	4.2	0.7	2.6	5.2	4.2	0.4	2
white roll	59	18	0	0	4.6	0.5	3.8	6.1	4.5	0.4	2
cornbread, homemade	60	18	0	0	2.0	0.3	1.5	2.6	1.9	0.3	1
biscuit, from refrigerated dough, baked	61	18	0	0	3.7	0.6	2.2	4.5	3.8	0.3	1
whole wheat bread	62	18	0	0	18.2	2.9	14.0	22.3	18.5	0.3	1
tortilla, flour	63	18	0	0	4.8	1.4	3.6	9.4	4.4	0.3	1
rye bread	64	18	0	0	7.0	1.0	4.1	8.8	7.3	0.3	1
blueberry muffin, commercial	65	18	0	0	3.9	1.2	2.1	6.8	3.7	0.3	1
saltine crackers	66	18	0	0	7.0	0.6	6.3	9.1	6.9	0.3	1
corn chips	67	18	0	0	3.4	0.5	2.6	5.1	3.4	0.3	1
pancake from mix	68	18	0	0	2.7	0.7	1.4	4.0	2.6	0.3	1
egg noodles, boiled	69	18	0	0	2.8	0.4	2.2	3.9	2.7	0.4	2
macaroni, boiled	70	18	0	0	2.8	0.4	2.1	3.6	2.8	0.3	1
corn flakes	71	18	0	9	1.2	0.5	0.4	1.8	1.1	0.3	1
fruit-flavored, sweetened cereal	72	18	0	0	7.3	1.2	5.3	11.2	7.2	0.3	1
shredded wheat cereal	73	18	0	0	25.0	6.7	16.7	44.4	23.0	0.3	1
raisin bran cereal	74	18	0	0	28.8	4.9	19.8	38.3	29.2	0.3	1
crisped rice cereal	75	18	0	0	13.1	1.1	11.7	16.5	12.9	0.3	1
granola cereal	76	18	0	0	20.1	4.0	11.0	27.7	18.8	0.3	1
oat ring cereal	77	18	0	0	33.8	2.3	30.4	38.3	33.4	0.3	1
apple, red, raw	78	18	10	8	0.2	0.2	0	0.4	0	0.3	1
orange, raw	79	18	1	17	0.3	0.1	0	0.4	0.3	0.2	1
banana, raw	80	18	0	0	2.7	1.2	1.3	5.3	2.2	0.2	1
watermelon, raw	81	18	2	16	0.4	0.2	0	0.7	0.4	0.2	1
peach, raw	83	18	0	18	0.6	0.1	0.4	0.8	0.6	0.2	1
applesauce, bottled	84	18	11	7	0.1	0.1	0	0.2	0	0.2	1
pear, raw	85	18	0	18	0.5	0.1	0.3	0.7	0.5	0.2	1
strawberries, raw	86	18	0	0	3.6	1.1	2.1	6.3	3.4	0.2	1
fruit cocktail, canned in heavy syrup	87	18	0	10	1.0	0.5	0.6	2.5	0.9	0.3	1
grapes, red/green, seedless, raw	88	18	0	15	0.7	0.2	0.4	1.2	0.7	0.2	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Manganese - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	1	17	0.4	0.1	0	0.7	0.4	0.2	1
plums, raw	91	18	0	18	0.5	0.1	0.3	0.7	0.5	0.2	1
grapefruit, raw	92	18	11	7	0.1	0.1	0	0.3	0	0.2	1
pineapple, canned in juice	93	18	0	0	10.0	4.6	1.4	19.0	9.7	0.3	1
sweet cherries, raw	94	12	0	9	0.8	0.2	0.5	1.3	0.8	0.3	1
raisins, dried	95	18	0	0	3.0	0.2	2.4	3.2	3.0	0.4	2
prunes, dried	96	18	0	0	3.1	0.7	2.4	5.9	2.9	0.4	2
avocado, raw	97	18	0	13	1.8	0.4	1.1	2.4	1.8	0.4	2
orange juice, from frozen concentrate	98	18	4	14	0.2	0.1	0	0.4	0.2	0.2	1
apple juice, bottled	99	18	0	12	0.9	0.6	0.2	2.1	0.7	0.2	1
grapefruit juice, from frozen concentrate	100	18	13	5	0.1	0.1	0	0.2	0	0.2	1
prune juice, bottled	103	18	0	3	1.2	0.4	0.8	2.5	1.2	0.2	1
lemonade, from frozen concentrate	105	18	18	0	0	0	0	0	0	0.2	1
spinach, fresh/frozen, boiled	107	18	0	0	5.5	3.7	2.6	18.8	4.4	0.2	1
collards, fresh/frozen, boiled	108	18	0	0	4.5	2.1	1.7	9.6	3.9	0.2	1
iceberg lettuce, raw	109	18	0	4	1.2	0.3	0.8	2.0	1.2	0.2	1
cabbage, fresh, boiled	110	18	0	7	1.1	0.3	0.7	2.3	1.1	0.2	1
coleslaw with dressing, homemade	111	18	0	17	1.2	0.3	0.7	2.1	1.2	0.4	2
sauerkraut, canned	112	18	0	8	1.1	0.2	0.6	1.5	1.0	0.3	1
broccoli, fresh/frozen, boiled	113	18	0	0	1.4	0.2	1.1	1.7	1.5	0.3	1
celery, raw	114	18	1	15	0.7	0.3	0	1.1	0.7	0.3	1
asparagus, fresh/frozen, boiled	115	18	0	4	1.3	0.3	0.8	1.8	1.3	0.3	1
cauliflower, fresh/frozen, boiled	116	18	0	1	1.2	0.2	0.9	1.5	1.2	0.3	1
tomato, red, raw	117	18	0	9	1.0	0.2	0.6	1.6	1.0	0.3	1
tomato sauce, plain, bottled	119	18	0	7	1.0	0.2	0.7	1.4	1.1	0.3	1
green beans, fresh/frozen, boiled	121	18	0	0	2.7	1.0	1.4	5.6	2.6	0.3	1
cucumber, raw	123	18	0	16	0.7	0.2	0.4	1.2	0.6	0.3	1
summer squash, fresh/frozen, boiled	124	18	0	3	1.4	0.6	0.8	3.0	1.2	0.3	1
green pepper, raw	125	18	0	9	1.1	0.3	0.7	1.5	1.0	0.3	1
winter squash, fresh/frozen, baked, mashed	126	18	1	7	1.1	0.5	0	2.4	1.1	0.3	1
onion, mature, raw	128	18	0	7	1.2	0.5	0.5	2.5	1.1	0.3	1
radish, raw	132	18	3	15	0.4	0.2	0	0.8	0.4	0.3	1
French fries, frozen, heated	134	18	0	0	1.8	0.3	1.4	2.4	1.8	0.3	1
mashed potatoes, from flakes	135	18	0	18	0.7	0.1	0.5	0.9	0.7	0.3	1
white potato, boiled without skin	136	18	0	2	1.2	0.2	0.9	1.6	1.2	0.3	1
white potato, baked with skin	137	18	0	0	2.0	0.5	1.2	3.3	1.9	0.3	1
potato chips	138	18	0	0	4.5	1.3	3.4	8.3	4.0	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Manganese - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	3	1.1	0.2	0.8	1.6	1.1	0.3	1
sweet potato, fresh, baked	140	18	0	0	4.0	1.8	2.1	8.9	3.4	0.3	1
spaghetti with tomato sauce and meatballs, homemade	142	18	0	0	1.7	0.2	1.3	2.1	1.7	0.3	1
beef stew with potatoes, carrots, and onion, homemade	143	18	0	11	0.9	0.2	0.5	1.3	0.9	0.3	1
macaroni and cheese, from box mix	146	18	0	0	2.1	0.5	1.1	3.0	2.0	0.3	1
quarter-pound hamburger on bun, fast-food	147	18	0	0	1.9	0.3	1.4	2.3	1.9	0.3	1
meatloaf, homemade	148	18	0	15	0.7	0.3	0.4	1.4	0.6	0.3	1
spaghetti with tomato sauce, canned	149	18	0	2	1.3	0.3	0.9	1.7	1.3	0.3	1
lasagna with meat, homemade	151	18	0	0	1.5	0.2	1.1	2.0	1.5	0.3	1
chicken potpie, frozen, heated	152	18	0	0	1.9	0.4	1.4	3.4	1.8	0.3	1
chicken noodle soup, canned, condensed, prepared with water	155	18	1	17	0.5	0.2	0	0.7	0.5	0.3	1
tomato soup, canned, condensed, prepared with water	156	18	0	18	0.8	0.1	0.7	0.9	0.8	0.3	1
vegetable beef soup, canned, condensed, prepared with water	157	18	0	18	0.6	0.1	0.4	0.8	0.5	0.3	1
white sauce, homemade	160	18	0	18	0.5	0.1	0.3	0.7	0.5	0.2	1
dill cucumber pickles	161	18	7	11	0.3	0.3	0	0.6	0.3	0.3	1
margarine, stick, regular (salted)	162	18	18	0	0	0	0	0	0	0.3	1
butter, regular (salted)	164	18	18	0	0	0	0	0	0	0.3	1
mayonnaise, regular, bottled	166	18	18	0	0	0	0	0	0	0.4	2
half & half cream	167	18	18	0	0	0	0	0	0	0.3	1
cream substitute, frozen	168	18	18	0	0	0	0	0	0	0.3	1
white sugar, granulated	169	18	18	0	0	0	0	0	0	0.3	1
pancake syrup	170	18	4	10	0.7	0.6	0	1.9	0.7	0.3	1
honey	172	18	7	11	0.3	0.3	0	0.9	0.3	0.3	1
tomato catsup	173	18	0	2	1.1	0.1	0.8	1.2	1.1	0.3	1
chocolate pudding, from instant mix	175	18	0	15	0.8	0.3	0.4	1.7	0.8	0.3	1
vanilla flavored light ice cream	177	18	18	0	0	0	0	0	0	0.3	1
chocolate cake with chocolate icing, commercial	178	18	0	0	2.9	0.5	2.0	4.1	2.7	0.4	2
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	12	0.9	0.2	0.6	1.3	0.8	0.3	1
sweet roll/Danish, commercial	182	18	0	0	3.3	0.5	2.3	4.0	3.5	0.4	2
chocolate chip cookies, commercial	183	18	0	0	4.9	0.6	3.8	6.0	4.7	0.3	1
sandwich cookies with creme filling, commercial	184	18	0	0	4.1	0.8	2.7	5.5	4.2	0.3	1



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Manganese - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	0	1.8	0.3	1.5	2.5	1.8	0.3	1
pumpkin pie, fresh/frozen, commercial	186	18	0	0	2.4	0.4	1.8	3.2	2.4	0.3	1
milk chocolate candy bar, plain	187	18	0	0	3.4	0.4	2.5	4.5	3.4	0.3	1
caramel candy	188	18	18	0	0	0	0	0	0	0.3	1
gelatin dessert, any flavor	190	18	18	0	0	0	0	0	0	0.3	1
cola carbonated beverage	191	18	18	0	0	0	0	0	0	0.3	1
fruit drink, from powder	193	18	18	0	0	0	0	0	0	0.2	1
low-calorie cola carbonated beverage	194	18	18	0	0	0	0	0	0	0.2	1
coffee, decaffeinated, from instant	196	18	0	16	0.3	0.1	0.1	0.5	0.3	0.1	0.4
tea, from tea bag	197	18	0	0	2.9	0.9	0.8	4.3	2.9	0.1	0.4
beer	198	18	16	2	0.0	0.1	0	0.3	0	0.2	1
dry table wine	199	18	0	0	1.1	0.5	0.6	2.6	1.0	0.15	0.5
whiskey	200	18	18	0	0	0	0	0	0	0.12	0.4
tap water	201	18	17	1	0.0	0.0	0	0.1	0	0.05	0.2
milk-based infant formula, high iron, ready-to-feed	202	18	18	0	0	0	0	0	0	0.3	1
milk-based infant formula, low iron, ready-to-feed	203	18	18	0	0	0	0	0	0	0.3	1
beef, strained/junior	205	18	17	1	0.0	0.1	0	0.6	0	0.3	1
chicken, strained/junior	207	18	18	0	0	0	0	0	0	0.3	1
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	2	0.9	0.1	0.9	1.0	0.9	0.3	1
beef with vegetables, high/lean meat, strained/junior	209	2	0	2	0.8	0.0	0.8	0.8	0.8	0.3	1
ham with vegetables, high/lean meat, strained/junior	210	2	0	2	0.9	0.1	0.9	1.0	0.9	0.3	1
vegetables and beef, strained/junior	211	18	0	5	1.1	0.3	0.5	1.6	1.2	0.3	1
vegetables and chicken, strained/junior	212	18	0	4	1.2	0.3	0.7	1.7	1.3	0.3	1
vegetables and ham, strained/junior	213	18	0	5	1.2	0.3	0.8	2.0	1.1	0.3	1
chicken noodle dinner, strained/junior	214	18	0	1	1.3	0.3	1.0	2.1	1.2	0.3	1
macaroni, tomatoes, and beef, strained/junior	215	18	0	2	1.2	0.2	0.9	1.6	1.2	0.3	1
turkey and rice, strained/junior	216	18	0	1	1.3	0.3	0.9	2.2	1.2	0.3	1
carrots, strained/junior	218	18	0	2	1.6	0.9	0.8	5.0	1.3	0.3	1
green beans, strained/junior	219	18	0	0	2.9	0.9	1.5	4.6	2.8	0.3	1
mixed vegetables, strained/junior	220	18	0	1	1.7	0.5	0.9	2.8	1.7	0.3	1
sweet potatoes, strained/junior	221	18	0	0	2.6	1.0	1.5	4.9	2.1	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Manganese - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	0	3	1.2	0.2	0.8	1.7	1.2	0.3	1
peas, strained/junior	223	18	0	0	2.5	0.4	1.7	3.4	2.4	0.3	1
creamed spinach, strained/junior	224	18	0	0	7.5	1.7	4.0	10.6	7.4	0.3	1
applesauce, strained/junior	225	18	10	8	0.2	0.2	0	0.5	0	0.3	1
peaches, strained/junior	226	18	0	18	0.5	0.1	0.4	0.6	0.5	0.3	1
pears, strained/junior	227	18	0	18	0.5	0.1	0.3	0.9	0.5	0.3	1
apple juice, strained	230	18	2	1	1.4	0.7	0	2.7	1.4	0.3	1
orange juice, strained	231	18	14	4	0.1	0.2	0	0.7	0	0.3	1
custard pudding, strained/junior	232	18	13	5	0.1	0.2	0	0.7	0	0.3	1
fruit dessert/pudding, strained/junior	233	18	0	14	0.8	0.3	0.3	1.7	0.7	0.3	1
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	11	7	0.2	0.2	0	0.5	0	0.3	1
Swiss cheese	236	18	16	2	0.0	0.1	0	0.4	0	0.4	2
cream cheese	237	18	18	0	0	0	0	0	0	0.4	2
veal cutlet, pan-cooked	238	18	18	0	0	0	0	0	0	0.3	1
ham luncheon meat, sliced	239	18	17	1	0.0	0.1	0	0.4	0	0.3	1
chicken breast, roasted	240	18	18	0	0	0	0	0	0	0.3	1
chicken nuggets, fast-food	241	18	0	1	1.4	0.3	0.8	2.1	1.3	0.3	1
chicken, fried (breast, leg, and thigh), fast-food	242	18	0	8	1.0	0.2	0.8	1.4	1.1	0.3	1
haddock, pan-cooked	243	18	14	4	0.1	0.2	0	0.5	0	0.3	1
shrimp, boiled	244	18	3	12	0.6	0.4	0	1.6	0.6	0.3	1
kidney beans, dry, boiled	245	18	0	0	4.9	0.7	3.5	6.1	4.8	0.3	1
peas, mature, dry, boiled	246	18	0	0	4.0	0.5	3.3	5.1	4.0	0.3	1
mixed nuts, no peanuts, dry roasted	247	18	0	0	23.2	3.9	14.6	32.5	23.2	0.4	2
cracked wheat bread	248	18	0	0	11.1	2.8	7.3	18.4	10.1	0.3	1
bagel, plain	249	18	0	0	4.4	0.7	3.2	5.4	4.5	0.4	2
English muffin, plain, toasted	250	18	0	0	4.4	0.7	3.1	5.9	4.4	0.3	1
graham crackers	251	18	0	0	8.5	1.5	5.6	10.8	8.4	0.3	1
butter-type crackers	252	18	0	0	5.1	0.5	4.2	6.0	5.0	0.3	1
apricot, raw	253	13	0	12	0.8	0.1	0.6	1.0	0.8	0.3	1
peach, canned in light/medium syrup	254	18	9	9	0.3	0.3	0	0.9	0.2	0.3	1
pear, canned in light syrup	255	18	7	7	0.5	0.5	0	1.1	0.6	0.3	1
pineapple juice, from frozen concentrate	256	18	0	0	9.7	3.9	4.1	16.7	9.1	0.2	1
grape juice, from frozen concentrate	257	18	0	6	1.6	0.8	0.6	2.9	1.5	0.2	1
French fries, fast-food	258	18	0	0	2.5	0.5	2.0	4.1	2.4	0.3	1
carrot, fresh, boiled	259	18	0	8	1.1	0.3	0.7	1.8	1.0	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Manganese - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	0	18	0.8	0.1	0.5	1.0	0.8	0.3	1
tomato juice, bottled	261	18	0	18	0.7	0.1	0.5	0.9	0.7	0.3	1
beets, fresh/frozen, boiled	262	18	0	0	3.3	1.1	1.2	5.3	3.3	0.3	1
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	2.1	0.5	1.4	3.2	2.0	0.3	1
mushrooms, raw	264	18	4	14	0.3	0.2	0	0.5	0.4	0.3	1
eggplant, fresh, boiled	265	18	0	6	1.0	0.2	0.7	1.3	1.1	0.3	1
turnip, fresh/frozen, boiled	266	18	0	17	0.7	0.2	0.4	1.0	0.7	0.3	1
okra, fresh/frozen, boiled	267	18	0	0	2.9	0.8	1.1	4.2	3.0	0.3	1
mixed vegetables, frozen, boiled	268	18	0	0	2.1	0.3	1.3	2.7	2.2	0.3	1
beef stroganoff, homemade	269	18	0	2	1.5	0.3	1.0	2.0	1.5	0.3	1
green peppers stuffed with beef and rice, homemade	270	18	0	2	1.6	0.5	0.8	2.5	1.5	0.3	1
chili con carne with beans, homemade	271	18	0	0	2.1	0.5	1.3	3.3	2.1	0.3	1
tuna noodle casserole, homemade	272	18	0	5	1.2	0.2	0.8	1.6	1.2	0.3	1
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	17	0	0	1.6	0.3	1.1	2.1	1.5	0.3	1
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	17	0	4	1.1	0.1	0.9	1.4	1.1	0.3	1
quarter-pound cheeseburger on bun, fast-food	275	17	0	0	1.7	0.3	1.2	2.2	1.7	0.3	1
fish sandwich on bun, fast-food	276	18	0	0	2.2	0.3	1.8	2.7	2.2	0.3	1
frankfurter on bun, fast-food	277	18	0	4	2.3	0.4	1.6	3.0	2.2	0.4	2
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	2.2	0.4	1.6	2.9	2.1	0.3	1
taco/tostada, from Mexican carry-out	279	18	0	0	2.3	0.3	1.4	2.8	2.3	0.3	1
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	3.2	0.4	2.6	3.9	3.1	0.3	1
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	3.4	0.5	2.4	4.2	3.4	0.3	1
beef chow mein, from Chinese carry-out	282	18	0	6	1.5	0.7	0.5	2.7	1.4	0.3	1
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	2.5	0.5	1.9	3.2	2.4	0.3	1
mushroom soup, canned, condensed, prepared with whole milk	284	18	9	9	0.2	0.2	0	0.5	0.2	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Manganese - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	0	18	0.5	0.1	0.3	0.8	0.4	0.3	1
vanilla ice cream	286	18	17	1	0.0	0.1	0	0.3	0	0.3	1
fruit flavor sherbet	287	18	11	7	0.2	0.3	0	0.7	0	0.3	1
popsicle, any flavor	288	18	15	3	0.1	0.1	0	0.4	0	0.3	1
chocolate snack cake with chocolate icing	289	18	0	0	3.7	0.8	2.2	5.4	3.8	0.4	2
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	2.7	0.3	2.0	3.1	2.8	0.3	1
brownies, commercial	291	18	0	0	4.3	0.6	3.5	6.0	4.2	0.3	1
sugar cookies, commercial	292	18	0	0	3.3	0.6	2.1	4.5	3.3	0.3	1
suckers, any flavor	293	18	18	0	0	0	0	0	0	0.3	1
pretzels, hard, salted, any shape	294	18	0	0	9.3	1.8	6.0	13.8	9.2	0.3	1
chocolate syrup dessert topping	295	18	0	0	3.8	0.4	3.1	4.5	3.9	0.3	1
jelly, any flavor	296	18	0	10	1.2	0.6	0.4	2.2	1.0	0.3	1
sweet cucumber pickles	297	18	11	7	0.2	0.2	0	0.6	0	0.3	1
yellow mustard	298	18	0	0	4.1	0.5	3.5	5.1	3.9	0.3	1
black olives	299	18	2	16	0.5	0.2	0	0.9	0.6	0.3	1
sour cream	300	18	18	0	0	0	0	0	0	0.3	1
brown gravy, homemade	301	18	0	16	0.6	0.2	0.4	1.0	0.5	0.3	1
French salad dressing, regular	302	18	2	16	0.4	0.2	0	0.6	0.3	0.3	1
Italian salad dressing, low-calorie	303	18	13	5	0.1	0.2	0	0.4	0	0.3	1
olive/safflower oil	304	18	18	0	0	0	0	0	0	0.3	1
coffee, from ground	305	18	10	8	0.1	0.2	0	0.4	0	0.2	1
fruit-flavored carbonated beverage	306	18	18	0	0	0	0	0	0	0.2	1
fruit drink, canned	307	18	2	9	0.8	0.8	0	2.8	0.7	0.2	1
martini	308	18	16	2	0.0	0.0	0	0.1	0	0.1	0.4
soy-based infant formula, ready-to-feed	309	18	7	11	0.3	0.2	0	0.7	0.3	0.3	1
egg yolk, strained/junior	310	12	0	12	0.5	0.0	0.4	0.5	0.5	0.3	1
rice infant cereal, instant, prepared with whole milk	311	18	0	0	4.5	1.4	2.7	7.6	4.1	0.3	1
rice cereal, strained/junior	312	18	0	3	1.3	0.3	0.8	1.6	1.3	0.3	1
bananas with tapioca, strained/junior	313	18	0	1	1.6	0.3	1.0	2.2	1.7	0.3	1
beets, strained/junior	314	15	0	0	3.6	0.7	2.4	5.1	3.6	0.3	1
split peas with vegetables and ham/bacon	316	18	0	3	1.5	0.5	0.8	2.7	1.5	0.3	1
teething biscuits	317	18	0	0	5.0	4.1	2.7	15.3	3.3	0.3	1

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Iron - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4680</b>	<b>477</b>	<b>1222</b>	<b>14.8</b>	<b>37.8</b>	<b>0</b>	<b>550</b>	<b>5.0</b>		
whole milk, fluid	1	18	17	1	0.0	0.2	0	0.7	0	0.7	3
lowfat (2% fat) milk, fluid	2	18	18	0	0	0	0	0	0	0.7	3
chocolate milk, fluid	3	18	0	16	1.9	0.8	0.7	4.3	1.8	0.7	3
skim milk, fluid	4	18	17	1	0.1	0.5	0	2.0	0	0.7	3
plain yogurt, lowfat	6	18	14	4	0.2	0.4	0	1.2	0	0.7	3
chocolate milk shake, fast-food	7	18	0	10	3.1	1.4	1.4	6.2	2.9	0.7	3
evaporated milk, canned	8	18	1	17	1.0	0.4	0	1.8	1.0	0.7	3
American, processed cheese	10	18	0	17	1.9	0.8	1.1	4.8	1.8	0.9	3
cottage cheese, 4% milkfat	11	18	7	11	1.0	1.0	0	2.9	1.1	0.9	3
cheddar cheese	12	18	2	16	1.6	0.7	0	2.6	1.8	0.9	3
ground beef, pan-cooked	13	18	0	0	25.5	2.8	21.4	30.9	25.2	0.7	3
beef chuck roast, baked	14	18	0	0	27.7	4.2	20.5	35.2	28.3	0.7	3
beef steak, loin, pan-cooked	16	18	0	0	26.2	5.0	17.9	35.4	24.7	0.7	3
ham, baked	17	18	0	1	8.3	2.1	2.8	11.7	8.7	0.7	3
pork chop, pan-cooked	18	18	0	0	10.2	1.4	8.0	13.4	9.9	0.7	3
pork sausage, pan-cooked	19	18	0	0	14.7	2.9	8.3	21.1	14.6	0.9	3
pork bacon, pan-cooked	20	18	0	1	9.8	2.5	1.9	13.2	10.0	0.9	3
pork roast, baked	21	18	0	0	9.8	1.8	6.9	13.1	9.7	0.9	3
lamb chop, pan-cooked	22	18	0	0	22.5	4.0	15.0	30.2	22.8	0.9	3
chicken, fried (breast, leg, and thigh) homemade	24	18	0	0	12.2	2.4	5.1	15.3	12.8	0.7	3
turkey breast, roasted	26	18	0	0	4.7	0.6	3.4	5.7	4.5	0.7	3
liver, beef, fried	27	18	0	0	61.6	10.4	45.5	79.8	61.0	0.7	3
frankfurters, beef, boiled	28	18	0	0	13.4	1.3	10.1	16.4	13.5	0.9	3
bologna, sliced	29	18	0	0	11.3	2.4	5.3	15.6	11.3	0.9	3
salami, sliced	30	18	0	0	16.7	2.6	9.2	20.1	17.0	0.9	3
tuna, canned in oil	32	18	0	0	9.1	1.7	5.4	12.1	9.4	0.8	3
fish sticks, frozen, heated	34	18	0	0	9.2	2.1	6.5	14.6	8.9	0.8	3
eggs, scrambled	35	18	0	0	14.6	2.4	10.0	21.6	14.1	0.7	3
eggs, fried	36	18	0	0	18.0	1.3	15.8	20.7	18.2	0.7	3
eggs, boiled	37	18	0	0	18.5	2.0	14.6	23.1	18.1	0.7	3
pinto beans, dry, boiled	38	18	0	0	18.5	2.1	15.5	24.1	18.2	0.7	3
pork and beans, canned	39	18	0	0	14.7	2.7	11.1	22.4	14.7	0.7	3
lima beans, immature, frozen, boiled	42	18	0	0	15.6	1.9	11.0	19.7	16.1	0.7	3
green peas, fresh/frozen, boiled	46	18	0	0	14.1	3.3	7.5	19.6	14.2	0.7	3
peanut butter, smooth	47	18	0	0	17.8	2.4	15.5	26.0	17.2	0.9	3
peanuts, dry roasted	48	18	0	0	17.1	2.8	14.8	26.8	16.5	0.9	3

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Iron - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	0	0	12.5	3.9	6.3	19.3	11.2	0.7	3
oatmeal, quick (1-3 min), cooked	51	18	0	0	10.6	6.8	4.6	31.9	7.8	0.7	3
wheat cereal, farina, quick (1-3min), cooked	52	18	0	0	42.3	18.3	15.7	96.9	39.6	0.7	3
corngrits, regular, cooked	53	18	0	0	8.1	5.0	3.1	20.9	6.8	0.7	3
corn, fresh/frozen, boiled	54	18	0	9	3.1	0.7	2.1	4.5	3.0	0.7	3
cream style corn, canned	56	18	0	13	2.8	0.5	2.1	3.7	2.7	0.7	3
popcorn, popped in oil	57	18	0	0	21.7	3.3	17.3	29.5	21.7	0.9	3
white bread	58	18	0	0	30.3	6.2	12.8	39.8	31.3	0.9	3
white roll	59	18	0	0	31.9	5.7	23.5	45.2	31.3	0.9	3
cornbread, homemade	60	18	0	2	15.5	10.6	1.6	36.0	14.7	0.7	3
biscuit, from refrigerated dough, baked	61	18	0	0	23.5	7.2	4.2	29.9	25.8	0.7	3
whole wheat bread	62	18	0	0	28.3	3.6	23.7	36.9	28.2	0.7	3
tortilla, flour	63	18	0	0	22.2	9.5	4.2	36.1	24.8	0.8	3
rye bread	64	18	0	0	27.3	7.0	17.9	48.1	27.9	0.7	3
blueberry muffin, commercial	65	18	0	1	12.9	5.1	1.2	18.5	14.1	0.7	3
saltine crackers	66	18	0	0	53.6	6.2	37.1	60.8	55.1	0.7	3
corn chips	67	18	0	0	13.5	2.1	10.0	17.7	13.6	0.7	3
pancake from mix	68	18	0	2	14.6	7.7	1.3	28.1	13.2	0.7	3
egg noodles, boiled	69	18	0	0	13.3	2.0	8.1	16.2	13.4	0.9	3
macaroni, boiled	70	18	0	0	11.3	1.5	8.8	13.9	11.0	0.7	3
corn flakes	71	18	0	0	196	91.3	94.9	369	174	0.7	3
fruit-flavored, sweetened cereal	72	18	0	0	180	33.1	80.0	241	182	0.7	3
shredded wheat cereal	73	18	0	0	38.4	24.2	23.2	133	32.1	0.7	3
raisin bran cereal	74	18	0	0	340	124	132	550	352	0.7	3
crisped rice cereal	75	18	0	0	101	36.2	59.5	187	85.1	0.7	3
granola cereal	76	18	0	0	110	59.2	47.3	224	84.4	0.7	3
oat ring cereal	77	18	0	0	340	45.2	249	460	346	0.7	3
apple, red, raw	78	18	1	17	1.1	0.4	0	1.7	1.1	0.7	3
orange, raw	79	18	0	17	1.4	0.7	0.7	4.1	1.3	0.5	2
banana, raw	80	18	0	0	2.8	0.4	2.0	3.6	2.9	0.5	2
watermelon, raw	81	18	0	3	2.5	0.6	1.0	3.3	2.5	0.5	2
peach, raw	83	18	0	4	2.2	0.4	1.5	3.0	2.3	0.5	2
applesauce, bottled	84	18	0	18	1.0	0.2	0.7	1.4	0.9	0.5	2
pear, raw	85	18	0	18	1.2	0.2	0.9	1.6	1.3	0.5	2
strawberries, raw	86	18	0	0	4.1	1.3	2.5	8.0	3.6	0.5	2
fruit cocktail, canned in heavy syrup	87	18	0	17	2.1	0.5	1.3	4.0	2.0	0.7	3
grapes, red/green, seedless, raw	88	18	0	4	3.1	1.5	1.4	6.8	2.4	0.5	2

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Iron - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	0	12	1.8	0.4	1.1	2.5	1.7	0.5	2
plums, raw	91	18	0	18	1.4	0.2	1.0	1.7	1.5	0.5	2
grapefruit, raw	92	18	0	17	1.1	0.7	0.5	3.7	1.0	0.5	2
pineapple, canned in juice	93	18	0	17	2.7	1.3	1.7	7.8	2.4	0.7	3
sweet cherries, raw	94	12	0	9	2.5	0.5	2.0	3.2	2.6	0.7	3
raisins, dried	95	18	0	0	18.5	3.4	13.8	28.4	18.3	0.9	3
prunes, dried	96	18	0	0	8.9	1.7	6.7	14.2	8.8	0.9	3
avocado, raw	97	18	0	1	4.8	1.2	3.0	7.3	4.8	0.9	3
orange juice, from frozen concentrate	98	18	1	17	0.9	0.3	0	1.4	0.8	0.5	2
apple juice, bottled	99	18	0	15	1.3	0.5	0.6	2.4	1.2	0.5	2
grapefruit juice, from frozen concentrate	100	18	1	17	1.0	0.4	0	1.7	0.9	0.5	2
prune juice, bottled	103	18	0	1	6.2	4.0	1.8	18.5	5.4	0.5	2
lemonade, from frozen concentrate	105	18	16	2	0.1	0.4	0	1.8	0	0.5	2
spinach, fresh/frozen, boiled	107	18	0	0	21.9	13.2	10.8	64.0	17.1	0.5	2
collards, fresh/frozen, boiled	108	18	0	0	8.2	3.1	4.8	18.7	7.7	0.5	2
iceberg lettuce, raw	109	18	0	2	3.2	1.4	1.3	6.9	2.4	0.5	2
cabbage, fresh, boiled	110	18	0	15	1.7	0.5	1.0	3.2	1.7	0.5	2
coleslaw with dressing, homemade	111	18	0	11	3.1	0.5	2.4	3.9	2.9	0.9	3
sauerkraut, canned	112	18	0	2	4.3	1.3	2.5	7.1	4.0	0.7	3
broccoli, fresh/frozen, boiled	113	18	0	1	3.9	0.7	3.0	5.7	3.7	0.7	3
celery, raw	114	18	1	17	1.0	0.4	0	1.6	1.0	0.7	3
asparagus, fresh/frozen, boiled	115	18	0	1	4.9	1.2	3.0	7.4	4.7	0.7	3
cauliflower, fresh/frozen, boiled	116	18	0	13	2.6	0.5	1.7	3.5	2.6	0.7	3
tomato, red, raw	117	18	0	14	2.4	0.6	1.5	3.8	2.3	0.7	3
tomato sauce, plain, bottled	119	18	0	0	8.2	2.6	4.8	13.2	8.0	0.7	3
green beans, fresh/frozen, boiled	121	18	0	0	6.0	1.3	4.3	9.6	5.9	0.7	3
cucumber, raw	123	18	0	18	1.6	0.3	1.0	2.1	1.5	0.7	3
summer squash, fresh/frozen, boiled	124	18	0	13	2.8	0.5	1.9	3.7	2.8	0.7	3
green pepper, raw	125	18	0	11	2.8	0.6	1.9	3.8	2.6	0.7	3
winter squash, fresh/frozen, baked, mashed	126	18	1	6	3.5	2.1	0	10.5	3.1	0.7	3
onion, mature, raw	128	18	1	16	1.7	0.8	0	3.1	1.7	0.7	3
radish, raw	132	18	0	12	2.8	1.3	1.2	5.7	2.7	0.7	3
French fries, frozen, heated	134	18	0	0	6.0	1.1	4.2	9.2	6.1	0.8	3
mashed potatoes, from flakes	135	18	0	14	2.6	0.5	1.6	3.5	2.6	0.8	3
white potato, boiled without skin	136	18	0	0	2.9	0.5	2.1	4.2	3.0	0.6	2
white potato, baked with skin	137	18	0	0	9.1	5.2	2.9	26.0	7.7	0.6	2
potato chips	138	18	0	0	14.4	2.7	10.7	21.3	14.0	0.8	3

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Iron - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	5	3.3	0.7	2.3	4.4	3.2	0.8	3
sweet potato, fresh, baked	140	18	0	0	4.2	0.8	2.7	5.7	4.0	0.6	2
spaghetti with tomato sauce and meatballs, homemade	142	18	0	0	13.6	2.7	8.1	18.6	13.7	0.7	3
beef stew with potatoes, carrots, and onion, homemade	143	18	0	0	9.9	1.9	7.0	14.0	10.0	0.7	3
macaroni and cheese, from box mix	146	18	0	0	8.9	2.2	4.7	13.5	8.6	0.8	3
quarter-pound hamburger on bun, fast-food	147	18	0	0	24.6	4.4	13.2	31.8	26.1	0.7	3
meatloaf, homemade	148	18	0	0	23.2	4.9	12.6	29.6	23.8	0.7	3
spaghetti with tomato sauce, canned	149	18	0	0	9.0	2.3	6.8	17.1	8.3	0.7	3
lasagna with meat, homemade	151	18	0	0	13.2	2.2	7.8	18.0	13.2	0.7	3
chicken potpie, frozen, heated	152	18	0	0	9.3	2.1	6.4	15.7	9.2	0.6	2
chicken noodle soup, canned, condensed, prepared with water	155	18	0	8	2.1	0.7	0.8	4.3	2.0	0.6	2
tomato soup, canned, condensed, prepared with water	156	18	0	0	3.8	1.0	2.5	6.2	3.7	0.6	2
vegetable beef soup, canned, condensed, prepared with water	157	18	0	5	3.8	1.4	1.2	6.7	3.8	0.7	3
white sauce, homemade	160	18	0	0	4.2	1.1	2.4	7.2	4.1	0.5	2
dill cucumber pickles	161	18	1	7	3.1	1.2	0	4.9	3.4	0.7	3
margarine, stick, regular (salted)	162	18	15	3	0.2	0.4	0	1.5	0	0.8	3
butter, regular (salted)	164	18	15	3	0.2	0.4	0	1.5	0	0.8	3
mayonnaise, regular, bottled	166	18	0	13	2.6	0.5	1.2	3.5	2.6	0.9	3
half & half cream	167	18	17	1	0.1	0.3	0	1.1	0	0.7	3
cream substitute, frozen	168	18	5	13	0.7	0.5	0	1.8	0.8	0.7	3
white sugar, granulated	169	18	16	2	0.1	0.3	0	0.9	0	0.8	3
pancake syrup	170	18	12	6	0.3	0.5	0	1.2	0	0.8	3
honey	172	18	0	6	4.2	2.0	1.2	8.3	3.5	0.8	3
tomato catsup	173	18	0	0	4.7	0.8	3.5	6.8	4.7	0.6	2
chocolate pudding, from instant mix	175	18	0	1	5.6	2.1	1.6	10.1	5.4	0.7	3
vanilla flavored light ice cream	177	18	6	11	1.0	1.3	0	5.7	0.8	0.7	3
chocolate cake with chocolate icing, commercial	178	18	0	0	19.1	4.4	7.0	26.7	19.5	0.9	3
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	3	8.0	3.7	0.9	15.5	8.9	0.8	3
sweet roll/Danish, commercial	182	18	0	0	19.4	3.5	12.5	30.1	19.0	0.9	3
chocolate chip cookies, commercial	183	18	0	0	31.1	4.7	22.4	38.6	31.1	0.8	3
sandwich cookies with creme filling, commercial	184	18	0	0	38.5	16.4	14.1	76.8	43.8	0.8	3



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Iron - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	0	6.4	1.9	3.3	9.1	6.3	0.8	3
pumpkin pie, fresh/frozen, commercial	186	18	0	0	9.2	1.9	6.7	14.3	8.9	0.8	3
milk chocolate candy bar, plain	187	18	0	0	13.0	3.1	7.7	19.8	12.4	0.8	3
caramel candy	188	18	5	13	1.2	0.9	0	2.5	1.2	0.8	3
gelatin dessert, any flavor	190	18	14	4	0.2	0.4	0	1.0	0	0.7	3
cola carbonated beverage	191	18	17	1	0.0	0.2	0	0.7	0	0.6	2
fruit drink, from powder	193	18	18	0	0	0	0	0	0	0.5	2
low-calorie cola carbonated beverage	194	18	18	0	0	0	0	0	0	0.5	2
coffee, decaffeinated, from instant	196	18	3	12	0.6	0.4	0	1.7	0.5	0.3	1
tea, from tea bag	197	18	18	0	0	0	0	0	0	0.3	1
beer	198	18	18	0	0	0	0	0	0	0.5	2
dry table wine	199	18	1	3	2.8	1.4	0	7.0	2.6	0.4	2
whiskey	200	18	17	1	0.0	0.1	0	0.4	0	0.3	1
tap water	201	18	15	3	0.0	0.1	0	0.4	0	0.13	0.5
milk-based infant formula, high iron, ready-to-feed	202	18	0	0	13.6	1.6	11.6	18.2	13.2	0.7	3
milk-based infant formula, low iron, ready-to-feed	203	18	0	14	2.6	0.7	1.3	4.0	2.5	0.7	3
beef, strained/junior	205	18	0	0	14.2	1.8	8.2	16.5	14.5	0.7	3
chicken, strained/junior	207	18	0	0	11.1	1.4	9.2	14.0	11.3	0.7	3
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	0	7.0	0	7.0	7.0	7.0	0.7	3
beef with vegetables, high/lean meat, strained/junior	209	2	0	0	7.2	1.4	6.2	8.2	7.2	0.7	3
ham with vegetables, high/lean meat, strained/junior	210	2	0	0	6.0	1.6	4.8	7.1	6.0	0.7	3
vegetables and beef, strained/junior	211	18	0	4	3.7	0.9	2.1	5.4	3.6	0.7	3
vegetables and chicken, strained/junior	212	18	0	5	3.4	0.7	2.1	4.8	3.6	0.7	3
vegetables and ham, strained/junior	213	18	1	10	2.5	0.9	0	4.2	2.6	0.7	3
chicken noodle dinner, strained/junior	214	18	0	2	4.0	1.1	2.0	6.5	3.7	0.7	3
macaroni, tomatoes, and beef, strained/junior	215	18	0	2	4.1	0.8	2.0	5.3	4.2	0.7	3
turkey and rice, strained/junior	216	18	0	10	3.0	0.6	2.0	4.0	2.9	0.7	3
carrots, strained/junior	218	18	1	16	2.1	0.7	0	3.2	2.3	0.7	3
green beans, strained/junior	219	18	0	0	5.5	0.9	3.8	6.8	5.7	0.7	3
mixed vegetables, strained/junior	220	18	0	9	3.2	1.2	1.0	6.1	3.0	0.7	3
sweet potatoes, strained/junior	221	18	0	12	2.8	0.4	2.2	3.6	2.7	0.7	3

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Iron - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	1	17	1.3	0.5	0	2.3	1.2	0.7	3
peas, strained/junior	223	18	0	0	10.3	1.1	8.6	12.6	10.4	0.7	3
creamed spinach, strained/junior	224	18	0	0	8.2	1.8	5.8	12.8	7.8	0.7	3
applesauce, strained/junior	225	18	2	16	1.0	0.5	0	1.8	1.1	0.7	3
peaches, strained/junior	226	18	0	17	1.7	0.5	0.9	3.4	1.5	0.7	3
pears, strained/junior	227	18	0	18	1.5	0.5	0.8	2.8	1.3	0.7	3
apple juice, strained	230	18	10	8	0.5	0.6	0	1.6	0	0.7	3
orange juice, strained	231	18	0	18	1.1	0.1	0.8	1.3	1.0	0.7	3
custard pudding, strained/junior	232	18	1	17	1.7	0.7	0	2.9	1.7	0.7	3
fruit dessert/pudding, strained/junior	233	18	0	18	1.3	0.3	0.9	1.8	1.3	0.7	3
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	7	11	0.7	0.7	0	2.2	0.9	0.7	3
Swiss cheese	236	18	0	16	2.0	0.6	1.3	3.2	1.8	0.9	3
cream cheese	237	18	7	10	0.9	1.1	0	4.3	0.9	0.9	3
veal cutlet, pan-cooked	238	18	0	0	9.8	2.3	4.3	14.1	9.6	0.7	3
ham luncheon meat, sliced	239	18	0	0	7.0	1.5	3.7	8.7	7.1	0.7	3
chicken breast, roasted	240	18	0	0	5.2	1.2	3.7	9.2	5.0	0.7	3
chicken nuggets, fast-food	241	18	0	0	7.3	1.9	4.0	11.9	7.6	0.7	3
chicken, fried (breast, leg, and thigh), fast-food	242	18	0	0	9.9	2.8	5.8	19.0	9.5	0.7	3
haddock, pan-cooked	243	18	0	18	1.7	0.4	1.0	2.5	1.7	0.8	3
shrimp, boiled	244	18	0	3	14.3	15.1	1.8	51.9	8.6	0.8	3
kidney beans, dry, boiled	245	18	0	0	19.8	3.0	13.3	25.3	19.7	0.7	3
peas, mature, dry, boiled	246	18	0	0	17.1	3.2	13.4	28.2	16.4	0.7	3
mixed nuts, no peanuts, dry roasted	247	18	0	0	41.6	7.2	25.5	63.0	41.9	0.9	3
cracked wheat bread	248	18	0	0	31.8	3.2	25.6	38.6	31.4	0.7	3
bagel, plain	249	18	0	0	30.3	5.6	16.9	37.2	30.9	0.9	3
English muffin, plain, toasted	250	18	0	0	33.8	7.0	14.3	43.4	33.8	0.8	3
graham crackers	251	18	0	0	35.4	7.2	23.1	51.2	34.3	0.7	3
butter-type crackers	252	18	0	0	38.4	5.4	30.8	47.5	37.6	0.7	3
apricot, raw	253	13	0	2	4.1	0.9	2.8	6.2	4.1	0.7	3
peach, canned in light/medium syrup	254	18	0	16	4.9	11.6	1.4	51.5	2.2	0.7	3
pear, canned in light syrup	255	18	0	16	3.9	7.8	1.1	34.9	1.9	0.7	3
pineapple juice, from frozen concentrate	256	18	0	15	1.6	0.3	1.2	2.2	1.5	0.5	2
grape juice, from frozen concentrate	257	18	3	14	0.9	0.7	0	3.3	0.8	0.5	2
French fries, fast-food	258	18	0	0	9.1	1.5	6.1	11.8	9.0	0.8	3
carrot, fresh, boiled	259	18	0	18	2.0	0.4	1.2	2.6	2.1	0.7	3

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Iron - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	0	0	13.6	7.8	4.2	39.9	11.3	0.7	3
tomato juice, bottled	261	18	0	8	3.6	2.2	1.9	11.8	3.1	0.7	3
beets, fresh/frozen, boiled	262	18	0	1	4.2	1.0	2.9	6.6	3.9	0.7	3
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	4.8	0.8	3.3	6.6	4.7	0.7	3
mushrooms, raw	264	18	1	17	1.6	0.5	0	2.4	1.6	0.7	3
eggplant, fresh, boiled	265	18	0	14	2.5	0.6	1.7	3.6	2.4	0.7	3
turnip, fresh/frozen, boiled	266	18	0	18	1.8	0.3	1.3	2.5	1.7	0.7	3
okra, fresh/frozen, boiled	267	18	0	12	2.8	0.7	1.2	4.0	2.7	0.7	3
mixed vegetables, frozen, boiled	268	18	0	0	7.6	1.5	4.7	11.0	7.6	0.7	3
beef stroganoff, homemade	269	18	0	0	15.6	2.2	12.4	19.2	15.6	0.7	3
green peppers stuffed with beef and rice, homemade	270	18	0	0	10.4	2.5	7.4	18.0	9.7	0.7	3
chili con carne with beans, homemade	271	18	0	0	18.3	3.5	12.2	25.3	17.9	0.7	3
tuna noodle casserole, homemade	272	17	0	0	7.0	1.6	4.4	10.0	7.0	0.8	3
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	17	0	0	9.0	1.4	7.2	12.1	8.4	0.7	3
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	17	0	0	8.0	1.3	6.3	11.0	7.7	0.7	3
quarter-pound cheeseburger on bun, fast-food	275	17	0	0	21.4	3.4	14.6	28.9	21.3	0.7	3
fish sandwich on bun, fast-food	276	18	0	0	13.9	1.7	11.0	17.4	13.5	0.8	3
frankfurter on bun, fast-food	277	18	0	0	20.7	3.9	12.8	29.5	20.6	0.9	3
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	22.9	2.6	18.7	30.0	22.9	0.7	3
taco/tostada, from Mexican carry-out	279	18	0	0	15.9	2.4	13.1	22.1	15.8	0.7	3
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	23.2	4.0	16.6	30.1	24.2	0.8	3
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	22.8	4.0	17.1	30.7	22.9	0.8	3
beef chow mein, from Chinese carry-out	282	18	0	0	12.3	5.7	4.4	25.6	10.8	0.7	3
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	9.2	1.2	7.5	11.7	8.8	0.7	3
mushroom soup, canned, condensed, prepared with whole milk	284	18	0	18	1.4	0.3	0.7	2.2	1.4	0.7	3

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Iron - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	0	1	4.6	1.2	2.7	7.7	4.5	0.8	3
vanilla ice cream	286	18	7	11	0.7	0.7	0	2.6	0.9	0.7	3
fruit flavor sherbet	287	18	11	7	0.3	0.5	0	1.2	0	0.7	3
popsicle, any flavor	288	18	12	5	0.8	1.9	0	8.2	0	0.7	3
chocolate snack cake with chocolate icing	289	18	0	0	22.7	4.9	15.9	32.3	22.0	0.9	3
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	16.7	3.2	12.4	22.5	15.7	0.8	3
brownies, commercial	291	18	0	0	24.8	3.4	18.8	30.5	24.8	0.8	3
sugar cookies, commercial	292	18	0	0	22.6	6.8	12.9	40.5	21.6	0.8	3
suckers, any flavor	293	18	0	11	2.9	1.7	1.3	6.6	2.2	0.8	3
pretzels, hard, salted, any shape	294	18	0	0	39.4	14.6	12.7	61.0	40.2	0.8	3
chocolate syrup dessert topping	295	18	0	0	16.3	4.1	10.7	24.1	15.3	0.8	3
jelly, any flavor	296	18	0	15	1.9	1.0	0.9	5.2	1.6	0.8	3
sweet cucumber pickles	297	18	0	6	3.4	1.1	1.6	5.1	3.6	0.7	3
yellow mustard	298	18	0	0	14.7	1.9	12.3	20.8	14.3	0.7	3
black olives	299	18	0	0	38.5	13.5	12.0	57.0	36.8	0.7	3
sour cream	300	18	14	4	0.2	0.3	0	0.9	0	0.7	3
brown gravy, homemade	301	18	0	0	12.5	5.8	5.9	25.6	11.2	0.7	3
French salad dressing, regular	302	18	0	17	1.9	0.6	1.2	3.0	1.8	0.8	3
Italian salad dressing, low-calorie	303	18	5	13	0.9	0.7	0	2.3	1.0	0.8	3
olive/safflower oil	304	18	9	9	0.7	0.8	0	2.1	0.4	0.8	3
coffee, from ground	305	18	18	0	0	0	0	0	0	0.5	2
fruit-flavored carbonated beverage	306	18	18	0	0	0	0	0	0	0.5	2
fruit drink, canned	307	18	4	14	0.9	0.6	0	1.7	1.0	0.5	2
martini	308	18	16	2	0.0	0.1	0	0.4	0	0.3	1
soy-based infant formula, ready-to-feed	309	18	0	0	12.0	2.0	5.8	15.2	12.5	0.7	3
egg yolk, strained/junior	310	12	0	0	29.7	3.4	19.9	32.9	30.6	0.7	3
rice infant cereal, instant, prepared with whole milk	311	18	0	0	117	38.8	54.0	191	114	0.7	3
rice cereal, strained/junior	312	18	0	0	59.6	11.1	36.1	74.0	58.4	0.7	3
bananas with tapioca, strained/junior	313	18	0	18	1.5	0.5	0.8	2.9	1.6	0.7	3
beets, strained/junior	314	15	0	6	3.1	0.5	2.2	3.7	3.2	0.7	3
split peas with vegetables and ham/bacon	316	18	0	7	3.1	0.9	1.7	4.8	3.2	0.7	3
teething biscuits	317	18	0	0	29.0	5.0	23.4	40.0	27.3	0.7	3

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Magnesium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		4682	90	85	208	275	0	2940	139		
whole milk, fluid	1	18	0	0	100	12	69	116	103	3	10
lowfat (2% fat) milk, fluid	2	18	0	0	111	7	96	125	111	3	10
chocolate milk, fluid	3	18	0	0	140	19	78	173	143	3	10
skim milk, fluid	4	18	0	0	114	15	96	164	113	3	10
plain yogurt, lowfat	6	18	0	0	157	11	136	175	157	3	10
chocolate milk shake, fast-food	7	18	0	0	170	19	132	203	170	3	10
evaporated milk, canned	8	18	0	0	211	12	194	238	211	3	10
American, processed cheese	10	18	0	0	270	30	208	330	267	4	14
cottage cheese, 4% milkfat	11	18	0	0	81	11	60	105	79	4	14
cheddar cheese	12	18	0	0	284	37	165	359	288	4	14
ground beef, pan-cooked	13	18	0	0	227	19	189	268	228	3	10
beef chuck roast, baked	14	18	0	0	241	20	208	305	241	3	10
beef steak, loin, pan-cooked	16	18	0	0	269	28	234	318	265	3	10
ham, baked	17	18	0	0	195	25	119	243	195	3	10
pork chop, pan-cooked	18	18	0	0	315	28	273	382	304	3	10
pork sausage, pan-cooked	19	18	0	0	203	18	179	238	202	4	14
pork bacon, pan-cooked	20	18	0	0	235	32	181	307	227	4	14
pork roast, baked	21	18	0	0	227	27	183	279	225	4	14
lamb chop, pan-cooked	22	18	0	0	281	25	244	344	276	4	14
chicken, fried (breast, leg, and thigh) homemade	24	18	0	0	266	18	236	295	268	3	10
turkey breast, roasted	26	18	0	0	307	31	260	378	297	3	10
liver, beef, fried	27	18	0	0	229	18	208	266	226	3	10
frankfurters, beef, boiled	28	18	0	0	130	13	110	153	129	4	14
bologna, sliced	29	18	0	0	154	12	135	173	155	4	14
salami, sliced	30	18	0	0	185	20	152	236	184	4	14
tuna, canned in oil	32	18	0	0	289	26	216	326	295	4	12
fish sticks, frozen, heated	34	18	0	0	298	39	237	370	295	4	12
eggs, scrambled	35	18	0	0	119	8	100	130	119	3	10
eggs, fried	36	18	0	0	123	6	115	138	123	3	10
eggs, boiled	37	18	0	0	121	7	109	133	122	3	10
pinto beans, dry, boiled	38	18	0	0	496	49	431	596	478	3	10
pork and beans, canned	39	18	0	0	313	29	244	364	316	3	10
lima beans, immature, frozen, boiled	42	18	0	0	377	53	296	541	371	3	10
green peas, fresh/frozen, boiled	46	18	0	0	212	35	161	264	219	3	10
peanut butter, smooth	47	18	0	0	1740	157	1510	2080	1730	4	14
peanuts, dry roasted	48	18	0	0	1840	92	1710	2000	1860	4	14

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Magnesium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	0	0	89	25	48	145	84	3	10
oatmeal, quick (1-3 min), cooked	51	18	0	0	252	29	207	314	250	3	10
wheat cereal, farina, quick (1-3min), cooked	52	18	0	0	70	52	28	246	55	3	10
corngrits, regular, cooked	53	18	0	0	60	20	29	104	59	3	10
corn, fresh/frozen, boiled	54	18	0	0	185	28	137	239	186	3	10
cream style corn, canned	56	18	0	0	130	17	96	168	132	3	10
popcorn, popped in oil	57	18	0	0	1110	227	740	1450	1080	4	14
white bread	58	18	0	0	223	32	157	290	228	4	14
white roll	59	18	0	0	256	32	192	323	257	4	14
cornbread, homemade	60	18	0	0	186	41	118	253	190	3	10
biscuit, from refrigerated dough, baked	61	18	0	0	165	15	139	187	163	3	10
whole wheat bread	62	18	0	0	737	87	600	870	736	3	10
tortilla, flour	63	18	0	0	219	58	168	377	200	4	12
rye bread	64	18	0	0	364	54	222	459	374	3	10
blueberry muffin, commercial	65	18	0	0	120	22	71	155	124	3	10
saltine crackers	66	18	0	0	240	19	207	269	239	3	10
corn chips	67	18	0	0	789	69	650	965	780	3	10
pancake from mix	68	18	0	0	176	45	106	292	175	3	10
egg noodles, boiled	69	18	0	0	184	34	110	259	186	4	14
macaroni, boiled	70	18	0	0	164	15	146	202	160	3	10
corn flakes	71	18	0	0	85	16	60	127	86	3	10
fruit-flavored, sweetened cereal	72	18	0	0	283	51	232	455	272	3	10
shredded wheat cereal	73	18	0	0	1210	64	1090	1290	1200	3	10
raisin bran cereal	74	18	0	0	1430	152	1120	1770	1420	3	10
crisped rice cereal	75	18	0	0	313	28	268	354	305	3	10
granola cereal	76	18	0	0	920	133	735	1250	872	3	10
oat ring cereal	77	18	0	0	1170	62	1080	1300	1170	3	10
apple, red, raw	78	18	0	0	50	4	41	55	50	3	10
orange, raw	79	18	0	0	107	9	94	128	106	3	8
banana, raw	80	18	0	0	295	20	261	341	292	3	8
watermelon, raw	81	18	0	0	99	17	56	120	103	3	8
peach, raw	83	18	0	0	87	6	75	99	87	3	8
applesauce, bottled	84	18	0	0	29	3	26	34	29	3	8
pear, raw	85	18	0	0	68	6	55	77	69	3	8
strawberries, raw	86	18	0	0	123	9	107	140	123	3	8
fruit cocktail, canned in heavy syrup	87	18	0	0	53	4	47	61	52	3	10
grapes, red/green, seedless, raw	88	18	0	0	70	9	57	92	70	3	8

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Magnesium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	0	0	111	16	81	137	111	3	8
plums, raw	91	18	0	0	69	5	62	81	68	3	8
grapefruit, raw	92	18	0	0	89	10	76	112	87	3	8
pineapple, canned in juice	93	18	0	0	147	22	116	199	146	3	10
sweet cherries, raw	94	12	0	0	131	9	112	144	130	3	10
raisins, dried	95	18	0	0	327	24	267	381	330	4	14
prunes, dried	96	18	0	0	419	30	358	472	424	4	14
avocado, raw	97	18	0	0	297	35	225	344	293	4	14
orange juice, from frozen concentrate	98	18	0	0	103	18	67	137	106	3	8
apple juice, bottled	99	18	0	0	45	7	37	62	45	3	8
grapefruit juice, from frozen concentrate	100	18	0	0	102	17	70	142	100	3	8
prune juice, bottled	103	18	0	0	136	14	110	168	134	3	8
lemonade, from frozen concentrate	105	18	0	0	14	4	8	26	15	3	8
spinach, fresh/frozen, boiled	107	18	0	0	452	116	219	676	424	3	8
collards, fresh/frozen, boiled	108	18	0	0	209	70	118	352	184	3	8
iceberg lettuce, raw	109	18	0	0	78	14	55	113	75	3	8
cabbage, fresh, boiled	110	18	0	0	81	15	56	112	84	3	8
coleslaw with dressing, homemade	111	18	0	0	100	15	66	122	105	4	14
sauerkraut, canned	112	18	0	0	103	14	82	128	103	3	10
broccoli, fresh/frozen, boiled	113	18	0	0	110	17	75	143	111	3	10
celery, raw	114	18	0	0	92	19	71	147	89	3	10
asparagus, fresh/frozen, boiled	115	18	0	0	100	14	70	122	99	3	10
cauliflower, fresh/frozen, boiled	116	18	0	0	91	14	68	128	90	3	10
tomato, red, raw	117	18	0	0	103	15	75	128	107	3	10
tomato sauce, plain, bottled	119	18	0	0	157	30	107	232	158	3	10
green beans, fresh/frozen, boiled	121	18	0	0	187	43	95	254	179	3	10
cucumber, raw	123	18	0	0	109	21	55	149	109	3	10
summer squash, fresh/frozen, boiled	124	18	0	0	133	31	85	193	135	3	10
green pepper, raw	125	18	0	0	96	17	68	136	99	3	10
winter squash, fresh/frozen, baked, mashed	126	18	1	0	166	51	0	231	167	3	10
onion, mature, raw	128	18	0	0	92	20	53	120	95	3	10
radish, raw	132	18	0	0	82	18	62	131	77	3	10
French fries, frozen, heated	134	18	0	0	241	33	192	299	229	4	12
mashed potatoes, from flakes	135	18	0	0	146	20	118	196	146	4	12
white potato, boiled without skin	136	18	0	0	158	29	132	247	156	3	9
white potato, baked with skin	137	18	0	0	243	38	136	317	247	3	9
potato chips	138	18	0	0	648	74	520	782	645	4	12

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Magnesium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	0	186	23	143	223	183	4	12
sweet potato, fresh, baked	140	18	0	0	225	44	149	295	229	3	9
spaghetti with tomato sauce and meatballs, homemade	142	18	0	0	170	17	126	195	171	3	10
beef stew with potatoes, carrots, and onion, homemade	143	18	0	0	167	16	137	191	165	3	10
macaroni and cheese, from box mix	146	18	0	0	182	35	93	228	186	4	12
quarter-pound hamburger on bun, fast-food	147	18	0	0	220	22	152	245	226	3	10
meatloaf, homemade	148	18	0	0	198	27	123	253	194	3	10
spaghetti with tomato sauce, canned	149	18	0	0	115	23	70	151	115	3	10
lasagna with meat, homemade	151	18	0	0	207	15	177	229	209	3	10
chicken potpie, frozen, heated	152	18	0	0	127	17	92	178	126	3	9
chicken noodle soup, canned, condensed, prepared with water	155	18	0	0	43	8	29	58	41	3	9
tomato soup, canned, condensed, prepared with water	156	18	0	0	68	9	50	80	71	3	9
vegetable beef soup, canned, condensed, prepared with water	157	18	0	0	57	7	43	71	57	3	10
white sauce, homemade	160	18	0	0	111	10	89	129	111	3	8
dill cucumber pickles	161	18	0	0	60	25	15	100	57	3	10
margarine, stick, regular (salted)	162	18	0	8	14	4	9	20	13	4	12
butter, regular (salted)	164	18	0	0	17	2	12	20	18	4	12
mayonnaise, regular, bottled	166	18	0	15	11	2	7	16	11	4	14
half & half cream	167	18	0	0	95	7	80	111	97	3	10
cream substitute, frozen	168	18	0	1	13	3	8	18	14	3	10
white sugar, granulated	169	18	18	0	0	0	0	0	0	4	12
pancake syrup	170	18	0	4	20	7	6	29	23	4	12
honey	172	18	0	8	13	3	9	21	13	4	12
tomato catsup	173	18	0	0	176	18	140	207	178	3	9
chocolate pudding, from instant mix	175	18	0	0	178	21	128	217	178	3	10
vanilla flavored light ice cream	177	18	0	0	146	14	124	176	145	3	10
chocolate cake with chocolate icing, commercial	178	18	0	0	297	53	206	429	283	4	14
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	0	49	11	28	72	49	4	12
sweet roll/Danish, commercial	182	18	0	0	169	21	135	222	172	4	14
chocolate chip cookies, commercial	183	18	0	0	383	65	267	534	391	4	12
sandwich cookies with creme filling, commercial	184	18	0	0	246	102	119	495	224	4	12



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Magnesium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	0	71	8	58	92	69	4	12
pumpkin pie, fresh/frozen, commercial	186	18	0	0	154	13	136	176	152	4	12
milk chocolate candy bar, plain	187	18	0	0	658	56	570	810	654	4	12
caramel candy	188	18	0	0	162	43	74	218	180	4	12
gelatin dessert, any flavor	190	18	16	2	1	2	0	5	0	3	10
cola carbonated beverage	191	18	5	10	5	5	0	19	4	3	9
fruit drink, from powder	193	18	8	1	31	38	0	112	9	3	8
low-calorie cola carbonated beverage	194	18	4	8	6	4	0	14	7	3	8
coffee, decaffeinated, from instant	196	18	0	0	48	14	22	80	48	2	4
tea, from tea bag	197	18	0	0	11	4	7	18	10	2	4
beer	198	18	0	0	58	15	31	99	60	2	7
dry table wine	199	18	0	0	87	19	54	128	84	2	6
whiskey	200	18	17	1	0	0	0	2	0	2	5
tap water	201	18	0	2	8	8	1	26	6	1	2
milk-based infant formula, high iron, ready-to-feed	202	18	0	0	65	10	55	93	65	3	10
milk-based infant formula, low iron, ready-to-feed	203	18	0	0	66	12	54	98	62	3	10
beef, strained/junior	205	18	0	0	133	7	122	144	132	3	10
chicken, strained/junior	207	18	0	0	152	13	127	182	148	3	10
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	0	88	1	87	89	88	3	10
beef with vegetables, high/lean meat, strained/junior	209	2	0	0	90	4	87	93	90	3	10
ham with vegetables, high/lean meat, strained/junior	210	2	0	0	117	11	109	125	117	3	10
vegetables and beef, strained/junior	211	18	0	0	85	26	40	135	88	3	10
vegetables and chicken, strained/junior	212	18	0	0	81	21	46	132	82	3	10
vegetables and ham, strained/junior	213	18	0	0	73	18	46	117	74	3	10
chicken noodle dinner, strained/junior	214	18	0	0	85	15	59	137	84	3	10
macaroni, tomatoes, and beef, strained/junior	215	18	0	0	92	10	74	106	93	3	10
turkey and rice, strained/junior	216	18	0	0	76	16	43	99	75	3	10
carrots, strained/junior	218	18	0	0	96	18	71	140	97	3	10
green beans, strained/junior	219	18	0	0	172	43	101	251	160	3	10
mixed vegetables, strained/junior	220	18	0	0	105	23	61	149	108	3	10
sweet potatoes, strained/junior	221	18	0	0	152	14	133	178	150	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Magnesium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	0	0	89	13	62	112	90	3	10
peas, strained/junior	223	18	0	0	194	19	153	223	197	3	10
creamed spinach, strained/junior	224	18	0	0	396	75	223	525	399	3	10
applesauce, strained/junior	225	18	0	0	41	5	36	56	40	3	10
peaches, strained/junior	226	18	0	0	72	8	61	86	71	3	10
pears, strained/junior	227	18	0	0	73	9	65	106	71	3	10
apple juice, strained	230	18	0	0	44	8	32	60	42	3	10
orange juice, strained	231	18	0	0	113	10	102	138	111	3	10
custard pudding, strained/junior	232	18	0	0	59	9	40	74	60	3	10
fruit dessert/pudding, strained/junior	233	18	0	0	58	9	37	70	58	3	10
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	0	0	130	15	102	152	132	3	10
Swiss cheese	236	18	0	0	378	18	356	423	377	4	14
cream cheese	237	18	0	0	79	18	45	121	79	4	14
veal cutlet, pan-cooked	238	18	0	0	340	54	187	401	349	3	10
ham luncheon meat, sliced	239	18	0	0	176	28	114	214	183	3	10
chicken breast, roasted	240	18	0	0	285	28	233	322	292	3	10
chicken nuggets, fast-food	241	18	0	0	252	39	184	358	255	3	10
chicken, fried (breast, leg, and thigh), fast-food	242	18	0	0	236	33	142	306	235	3	10
haddock, pan-cooked	243	18	0	0	330	53	249	403	330	4	12
shrimp, boiled	244	18	0	0	426	143	167	880	398	4	12
kidney beans, dry, boiled	245	18	0	0	423	31	366	461	426	3	10
peas, mature, dry, boiled	246	18	0	0	414	50	338	509	405	3	10
mixed nuts, no peanuts, dry roasted	247	18	0	0	2380	335	1380	2940	2430	4	14
cracked wheat bread	248	18	0	0	479	99	347	720	457	3	10
bagel, plain	249	18	0	0	255	27	178	293	257	4	14
English muffin, plain, toasted	250	18	0	0	244	29	176	286	248	4	12
graham crackers	251	18	0	0	322	78	203	431	325	3	10
butter-type crackers	252	18	0	0	195	17	160	221	195	3	10
apricot, raw	253	13	0	0	103	13	87	137	100	3	10
peach, canned in light/medium syrup	254	18	0	0	52	8	41	65	52	3	10
pear, canned in light syrup	255	18	0	0	47	7	37	61	46	3	10
pineapple juice, from frozen concentrate	256	18	0	0	136	15	115	174	133	3	8
grape juice, from frozen concentrate	257	18	0	0	60	28	18	126	59	3	8
French fries, fast-food	258	18	0	0	344	32	293	385	346	4	12
carrot, fresh, boiled	259	18	0	0	87	19	61	130	82	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Magnesium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	0	0	115	12	84	145	115	3	10
tomato juice, bottled	261	18	0	0	112	20	75	147	111	3	10
beets, fresh/frozen, boiled	262	18	0	0	235	66	155	425	227	3	10
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	182	36	107	248	185	3	10
mushrooms, raw	264	18	0	0	77	13	51	95	82	3	10
eggplant, fresh, boiled	265	18	0	0	96	9	75	117	97	3	10
turnip, fresh/frozen, boiled	266	18	0	0	86	17	52	121	83	3	10
okra, fresh/frozen, boiled	267	18	0	0	359	75	184	489	348	3	10
mixed vegetables, frozen, boiled	268	18	0	0	182	28	131	235	182	3	10
beef stroganoff, homemade	269	18	0	0	187	22	134	217	187	3	10
green peppers stuffed with beef and rice, homemade	270	18	0	0	121	19	79	165	121	3	10
chili con carne with beans, homemade	271	18	0	0	252	27	187	298	252	3	10
tuna noodle casserole, homemade	272	17	0	0	147	18	103	178	151	4	12
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	18	0	0	188	15	166	213	184	3	10
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	17	0	0	162	12	145	192	161	3	10
quarter-pound cheeseburger on bun, fast-food	275	18	0	0	222	23	179	292	219	3	10
fish sandwich on bun, fast-food	276	18	0	0	244	25	198	293	242	4	12
frankfurter on bun, fast-food	277	18	0	0	192	20	154	230	188	4	14
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	209	15	186	245	205	3	10
taco/tostada, from Mexican carry-out	279	18	0	0	338	33	272	406	342	3	10
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	283	25	235	321	285	4	12
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	274	24	242	318	273	4	12
beef chow mein, from Chinese carry-out	282	18	0	0	126	30	66	178	132	3	10
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	205	17	177	252	205	3	10
mushroom soup, canned, condensed, prepared with whole milk	284	18	0	0	78	8	67	93	77	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Magnesium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	0	0	122	13	96	153	119	4	12
vanilla ice cream	286	18	0	0	127	14	106	159	124	3	10
fruit flavor sherbet	287	18	0	0	53	7	37	64	54	3	10
popsicle, any flavor	288	18	0	1	19	8	8	37	16	3	10
chocolate snack cake with chocolate icing	289	18	0	0	363	78	238	491	356	4	14
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	171	32	112	234	173	4	12
brownies, commercial	291	18	0	0	387	40	328	472	388	4	12
sugar cookies, commercial	292	18	0	0	123	16	80	154	123	4	12
suckers, any flavor	293	18	0	2	21	7	5	34	20	4	12
pretzels, hard, salted, any shape	294	18	0	0	295	46	194	385	302	4	12
chocolate syrup dessert topping	295	18	0	0	492	46	413	576	498	4	12
jelly, any flavor	296	18	0	0	56	11	34	76	54	4	12
sweet cucumber pickles	297	18	0	0	47	16	10	72	48	3	10
yellow mustard	298	18	0	0	499	28	438	566	498	3	10
black olives	299	18	0	0	44	9	31	63	44	3	10
sour cream	300	18	0	0	110	17	77	146	107	3	10
brown gravy, homemade	301	18	0	0	194	75	93	337	192	3	10
French salad dressing, regular	302	18	0	0	58	10	45	78	56	4	12
Italian salad dressing, low-calorie	303	18	0	1	32	9	9	48	33	4	12
olive/safflower oil	304	18	17	1	0	2	0	7	0	4	12
coffee, from ground	305	18	0	0	26	9	15	41	23	3	8
fruit-flavored carbonated beverage	306	18	3	11	5	3	0	11	5	3	8
fruit drink, canned	307	18	0	0	32	18	12	71	26	3	8
martini	308	18	1	9	4	2	0	7	4	2	4
soy-based infant formula, ready-to-feed	309	18	0	0	73	10	53	89	74	3	10
egg yolk, strained/junior	310	12	0	0	76	5	71	90	75	3	10
rice infant cereal, instant, prepared with whole milk	311	18	0	0	189	41	74	258	192	3	10
rice cereal, strained/junior	312	18	0	0	50	11	26	68	53	3	10
bananas with tapioca, strained/junior	313	18	0	0	123	24	65	175	123	3	10
beets, strained/junior	314	15	0	0	216	27	170	257	212	3	10
split peas with vegetables and ham/bacon	316	18	0	0	93	22	62	148	87	3	10
teething biscuits	317	18	0	0	423	171	236	790	374	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Calcium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4678</b>	<b>37</b>	<b>64</b>	<b>469</b>	<b>834</b>	<b>0</b>	<b>9890</b>	<b>206</b>		
whole milk, fluid	1	18	0	0	958	220	261	1160	1030	3	10
lowfat (2% fat) milk, fluid	2	18	0	0	1060	195	366	1240	1100	3	10
chocolate milk, fluid	3	18	0	0	957	162	456	1200	985	3	10
skim milk, fluid	4	18	0	0	1090	252	482	1750	1100	3	10
plain yogurt, lowfat	6	18	0	0	1550	282	640	1880	1650	3	10
chocolate milk shake, fast-food	7	18	0	0	1170	238	348	1450	1230	3	10
evaporated milk, canned	8	18	0	0	2070	406	920	3070	2070	3	10
American, processed cheese	10	18	0	0	5510	449	4420	6300	5560	4	20
cottage cheese, 4% milkfat	11	18	0	0	719	74	580	855	720	4	20
cheddar cheese	12	17	0	0	6880	804	4280	7720	7130	4	20
ground beef, pan-cooked	13	18	0	0	149	32	101	221	141	3	10
beef chuck roast, baked	14	18	0	0	93	40	44	180	84	3	10
beef steak, loin, pan-cooked	16	18	0	0	99	41	55	199	97	3	10
ham, baked	17	18	0	0	63	15	43	91	59	3	10
pork chop, pan-cooked	18	18	0	0	693	311	387	1660	618	3	10
pork sausage, pan-cooked	19	18	0	0	183	57	90	275	181	4	20
pork bacon, pan-cooked	20	18	0	0	105	22	74	148	100	4	20
pork roast, baked	21	18	0	0	106	84	50	419	80	4	20
lamb chop, pan-cooked	22	18	0	0	366	121	186	704	348	4	20
chicken, fried (breast, leg, and thigh) homemade	24	18	0	0	183	119	101	543	127	3	10
turkey breast, roasted	26	18	0	0	80	29	42	163	73	3	10
liver, beef, fried	27	18	0	0	50	8	41	63	49	3	10
frankfurters, beef, boiled	28	18	0	0	200	141	108	593	149	4	20
bologna, sliced	29	18	0	0	532	331	119	1220	479	4	20
salami, sliced	30	18	0	0	362	204	103	789	307	4	20
tuna, canned in oil	32	18	0	0	122	49	75	252	109	4	20
fish sticks, frozen, heated	34	18	0	0	225	43	158	309	210	4	20
eggs, scrambled	35	18	0	0	617	77	407	698	636	3	10
eggs, fried	36	18	0	0	545	82	354	719	525	3	10
eggs, boiled	37	18	0	0	618	203	410	1240	544	3	10
pinto beans, dry, boiled	38	18	0	0	456	55	335	538	453	3	10
pork and beans, canned	39	18	0	0	417	73	302	610	404	3	10
lima beans, immature, frozen, boiled	42	18	0	0	244	33	206	326	242	3	10
green peas, fresh/frozen, boiled	46	18	0	0	232	35	172	303	229	3	10
peanut butter, smooth	47	18	0	0	432	44	357	515	426	4	20
peanuts, dry roasted	48	18	0	0	456	51	393	594	452	4	20

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Calcium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	0	0	54	25	25	127	50	3	10
oatmeal, quick (1-3 min), cooked	51	18	0	0	137	117	73	524	91	3	10
wheat cereal, farina, quick (1-3min), cooked	52	18	0	0	237	155	21	589	196	3	10
corngrits, regular, cooked	53	18	4	11	5	6	0	21	4	3	10
corn, fresh/frozen, boiled	54	18	0	0	29	14	12	64	27	3	10
cream style corn, canned	56	18	0	0	32	11	13	57	33	3	10
popcorn, popped in oil	57	18	0	0	43	10	27	63	42	4	20
white bread	58	18	0	0	1030	379	578	2000	1000	4	20
white roll	59	18	0	0	739	322	332	1370	671	4	20
cornbread, homemade	60	18	0	0	1080	285	613	1700	1040	3	10
biscuit, from refrigerated dough, baked	61	18	0	0	367	243	206	1280	298	3	10
whole wheat bread	62	18	0	0	891	268	357	1520	872	3	10
tortilla, flour	63	18	0	0	1350	539	750	2700	1220	4	20
rye bread	64	18	0	0	718	166	446	1060	702	3	10
blueberry muffin, commercial	65	18	0	0	492	134	296	788	470	3	10
saltine crackers	66	18	0	0	950	553	173	1920	948	3	10
corn chips	67	18	0	0	1150	234	600	1540	1150	3	10
pancake from mix	68	18	0	0	1200	333	653	1790	1150	3	10
egg noodles, boiled	69	18	0	0	114	18	87	159	109	4	20
macaroni, boiled	70	18	0	0	67	10	56	94	63	3	10
corn flakes	71	18	0	0	28	8	17	38	29	3	10
fruit-flavored, sweetened cereal	72	18	0	0	279	231	100	850	144	3	10
shredded wheat cereal	73	18	0	0	379	38	296	472	380	3	10
raisin bran cereal	74	18	0	0	461	39	369	540	460	3	10
crisped rice cereal	75	18	0	0	83	41	48	191	61	3	10
granola cereal	76	18	0	0	620	244	365	1440	552	3	10
oat ring cereal	77	18	0	0	1630	224	1200	1900	1620	3	10
apple, red, raw	78	18	0	0	46	8	37	62	44	3	10
orange, raw	79	18	0	0	322	59	204	416	311	3	10
banana, raw	80	18	0	0	51	9	40	69	50	3	10
watermelon, raw	81	18	0	0	72	17	49	105	70	3	10
peach, raw	83	18	0	0	53	14	38	84	52	3	10
applesauce, bottled	84	18	0	0	29	3	26	37	29	3	10
pear, raw	85	18	0	0	91	19	59	121	87	3	10
strawberries, raw	86	18	0	0	149	19	111	184	155	3	10
fruit cocktail, canned in heavy syrup	87	18	0	0	58	9	48	84	57	3	10
grapes, red/green, seedless, raw	88	18	0	0	98	27	64	165	87	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Calcium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	0	0	91	27	53	138	91	3	10
plums, raw	91	18	0	0	51	6	38	60	50	3	10
grapefruit, raw	92	18	0	0	206	55	109	329	201	3	10
pineapple, canned in juice	93	18	0	0	128	36	65	208	127	3	10
sweet cherries, raw	94	12	0	0	137	16	119	177	135	3	10
raisins, dried	95	18	0	0	490	62	338	624	493	4	20
prunes, dried	96	18	0	0	424	43	360	527	416	4	20
avocado, raw	97	18	0	0	129	39	72	218	114	4	20
orange juice, from frozen concentrate	98	18	0	0	109	71	55	386	97	3	10
apple juice, bottled	99	18	0	0	69	33	42	153	59	3	10
grapefruit juice, from frozen concentrate	100	18	0	0	123	28	85	182	116	3	10
prune juice, bottled	103	18	0	0	110	16	81	145	108	3	10
lemonade, from frozen concentrate	105	18	0	0	21	7	10	38	22	3	10
spinach, fresh/frozen, boiled	107	18	0	0	977	250	541	1490	930	3	10
collards, fresh/frozen, boiled	108	18	0	0	1380	356	520	1990	1260	3	10
iceberg lettuce, raw	109	18	0	0	170	45	105	275	166	3	10
cabbage, fresh, boiled	110	18	0	0	308	50	223	426	317	3	10
coleslaw with dressing, homemade	111	18	0	0	301	43	232	378	312	4	20
sauerkraut, canned	112	18	0	0	343	36	280	388	348	3	10
broccoli, fresh/frozen, boiled	113	18	0	0	307	50	235	394	304	3	10
celery, raw	114	18	0	0	324	122	172	581	313	3	10
asparagus, fresh/frozen, boiled	115	18	0	0	182	38	122	264	172	3	10
cauliflower, fresh/frozen, boiled	116	18	0	0	151	23	94	183	149	3	10
tomato, red, raw	117	18	0	0	83	23	57	129	78	3	10
tomato sauce, plain, bottled	119	18	0	0	148	33	95	233	148	3	10
green beans, fresh/frozen, boiled	121	18	0	0	400	65	248	516	387	3	10
cucumber, raw	123	18	0	0	127	25	76	169	123	3	10
summer squash, fresh/frozen, boiled	124	18	0	0	185	47	92	261	180	3	10
green pepper, raw	125	18	0	0	87	30	43	158	82	3	10
winter squash, fresh/frozen, baked, mashed	126	18	1	0	208	58	0	286	214	3	10
onion, mature, raw	128	18	0	0	190	56	102	283	193	3	10
radish, raw	132	18	0	0	194	41	127	272	192	3	10
French fries, frozen, heated	134	18	0	0	98	28	62	167	93	4	20
mashed potatoes, from flakes	135	18	0	0	341	55	280	531	327	4	20
white potato, boiled without skin	136	18	0	0	56	13	33	75	58	3	10
white potato, baked with skin	137	18	0	0	111	31	33	168	110	3	10
potato chips	138	18	0	0	196	36	127	268	193	4	20

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Calcium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	0	508	91	311	724	499	4	20
sweet potato, fresh, baked	140	18	0	0	241	61	136	374	230	3	10
spaghetti with tomato sauce and meatballs, homemade	142	18	0	0	293	45	211	385	300	3	10
beef stew with potatoes, carrots, and onion, homemade	143	18	0	0	132	19	104	164	127	3	10
macaroni and cheese, from box mix	146	18	0	0	558	116	293	753	583	4	20
quarter-pound hamburger on bun, fast-food	147	18	0	0	774	210	286	1090	782	3	10
meatloaf, homemade	148	18	0	0	241	59	135	430	230	3	10
spaghetti with tomato sauce, canned	149	18	0	0	135	23	97	172	134	3	10
lasagna with meat, homemade	151	18	0	0	1180	358	560	1900	1240	3	10
chicken potpie, frozen, heated	152	18	0	0	190	40	121	273	179	3	10
chicken noodle soup, canned, condensed, prepared with water	155	18	0	0	43	7	34	59	43	3	10
tomato soup, canned, condensed, prepared with water	156	18	0	0	60	9	39	79	61	3	10
vegetable beef soup, canned, condensed, prepared with water	157	18	0	0	75	14	47	110	72	3	10
white sauce, homemade	160	18	0	0	913	98	651	1020	943	3	10
dill cucumber pickles	161	18	0	0	457	177	86	806	440	3	10
margarine, stick, regular (salted)	162	18	0	0	54	24	27	129	48	4	20
butter, regular (salted)	164	18	0	0	234	47	91	299	243	4	20
mayonnaise, regular, bottled	166	18	0	0	78	11	58	106	77	4	20
half & half cream	167	18	0	0	885	112	550	1060	907	3	10
cream substitute, frozen	168	18	0	0	39	9	26	58	38	3	10
white sugar, granulated	169	18	5	10	9	10	0	32	6	4	20
pancake syrup	170	18	0	2	33	10	11	48	38	4	20
honey	172	18	0	0	45	8	30	61	44	4	20
tomato catsup	173	18	0	0	159	20	127	204	158	3	10
chocolate pudding, from instant mix	175	18	0	0	912	128	472	1060	952	3	10
vanilla flavored light ice cream	177	18	0	0	1220	225	740	1680	1280	3	10
chocolate cake with chocolate icing, commercial	178	18	0	0	426	168	261	812	359	4	20
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	0	695	161	444	1110	668	4	20
sweet roll/Danish, commercial	182	18	0	0	806	396	248	1660	801	4	20
chocolate chip cookies, commercial	183	18	0	0	272	55	199	398	263	4	20
sandwich cookies with creme filling, commercial	184	18	0	0	214	61	137	341	216	4	20



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Calcium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	0	102	20	83	169	97	4	20
pumpkin pie, fresh/frozen, commercial	186	18	0	0	601	97	469	801	581	4	20
milk chocolate candy bar, plain	187	18	0	0	1880	270	1260	2220	1980	4	20
caramel candy	188	18	0	0	1280	365	493	1890	1280	4	20
gelatin dessert, any flavor	190	18	0	11	11	7	3	28	9	3	10
cola carbonated beverage	191	18	0	0	27	11	12	59	27	3	10
fruit drink, from powder	193	18	0	0	96	48	16	159	98	3	10
low-calorie cola carbonated beverage	194	18	0	0	33	16	15	70	28	3	10
coffee, decaffeinated, from instant	196	18	0	0	25	8	10	47	26	1.2	4
tea, from tea bag	197	18	0	8	7	8	1	23	3	1.2	4
beer	198	18	0	0	42	11	27	62	41	2	10
dry table wine	199	18	1	0	79	23	0	117	81	2	10
whiskey	200	18	13	2	1	1	0	2	0	1.4	5
tap water	201	18	0	0	31	21	6	92	25	0.6	2
milk-based infant formula, high iron, ready-to-feed	202	18	0	0	518	83	365	693	526	3	10
milk-based infant formula, low iron, ready-to-feed	203	18	0	0	528	121	204	770	525	3	10
beef, strained/junior	205	18	0	0	59	32	32	171	47	3	10
chicken, strained/junior	207	18	0	0	1060	284	600	1550	1030	3	10
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	0	210	20	196	224	210	3	10
beef with vegetables, high/lean meat, strained/junior	209	2	0	0	72	4	69	75	72	3	10
ham with vegetables, high/lean meat, strained/junior	210	2	0	0	79	1	78	80	79	3	10
vegetables and beef, strained/junior	211	18	0	0	100	29	57	174	96	3	10
vegetables and chicken, strained/junior	212	18	0	0	232	59	157	351	225	3	10
vegetables and ham, strained/junior	213	18	0	0	100	26	65	167	92	3	10
chicken noodle dinner, strained/junior	214	18	0	0	260	59	184	389	236	3	10
macaroni, tomatoes, and beef, strained/junior	215	18	0	0	149	28	97	196	155	3	10
turkey and rice, strained/junior	216	18	0	0	225	43	124	308	230	3	10
carrots, strained/junior	218	18	0	0	230	29	163	291	229	3	10
green beans, strained/junior	219	18	0	0	344	53	231	429	357	3	10
mixed vegetables, strained/junior	220	18	0	0	150	41	95	253	140	3	10
sweet potatoes, strained/junior	221	18	0	0	147	19	107	174	151	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Calcium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	0	0	176	27	120	208	176	3	10
peas, strained/junior	223	18	0	0	176	27	135	234	175	3	10
creamed spinach, strained/junior	224	18	0	0	1050	193	620	1410	1050	3	10
applesauce, strained/junior	225	18	0	0	39	4	33	47	39	3	10
peaches, strained/junior	226	18	0	0	40	6	28	54	40	3	10
pears, strained/junior	227	18	0	0	91	10	73	105	89	3	10
apple juice, strained	230	18	0	0	47	21	21	98	41	3	10
orange juice, strained	231	18	0	0	118	13	96	137	115	3	10
custard pudding, strained/junior	232	18	0	0	521	100	280	646	543	3	10
fruit dessert/pudding, strained/junior	233	18	0	0	62	8	50	76	62	3	10
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	0	0	1120	277	292	1410	1150	3	10
Swiss cheese	236	17	0	0	7910	1910	4660	9890	8780	4	20
cream cheese	237	18	0	0	720	163	430	1100	697	4	20
veal cutlet, pan-cooked	238	18	0	0	98	57	59	303	76	3	10
ham luncheon meat, sliced	239	18	0	0	51	11	25	66	52	3	10
chicken breast, roasted	240	18	0	0	157	75	80	369	138	3	10
chicken nuggets, fast-food	241	18	0	0	156	45	108	279	146	3	10
chicken, fried (breast, leg, and thigh), fast-food	242	18	0	0	546	641	155	2960	336	3	10
haddock, pan-cooked	243	18	0	0	221	137	83	537	148	4	20
shrimp, boiled	244	18	0	0	1220	407	338	2190	1210	4	20
kidney beans, dry, boiled	245	18	0	0	329	43	263	390	325	3	10
peas, mature, dry, boiled	246	18	0	0	181	45	126	273	173	3	10
mixed nuts, no peanuts, dry roasted	247	18	0	0	1050	186	632	1330	1080	4	20
cracked wheat bread	248	18	0	0	858	294	403	1360	809	3	10
bagel, plain	249	18	0	0	769	602	161	2410	707	4	20
English muffin, plain, toasted	250	18	0	0	1910	1040	865	5420	1820	4	20
graham crackers	251	18	0	0	575	325	259	1340	483	3	10
butter-type crackers	252	18	0	0	1190	288	655	1590	1250	3	10
apricot, raw	253	13	0	0	149	58	89	275	119	3	10
peach, canned in light/medium syrup	254	18	0	0	34	7	25	55	33	3	10
pear, canned in light syrup	255	18	0	0	52	9	41	72	50	3	10
pineapple juice, from frozen concentrate	256	18	0	0	131	26	94	202	131	3	10
grape juice, from frozen concentrate	257	18	0	0	76	32	19	125	77	3	10
French fries, fast-food	258	18	0	0	153	35	90	229	156	4	20
carrot, fresh, boiled	259	18	0	0	265	33	195	320	270	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Calcium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	0	0	315	91	226	531	284	3	10
tomato juice, bottled	261	18	0	0	105	21	72	141	104	3	10
beets, fresh/frozen, boiled	262	18	0	0	129	27	87	186	131	3	10
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	261	37	202	321	259	3	10
mushrooms, raw	264	18	0	0	21	6	11	31	19	3	10
eggplant, fresh, boiled	265	18	0	0	62	11	46	93	59	3	10
turnip, fresh/frozen, boiled	266	18	0	0	332	53	269	445	334	3	10
okra, fresh/frozen, boiled	267	18	0	0	799	165	444	1120	809	3	10
mixed vegetables, frozen, boiled	268	18	0	0	227	41	156	308	218	3	10
beef stroganoff, homemade	269	18	0	0	191	25	149	238	187	3	10
green peppers stuffed with beef and rice, homemade	270	18	0	0	134	30	66	191	139	3	10
chili con carne with beans, homemade	271	18	0	0	381	65	268	471	371	3	10
tuna noodle casserole, homemade	272	17	0	0	699	126	506	1020	686	4	20
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	17	0	0	209	35	162	296	197	3	10
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	17	0	0	207	65	128	366	189	3	10
quarter-pound cheeseburger on bun, fast-food	275	17	0	0	1300	216	972	1680	1300	3	10
fish sandwich on bun, fast-food	276	18	0	0	961	257	383	1440	1030	4	20
frankfurter on bun, fast-food	277	18	0	0	618	188	332	907	618	4	20
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	1830	280	1150	2420	1840	3	10
taco/tostada, from Mexican carry-out	279	18	0	0	925	320	614	2040	838	3	10
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	2270	312	1740	3030	2250	4	20
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	1990	360	1360	2670	2060	4	20
beef chow mein, from Chinese carry-out	282	18	0	0	188	39	106	297	186	3	10
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	273	39	202	348	270	3	10
mushroom soup, canned, condensed, prepared with whole milk	284	18	0	0	638	89	500	790	625	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Calcium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	0	0	596	117	416	820	622	4	20
vanilla ice cream	286	18	0	0	1090	213	630	1440	1100	3	10
fruit flavor sherbet	287	18	0	0	353	79	222	540	334	3	10
popsicle, any flavor	288	18	0	0	59	30	28	158	53	3	10
chocolate snack cake with chocolate icing	289	18	0	0	389	219	191	861	300	4	20
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	337	142	155	845	324	4	20
brownies, commercial	291	18	0	0	248	37	164	303	257	4	20
sugar cookies, commercial	292	18	0	0	262	82	144	400	285	4	20
suckers, any flavor	293	18	0	1	59	25	12	103	62	4	20
pretzels, hard, salted, any shape	294	18	0	0	292	71	215	464	270	4	20
chocolate syrup dessert topping	295	18	0	0	235	201	120	840	165	4	20
jelly, any flavor	296	18	0	0	67	16	31	91	66	4	20
sweet cucumber pickles	297	18	0	0	373	132	135	657	379	3	10
yellow mustard	298	18	0	0	583	44	500	670	577	3	10
black olives	299	18	0	0	649	220	261	1120	683	3	10
sour cream	300	18	0	0	1040	190	481	1380	1040	3	10
brown gravy, homemade	301	18	0	0	56	20	28	90	52	3	10
French salad dressing, regular	302	18	0	0	85	29	56	186	83	4	20
Italian salad dressing, low-calorie	303	18	0	0	87	33	41	158	80	4	20
olive/safflower oil	304	18	13	5	1	2	0	7	0	4	20
coffee, from ground	305	18	0	5	15	8	6	33	12	3	10
fruit-flavored carbonated beverage	306	18	0	0	30	16	11	72	26	3	10
fruit drink, canned	307	18	0	0	131	121	20	391	80	3	10
martini	308	18	0	9	5	2	2	11	4	1.2	4
soy-based infant formula, ready-to-feed	309	18	0	0	658	146	340	957	664	3	10
egg yolk, strained/junior	310	12	0	0	778	115	469	870	818	3	10
rice infant cereal, instant, prepared with whole milk	311	18	0	0	2150	630	1030	3190	2230	3	10
rice cereal, strained/junior	312	18	0	0	131	49	62	293	118	3	10
bananas with tapioca, strained/junior	313	18	0	0	41	8	30	58	40	3	10
beets, strained/junior	314	15	0	0	139	19	108	175	143	3	10
split peas with vegetables and ham/bacon	316	18	0	0	131	31	67	179	133	3	10
teething biscuits	317	18	0	0	965	249	444	1400	1050	3	10

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Phosphorus - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4682</b>	<b>101</b>	<b>137</b>	<b>968</b>	<b>1060</b>	<b>0</b>	<b>8360</b>	<b>610</b>		
whole milk, fluid	1	18	0	0	805	115	585	946	824	10	40
lowfat (2% fat) milk, fluid	2	18	0	0	892	72	710	984	901	10	40
chocolate milk, fluid	3	18	0	0	843	99	650	994	862	10	40
skim milk, fluid	4	18	0	0	901	198	550	1380	916	10	40
plain yogurt, lowfat	6	18	0	0	1230	124	980	1410	1240	10	40
chocolate milk shake, fast-food	7	18	0	0	1040	119	800	1210	1070	10	40
evaporated milk, canned	8	18	0	0	1750	125	1420	1980	1730	10	40
American, processed cheese	10	18	0	0	5480	1260	3670	8360	5400	14	50
cottage cheese, 4% milkfat	11	18	0	0	1420	154	1190	1810	1410	14	50
cheddar cheese	12	18	0	0	4580	786	2050	6380	4670	14	50
ground beef, pan-cooked	13	18	0	0	1970	238	1450	2370	1950	10	40
beef chuck roast, baked	14	18	0	0	2050	245	1600	2640	2090	10	40
beef steak, loin, pan-cooked	16	18	0	0	2280	288	1870	2840	2260	10	40
ham, baked	17	18	0	0	2510	276	1710	2860	2570	10	40
pork chop, pan-cooked	18	18	0	0	2770	284	2290	3420	2750	10	40
pork sausage, pan-cooked	19	18	0	0	1690	204	1440	2120	1660	14	50
pork bacon, pan-cooked	20	18	0	0	3540	690	2550	4970	3430	14	50
pork roast, baked	21	18	0	0	2070	316	1500	2700	2010	14	50
lamb chop, pan-cooked	22	18	0	0	2310	199	1950	2830	2320	14	50
chicken, fried (breast, leg, and thigh) homemade	24	18	0	0	2070	225	1440	2380	2090	10	40
turkey breast, roasted	26	18	0	0	2540	253	1980	2940	2590	10	40
liver, beef, fried	27	18	0	0	4520	460	3530	5480	4450	10	40
frankfurters, beef, boiled	28	18	0	0	1330	235	800	1770	1350	14	50
bologna, sliced	29	18	0	0	1790	416	1030	2450	1910	14	50
salami, sliced	30	18	0	0	1860	271	1410	2350	1840	14	50
tuna, canned in oil	32	18	0	0	1790	250	1270	2270	1770	12	40
fish sticks, frozen, heated	34	18	0	0	1790	187	1490	2270	1760	12	40
eggs, scrambled	35	18	0	0	1720	169	1190	1930	1770	10	40
eggs, fried	36	18	0	0	1980	186	1510	2280	1940	10	40
eggs, boiled	37	18	0	0	2010	167	1590	2340	1990	10	40
pinto beans, dry, boiled	38	18	0	0	1470	155	1220	1830	1420	10	40
pork and beans, canned	39	18	0	0	910	72	815	1050	900	10	40
lima beans, immature, frozen, boiled	42	18	0	0	945	108	690	1200	922	10	40
green peas, fresh/frozen, boiled	46	18	0	0	783	123	437	949	777	10	40
peanut butter, smooth	47	18	0	0	3540	248	3040	4090	3580	14	50
peanuts, dry roasted	48	18	0	0	3740	232	3210	4090	3750	14	50

## US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1

### Phosphorus - Summary of Results

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	0	0	357	73	220	482	350	10	40
oatmeal, quick (1-3 min), cooked	51	18	0	0	730	111	553	940	729	10	40
wheat cereal, farina, quick (1-3min), cooked	52	18	0	0	393	173	130	858	371	10	40
corngrits, regular, cooked	53	18	0	0	175	65	51	305	172	10	40
corn, fresh/frozen, boiled	54	18	0	0	595	52	510	714	590	10	40
cream style corn, canned	56	18	0	0	375	58	260	510	370	10	40
popcorn, popped in oil	57	18	0	0	2500	531	1500	3320	2430	14	50
white bread	58	18	0	0	910	135	620	1220	901	14	50
white roll	59	18	0	0	1120	162	917	1390	1090	14	50
cornbread, homemade	60	18	0	0	1500	289	920	1970	1550	10	40
biscuit, from refrigerated dough, baked	61	18	0	0	4470	563	3150	5580	4490	10	40
whole wheat bread	62	18	0	0	1930	244	1590	2310	1960	10	40
tortilla, flour	63	18	0	0	1630	586	880	2870	1550	12	40
rye bread	64	18	0	0	1210	173	768	1520	1230	10	40
blueberry muffin, commercial	65	18	0	0	1800	470	1070	2720	1750	10	40
saltine crackers	66	18	0	0	1060	116	927	1350	1030	10	40
corn chips	67	18	0	0	1980	186	1640	2400	2010	10	40
pancake from mix	68	18	0	0	3090	474	2110	3820	3180	10	40
egg noodles, boiled	69	18	0	0	684	117	520	922	669	14	50
macaroni, boiled	70	18	0	0	516	67	369	683	522	10	40
corn flakes	71	18	0	0	390	51	314	505	387	10	40
fruit-flavored, sweetened cereal	72	18	0	0	1000	194	700	1470	939	10	40
shredded wheat cereal	73	18	0	0	3550	408	2710	4790	3510	10	40
raisin bran cereal	74	18	0	0	3720	340	2960	4330	3770	10	40
crisped rice cereal	75	18	0	0	1120	74	930	1240	1120	10	40
granola cereal	76	18	0	0	2660	481	2170	3860	2490	10	40
oat ring cereal	77	18	0	0	4040	208	3640	4420	4060	10	40
apple, red, raw	78	18	0	0	99	21	63	143	100	10	40
orange, raw	79	18	0	0	187	30	105	229	192	8	30
banana, raw	80	18	0	0	228	23	174	292	230	8	30
watermelon, raw	81	18	0	0	113	32	39	172	114	8	30
peach, raw	83	18	0	0	202	16	172	236	206	8	30
applesauce, bottled	84	18	0	0	62	10	41	76	64	8	30
pear, raw	85	18	0	0	108	16	75	129	110	8	30
strawberries, raw	86	18	0	0	252	54	186	385	227	8	30
fruit cocktail, canned in heavy syrup	87	18	0	0	98	18	47	119	103	10	40
grapes, red/green, seedless, raw	88	18	0	0	193	41	146	256	183	8	30

## US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1

### Phosphorus - Summary of Results

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	0	0	138	39	87	244	134	8	30
plums, raw	91	18	0	0	164	35	104	251	158	8	30
grapefruit, raw	92	18	0	0	164	24	111	209	164	8	30
pineapple, canned in juice	93	18	0	3	56	15	19	72	60	10	40
sweet cherries, raw	94	12	0	0	239	15	210	271	243	10	40
raisins, dried	95	18	0	0	1010	67	842	1090	1020	14	50
prunes, dried	96	18	0	0	702	78	531	813	710	14	50
avocado, raw	97	18	0	0	501	85	368	687	483	14	50
orange juice, from frozen concentrate	98	18	0	0	174	38	92	258	177	8	30
apple juice, bottled	99	18	0	0	66	11	53	92	63	8	30
grapefruit juice, from frozen concentrate	100	18	0	0	161	27	112	227	161	8	30
prune juice, bottled	103	18	0	0	197	22	156	249	195	8	30
lemonade, from frozen concentrate	105	18	0	17	20	8	10	46	19	8	30
spinach, fresh/frozen, boiled	107	18	0	0	308	50	224	392	307	8	30
collards, fresh/frozen, boiled	108	18	0	0	304	75	130	473	299	8	30
iceberg lettuce, raw	109	18	0	0	227	50	131	306	239	8	30
cabbage, fresh, boiled	110	18	0	0	179	39	99	243	180	8	30
coleslaw with dressing, homemade	111	18	0	0	253	27	190	293	256	14	50
sauerkraut, canned	112	18	0	0	180	32	140	247	179	10	40
broccoli, fresh/frozen, boiled	113	18	0	0	403	62	306	503	410	10	40
celery, raw	114	18	0	0	230	58	149	360	235	10	40
asparagus, fresh/frozen, boiled	115	18	0	0	463	73	311	570	477	10	40
cauliflower, fresh/frozen, boiled	116	18	0	0	323	49	220	416	332	10	40
tomato, red, raw	117	18	0	0	249	51	158	335	252	10	40
tomato sauce, plain, bottled	119	18	0	0	269	50	200	390	260	10	40
green beans, fresh/frozen, boiled	121	18	0	0	284	58	177	390	278	10	40
cucumber, raw	123	18	0	0	210	52	127	343	211	10	40
summer squash, fresh/frozen, boiled	124	18	0	0	260	58	153	355	253	10	40
green pepper, raw	125	18	0	0	195	41	96	270	201	10	40
winter squash, fresh/frozen, baked, mashed	126	18	1	0	283	107	0	450	279	10	40
onion, mature, raw	128	18	0	0	301	62	213	409	297	10	40
radish, raw	132	18	0	0	165	36	78	220	169	10	40
French fries, frozen, heated	134	18	0	0	935	150	630	1200	976	12	40
mashed potatoes, from flakes	135	18	0	0	534	63	401	655	538	12	40
white potato, boiled without skin	136	18	0	0	430	99	201	688	422	9	30
white potato, baked with skin	137	18	0	0	602	117	318	831	591	9	30
potato chips	138	18	0	0	1600	245	1230	2040	1570	12	40

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Phosphorus - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	0	740	73	620	892	728	12	40
sweet potato, fresh, baked	140	18	0	0	447	113	262	687	457	9	30
spaghetti with tomato sauce and meatballs, homemade	142	18	0	0	647	98	390	774	660	10	40
beef stew with potatoes, carrots, and onion, homemade	143	18	0	0	856	90	713	973	885	10	40
macaroni and cheese, from box mix	146	18	0	0	1370	402	633	2180	1360	12	40
quarter-pound hamburger on bun, fast-food	147	18	0	0	1230	157	819	1480	1280	10	40
meatloaf, homemade	148	18	0	0	1700	273	994	2290	1700	10	40
spaghetti with tomato sauce, canned	149	18	0	0	338	39	250	410	339	10	40
lasagna with meat, homemade	151	18	0	0	1530	199	1190	1840	1540	10	40
chicken potpie, frozen, heated	152	18	0	0	772	89	580	955	767	9	30
chicken noodle soup, canned, condensed, prepared with water	155	18	0	0	144	27	90	195	145	9	30
tomato soup, canned, condensed, prepared with water	156	18	0	0	139	15	110	162	141	9	30
vegetable beef soup, canned, condensed, prepared with water	157	18	0	0	208	38	107	276	212	10	40
white sauce, homemade	160	18	0	0	806	79	637	938	794	8	30
dill cucumber pickles	161	18	0	1	111	46	22	195	106	10	40
margarine, stick, regular (salted)	162	18	0	0	96	25	63	146	97	12	40
butter, regular (salted)	164	18	0	0	229	36	122	269	233	12	40
mayonnaise, regular, bottled	166	18	0	0	248	48	167	379	251	14	50
half & half cream	167	18	0	0	820	88	670	1010	806	10	40
cream substitute, frozen	168	18	0	0	484	120	165	655	486	10	40
white sugar, granulated	169	18	18	0	0	0	0	0	0	12	40
pancake syrup	170	18	1	5	90	61	0	187	86	12	40
honey	172	18	0	12	36	9	16	54	36	12	40
tomato catsup	173	18	0	0	309	36	227	380	305	9	30
chocolate pudding, from instant mix	175	18	0	0	2320	438	1010	2670	2490	10	40
vanilla flavored light ice cream	177	18	0	0	1050	109	860	1250	1050	10	40
chocolate cake with chocolate icing, commercial	178	18	0	0	1220	183	882	1540	1220	14	50
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	0	1490	349	1040	2640	1420	12	40
sweet roll/Danish, commercial	182	18	0	0	974	226	590	1400	982	14	50
chocolate chip cookies, commercial	183	18	0	0	1020	137	806	1330	989	12	40
sandwich cookies with creme filling, commercial	184	18	0	0	767	124	520	941	811	12	40



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Phosphorus - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	0	264	38	203	337	256	12	40
pumpkin pie, fresh/frozen, commercial	186	18	0	0	808	102	630	995	814	12	40
milk chocolate candy bar, plain	187	18	0	0	2150	202	1680	2460	2160	12	40
caramel candy	188	18	0	0	1150	320	451	1570	1240	12	40
gelatin dessert, any flavor	190	18	0	0	194	59	91	280	193	10	40
cola carbonated beverage	191	18	0	0	146	53	69	330	145	9	30
fruit drink, from powder	193	18	1	4	49	33	0	136	47	8	30
low-calorie cola carbonated beverage	194	18	0	0	107	42	56	257	103	8	30
coffee, decaffeinated, from instant	196	18	0	0	42	12	21	67	43	4	20
tea, from tea bag	197	18	0	17	13	4	9	26	13	4	20
beer	198	18	0	0	144	49	58	269	143	7	30
dry table wine	199	18	0	1	122	44	12	191	112	6	20
whiskey	200	18	17	1	0	1	0	5	0	5	20
tap water	201	18	16	2	0	1	0	4	0	2	10
milk-based infant formula, high iron, ready-to-feed	202	18	0	0	408	59	304	559	398	10	40
milk-based infant formula, low iron, ready-to-feed	203	18	0	0	418	62	322	542	401	10	40
beef, strained/junior	205	18	0	0	1080	102	754	1210	1080	10	40
chicken, strained/junior	207	18	0	0	1520	181	1280	1790	1480	10	40
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	0	545	21	530	560	545	10	40
beef with vegetables, high/lean meat, strained/junior	209	2	0	0	520	14	510	530	520	10	40
ham with vegetables, high/lean meat, strained/junior	210	2	0	0	665	49	630	700	665	10	40
vegetables and beef, strained/junior	211	18	0	0	287	52	209	384	279	10	40
vegetables and chicken, strained/junior	212	18	0	0	339	61	200	462	348	10	40
vegetables and ham, strained/junior	213	18	0	0	267	50	168	356	266	10	40
chicken noodle dinner, strained/junior	214	18	0	0	375	65	213	515	374	10	40
macaroni, tomatoes, and beef, strained/junior	215	18	0	0	333	42	230	387	336	10	40
turkey and rice, strained/junior	216	18	0	0	349	57	216	449	355	10	40
carrots, strained/junior	218	18	0	0	227	27	185	268	234	10	40
green beans, strained/junior	219	18	0	0	252	28	180	295	258	10	40
mixed vegetables, strained/junior	220	18	0	0	265	51	161	353	264	10	40
sweet potatoes, strained/junior	221	18	0	0	255	28	218	313	255	10	40

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Phosphorus - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	0	0	362	62	219	439	378	10	40
peas, strained/junior	223	18	0	0	563	82	369	693	574	10	40
creamed spinach, strained/junior	224	18	0	0	580	99	415	683	621	10	40
applesauce, strained/junior	225	18	0	1	73	15	38	91	75	10	40
peaches, strained/junior	226	18	0	0	162	34	85	224	159	10	40
pears, strained/junior	227	18	0	0	110	24	62	166	107	10	40
apple juice, strained	230	18	0	0	67	10	48	89	66	10	40
orange juice, strained	231	18	0	0	175	17	147	215	172	10	40
custard pudding, strained/junior	232	18	0	0	526	96	286	709	546	10	40
fruit dessert/pudding, strained/junior	233	18	0	1	78	17	38	105	79	10	40
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	0	0	965	155	720	1340	998	10	40
Swiss cheese	236	18	0	0	5670	390	4560	6200	5640	14	50
cream cheese	237	18	0	0	934	172	502	1300	974	14	50
veal cutlet, pan-cooked	238	18	0	0	3010	584	1680	3730	3130	10	40
ham luncheon meat, sliced	239	18	0	0	2260	394	1410	2830	2320	10	40
chicken breast, roasted	240	18	0	0	2200	245	1790	2580	2240	10	40
chicken nuggets, fast-food	241	18	0	0	2250	331	1510	2670	2340	10	40
chicken, fried (breast, leg, and thigh), fast-food	242	18	0	0	1970	493	1150	3390	1850	10	40
haddock, pan-cooked	243	18	0	0	2170	427	1620	3460	2190	12	40
shrimp, boiled	244	18	0	0	1850	371	1070	2670	1850	12	40
kidney beans, dry, boiled	245	18	0	0	1450	160	1180	1800	1450	10	40
peas, mature, dry, boiled	246	18	0	0	1360	289	990	2320	1310	10	40
mixed nuts, no peanuts, dry roasted	247	18	0	0	4480	611	2710	5250	4650	14	50
cracked wheat bread	248	18	0	0	1460	159	1180	1670	1440	10	40
bagel, plain	249	18	0	0	941	131	702	1180	943	14	50
English muffin, plain, toasted	250	18	0	0	1430	665	770	3310	1130	12	40
graham crackers	251	18	0	0	1510	511	900	2650	1340	10	40
butter-type crackers	252	18	0	0	2410	324	1680	2810	2490	10	40
apricot, raw	253	13	0	0	227	36	134	282	226	10	40
peach, canned in light/medium syrup	254	18	0	0	101	26	50	141	108	10	40
pear, canned in light syrup	255	18	0	2	66	16	34	91	69	10	40
pineapple juice, from frozen concentrate	256	18	0	0	79	14	52	98	80	8	30
grape juice, from frozen concentrate	257	18	0	3	70	34	17	138	69	8	30
French fries, fast-food	258	18	0	0	1290	202	945	1720	1270	12	40
carrot, fresh, boiled	259	18	0	0	272	50	214	381	251	10	40

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Phosphorus - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	0	0	190	23	153	235	191	10	40
tomato juice, bottled	261	18	0	0	180	30	118	251	177	10	40
beets, fresh/frozen, boiled	262	18	0	0	331	89	132	484	340	10	40
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	562	99	373	837	552	10	40
mushrooms, raw	264	18	0	0	686	171	286	967	715	10	40
eggplant, fresh, boiled	265	18	0	0	152	30	104	209	148	10	40
turnip, fresh/frozen, boiled	266	18	0	0	262	66	105	359	273	10	40
okra, fresh/frozen, boiled	267	18	0	0	330	67	171	451	322	10	40
mixed vegetables, frozen, boiled	268	18	0	0	505	61	370	610	515	10	40
beef stroganoff, homemade	269	18	0	0	1180	158	870	1480	1170	10	40
green peppers stuffed with beef and rice, homemade	270	18	0	0	702	149	449	1060	671	10	40
chili con carne with beans, homemade	271	18	0	0	1140	164	680	1330	1180	10	40
tuna noodle casserole, homemade	272	17	0	0	1080	176	832	1460	1050	12	40
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	18	0	0	948	83	810	1120	922	10	40
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	18	0	0	931	64	810	1020	932	10	40
quarter-pound cheeseburger on bun, fast-food	275	17	0	0	1580	188	1310	1900	1540	10	40
fish sandwich on bun, fast-food	276	18	0	0	1310	180	1120	1740	1270	12	40
frankfurter on bun, fast-food	277	18	0	0	1250	202	810	1500	1270	14	50
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	2200	227	1890	2760	2140	10	40
taco/tostada, from Mexican carry-out	279	18	0	0	1680	201	1220	2100	1660	10	40
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	2150	190	1820	2500	2150	12	40
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	1990	251	1420	2450	2000	12	40
beef chow mein, from Chinese carry-out	282	18	0	0	515	110	360	693	542	10	40
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	628	63	529	750	623	10	40
mushroom soup, canned, condensed, prepared with whole milk	284	18	0	0	598	67	473	731	591	10	40

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Phosphorus - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	0	0	612	72	441	740	621	12	40
vanilla ice cream	286	18	0	0	949	116	758	1220	931	10	40
fruit flavor sherbet	287	18	0	0	299	80	150	478	290	10	40
popsicle, any flavor	288	18	10	7	10	14	0	44	0	10	40
chocolate snack cake with chocolate icing	289	18	0	0	1090	167	760	1310	1120	14	50
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	2030	378	1110	2580	2120	12	40
brownies, commercial	291	18	0	0	1070	178	625	1340	1070	12	40
sugar cookies, commercial	292	18	0	0	975	334	621	1780	843	12	40
suckers, any flavor	293	18	1	14	27	10	0	44	26	12	40
pretzels, hard, salted, any shape	294	18	0	0	1190	160	910	1470	1180	12	40
chocolate syrup dessert topping	295	18	0	0	741	156	540	1170	702	12	40
jelly, any flavor	296	18	0	1	71	17	39	99	72	12	40
sweet cucumber pickles	297	18	0	0	98	31	48	142	104	10	40
yellow mustard	298	18	0	0	1030	87	880	1260	1050	10	40
black olives	299	18	0	7	51	20	19	78	56	10	40
sour cream	300	18	0	0	902	197	530	1330	871	10	40
brown gravy, homemade	301	18	0	0	1450	657	630	2750	1360	10	40
French salad dressing, regular	302	18	0	0	139	57	84	319	128	12	40
Italian salad dressing, low-calorie	303	18	0	1	113	51	33	226	106	12	40
olive/safflower oil	304	18	13	2	13	28	0	109	0	12	40
coffee, from ground	305	18	0	13	22	10	11	43	17	8	30
fruit-flavored carbonated beverage	306	18	15	1	6	17	0	60	0	8	30
fruit drink, canned	307	18	1	10	49	79	0	343	20	8	30
martini	308	18	7	11	4	4	0	14	5	4	20
soy-based infant formula, ready-to-feed	309	18	0	0	463	76	326	613	459	10	40
egg yolk, strained/junior	310	12	0	0	2950	335	2110	3290	3030	10	40
rice infant cereal, instant, prepared with whole milk	311	18	0	0	1690	320	1080	2280	1650	10	40
rice cereal, strained/junior	312	18	0	0	186	30	136	236	190	10	40
bananas with tapioca, strained/junior	313	18	0	0	97	17	60	127	98	10	40
beets, strained/junior	314	15	0	0	200	38	156	279	189	10	40
split peas with vegetables and ham/bacon	316	18	0	0	328	56	256	443	312	10	40
teething biscuits	317	18	0	0	1470	323	1010	2210	1410	10	40

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Potassium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		4682	66	78	1840	1520	0	15000	1500		
whole milk, fluid	1	18	0	0	1400	178	1060	1630	1440	8	30
lowfat (2% fat) milk, fluid	2	18	0	0	1530	93	1370	1720	1530	8	30
chocolate milk, fluid	3	18	0	0	1570	88	1400	1720	1570	8	30
skim milk, fluid	4	18	0	0	1550	199	1210	2190	1550	8	30
plain yogurt, lowfat	6	18	0	0	2140	204	1750	2370	2210	8	30
chocolate milk shake, fast-food	7	18	0	0	2060	236	1640	2430	2050	8	30
evaporated milk, canned	8	18	0	0	3030	328	2360	4010	2990	8	30
American, processed cheese	10	18	0	0	1710	514	1070	2570	1500	10	40
cottage cheese, 4% milkfat	11	18	0	0	970	163	730	1350	1010	10	40
cheddar cheese	12	18	0	0	747	86	570	940	744	10	40
ground beef, pan-cooked	13	18	0	0	3310	315	2710	3790	3370	8	30
beef chuck roast, baked	14	18	0	0	3380	372	2780	4280	3410	8	30
beef steak, loin, pan-cooked	16	18	0	0	3720	561	2100	4580	3660	8	30
ham, baked	17	18	0	0	2860	151	2670	3330	2840	8	30
pork chop, pan-cooked	18	18	0	0	4200	477	3270	5400	4140	8	30
pork sausage, pan-cooked	19	18	0	0	3090	314	2520	3610	3100	10	40
pork bacon, pan-cooked	20	18	0	0	3940	727	2940	5500	3730	10	40
pork roast, baked	21	18	0	0	3250	285	2800	3890	3260	10	40
lamb chop, pan-cooked	22	18	0	0	3590	400	3180	4730	3540	10	40
chicken, fried (breast, leg, and thigh) homemade	24	18	0	0	3120	267	2740	3700	3110	8	30
turkey breast, roasted	26	18	0	0	3500	436	2830	4250	3300	8	30
liver, beef, fried	27	18	0	0	3450	224	3060	3920	3420	8	30
frankfurters, beef, boiled	28	18	0	0	1210	117	1030	1500	1190	10	40
bologna, sliced	29	18	0	0	1770	179	1280	2130	1750	10	40
salami, sliced	30	18	0	0	2530	452	1780	3360	2580	10	40
tuna, canned in oil	32	18	0	0	2390	345	1330	3030	2460	9	30
fish sticks, frozen, heated	34	18	0	0	2350	281	1930	3160	2350	9	30
eggs, scrambled	35	18	0	0	1350	84	1190	1520	1360	8	30
eggs, fried	36	18	0	0	1320	60	1180	1460	1310	8	30
eggs, boiled	37	18	0	0	1220	47	1120	1300	1220	8	30
pinto beans, dry, boiled	38	18	0	0	4370	570	3450	5390	4450	8	30
pork and beans, canned	39	18	0	0	2450	281	1770	2940	2500	8	30
lima beans, immature, frozen, boiled	42	18	0	0	2740	548	2060	4440	2630	8	30
green peas, fresh/frozen, boiled	46	18	0	0	1040	273	708	1520	916	8	30
peanut butter, smooth	47	18	0	0	6320	420	5500	7090	6230	10	40
peanuts, dry roasted	48	18	0	0	6900	398	6280	7740	6920	10	40

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Potassium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	0	0	227	63	129	351	233	8	30
oatmeal, quick (1-3 min), cooked	51	18	0	0	633	50	533	743	623	8	30
wheat cereal, farina, quick (1-3min), cooked	52	18	0	0	230	138	138	701	175	8	30
corngrits, regular, cooked	53	18	0	0	262	77	122	426	249	8	30
corn, fresh/frozen, boiled	54	18	0	0	1690	269	1160	2130	1650	8	30
cream style corn, canned	56	18	0	0	1170	187	808	1610	1180	8	30
popcorn, popped in oil	57	18	0	0	2340	443	1560	3080	2330	10	40
white bread	58	18	0	0	1210	210	760	1710	1220	10	40
white roll	59	18	0	0	1280	171	1000	1610	1250	10	40
cornbread, homemade	60	18	0	0	1360	127	1160	1570	1370	8	30
biscuit, from refrigerated dough, baked	61	18	0	0	2470	1170	1010	4760	2410	8	30
whole wheat bread	62	18	0	0	2230	227	1770	2730	2250	8	30
tortilla, flour	63	18	0	0	1380	398	960	2150	1320	9	30
rye bread	64	18	0	0	1640	254	1030	2220	1640	8	30
blueberry muffin, commercial	65	18	0	0	1130	224	530	1460	1140	8	30
saltine crackers	66	18	0	0	1390	89	1200	1540	1410	8	30
corn chips	67	18	0	0	1560	224	1140	1960	1550	8	30
pancake from mix	68	18	0	0	1560	253	1320	2150	1480	8	30
egg noodles, boiled	69	18	0	0	343	87	178	550	352	10	40
macaroni, boiled	70	18	0	0	402	113	244	571	390	8	30
corn flakes	71	18	0	0	900	70	791	1040	891	8	30
fruit-flavored, sweetened cereal	72	18	0	0	1120	158	919	1680	1090	8	30
shredded wheat cereal	73	18	0	0	3830	326	3350	4660	3750	8	30
raisin bran cereal	74	18	0	0	5990	521	4990	7370	5940	8	30
crisped rice cereal	75	18	0	0	1250	125	912	1450	1270	8	30
granola cereal	76	18	0	0	3600	617	2520	4630	3700	8	30
oat ring cereal	77	18	0	0	3180	187	2910	3530	3150	8	30
apple, red, raw	78	18	0	0	1040	93	840	1160	1030	8	30
orange, raw	79	18	0	0	1580	144	1250	1770	1600	6	20
banana, raw	80	18	0	0	3510	332	3080	4260	3370	6	20
watermelon, raw	81	18	0	0	1040	192	576	1350	1060	6	20
peach, raw	83	18	0	0	1890	204	1600	2380	1840	6	20
applesauce, bottled	84	18	0	0	765	96	620	984	735	6	20
pear, raw	85	18	0	0	1200	99	946	1390	1190	6	20
strawberries, raw	86	18	0	0	1510	195	952	1850	1540	6	20
fruit cocktail, canned in heavy syrup	87	18	0	0	967	47	860	1060	966	8	30
grapes, red/green, seedless, raw	88	18	0	0	1820	335	1340	2920	1810	6	20

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Potassium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	0	0	2610	406	1920	3360	2640	6	20
plums, raw	91	18	0	0	1600	180	1300	1870	1580	6	20
grapefruit, raw	92	18	0	0	1380	155	1260	1810	1330	6	20
pineapple, canned in juice	93	18	0	0	1130	135	900	1390	1170	8	30
sweet cherries, raw	94	12	0	0	2380	93	2240	2540	2390	8	30
raisins, dried	95	18	0	0	7440	653	5840	8620	7530	10	40
prunes, dried	96	18	0	0	7280	455	6300	8260	7180	10	40
avocado, raw	97	18	0	0	4980	880	3750	6800	4900	10	40
orange juice, from frozen concentrate	98	18	0	0	1720	282	1170	2250	1770	6	20
apple juice, bottled	99	18	0	0	975	148	667	1160	1010	6	20
grapefruit juice, from frozen concentrate	100	18	0	0	1460	191	1090	2020	1430	6	20
prune juice, bottled	103	18	0	0	2370	278	1780	2820	2330	6	20
lemonade, from frozen concentrate	105	18	0	0	214	59	122	366	214	6	20
spinach, fresh/frozen, boiled	107	18	0	0	1960	601	1060	3170	1850	6	20
collards, fresh/frozen, boiled	108	18	0	0	1240	607	618	2810	996	6	20
iceberg lettuce, raw	109	18	0	0	1610	391	811	2500	1590	6	20
cabbage, fresh, boiled	110	18	0	0	1120	271	710	1820	1140	6	20
coleslaw with dressing, homemade	111	18	0	0	1450	238	1050	1830	1420	10	40
sauerkraut, canned	112	18	0	0	1610	230	1200	1900	1680	8	30
broccoli, fresh/frozen, boiled	113	18	0	0	1410	223	1020	1780	1380	8	30
celery, raw	114	18	0	0	2600	589	1940	4260	2490	8	30
asparagus, fresh/frozen, boiled	115	18	0	0	1680	275	1260	2360	1620	8	30
cauliflower, fresh/frozen, boiled	116	18	0	0	1350	250	946	1790	1350	8	30
tomato, red, raw	117	18	0	0	2210	305	1410	2660	2320	8	30
tomato sauce, plain, bottled	119	18	0	0	3200	436	2550	4060	3200	8	30
green beans, fresh/frozen, boiled	121	18	0	0	1460	404	850	2200	1430	8	30
cucumber, raw	123	18	0	0	1450	293	642	1930	1420	8	30
summer squash, fresh/frozen, boiled	124	18	0	0	1600	416	980	2430	1550	8	30
green pepper, raw	125	18	0	0	1620	338	850	2340	1690	8	30
winter squash, fresh/frozen, baked, mashed	126	18	1	0	2940	1010	0	4830	3140	8	30
onion, mature, raw	128	18	0	0	1430	254	1050	1780	1430	8	30
radish, raw	132	18	0	0	2070	420	1340	2860	2090	8	30
French fries, frozen, heated	134	18	0	0	4290	819	3310	6300	4150	9	30
mashed potatoes, from flakes	135	18	0	0	2250	265	1870	2730	2210	9	30
white potato, boiled without skin	136	18	0	0	2810	605	2180	4950	2650	7	30
white potato, baked with skin	137	18	0	0	4730	784	2700	6640	4800	7	30
potato chips	138	18	0	0	13000	1160	9740	15000	13000	9	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Potassium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	0	3150	263	2730	3610	3140	9	30
sweet potato, fresh, baked	140	18	0	0	4330	526	3060	5080	4490	7	30
spaghetti with tomato sauce and meatballs, homemade	142	18	0	0	2100	285	1500	2620	2090	8	30
beef stew with potatoes, carrots, and onion, homemade	143	18	0	0	2830	335	2180	3360	2920	8	30
macaroni and cheese, from box mix	146	18	0	0	1040	267	485	1650	1070	9	30
quarter-pound hamburger on bun, fast-food	147	18	0	0	2180	231	1430	2510	2180	8	30
meatloaf, homemade	148	18	0	0	2820	370	1730	3580	2790	8	30
spaghetti with tomato sauce, canned	149	18	0	0	1030	302	510	1870	963	8	30
lasagna with meat, homemade	151	18	0	0	2210	389	1390	2610	2320	8	30
chicken potpie, frozen, heated	152	18	0	0	1150	114	990	1420	1120	7	30
chicken noodle soup, canned, condensed, prepared with water	155	18	0	0	215	46	143	301	216	7	30
tomato soup, canned, condensed, prepared with water	156	18	0	0	1200	179	940	1510	1180	7	30
vegetable beef soup, canned, condensed, prepared with water	157	18	0	0	767	139	510	1160	762	8	30
white sauce, homemade	160	18	0	0	1410	128	1130	1610	1420	6	20
dill cucumber pickles	161	18	0	0	775	322	326	1350	754	8	30
margarine, stick, regular (salted)	162	18	0	0	221	113	95	455	176	9	30
butter, regular (salted)	164	18	0	0	237	27	174	279	240	9	30
mayonnaise, regular, bottled	166	18	0	0	102	15	69	122	105	10	40
half & half cream	167	18	0	0	1400	135	1050	1680	1430	8	30
cream substitute, frozen	168	18	0	0	717	396	141	1600	652	8	30
white sugar, granulated	169	18	0	15	24	6	16	39	23	9	30
pancake syrup	170	18	0	1	152	61	27	245	151	9	30
honey	172	18	0	0	292	87	181	449	292	9	30
tomato catsup	173	18	0	0	3580	448	2910	4500	3590	7	30
chocolate pudding, from instant mix	175	18	0	0	1980	159	1750	2370	1930	8	30
vanilla flavored light ice cream	177	18	0	0	2110	167	1860	2430	2130	8	30
chocolate cake with chocolate icing, commercial	178	18	0	0	2150	338	1600	2880	2150	10	40
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	0	541	87	369	680	540	9	30
sweet roll/Danish, commercial	182	18	0	0	1230	244	940	1900	1200	10	40
chocolate chip cookies, commercial	183	18	0	0	1690	241	1250	2220	1670	9	30
sandwich cookies with creme filling, commercial	184	18	0	0	1260	329	730	1990	1200	9	30



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Potassium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	0	713	57	615	800	711	9	30
pumpkin pie, fresh/frozen, commercial	186	18	0	0	1880	236	1520	2330	1860	9	30
milk chocolate candy bar, plain	187	18	0	0	4030	214	3700	4400	3980	9	30
caramel candy	188	18	0	0	2310	630	1020	3030	2440	9	30
gelatin dessert, any flavor	190	18	8	10	6	6	0	21	8	8	30
cola carbonated beverage	191	18	9	8	8	11	0	41	4	7	30
fruit drink, from powder	193	18	11	6	8	16	0	68	0	6	20
low-calorie cola carbonated beverage	194	18	0	0	65	34	28	149	53	6	20
coffee, decaffeinated, from instant	196	17	0	0	462	141	218	671	449	3	10
tea, from tea bag	197	18	0	0	176	74	102	405	157	3	10
beer	198	18	0	0	245	68	153	409	234	5	20
dry table wine	199	18	0	0	799	240	167	1160	812	5	20
whiskey	200	18	1	17	7	3	0	13	7	4	20
tap water	201	18	12	3	1	2	0	9	0	1.5	5
milk-based infant formula, high iron, ready-to-feed	202	18	0	0	863	134	720	1180	830	8	30
milk-based infant formula, low iron, ready-to-feed	203	18	0	0	874	149	740	1250	810	8	30
beef, strained/junior	205	18	0	0	2090	123	1900	2450	2090	8	30
chicken, strained/junior	207	18	0	0	1640	189	1260	2010	1660	8	30
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	0	1200	120	1110	1280	1200	8	30
beef with vegetables, high/lean meat, strained/junior	209	2	0	0	1310	156	1200	1420	1310	8	30
ham with vegetables, high/lean meat, strained/junior	210	2	0	0	1550	156	1440	1660	1550	8	30
vegetables and beef, strained/junior	211	18	0	0	1200	317	530	1910	1240	8	30
vegetables and chicken, strained/junior	212	18	0	0	944	284	485	1450	920	8	30
vegetables and ham, strained/junior	213	18	0	0	878	194	560	1300	896	8	30
chicken noodle dinner, strained/junior	214	18	0	0	884	280	487	1780	810	8	30
macaroni, tomatoes, and beef, strained/junior	215	18	0	0	1230	165	970	1540	1200	8	30
turkey and rice, strained/junior	216	18	0	0	964	304	468	1650	905	8	30
carrots, strained/junior	218	18	0	0	2040	333	1360	2500	2050	8	30
green beans, strained/junior	219	18	0	0	1450	342	971	2230	1350	8	30
mixed vegetables, strained/junior	220	18	0	0	1380	331	773	2100	1440	8	30
sweet potatoes, strained/junior	221	18	0	0	2620	286	1970	3110	2580	8	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Potassium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	0	0	843	113	652	1020	854	8	30
peas, strained/junior	223	18	0	0	1170	178	700	1350	1220	8	30
creamed spinach, strained/junior	224	18	0	0	1760	328	1160	2420	1760	8	30
applesauce, strained/junior	225	18	0	0	875	47	804	965	864	8	30
peaches, strained/junior	226	18	0	0	1730	143	1450	1990	1720	8	30
pears, strained/junior	227	18	0	0	1180	120	1100	1630	1160	8	30
apple juice, strained	230	18	0	0	959	102	830	1220	954	8	30
orange juice, strained	231	18	0	0	1830	213	1340	2280	1830	8	30
custard pudding, strained/junior	232	18	0	0	740	113	570	935	708	8	30
fruit dessert/pudding, strained/junior	233	18	0	0	871	151	563	1160	874	8	30
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	0	0	1740	231	1270	2140	1760	8	30
Swiss cheese	236	18	0	0	772	46	690	841	774	10	40
cream cheese	237	18	0	0	1100	283	688	1800	1100	10	40
veal cutlet, pan-cooked	238	18	0	0	4890	968	2450	6350	4910	8	30
ham luncheon meat, sliced	239	18	0	0	2750	612	1590	4080	2850	8	30
chicken breast, roasted	240	18	0	0	3080	362	2560	4000	3020	8	30
chicken nuggets, fast-food	241	18	0	0	2570	349	1680	3020	2690	8	30
chicken, fried (breast, leg, and thigh), fast-food	242	18	0	0	2460	288	1570	2940	2480	8	30
haddock, pan-cooked	243	18	0	0	3690	531	2660	4720	3840	9	30
shrimp, boiled	244	18	0	0	955	332	431	1760	965	9	30
kidney beans, dry, boiled	245	18	0	0	4160	367	3580	4610	4260	8	30
peas, mature, dry, boiled	246	18	0	0	3180	684	2330	5500	3150	8	30
mixed nuts, no peanuts, dry roasted	247	18	0	0	5780	728	3580	6440	5950	10	40
cracked wheat bread	248	18	0	0	1690	237	1220	2020	1690	8	30
bagel, plain	249	18	0	0	1020	152	688	1320	1020	10	40
English muffin, plain, toasted	250	18	0	0	1350	227	1030	1790	1340	9	30
graham crackers	251	18	0	0	1650	397	1000	2410	1620	8	30
butter-type crackers	252	18	0	0	1030	250	188	1540	1050	8	30
apricot, raw	253	13	0	0	2610	274	2170	3220	2580	8	30
peach, canned in light/medium syrup	254	18	0	0	1070	137	820	1270	1090	8	30
pear, canned in light syrup	255	18	0	0	747	86	580	907	748	8	30
pineapple juice, from frozen concentrate	256	18	0	0	1140	128	816	1380	1180	6	20
grape juice, from frozen concentrate	257	18	0	0	342	117	136	527	360	6	20
French fries, fast-food	258	18	0	0	5960	676	4250	7300	5910	9	30
carrot, fresh, boiled	259	18	0	0	2070	442	1300	2840	2020	8	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Potassium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato, stewed, canned	260	18	0	0	2120	157	1860	2440	2100	8	30
tomato juice, bottled	261	18	0	0	2230	422	1510	3410	2270	8	30
beets, fresh/frozen, boiled	262	18	0	0	3100	378	2650	3830	3030	8	30
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	2900	577	1760	3830	2910	8	30
mushrooms, raw	264	18	0	0	2700	615	1180	3660	2760	8	30
eggplant, fresh, boiled	265	18	0	0	1210	241	929	1750	1150	8	30
turnip, fresh/frozen, boiled	266	18	0	0	1770	284	1100	2210	1830	8	30
okra, fresh/frozen, boiled	267	18	0	0	1360	339	605	1960	1340	8	30
mixed vegetables, frozen, boiled	268	18	0	0	1410	224	1090	1820	1430	8	30
beef stroganoff, homemade	269	18	0	0	1920	313	1310	2720	1940	8	30
green peppers stuffed with beef and rice, homemade	270	18	0	0	1580	296	916	2080	1560	8	30
chili con carne with beans, homemade	271	18	0	0	2920	297	2260	3420	2910	8	30
tuna noodle casserole, homemade	272	18	0	0	1200	181	877	1520	1150	9	30
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	18	0	0	1970	169	1620	2250	1970	8	30
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	18	0	0	1700	119	1500	1920	1730	8	30
quarter-pound cheeseburger on bun, fast-food	275	18	0	0	2090	186	1620	2380	2090	8	30
fish sandwich on bun, fast-food	276	18	0	0	1830	193	1320	2080	1870	9	30
frankfurter on bun, fast-food	277	18	0	0	1520	186	1170	1870	1500	10	40
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	1610	111	1410	1810	1620	8	30
taco/tostada, from Mexican carry-out	279	18	0	0	2440	186	2000	2790	2420	8	30
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	1750	170	1520	2190	1710	9	30
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	1900	173	1650	2210	1840	9	30
beef chow mein, from Chinese carry-out	282	18	0	0	1340	235	930	1720	1360	8	30
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	1610	199	1260	2020	1600	8	30
mushroom soup, canned, condensed, prepared with whole milk	284	18	0	0	1230	215	980	1880	1150	8	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Potassium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	0	0	1330	118	1060	1610	1350	9	30
vanilla ice cream	286	18	0	0	1850	214	1610	2500	1850	8	30
fruit flavor sherbet	287	18	0	0	647	125	373	845	664	8	30
popsicle, any flavor	288	18	0	10	61	54	13	168	23	8	30
chocolate snack cake with chocolate icing	289	18	0	0	2450	845	1030	4050	2350	10	40
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	1140	219	800	1660	1140	9	30
brownies, commercial	291	18	0	0	2060	485	1310	3000	2020	9	30
sugar cookies, commercial	292	18	0	0	866	64	745	970	865	9	30
suckers, any flavor	293	18	0	2	47	16	11.3	76	45	9	30
pretzels, hard, salted, any shape	294	18	0	0	1540	224	930	1950	1600	9	30
chocolate syrup dessert topping	295	18	0	0	1940	280	1610	2600	1890	9	30
jelly, any flavor	296	18	0	0	433	145	243	705	414	9	30
sweet cucumber pickles	297	18	0	0	447	224	119	828	441	8	30
yellow mustard	298	18	0	0	1350	84	1160	1560	1350	8	30
black olives	299	17	0	2	42	12	25	66.8	39	8	30
sour cream	300	18	0	0	1530	214	1110	2070	1520	8	30
brown gravy, homemade	301	18	0	0	3560	1660	1320	6610	3460	8	30
French salad dressing, regular	302	18	0	0	611	227	388	1310	550	9	30
Italian salad dressing, low-calorie	303	18	0	0	701	186	282	985	713	9	30
olive/safflower oil	304	18	16	2	1	4	0	14	0	9	30
coffee, from ground	305	18	0	0	367	136	207	640	315	6	20
fruit-flavored carbonated beverage	306	18	8	2	35	46	0	159	11	6	20
fruit drink, canned	307	18	0	0	313	236	108	865	193	6	20
martini	308	18	0	0	28	14	14	67	26	3	10
soy-based infant formula, ready-to-feed	309	18	0	0	900	81	770	1100	893	8	30
egg yolk, strained/junior	310	12	0	0	643	47	590	760	640	8	30
rice infant cereal, instant, prepared with whole milk	311	18	0	0	1390	344	209	1750	1430	8	30
rice cereal, strained/junior	312	18	0	0	502	133	253	789	488	8	30
bananas with tapioca, strained/junior	313	18	0	0	1380	253	810	1950	1410	8	30
beets, strained/junior	314	15	0	0	2800	336	2220	3360	2760	8	30
split peas with vegetables and ham/bacon	316	18	0	0	1170	238	743	1630	1160	8	30
teething biscuits	317	18	0	0	3260	792	1930	5100	3120	8	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Sodium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
<b>Overall:</b>		<b>4683</b>	<b>338</b>	<b>612</b>	<b>2340</b>	<b>3370</b>	<b>0</b>	<b>29800</b>	<b>626</b>		
whole milk, fluid	1	18	0	0	369	47	260	447	382	7	30
lowfat (2% fat) milk, fluid	2	18	0	0	404	24	358	442	400	7	30
chocolate milk, fluid	3	18	0	0	660	111	497	914	651	7	30
skim milk, fluid	4	18	0	0	412	59	315	597	405	7	30
plain yogurt, lowfat	6	18	0	0	597	70	462	747	587	7	30
chocolate milk shake, fast-food	7	18	0	0	773	82	590	896	777	7	30
evaporated milk, canned	8	18	0	0	861	110	732	1050	835	7	30
American, processed cheese	10	18	0	0	14600	1770	9140	16900	14800	9	30
cottage cheese, 4% milkfat	11	18	0	0	3410	350	2760	4110	3360	9	30
cheddar cheese	12	18	0	0	5890	953	3490	8050	5835	9	30
ground beef, pan-cooked	13	18	0	0	764	92	570	960	779	7	30
beef chuck roast, baked	14	18	0	0	676	107	491	937	679	7	30
beef steak, loin, pan-cooked	16	18	0	0	615	81	517	810	590	7	30
ham, baked	17	18	0	0	11400	2020	5820	15100	11400	7	30
pork chop, pan-cooked	18	18	0	0	745	137	550	1130	727	7	30
pork sausage, pan-cooked	19	18	0	0	8830	1100	6470	11000	8900	9	30
pork bacon, pan-cooked	20	18	0	0	19500	3860	14900	29800	18800	9	30
pork roast, baked	21	18	0	0	743	284	456	1310	640	9	30
lamb chop, pan-cooked	22	18	0	0	898	115	710	1110	912	9	30
chicken, fried (breast, leg, and thigh) homemade	24	18	0	0	996	295	750	2060	927	7	30
turkey breast, roasted	26	18	0	0	1530	922	425	3990	1425	7	30
liver, beef, fried	27	18	0	0	734	63	622	852	728	7	30
frankfurters, beef, boiled	28	18	0	0	7900	801	5840	8910	8135	9	30
bologna, sliced	29	18	0	0	10200	740	8850	11900	10300	9	30
salami, sliced	30	18	0	0	13300	2600	9350	18200	12700	9	30
tuna, canned in oil	32	18	0	0	2850	790	1440	4100	3050	8	30
fish sticks, frozen, heated	34	18	0	0	4450	612	3290	5500	4460	8	30
eggs, scrambled	35	18	0	0	2330	615	1080	3280	2290	7	30
eggs, fried	36	18	0	0	1330	70	1140	1460	1340	7	30
eggs, boiled	37	18	0	0	1230	58	1080	1320	1240	7	30
pinto beans, dry, boiled	38	18	14	4	2	5	0	14	0	7	30
pork and beans, canned	39	18	0	0	3190	229	2790	3620	3190	7	30
lima beans, immature, frozen, boiled	42	18	0	0	312	180	102	887	264	7	30
green peas, fresh/frozen, boiled	46	18	0	2	537	395	12	1590	542	7	30
peanut butter, smooth	47	18	0	0	4040	742	2890	5950	4110	9	30
peanuts, dry roasted	48	18	0	0	4720	1570	1430	7460	4800	9	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Sodium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
white rice, cooked	50	18	9	7	30	77	0	308	4	7	30
oatmeal, quick (1-3 min), cooked	51	18	10	4	35	72	0	270	0	7	30
wheat cereal, farina, quick (1-3min), cooked	52	18	1	0	228	113	0	398	222	7	30
corngrits, regular, cooked	53	18	11	3	84	174	0	541	0	7	30
corn, fresh/frozen, boiled	54	18	12	6	5	8	0	24	0	7	30
cream style corn, canned	56	18	0	0	2800	380	2020	3420	2810	7	30
popcorn, popped in oil	57	18	15	1	5	12	0	40	0	9	30
white bread	58	18	0	0	5180	548	3950	6270	5320	9	30
white roll	59	18	0	0	5180	584	4360	6300	5210	9	30
cornbread, homemade	60	18	0	0	4410	1090	1690	5960	4280	7	30
biscuit, from refrigerated dough, baked	61	18	0	0	9850	1110	6970	11400	9900	7	30
whole wheat bread	62	18	0	0	5080	666	3480	6920	5030	7	30
tortilla, flour	63	18	0	0	6070	1530	3040	7940	6430	8	30
rye bread	64	18	0	0	6220	924	3550	7500	6380	7	30
blueberry muffin, commercial	65	18	0	0	3790	706	2500	5180	3840	7	30
saltine crackers	66	18	0	0	10900	1350	8500	15100	10800	7	30
corn chips	67	18	0	0	4840	1100	2950	7140	4970	7	30
pancake from mix	68	18	0	0	5610	535	4470	6370	5740	7	30
egg noodles, boiled	69	18	0	10	54	89	13	402	24	9	30
macaroni, boiled	70	18	9	9	6	7	0	18	4	7	30
corn flakes	71	18	0	0	10100	969	8200	12800	10100	7	30
fruit-flavored, sweetened cereal	72	18	0	0	4890	625	4110	6550	4710	7	30
shredded wheat cereal	73	18	0	13	28	23	11	92.7	16	7	30
raisin bran cereal	74	18	0	0	4890	775	3120	6360	4850	7	30
crisped rice cereal	75	18	0	0	10300	909	8300	12600	10200	7	30
granola cereal	76	18	0	0	2580	885	982	4010	2650	7	30
oat ring cereal	77	18	0	0	9400	798	8260	10800	9340	7	30
apple, red, raw	78	18	6	12	8	7	0	19	8	7	30
orange, raw	79	18	6	12	6	5	0	15	6	5	20
banana, raw	80	18	15	3	1	3	0	10	0	5	20
watermelon, raw	81	18	0	16	11	5	5	24	10	5	20
peach, raw	83	18	16	2	1	2	0	7	0	5	20
applesauce, bottled	84	18	2	8	21	15	0	47	18	5	20
pear, raw	85	18	10	7	5	9	0	35	0	5	20
strawberries, raw	86	18	2	16	9	5	0	18	9	5	20
fruit cocktail, canned in heavy syrup	87	18	0	5	35	10	19	61	35	7	30
grapes, red/green, seedless, raw	88	18	1	13	19	18	0	72	15	5	20

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Sodium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
cantaloupe, raw	89	18	0	0	174	94	58	428	171	5	20
plums, raw	91	18	18	0	0	0	0	0	0	5	20
grapefruit, raw	92	18	2	16	8	4	0	15	8	5	20
pineapple, canned in juice	93	18	6	12	9	8	0	27	10	7	30
sweet cherries, raw	94	12	11	1	1	2	0	7	0	7	30
raisins, dried	95	18	0	0	105	23	63	136	104	9	30
prunes, dried	96	18	0	18	15	3	10	23	14	9	30
avocado, raw	97	18	0	3	49	24	18	119	46	9	30
orange juice, from frozen concentrate	98	18	2	16	8	4	0	14	7	5	20
apple juice, bottled	99	18	0	4	32	17	10	71	28	5	20
grapefruit juice, from frozen concentrate	100	18	0	11	21	13	9	51	15	5	20
prune juice, bottled	103	18	0	3	42	19	6	67	44	5	20
lemonade, from frozen concentrate	105	18	5	13	6	5	0	16	7	5	20
spinach, fresh/frozen, boiled	107	18	0	0	397	270	89	1090	326	5	20
collards, fresh/frozen, boiled	108	18	0	2	148	137	14	510	112	5	20
iceberg lettuce, raw	109	18	0	0	116	61	34	249	105	5	20
cabbage, fresh, boiled	110	18	0	0	86	46	22	188	86	5	20
coleslaw with dressing, homemade	111	18	0	0	3710	940	1940	5720	3740	9	30
sauerkraut, canned	112	18	0	0	5770	893	3240	6900	5890	7	30
broccoli, fresh/frozen, boiled	113	18	0	0	134	47	34	245	130	7	30
celery, raw	114	18	0	0	731	298	264	1330	741	7	30
asparagus, fresh/frozen, boiled	115	18	0	10	39	51	13	237	26	7	30
cauliflower, fresh/frozen, boiled	116	18	0	0	140	48	81	241	127	7	30
tomato, red, raw	117	18	0	12	29	13	14	69	27	7	30
tomato sauce, plain, bottled	119	18	0	0	5140	936	3570	6570	5060	7	30
green beans, fresh/frozen, boiled	121	18	13	5	3	5	0	15	0	7	30
cucumber, raw	123	18	2	16	16	8	0	27	18	7	30
summer squash, fresh/frozen, boiled	124	18	11	7	5	7	0	28	0	7	30
green pepper, raw	125	18	1	17	12	6	0	27	11	7	30
winter squash, fresh/frozen, baked, mashed	126	18	12	6	4	5	0	16	0	7	30
onion, mature, raw	128	18	0	8	33	18	9	85	31	7	30
radish, raw	132	18	0	1	286	203	28	693	260	7	30
French fries, frozen, heated	134	18	0	0	712	779	127	3100	336	8	30
mashed potatoes, from flakes	135	18	0	0	1050	699	389	2590	661	8	30
white potato, boiled without skin	136	18	2	9	17	12	0	40	14	6	20
white potato, baked with skin	137	18	1	6	28	18	0	69	24	6	20
potato chips	138	18	0	0	4550	606	3480	5640	4540	8	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Sodium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
scalloped potatoes, homemade	139	18	0	0	1940	553	960	3380	1870	8	30
sweet potato, fresh, baked	140	18	0	0	222	151	37	501	199	6	20
spaghetti with tomato sauce and meatballs, homemade	142	18	0	0	2060	476	1260	3120	2110	7	30
beef stew with potatoes, carrots, and onion, homemade	143	18	0	0	1830	726	636	3130	2050	7	30
macaroni and cheese, from box mix	146	18	0	0	3110	611	1330	4270	3170	8	30
quarter-pound hamburger on bun, fast food	147	18	0	0	3510	451	2950	4290	3380	7	30
meatloaf, homemade	148	18	0	0	4600	1460	2400	8760	4540	7	30
spaghetti with tomato sauce, canned	149	18	0	0	3470	502	2450	4490	3490	7	30
lasagna with meat, homemade	151	18	0	0	3580	861	1880	5350	3520	7	30
chicken potpie, frozen, heated	152	18	0	0	4140	433	3660	5450	4100	6	20
chicken noodle soup, canned, condensed, prepared with water	155	18	0	0	3790	517	2700	4550	3870	6	20
tomato soup, canned, condensed, prepared with water	156	18	0	0	2720	454	1820	3470	2830	6	20
vegetable beef soup, canned, condensed, prepared with water	157	18	0	0	3140	425	2370	3900	3210	7	30
white sauce, homemade	160	18	0	0	3600	808	2230	5400	3730	5	20
dill cucumber pickles	161	18	0	0	8480	2290	5400	12000	8330	7	30
margarine, stick, regular (salted)	162	18	0	0	7380	639	5850	8910	7270	8	30
butter, regular (salted)	164	18	0	0	5760	539	4910	6850	5670	8	30
mayonnaise, regular, bottled	166	18	0	0	5040	675	3540	6020	5150	9	30
half & half cream	167	18	0	0	543	200	361	1010	460	7	30
cream substitute, frozen	168	18	0	0	555	122	381	745	582	7	30
white sugar, granulated	169	18	12	6	4	6	0	17	0	8	30
pancake syrup	170	18	0	0	826	309	490	1540	721	8	30
honey	172	18	0	17	21	8	11	41	21	8	30
tomato catsup	173	18	0	0	11000	1170	8100	12900	11300	6	20
chocolate pudding, from instant mix	175	18	0	0	3000	509	1240	3620	3060	7	30
vanilla flavored light ice cream	177	18	0	0	753	84	609	940	765	7	30
chocolate cake with chocolate icing, commercial	178	18	0	0	3480	371	2950	4130	3420	9	30
yellow cake with white icing, prepared from cake and icing mixes	179	18	0	0	3000	397	2160	3760	3010	8	30
sweet roll/Danish, commercial	182	18	0	0	3490	603	2500	4910	3540	9	30
chocolate chip cookies, commercial	183	18	0	0	3300	425	2170	4020	3300	8	30
sandwich cookies with creme filling, commercial	184	18	0	0	3830	718	2680	5450	3990	8	30



**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Sodium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
apple pie, fresh/frozen, commercial	185	18	0	0	2470	329	1740	3000	2540	8	30
pumpkin pie, fresh/frozen, commercial	186	18	0	0	2660	271	2250	3240	2590	8	30
milk chocolate candy bar, plain	187	18	0	0	702	87	479	910	714	8	30
caramel candy	188	18	0	0	2290	677	900	3350	2500	8	30
gelatin dessert, any flavor	190	18	0	0	486	123	284	770	462	7	30
cola carbonated beverage	191	18	0	5	33	23	11	109	29	6	20
fruit drink, from powder	193	18	2	6	26	24	0	102	21	5	20
low-calorie cola carbonated beverage	194	18	0	4	50	30	15	110	42	5	20
coffee, decaffeinated, from instant	196	18	0	9	15	12	3	51	10	3	10
tea, from tea bag	197	18	9	4	10	16	0	49	2	3	10
beer	198	18	0	4	31	18	15	92	26	5	20
dry table wine	199	18	1	0	40	16	0	67	36	4	20
whiskey	200	18	5	11	4	4	0	13	4	3	10
tap water	201	18	0	1	28	30	4	125	18	1.3	5
milk-based infant formula, high iron, ready-to-feed	202	18	0	0	219	38	165	299	205	7	30
milk-based infant formula, low iron, ready-to-feed	203	18	0	0	223	45	184	332	204	7	30
beef, strained/junior	205	18	0	0	436	31	349	500	436	7	30
chicken, strained/junior	207	18	0	0	476	46	372	570	475	7	30
chicken/turkey with vegetables, high/lean meat, strained/junior	208	2	0	0	266	39	238	293	266	7	30
beef with vegetables, high/lean meat, strained/junior	209	2	0	0	183	38	156	210	183	7	30
ham with vegetables, high/lean meat, strained/junior	210	2	0	0	176	14	166	186	176	7	30
vegetables and beef, strained/junior	211	18	0	0	303	288	62	877	153	7	30
vegetables and chicken, strained/junior	212	18	0	0	275	240	94	1020	179	7	30
vegetables and ham, strained/junior	213	18	0	0	198	226	58	838	107	7	30
chicken noodle dinner, strained/junior	214	18	0	0	265	254	104	988	174	7	30
macaroni, tomatoes, and beef, strained/junior	215	18	0	0	238	81	89	419	239	7	30
turkey and rice, strained/junior	216	18	0	0	305	286	102	1110	189	7	30
carrots, strained/junior	218	18	0	0	288	149	124	615	236	7	30
green beans, strained/junior	219	18	2	11	65	125	0	429	25	7	30
mixed vegetables, strained/junior	220	18	0	0	212	190	45	709	130	7	30
sweet potatoes, strained/junior	221	18	0	1	108	54	26	230	94	7	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Sodium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
creamed corn, strained/junior	222	18	0	0	86	21	52	125	84	7	30
peas, strained/junior	223	18	0	3	91	143	23	512	42	7	30
creamed spinach, strained/junior	224	18	0	0	229	60	156	386	215	7	30
applesauce, strained/junior	225	18	11	7	4	6	0	21	0	7	30
peaches, strained/junior	226	18	2	15	17	13	0	63	15	7	30
pears, strained/junior	227	18	11	7	5	7	0	24	0	7	30
apple juice, strained	230	18	0	17	20	6	13	33	20	7	30
orange juice, strained	231	18	0	18	17	5	10	28	17	7	30
custard pudding, strained/junior	232	18	0	0	270	46	198	347	265	7	30
fruit dessert/pudding, strained/junior	233	18	1	5	44	19	0	70	47	7	30
fruit-flavored yogurt, lowfat (fruit mixed in)	235	18	0	0	517	68	376	658	520	7	30
Swiss cheese	236	18	0	0	1920	322	1410	2370	2030	9	30
cream cheese	237	18	0	0	2970	518	1810	4010	3150	9	30
veal cutlet, pan-cooked	238	18	0	0	765	117	438	928	786	7	30
ham luncheon meat, sliced	239	18	0	0	10500	2110	5780	13400	11200	7	30
chicken breast, roasted	240	18	0	0	595	167	452	1200	569	7	30
chicken nuggets, fast-food	241	18	0	0	6630	1840	4100	9660	5890	7	30
chicken, fried (breast, leg, and thigh), fast-food	242	18	0	0	5650	1110	4140	8210	5580	7	30
haddock, pan-cooked	243	18	0	0	1360	411	669	2090	1260	8	30
shrimp, boiled	244	18	0	0	2780	1490	1150	7510	2540	8	30
kidney beans, dry, boiled	245	18	12	5	5	9	0	30	0	7	30
peas, mature, dry, boiled	246	18	1	14	16	15	0	63	11	7	30
mixed nuts, no peanuts, dry roasted	247	18	0	0	2830	644	1330	3820	3010	9	30
cracked wheat bread	248	18	0	0	5040	542	4210	6400	5110	7	30
bagel, plain	249	18	0	0	4670	425	3900	5420	4760	9	30
English muffin, plain, toasted	250	18	0	0	4940	964	3600	6630	4690	8	30
graham crackers	251	18	0	0	5410	777	3890	6830	5470	7	30
butter-type crackers	252	18	0	0	7500	729	5700	8520	7630	7	30
apricot, raw	253	13	12	1	1	3	0	9	0	7	30
peach, canned in light/medium syrup	254	18	0	7	34	7	24	51	35	7	30
pear, canned in light syrup	255	18	0	11	25	13	8	57	26	7	30
pineapple juice, from frozen concentrate	256	18	1	17	9	4	0	20	8	5	20
grape juice, from frozen concentrate	257	18	0	8	26	12	14	64	24	5	20
French fries, fast-food	258	18	0	0	2610	1630	669	6400	2510	8	30
carrot, fresh, boiled	259	18	0	0	512	156	263	793	480	7	30
tomato, stewed, canned	260	18	0	0	2240	691	1010	3600	2310	7	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Sodium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
tomato juice, bottled	261	18	0	0	2770	468	2100	3790	2710	7	30
beets, fresh/frozen, boiled	262	18	0	0	709	483	105	1920	659	7	30
Brussels sprouts, fresh/frozen, boiled	263	18	0	0	154	89	61	419	124	7	30
mushrooms, raw	264	18	0	6	36	14	17	68	34	7	30
eggplant, fresh, boiled	265	18	6	12	9	8	0	24	9	7	30
turnip, fresh/frozen, boiled	266	18	0	2	157	152	25	564	115	7	30
okra, fresh/frozen, boiled	267	18	0	2	62	33	20	147	53	7	30
mixed vegetables, frozen, boiled	268	18	0	0	231	102	34	443	219	7	30
beef stroganoff, homemade	269	18	0	0	1050	292	657	1760	1040	7	30
green peppers stuffed with beef and rice, homemade	270	18	0	0	1070	351	517	2000	982	7	30
chili con carne with beans, homemade	271	18	0	0	3250	1130	2090	7010	3080	7	30
tuna noodle casserole, homemade	272	18	0	0	3890	696	2790	5190	3720	8	30
frozen meal - salisbury steak with gravy, potatoes, and vegetable, heated	273	17	0	0	3400	419	2700	4190	3350	7	30
frozen meal - turkey with gravy, dressing, potatoes, and vegetable, heated	274	18	0	0	3700	428	3060	4750	3620	7	30
quarter-pound cheeseburger on bun, fast-food	275	18	0	0	5150	843	3600	7420	5110	7	30
fish sandwich on bun, fast-food	276	18	0	0	4810	551	4190	6600	4710	8	30
frankfurter on bun, fast-food	277	18	0	0	7380	905	5800	9000	7300	9	30
egg, cheese, and ham on English muffin, fast-food	278	18	0	0	6000	502	5200	7130	6020	7	30
taco/tostada, from Mexican carry-out	279	18	0	0	3940	761	2550	5400	3900	7	30
cheese pizza, regular crust, from pizza carry-out	280	18	0	0	5330	723	3920	6720	5110	8	30
cheese and pepperoni pizza, regular crust, from pizza carry-out	281	18	0	0	6280	718	5290	7780	6150	8	30
beef chow mein, from Chinese carry-out	282	18	0	0	3610	908	1680	5250	3690	7	30
bean with bacon/pork soup, canned, condensed, prepared with water	283	18	0	0	3470	386	2940	4560	3440	7	30
mushroom soup, canned, condensed, prepared with whole milk	284	18	0	0	3600	312	2880	4150	3630	7	30
clam chowder, New England, canned, condensed, prepared with whole milk	285	18	0	0	3610	472	2970	4460	3550	8	30

**US Food and Drug Administration — Total Diet Study — Market Baskets 91-3 through 97-1**

**Sodium - Summary of Results**

TDS Food Description	TDS Food No.	Number of Results	Number Not Detected	Number of Traces	Mean (mg/kg)	Standard Deviation (mg/kg)	Minimum (mg/kg)	Maximum (mg/kg)	Median (mg/kg)	Nominal LOD (mg/kg)	Nominal LOQ (mg/kg)
vanilla ice cream	286	18	0	0	655	125	470	990	635	7	30
fruit flavor sherbet	287	18	0	0	292	42	204	352	292	7	30
popsicle, any flavor	288	18	0	0	98	34	43	163	92	7	30
chocolate snack cake with chocolate icing	289	18	0	0	2930	408	2180	3610	2960	9	30
cake doughnuts with icing, any flavor, from doughnut store	290	18	0	0	4100	463	3330	5080	4260	8	30
brownies, commercial	291	18	0	0	2190	329	1630	2870	2190	8	30
sugar cookies, commercial	292	18	0	0	3440	710	2070	4790	3590	8	30
suckers, any flavor	293	18	0	0	471	352	110	1770	419	8	30
pretzels, hard, salted, any shape	294	18	0	0	17700	4460	10900	26100	17300	8	30
chocolate syrup dessert topping	295	18	0	0	579	194	345	1020	508	8	30
jelly, any flavor	296	18	0	0	315	115	100	504	349	8	30
sweet cucumber pickles	297	18	0	0	4860	702	2980	6150	4880	7	30
yellow mustard	298	18	0	0	11300	1010	9600	13700	11300	7	30
black olives	299	18	0	0	7160	968	4880	8930	7200	7	30
sour cream	300	18	0	0	560	184	357	961	516	7	30
brown gravy, homemade	301	18	0	0	1770	1760	256	6850	1090	7	30
French salad dressing, regular	302	18	0	0	6870	1180	5000	9810	6830	8	30
Italian salad dressing, low-calorie	303	18	0	0	13300	2050	10400	16500	13500	8	30
olive/safflower oil	304	18	13	2	17	40	0	142	0	8	30
coffee, from ground	305	18	7	6	13	16	0	55	7	5	20
fruit-flavored carbonated beverage	306	18	0	0	69	27	30	138	64	5	20
fruit drink, canned	307	18	0	3	46	50	14	231	28	5	20
martini	308	18	5	11	4	3	0	12	3	3	10
soy-based infant formula, ready-to-feed	309	18	0	0	299	42	248	406	298	7	30
egg yolk, strained/junior	310	12	0	0	380	47	344	520	370	7	30
rice infant cereal, instant, prepared with whole milk	311	18	0	1	309	85	25	410	305	7	30
rice cereal, strained/junior	312	18	0	0	82	26	43	142	81	7	30
bananas with tapioca, strained/junior	313	18	0	4	40	13	21	66	35	7	30
beets, strained/junior	314	15	0	0	292	264	132	1180	225	7	30
split peas with vegetables and ham/bacon	316	18	0	0	529	412	45	1390	359	7	30
teething biscuits	317	18	0	0	2390	385	1590	2950	2540	7	30