**Table S3.** Minimum Weight: Overall food group based pairings, chi-square statistics, and top-food matches.

Spices and Herbs

--overall chi-square: 0.0558311364347 degrees of freedom: 8.0

 Vegetables and Vegetable Products 9629 localChiSquare: 0.0041097666038 degrees of freedom: 1

 Edamame, frozen, unprepared 44

 Edamame, frozen, prepared 42

 Asparagus, frozen, cooked, boiled, drained, with salt 39

 Squash, zucchini, baby, raw 37

 Lambsquarters, raw 36

 Asparagus, canned, no salt added, solids and liquids 35

 Legumes and Legume Products 4201 localChiSquare: 0.0292443225598 degrees of freedom: 1

 Winged beans, mature seeds, raw 40

 Soy sauce made from soy (tamari) 39

 Meat extender 37

 Beans, kidney, royal red, mature seeds, raw 36

 Nut and Seed Products 1808 localChiSquare: 0.00104924794053 degrees of freedom: 1

 Seeds, pumpkin and squash seeds, whole, roasted, without salt 32

 Seeds, pumpkin and squash seeds, whole, roasted, with salt added 32

 Nuts, cashew nuts, oil roasted, without salt added 25

 Nuts, cashew nuts, oil roasted, with salt added 25

 Seeds, sunflower seed flour, partially defatted 24

 Nuts, cashew nuts, raw 23

 Cereal Grains and Pasta 1741 localChiSquare: 0.0116841950343 degrees of freedom: 1

 Wheat germ, crude 44

 Buckwheat groats, roasted, dry 19

 Oat bran, raw 19

 Quinoa, uncooked 19

 Rice bran, crude 19

 Buckwheat flour, whole-groat 18

 Buckwheat 17

 Wheat bran, crude 17

 Amaranth, uncooked 16

 Fruits and Fruit Juices 1428 localChiSquare: 0.0119323700848 degrees of freedom: 1

 Cranberries, raw 19

 Apricots, dehydrated (low-moisture), sulfured, stewed 17

 Applesauce, canned, unsweetened, with added ascorbic acid 17

 Apricots, dehydrated (low-moisture), sulfured, uncooked 16

 Orange juice, chilled, includes from concentrate 16

 Orange juice, chilled, includes from concentrate, fortified with calcium and vitamin D 16

 Orange juice, chilled, includes from concentrate, fortified with calcium 16

 Breakfast Cereals 776 localChiSquare: 0.00475287991985 degrees of freedom: 1

 Cereals ready-to-eat, wheat germ, toasted, plain 47

 Incaparina, dry mix (corn and soy flours), unprepared 21

 Cereals, oats, regular and quick and instant, not fortified, dry 15

 Cereals, corn grits, white, regular, quick, unenriched, cooked with water, with salt 14

 Cereals, corn grits, yellow, regular and quick, enriched, cooked with water, without salt 14

 Cereals, corn grits, yellow, regular, quick, enriched, cooked with water, with salt 14

 Cereals ready-to-eat, KELLOGG, KELLOGG'S CRISPIX 13

 Cereals, corn grits, white, regular and quick, unenriched, dry 13

 Cereals, corn grits, yellow, regular and quick, enriched, dry 13

 Spices and Herbs 390 localChiSquare: 0.00121612968029 degrees of freedom: 1

 Spices, parsley, dried 38

 Spices, fenugreek seed 32

 Spices, garlic powder 28

 Spices, poppy seed 21

 Spices, cinnamon, ground 21

 Mustard, prepared, yellow 21

 Spices, caraway seed 19

 Fats and Oils 71 localChiSquare: 0.000328986586397 degrees of freedom: 1

 Salad dressing, french dressing, commercial, regular 14

 Margarine-like, vegetable oil spread, unspecified oils, approximately 37 fat, with salt 13

 Sandwich spread, with chopped pickle, regular, unspecified oils 12

 Beverages 33 localChiSquare: 0.000753694826255 degrees of freedom: 1

 Orange drink, breakfast type, with juice and pulp, frozen concentrate 9

 Coffee, instant, decaffeinated, powder 8

Fats and Oils

--overall chi-square: 0.235767792777 degrees of freedom: 8.0

 Vegetables and Vegetable Products 1440 localChiSquare: 0.127483685488 degrees of freedom: 1

 Peas and carrots, frozen, cooked, boiled, drained, without salt 21

 Edamame, frozen, prepared 12

 Lambsquarters, raw 12

 Lambsquarters, cooked, boiled, drained, without salt 11

 Lambs quarters, cooked, boiled, drained, with salt 11

 Squash, zucchini, baby, raw 11

 Edamame, frozen, unprepared 10

 Tomatoes, sun-dried 10

 Legumes and Legume Products 350 localChiSquare: 9.86855555711e-05 degrees of freedom: 1

 Falafel, home-prepared 9

 Hummus, home prepared 8

 Bacon, meatless 6

 Meat extender 6

 Sausage, meatless 6

 Soybeans, mature seeds, raw 6

 Soybeans, mature cooked, boiled, without salt 6

 Soybeans, mature seeds, roasted, salted 6

 Soybeans, mature seeds, dry roasted 6

 Soy flour, full-fat, raw 6

 Fruits and Fruit Juices 247 localChiSquare: 7.80035616732e-05 degrees of freedom: 1

 Avocados, raw, Florida 8

 Avocados, raw, all commercial varieties 7

 Avocados, raw, California 7

 Pineapple, frozen, chunks, sweetened 6

 Apricots, canned, juice pack, with skin, solids and liquids 4

 Apricots, canned, heavy syrup pack, without skin, solids and liquids 4

 Apricots, canned, extra heavy syrup pack, without skin, solids and liquids 4

 Apricots, dried, sulfured, stewed, with added sugar 4

 Oranges, raw, all commercial varieties 4

 Oranges, raw, California, valencias 4

 Nut and Seed Products 123 localChiSquare: 0.0239232157346 degrees of freedom: 1

 Seeds, pumpkin and squash seeds, whole, roasted, without salt 12

 Nuts, coconut meat, dried (desiccated), sweetened, flaked, packaged 6

 Seeds, lotus seeds, raw 6

 Nuts, beechnuts, dried 5

 Nuts, chestnuts, european, dried, unpeeled 5

 Nuts, chestnuts, european, dried, peeled 5

 Nuts, formulated, wheat-based, flavored, macadamia flavored, without salt 5

 Nuts, acorns, raw 4

 Nuts, acorns, dried 4

 Nuts, acorn flour, full fat 4

 Spices and Herbs 71 localChiSquare: 0.0164337064412 degrees of freedom: 1

 Spices, cinnamon, ground 13

 Spices, garlic powder 13

 Spices, mustard seed, ground 12

 Cereal Grains and Pasta 43 localChiSquare: 0.0998064205036 degrees of freedom: 1

 Wheat germ, crude 15

 Breakfast Cereals 25 localChiSquare: 0.0367232760471 degrees of freedom: 1

 Cereals ready-to-eat, wheat germ, toasted, plain 15

 Incaparina, dry mix (corn and soy flours), unprepared 4

 Cereals, CREAM OF WHEAT, 1 minute cook time, cooked with water, stove-top, without salt 2

 Cereals, oats, instant, fortified, plain, dry 1

 Fats and Oils 4 localChiSquare: 0.00195412248729 degrees of freedom: 1

 Salad dressing, french dressing, reduced fat 2

Breakfast Cereals

--overall chi-square: 0.560187790705 degrees of freedom: 8.0

 Vegetables and Vegetable Products 12022 localChiSquare: 8.44443302959e-05 degrees of freedom: 1

 Asparagus, frozen, cooked, boiled, drained, with salt 171

 Asparagus, canned, no salt added, solids and liquids 167

 Horseradish-tree leafy tips, raw 149

 Cauliflower, green, raw 146

 Legumes and Legume Products 10233 localChiSquare: 0.442641616935 degrees of freedom: 1

 Tofu, dried-frozen (koyadofu) 148

 Tofu, dried-frozen (koyadofu), prepared with calcium sulfate 148

 Soy flour, full-fat, roasted 147

 Soy flour, full-fat, raw, crude protein basis (N x 6.25) 147

 Soy flour, full-fat, roasted, crude protein basis (N x 6.25) 147

 Winged beans, mature seeds, raw 146

 Soybeans, mature seeds, roasted, no salt added 146

 Fruits and Fruit Juices 1288 localChiSquare: 0.0336072962553 degrees of freedom: 1

 Pineapple, frozen, chunks, sweetened 82

 Applesauce, canned, unsweetened, with added ascorbic acid 68

 Watermelon, raw 55

 Applesauce, canned, sweetened, with salt 52

 Applesauce, canned, sweetened, without salt (includes USDA commodity) 51

 Nut and Seed Products 841 localChiSquare: 0.0516696373396 degrees of freedom: 1

 Seeds, lotus seeds, dried 87

 Seeds, pumpkin and squash seeds, whole, roasted, with salt added 69

 Seeds, pumpkin and squash seeds, whole, roasted, without salt 68

 Seeds, lotus seeds, raw 29

 Nuts, coconut meat, dried (desiccated), sweetened, flaked, packaged 27

 Seeds, breadnut tree seeds, dried 23

 Nuts, beechnuts, dried 16

 Nuts, chestnuts, european, dried, unpeeled 16

 Seeds, breadfruit seeds, raw 10

 Cereal Grains and Pasta 836 localChiSquare: 0.0766653111171 degrees of freedom: 1

 Wheat germ, crude 201

 Wild rice, raw 7

 Wheat bran, crude 6

 Macaroni, protein-fortified, dry, enriched, (n x 5.70) 6

 Spaghetti, protein-fortified, dry, enriched (n x 5.70) 6

 Macaroni, protein-fortified, dry, enriched, (n x 6.25) 6

 Spaghetti, protein-fortified, dry, enriched (n x 6.25) 6

 Semolina, enriched 5

 Sorghum 5

 Wheat, hard red spring 5

 Spices and Herbs 776 localChiSquare: 0.0131834087633 degrees of freedom: 1

 Spices, fenugreek seed 209

 Spices, garlic powder 178

 Spices, parsley, dried 145

 Spices, cinnamon, ground 68

 Spices, onion powder 46

 Spices, oregano, dried 10

 Dill weed, fresh 10

 Spices, ginger, ground 6

 Spices, poppy seed 5

 Mustard, prepared, yellow 5

 Breakfast Cereals 544 localChiSquare: 0.0222633977128 degrees of freedom: 1

 Cereals ready-to-eat, wheat germ, toasted, plain 202

 Incaparina, dry mix (corn and soy flours), unprepared 74

 Cereals, oats, regular and quick and instant, not fortified, dry 6

 Cereals, oats, regular and quick and instant, unenriched, cooked with water (includes boiling and microwaving), without salt 5

 Cereals, oats, instant, fortified, plain, dry 5

 Cereals, CREAM OF WHEAT, instant, prepared with water, with salt, (wheat) 4

 Fats and Oils 25 localChiSquare: 0.0031070157362 degrees of freedom: 1

 Salad dressing, italian dressing, reduced fat 5

 Sandwich spread, with chopped pickle, regular, unspecified oils 4

 Beverages 15 localChiSquare: 0.00217036039596 degrees of freedom: 1

 Coffee, instant, decaffeinated, powder 4

Fruits and Fruit Juices

--overall chi-square: 0.166762843972 degrees of freedom: 8.0

 Vegetables and Vegetable Products 27197 localChiSquare: 0.0114997722724 degrees of freedom: 1

 Peas and carrots, frozen, cooked, boiled, drained, without salt 244

 Cauliflower, green, cooked, with salt 232

 Cauliflower, green, cooked, no salt added 230

 Cauliflower, green, raw 224

 Lambsquarters, cooked, boiled, drained, without salt 223

 Lambs quarters, cooked, boiled, drained, with salt 223

 Lambsquarters, raw 220

 Squash, zucchini, baby, raw 200

 Cauliflower, frozen, cooked, boiled, drained, with salt 199

 Legumes and Legume Products 13433 localChiSquare: 0.077585156706 degrees of freedom: 1

 Falafel, home-prepared 197

 Soy flour, defatted 182

 Soy flour, low-fat, crude protein basis (N x 6.25) 182

 Soy flour, defatted, crude protein basis (N x 6.25) 181

 Soy meal, defatted, raw 178

 Winged beans, mature seeds, raw 178

 Soy meal, defatted, raw, crude protein basis (N x 6.25) 178

 Soy flour, full-fat, roasted 175

 Soy flour, full-fat, roasted, crude protein basis (N x 6.25) 175

 Nut and Seed Products 5017 localChiSquare: 0.000598657191734 degrees of freedom: 1

 Seeds, pumpkin and squash seeds, whole, roasted, without salt 253

 Seeds, pumpkin and squash seeds, whole, roasted, with salt added 253

 Nuts, coconut meat, dried (desiccated), sweetened, flaked, packaged 157

 Nuts, formulated, wheat-based, flavored, macadamia flavored, without salt 152

 Seeds, lotus seeds, raw 140

 Nuts, formulated, wheat-based, all flavors except macadamia, without salt 132

 Cereal Grains and Pasta 2981 localChiSquare: 0.0421115775851 degrees of freedom: 1

 Wheat germ, crude 200

 Amaranth, uncooked 130

 Fruits and Fruit Juices 2616 localChiSquare: 0.0339231159626 degrees of freedom: 1

 Applesauce, canned, unsweetened, with added ascorbic acid 66

 Dates, medjool 63

 Pineapple, canned, juice pack, solids and liquids 55

 Pineapple, frozen, chunks, sweetened 55

 Spices and Herbs 1428 localChiSquare: 0.00831665563968 degrees of freedom: 1

 Spices, fenugreek seed 229

 Spices, garlic powder 143

 Spices, cinnamon, ground 142

 Spices, caraway seed 103

 Mustard, prepared, yellow 68

 Spices, poppy seed 56

 Spices, basil, dried 46

 Breakfast Cereals 1288 localChiSquare: 0.0181735450161 degrees of freedom: 1

 Incaparina, dry mix (corn and soy flours), unprepared 71

 Cereals, oats, instant, fortified, plain, dry 54

 Cereals ready-to-eat, wheat, shredded, plain, sugar and salt free 40

 Cereals, oats, regular and quick and instant, not fortified, dry 39

 Cereals, oats, regular and quick and instant, unenriched, cooked with water (includes boiling and microwaving), without salt 28

 Cereals ready-to-eat, KELLOGG, KELLOGG'S ALL-BRAN Original 27

 Cereals, oats, instant, fortified, plain, prepared with water (boiling water added or microwaved) 25

 Fats and Oils 247 localChiSquare: 1.1888927106e-05 degrees of freedom: 1

 Salad dressing, italian dressing, reduced fat 71

 Margarine-like, vegetable oil spread, unspecified oils, approximately 37 fat, with salt 64

 Margarine, regular, hard, soybean (hydrogenated) 62

 Salad dressing, french dressing, reduced fat 28

 Sandwich spread, with chopped pickle, regular, unspecified oils 19

 Beverages 73 localChiSquare: 0.00107258023794 degrees of freedom: 1

 Coffee, instant, decaffeinated, powder 23

Vegetables and Vegetable Products

--overall chi-square: 0.0503725610508 degrees of freedom: 8.0

 Vegetables and Vegetable Products 176816 localChiSquare: 0.012212641063 degrees of freedom: 1

 Squash, zucchini, baby, raw 1325

 Lambs quarters, cooked, boiled, drained, with salt 1207

 Squash, summer, zucchini, includes skin, frozen, cooked, boiled, drained, with salt 1010

 Squash, summer, zucchini, includes skin, raw 967

 Squash, summer, zucchini, includes skin, frozen, unprepared 952

 Squash, summer, all varieties, raw 942

 Legumes and Legume Products 59961 localChiSquare: 0.00383654577474 degrees of freedom: 1

 Soy sauce made from soy and wheat (shoyu) 713

 MORI-NU, Tofu, silken, soft 698

 Soy sauce made from soy and wheat (shoyu), low sodium 692

 Soy flour, low-fat, crude protein basis (N x 6.25) 617

 Soy flour, defatted, crude protein basis (N x 6.25) 614

 Soy meal, defatted, raw 609

 Soy meal, defatted, raw, crude protein basis (N x 6.25) 609

 Nut and Seed Products 36235 localChiSquare: 0.000117866030907 degrees of freedom: 1

 Seeds, pumpkin and squash seeds, whole, roasted, with salt added 1038

 Seeds, pumpkin and squash seeds, whole, roasted, without salt 1037

 Nuts, coconut meat, dried (desiccated), sweetened, flaked, packaged 854

 Seeds, cottonseed kernels, roasted (glandless) 602

 Nuts, acorn flour, full fat 540

 Cereal Grains and Pasta 27848 localChiSquare: 0.0171978398092 degrees of freedom: 1

 Wheat germ, crude 1100

 Amaranth, uncooked 590

 Fruits and Fruit Juices 27197 localChiSquare: 0.00791987057796 degrees of freedom: 1

 Pineapple, frozen, chunks, sweetened 415

 Pineapple, canned, juice pack, solids and liquids 383

 Peaches, raw 355

 Pineapple, canned, water pack, solids and liquids 339

 Cherries, sweet, raw 330

 Pineapple, canned, light syrup pack, solids and liquids 305

 Pineapple, canned, extra heavy syrup pack, solids and liquids 302

 Pineapple, canned, heavy syrup pack, solids and liquids 298

 Breakfast Cereals 12022 localChiSquare: 0.00786530964635 degrees of freedom: 1

 Cereals ready-to-eat, wheat germ, toasted, plain 1036

 Incaparina, dry mix (corn and soy flours), unprepared 359

 Cereals, oats, instant, fortified, plain, dry 344

 Cereals, oats, regular and quick and instant, not fortified, dry 291

 Cereals, oats, instant, fortified, plain, prepared with water (boiling water added or microwaved) 227

 Cereals, oats, regular and quick and instant, unenriched, cooked with water (includes boiling and microwaving), without salt 209

 Cereals, farina, enriched, cooked with water, without salt 192

 Spices and Herbs 9629 localChiSquare: 0.0099848891665 degrees of freedom: 1

 Mustard, prepared, yellow 861

 Spices, garlic powder 772

 Spices, caraway seed 672

 Spices, fenugreek seed 621

 Spices, cinnamon, ground 614

 Spearmint, dried 496

 Basil, fresh 449

 Spices, fennel seed 403

 Fats and Oils 1440 localChiSquare: 0.000101260161822 degrees of freedom: 1

 Margarine-like, vegetable oil spread, unspecified oils, approximately 37 fat, with salt 283

 Sandwich spread, with chopped pickle, regular, unspecified oils 254

 Beverages 600 localChiSquare: 0.000694466768404 degrees of freedom: 1

 Orange drink, breakfast type, with juice and pulp, frozen concentrate 201

 Coffee, instant, regular, powder 134

 Coffee, instant, decaffeinated, powder 133

Nut and Seed Products

--overall chi-square: 0.56108810526 degrees of freedom: 8.0

 Vegetables and Vegetable Products 36235 localChiSquare: 0.00217817366891 degrees of freedom: 1

 Edamame, frozen, prepared 375

 Lambsquarters, raw 370

 Lambsquarters, cooked, boiled, drained, without salt 354

 Lambs quarters, cooked, boiled, drained, with salt 354

 Soybeans, mature seeds, sprouted, raw 254

 Cauliflower, green, cooked, no salt added 254

 Cauliflower, green, cooked, with salt 254

 Asparagus, frozen, cooked, boiled, drained, with salt 251

 Legumes and Legume Products 29244 localChiSquare: 0.42443749225 degrees of freedom: 1

 Soy sauce made from soy (tamari) 344

 Tofu, raw, firm, prepared with calcium sulfate 311

 Falafel, home-prepared 310

 Tofu, hard, prepared with nigari 300

 Tofu, dried-frozen (koyadofu) 290

 Tofu, dried-frozen (koyadofu), prepared with calcium sulfate 290

 Winged beans, mature seeds, raw 288

 Soybeans, mature seeds, cooked, boiled, with salt 286

 Fruits and Fruit Juices 5017 localChiSquare: 0.0165354655915 degrees of freedom: 1

 Apples, frozen, unsweetened, heated 152

 Applesauce, canned, unsweetened, without added ascorbic acid (includes USDA commodity) 145

 Applesauce, canned, unsweetened, with added ascorbic acid 145

 Applesauce, canned, sweetened, without salt (includes USDA commodity) 122

 Applesauce, canned, sweetened, with salt 122

 Watermelon, raw 111

 Nut and Seed Products 2562 localChiSquare: 0.0491864531263 degrees of freedom: 1

 Seeds, pumpkin and squash seeds, whole, roasted, without salt 206

 Seeds, pumpkin and squash seeds, whole, roasted, with salt added 206

 Seeds, lotus seeds, dried 203

 Seeds, lotus seeds, raw 98

 Seeds, breadfruit seeds, raw 83

 Spices and Herbs 1808 localChiSquare: 0.00465127843202 degrees of freedom: 1

 Spices, fenugreek seed 387

 Spices, garlic powder 276

 Dill weed, fresh 136

 Spices, cinnamon, ground 112

 Spices, ginger, ground 65

 Mustard, prepared, yellow 55

 Cereal Grains and Pasta 1099 localChiSquare: 0.108454112772 degrees of freedom: 1

 Wheat germ, crude 310

 Cornstarch 18

 Oat bran, raw 16

 Rice bran, crude 16

 Wheat bran, crude 16

 Amaranth, uncooked 14

 Breakfast Cereals 841 localChiSquare: 0.0365969039178 degrees of freedom: 1

 Cereals ready-to-eat, wheat germ, toasted, plain 319

 Incaparina, dry mix (corn and soy flours), unprepared 163

 Cereals, CREAM OF RICE, cooked with water, without salt 11

 Cereals, oats, instant, fortified, plain, dry 11

 Cereals, CREAM OF RICE, cooked with water, with salt 11

 Cereals ready-to-eat, GENERAL MILLS, CINNAMON TOAST CRUNCH 8

 Cereals, oats, regular and quick and instant, not fortified, dry 8

 Cereals, oats, instant, fortified, plain, prepared with water (boiling water added or microwaved) 8

 Cereals, corn grits, white, regular, quick, unenriched, cooked with water, with salt 8

 Cereals, corn grits, yellow, regular, quick, enriched, cooked with water, with salt 8

 Fats and Oils 123 localChiSquare: 0.0021352290089 degrees of freedom: 1

 Salad dressing, french dressing, reduced fat 31

 Margarine, regular, hard, soybean (hydrogenated) 30

 Margarine-like, vegetable oil spread, unspecified oils, approximately 37 fat, with salt 24

 Salad dressing, french dressing, commercial, regular 14

 Sandwich spread, with chopped pickle, regular, unspecified oils 12

 Beverages 14 localChiSquare: 0.00284789480364 degrees of freedom: 1

 Orange drink, breakfast type, with juice and pulp, frozen concentrate 9

 Coffee, instant, with chicory, powder 3

 Coffee, instant, decaffeinated, powder 1

Beverages

--overall chi-square: 0.758301001302 degrees of freedom: 8.0

 Vegetables and Vegetable Products 600 localChiSquare: 0.00112395110839 degrees of freedom: 1

 Horseradish-tree leafy tips, raw 10

 Asparagus, frozen, unprepared 9

 Asparagus, frozen, cooked, boiled, drained, without salt 9

 Cauliflower, cooked, boiled, drained, with salt 9

 Cauliflower, cooked, boiled, drained, without salt 9

 Cauliflower, frozen, unprepared 9

 Cauliflower, green, raw 9

 Legumes and Legume Products 545 localChiSquare: 0.591244944022 degrees of freedom: 1

 Falafel, home-prepared 10

 Soy sauce made from soy (tamari) 9

 Sausage, meatless 8

 Soybeans, mature seeds, raw 8

 Soybeans, mature cooked, boiled, without salt 8

 Soybeans, mature seeds, roasted, salted 8

 Soybeans, mature seeds, dry roasted 8

 Soy flour, full-fat, raw 8

 Soy flour, full-fat, roasted 8

 Fruits and Fruit Juices 73 localChiSquare: 0.0246592690357 degrees of freedom: 1

 Apples, frozen, unsweetened, heated 7

 Apples, dried, sulfured, uncooked 6

 Watermelon, raw 6

 Apples, dehydrated (low moisture), sulfured, uncooked 5

 Apples, canned, sweetened, sliced, drained, unheated 3

 Apples, canned, sweetened, sliced, drained, heated 3

 Apples, dehydrated (low moisture), sulfured, stewed 3

 Apples, dried, sulfured, stewed, without added sugar 3

 Apples, dried, sulfured, stewed, with added sugar 3

 Apples, frozen, unsweetened, unheated 3

 Spices and Herbs 33 localChiSquare: 0.00721234471431 degrees of freedom: 1

 Spices, fenugreek seed 13

 Spices, parsley, dried 8

 Spices, garlic powder 6

 Breakfast Cereals 15 localChiSquare: 0.0354579346183 degrees of freedom: 1

 Cereals ready-to-eat, wheat germ, toasted, plain 12

 Nut and Seed Products 14 localChiSquare: 0.0880496165159 degrees of freedom: 1

 Seeds, lotus seeds, dried 6

 Seeds, lotus seeds, raw 3

 Seeds, pumpkin and squash seeds, whole, roasted, without salt 2

 Seeds, pumpkin and squash seeds, whole, roasted, with salt added 2

 Nuts, coconut meat, dried (desiccated), sweetened, flaked, packaged 1

 Cereal Grains and Pasta 12 localChiSquare: 0.118736065459 degrees of freedom: 1

 Wheat germ, crude 12

Legumes and Legume Products

--overall chi-square: 0.142209759106 degrees of freedom: 8.0

 Vegetables and Vegetable Products 59961 localChiSquare: 0.0178181959746 degrees of freedom: 1

 Carrots, canned, no salt added, solids and liquids 431

 Tomatoes, sun-dried 431

 Seaweed, spirulina, dried 429

 Leeks, (bulb and lower-leaf portion), freeze-dried 422

 Carrots, cooked, boiled, drained, with salt 421

 Tomatoes, yellow, raw 378

 Nut and Seed Products 29244 localChiSquare: 0.0827936654659 degrees of freedom: 1

 Seeds, cottonseed kernels, roasted (glandless) 463

 Seeds, sesame flour, high-fat 429

 Nuts, chestnuts, japanese, dried 403

 Cereal Grains and Pasta 25901 localChiSquare: 0.0169467679949 degrees of freedom: 1

 Wheat germ, crude 734

 Wheat bran, crude 426

 Rice bran, crude 343

 Macaroni, protein-fortified, dry, enriched, (n x 6.25) 314

 Spaghetti, protein-fortified, dry, enriched (n x 6.25) 314

 Macaroni, protein-fortified, dry, enriched, (n x 5.70) 306

 Spaghetti, protein-fortified, dry, enriched (n x 5.70) 304

 Fruits and Fruit Juices 13433 localChiSquare: 0.00390326259505 degrees of freedom: 1

 Peaches, raw 338

 Kiwifruit, gold, raw 323

 Pineapple, raw, all varieties 312

 Pineapple, canned, water pack, solids and liquids 307

 Pineapple, canned, juice pack, solids and liquids 295

 Nectarines, raw 277

 Legumes and Legume Products 13366 localChiSquare: 0.0318350552769 degrees of freedom: 1

 Peanut flour, defatted 434

 Peanut flour, low fat 347

 Peanuts, spanish, oil-roasted, without salt 283

 Peanuts, valencia, oil-roasted, without salt 279

 Soy sauce made from soy and wheat (shoyu) 275

 Soy sauce made from soy and wheat (shoyu), low sodium 275

 Peanuts, all types, oil-roasted, without salt 269

 Breakfast Cereals 10233 localChiSquare: 0.00227747755713 degrees of freedom: 1

 Cereals, oats, instant, fortified, plain, dry 405

 Cereals, oats, regular and quick and instant, not fortified, dry 319

 Cereals, oats, regular and quick and instant, unenriched, cooked with water (includes boiling and microwaving), without salt 226

 Cereals, oats, instant, fortified, plain, prepared with water (boiling water added or microwaved) 181

 Cereals ready-to-eat, wheat, puffed, fortified 166

 Cereals, farina, unenriched, dry 165

 Cereals ready-to-eat, wheat, shredded, plain, sugar and salt free 148

 Spices and Herbs 4201 localChiSquare: 0.00894001275276 degrees of freedom: 1

 Spices, caraway seed 428

 Spices, garlic powder 392

 Spices, cinnamon, ground 390

 Mustard, prepared, yellow 327

 Spices, poppy seed 318

 Spices, fennel seed 243

 Basil, fresh 233

 Spearmint, dried 218

 Spices, basil, dried 193

 Beverages 545 localChiSquare: 2.35641317601e-05 degrees of freedom: 1

 Coffee, instant, decaffeinated, powder 138

 Fats and Oils 350 localChiSquare: 0.00137791038526 degrees of freedom: 1

 Salad dressing, italian dressing, reduced fat 137

 Sandwich spread, with chopped pickle, regular, unspecified oils 115

Cereal Grains and Pasta

--overall chi-square: 0.745456494688 degrees of freedom: 8.0

 Vegetables and Vegetable Products 27848 localChiSquare: 0.000157798338203 degrees of freedom: 1

 Lambsquarters, cooked, boiled, drained, without salt 353

 Lambs quarters, cooked, boiled, drained, with salt 353

 Cauliflower, green, raw 352

 Cauliflower, green, cooked, no salt added 348

 Cauliflower, green, cooked, with salt 348

 Asparagus, canned, no salt added, solids and liquids 335

 Cauliflower, cooked, boiled, drained, with salt 335

 Legumes and Legume Products 25901 localChiSquare: 0.593001234165 degrees of freedom: 1

 Soy sauce made from soy (tamari) 415

 Soy protein isolate, PROTEIN TECHNOLOGIES INTERNATIONAL, SUPRO 383

 Soy protein isolate, potassium type, crude protein basis 379

 Soy protein concentrate, crude protein basis (N x 6.25), produced by acid wash 378

 Soy protein isolate, potassium type 378

 Soy protein concentrate, produced by acid wash 377

 Soy protein isolate, PROTEIN TECHNOLOGIES INTERNATIONAL, ProPlus 376

 Fruits and Fruit Juices 2981 localChiSquare: 0.0334419967902 degrees of freedom: 1

 Pineapple, frozen, chunks, sweetened 181

 Applesauce, canned, unsweetened, with added ascorbic acid 179

 Applesauce, canned, sweetened, without salt (includes USDA commodity) 147

 Applesauce, canned, sweetened, with salt 147

 Watermelon, raw 141

 Spices and Herbs 1741 localChiSquare: 0.0116990612687 degrees of freedom: 1

 Spices, fenugreek seed 516

 Spices, parsley, dried 359

 Spices, garlic powder 344

 Spices, mustard seed, ground 157

 Spices, cinnamon, ground 154

 Spices, onion powder 117

 Dill weed, fresh 36

 Mustard, prepared, yellow 19

 Spices, ginger, ground 11

 Spices, oregano, dried 8

 Nut and Seed Products 1099 localChiSquare: 0.0745875748441 degrees of freedom: 1

 Seeds, lotus seeds, dried 186

 Seeds, pumpkin and squash seeds, whole, roasted, without salt 158

 Seeds, pumpkin and squash seeds, whole, roasted, with salt added 157

 Nuts, coconut meat, dried (desiccated), sweetened, flaked, packaged 89

 Seeds, lotus seeds, raw 51

 Seeds, breadnut tree seeds, dried 34

 Seeds, breadfruit seeds, boiled 26

 Seeds, breadfruit seeds, roasted 25

 Seeds, breadfruit seeds, raw 23

 Cereal Grains and Pasta 882 localChiSquare: 0.108263351232 degrees of freedom: 1

 Wheat germ, crude 439

 Rice, white, medium-grain, raw, enriched 4

 Quinoa, cooked 4

 Rice, white, medium-grain, raw, unenriched 4

 Amaranth, uncooked 3

 Breakfast Cereals 836 localChiSquare: 0.032182042497 degrees of freedom: 1

 Cereals ready-to-eat, wheat germ, toasted, plain 455

 Incaparina, dry mix (corn and soy flours), unprepared 184

 Cereals, CREAM OF WHEAT, instant, prepared with water, with salt, (wheat) 3

 Fats and Oils 43 localChiSquare: 0.00350595695183 degrees of freedom: 1

 Salad dressing, french dressing, reduced fat 13

 Margarine, regular, hard, soybean (hydrogenated) 11

 Margarine-like, vegetable oil spread, unspecified oils, approximately 37 fat, with salt 10

 Sandwich spread, with chopped pickle, regular, unspecified oils 3

 Beverages 12 localChiSquare: 0.00282209213637 degrees of freedom: 1

 Coffee, instant, decaffeinated, powder 3