

Table A-6 Estimated Daily Intake of Erythritol from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Sugar Substitutes	0.7	0.3	0.6	11.5	246	2.2	5
Canned Fruit (Syrup)	0.5	0.2	na	4.2	85	3.8	6.7
Regular or Low-Calorie Syrups or Toppings	0.3	0.1	na	2.4	64	4.3	8.9*

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table A-7 Estimated Daily Intake of Erythritol from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	31.1	62.1	97.0	7,218	32.1	63.0
Baked Goods and Baking Mixes (excluding regular bread)	17.7	5.5	15.5	63.6	4,791	8.7	19.6
Bars (Granola, High Protein)	1.5	0.5	1.7	11.5	667	4.0	7.5
Cakes	5.7	1.8	6.3	14.5	1,057	12.2	26.1
Cookies	5.0	1.5	4.9	34.1	2,538	4.5	9
Alcoholic Beverages (Lite Beer, Coolers)	4.5	1.4	na	5.7	322	24.3	50.4
Flavored Quenchers	3.6	1.1	na	7.2	523	15.6	26.8
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	13.9	4.3	14.7	24.6	1,500	17.6	40.9
Hot Cereal – Oatmeal (Instant or Cooked)	1.2	0.4	na	7.8	671	4.8	8.5
Ready-to-Eat Cereals	11.6	3.6	12.0	35.2	2,770	10.2	19.4
Chewing Gum	0.2	0.1	na	2.9	242	2.4	4.5
BBQ Sauce	0.8	0.2	na	9.4	660	2.6	5.4
Tomato Sauce	1.4	0.4	1.2	25.0	1,855	1.7	4.0
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	1.7	0.5	na	5.4	378	10.1	22.0
Non-Dairy Toppings	<0.1	<0.1	na	0.9	41	1.1	1.9*
Low Calorie Salad Dressings	0.5	0.1	na	5.8	377	2.5	5.5
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.1	1.9	7.2	25.1	1,698	7.5	15.3
Fruit-Based Slushies	0.1	<0.1	na	3.1	255	1.4	2.8
Fillings (Fruit, Custard, Cream, Pudding)	<0.1	<0.1*	na	0.1	2	1.7*	1.66*
Puddings (Instant, Phosphate Set)	0.6	0.2	na	2.3	137	8.2	13.2
Hard Candy (Mints, Pressed, Candies, Cough Drops)	2.3	0.7	na	6.5	511	11.1	27.7
Jams and Jellies	0.6	0.2	0.5	11.3	839	1.6	3
Dairy drinks (Chocolate and Flavored Milks)	3.1	1.0	4.3	13.7	1,221	7.0	13.0
Yogurt	2.8	0.9	3.8	16.5	1,121	5.2	9.9
Fruit-Based Smoothies	1.1	0.3	na	4.0	279	8.4	15.1
Salty Snacks	3.2	1.0	3.2	36.1	2,572	2.8	5.7
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	1.0	0.3	na	3.4	314	9.6	19.1
Non-Chocolate Candies	3.2	1.0	na	9.8	733	10.1	24.6

Table A-7 Estimated Daily Intake of Erythritol from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Soft Chocolate Candies	4.7	1.5	4.7	22	1,425	6.7	13.5
Sugar Substitutes	0.8	0.2	0.5	11.4	677	2.1	4.5
Canned Fruit (Syrup)	0.8	0.3	na	6.7	519	3.9	6.8
Regular or Low-Calorie Syrups or Toppings	0.4	0.1	na	4.0	338	3.4	7.5

n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Appendix B

Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Different Population Groups within the U.S. (2013-2014 NHANES Data)

Table B-1 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 3 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	1,206	2,681	79.7	563	1,512	2,816
Baked Goods and Baking Mixes (excluding regular bread)	18.3	221	599	60.0	414	368	808
Bars (Granola, High Protein)	1.6	19	na	6.7	36	287	603*
Cakes	2.7	33	na	7.5	50	440	1,237*
Cookies	7.0	84	302	37.0	235	227	468
Alcoholic Beverages (Lite Beer, Coolers)	0	na	na	0	0	na	na
Flavored Quenchers	2.3	28*	na	4.6	22	606*	1,119*
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	2.3	28	na	9.5	61	292	669*
Hot Cereal – Oatmeal (Instant or Cooked)	1.9	24	64*	10.7	68	220	430*
Ready-to-Eat Cereals	14.7	177	558	45.7	298	388	774
Chewing Gum	0.1	2*	na	1.2	13	132*	188*
BBQ Sauce	0.2	2*	na	3.0	21	61.4*	144*
Tomato Sauce	1.1	13	45	17.7	109	74.9	164
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	6.0	73	na	6.3	30	1,145	2,945*
Non-Dairy Toppings	0	na	na	0	0	na	na
Low Calorie Salad Dressings	0.1	1*	na	1.6	15	43*	71*
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	3.5	42	181	16.7	118	254	481
Fruit-Based Slushies	0.4	5	na	7.2	48	68	98*
Fillings (Fruit, Custard, Cream, Pudding)	0	na	na	0	0	na	na
Puddings (Instant, Phosphate Set)	0.4	5*	na	1.3	10	387*	483*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	5.2	62	na	9.1	46	686	1,892*
Jams and Jellies	0.9	11	35*	13.6	78	78	150*
Dairy drinks (Chocolate and Flavored Milks)	5.8	70	268	16.2	102	435	1,013
Yogurt	6.4	77	259	25.8	156	300	619
Fruit-Based Smoothies	0.5	7*	na	3.0	23	217*	383*
Salty Snacks	2.9	36	113	32.1	204	110	197
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	7.7	93	na	9.5	58	970	4,368*

Table B-1 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Infants and Young Children Aged Up to 3 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	3.4	41	75*	10.5	55	387	841*
Soft Chocolate Candies	1.4	16	na	8.9	58	184	447*
Sugar Substitutes	0.1	1*	na	0.5	2	141*	197*
Canned Fruit (Syrup)	2.8	34	137*	12.4	70	276	586*
Regular or Low-Calorie Syrups or Toppings	0.3	3	na	4.7	32	73	153*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-2 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Children Aged 4 to 11 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	1,209	2,256	99.9	1,149	1,210	2,256
Baked Goods and Baking Mixes (excluding regular bread)	21.1	255	613	77.8	892	327	756
Bars (Granola, High Protein)	1.0	12	47	12.2	117	98	155
Cakes	4.3	52	167	15.7	161	330	672
Cookies	5.6	67	215	45.0	497	150	323
Alcoholic Beverages (Lite Beer, Coolers)	0	na	na	0	0	na	na
Flavored Quenchers	3.6	43	131	13.1	120	329	708
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	3.4	42	150	24.3	245	171	310
Hot Cereal – Oatmeal (Instant or Cooked)	0.5	6	na	5.4	73	112	203*
Ready-to-Eat Cereals	14.4	174	460	59.4	697	293	587
Chewing Gum	0.3	3	na	4.5	54	68	120*
BBQ Sauce	0.3	3	na	6.4	98	54	94*
Tomato Sauce	2.1	25	72	38.3	434	66	158
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	0.9	11	na	3.1	31	371	653*
Non-Dairy Toppings	<0.1	<1*	na	0.3	3	54*	69.9*
Low Calorie Salad Dressings	0.2	2	na	3.7	42	59	136*
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.7	81	256	35.8	346	226	503
Fruit-Based Slushies	0.6	7	27	14.4	124	48	93.1
Fillings (Fruit, Custard, Cream, Pudding)	<0.1	<1*	na	0	1	102*	102*
Puddings (Instant, Phosphate Set)	0.4	4*	na	1.8	24	249*	429*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	4.7	57	168	15.7	157	365	975
Jams and Jellies	0.8	10	36	17.7	203	55	121
Dairy drinks (Chocolate and Flavored Milks)	7.3	88	294	39.7	462	223	396
Yogurt	3.1	38	148	22.2	233	171	329
Fruit-Based Smoothies	0.7	8	na	4.8	58	171	332*
Salty Snacks	3.5	43	116	50.9	563	84	164
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	3.7	45	156	14.7	143	304	580
Non-Chocolate Candies	4.4	53	130	18.5	202	288	730

Table B-2 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Children Aged 4 to 11 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Soft Chocolate Candies	4.1	50	142	21.2	218	236	493
Sugar Substitutes	<0.1	<1*	na	0.9	7	9*	16*
Canned Fruit (Syrup)	1.5	18	59	12.0	149	148	273
Regular or Low-Calorie Syrups or Toppings	0.9	11	14	11.1	125	96	256

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-3 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	457	971	99.3	564	460	971
Baked Goods and Baking Mixes (excluding regular bread)	19.1	87	237	62.0	351	141	282
Bars (Granola, High Protein)	2.4	11	50*	17.2	68	65	111*
Cakes	5.7	26	24*	11.5	73	227	659*
Cookies	5.0	23	85	34.4	204	66.6	132
Alcoholic Beverages (Lite Beer, Coolers)	0.3	1*	na	0.9	2	154*	155*
Flavored Quenchers	3.3	15	na	9.0	53	164	271*
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	7.6	35	96	15.0	91	233	862
Hot Cereal – Oatmeal (Instant or Cooked)	0.6	3*	na	3.5	28	82.8*	130*
Ready-to-Eat Cereals	14.9	68	210	43.3	228	157	300
Chewing Gum	0.1	<1*	na	2.8	21	18*	37*
BBQ Sauce	0.9	4	na	7.5	47	54	147*
Tomato Sauce	1.7	8	20	26.6	131	29	72
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	0.8	3*	na	2.1	22	166*	280*
Non-Dairy Toppings	0	na	na	0	0	na	na
Low Calorie Salad Dressings	0.9	4*	na	8.5	23	47*	72*
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.1	28	95	24.3	122	115	218
Fruit-Based Slushies	0.3	1*	na	2.6	13	45*	71*
Fillings (Fruit, Custard, Cream, Pudding)	0	na	na	0	0	na	na
Puddings (Instant, Phosphate Set)	0.5	2*	na	1.8	9	133*	198*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	4.3	20	na	8.6	54	227	448*
Jams and Jellies	0.6	3	na	9.6	42	27	52*
Dairy drinks (Chocolate and Flavored Milks)	4.7	22	96	20.2	113	107	195
Yogurt	2.4	11	42*	14.7	60	74	173*
Fruit-Based Smoothies	2.0	9*	na	5.8	24	156*	284*
Salty Snacks	4.0	18	54	41.3	261	44	108
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	2.0	9	na	6.5	39	138	268*

Table B-3 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Female Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	4.1	19	na	9.5	50	198	434*
Soft Chocolate Candies	4.0	18	55	18.4	109	99	243
Sugar Substitutes	<0.1	<1*	na	1.1	5	14*	15*
Canned Fruit (Syrup)	1.2	6	14*	10.7	32	52	119*
Regular or Low-Calorie Syrups or Toppings	0.6	3*	na	4.9	22	53*	102*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-4 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	514	1,013	97.1	550	529	1,013
Baked Goods and Baking Mixes (excluding regular bread)	20.4	105	280	60.6	345	173	327
Bars (Granola, High Protein)	1.5	8	31*	12.4	52	61	114*
Cakes	3.7	19	na	8.8	54	216	442*
Cookies	5.8	30	96	34.8	197	86	216
Alcoholic Beverages (Lite Beer, Coolers)	0.1	<1*	na	0.2	2	169*	183*
Flavored Quenchers	12.6	65	142	19.9	92	324	598
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	3.2	16	55	13.2	84	123	230
Hot Cereal – Oatmeal (Instant or Cooked)	0.6	3*	na	3.0	20	103*	237*
Ready-to-Eat Cereals	17.3	89	260	45.9	252	194	407
Chewing Gum	0.1	1*	na	1.7	20	37*	58*
BBQ Sauce	0.8	4	6*	11.2	72	38	87*
Tomato Sauce	1.8	9	28	35.2	193	27	61
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	0.4	2*	na	1.2	12	190*	329*
Non-Dairy Toppings	0	na	na	0	0	na	na
Low Calorie Salad Dressings	0.3	1*	na	3.2	16	43*	58.1*
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	5.9	30	128	19.1	107	158	282
Fruit-Based Slushies	0.1	<1*	na	0.5	7	63*	102*
Fillings (Fruit, Custard, Cream, Pudding)	0	na	na	0	0	na	na
Puddings (Instant, Phosphate Set)	0.5	2*	na	0.8	5	291*	348*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	2.3	12	na	5.9	42	201	405*
Jams and Jellies	0.5	3	na	6.4	48	43	80*
Dairy drinks (Chocolate and Flavored Milks)	6.0	31	120	24.5	143	126	285
Yogurt	0.8	4	na	5.4	34	81	174*
Fruit-Based Smoothies	0.6	3*	na	1.7	14	189*	317*
Salty Snacks	4.4	22	71	41.4	239	54	106
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	0.7	4*	na	3.3	24	110*	212*

Table B-4 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Male Teenagers Aged 12 to 19 Years within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	5.4	28	24*	10.8	65	257	555*
Soft Chocolate Candies	3.1	16	52*	16.2	79	100	185*
Sugar Substitutes	<0.1	<1*	na	1.1	4	8*	13*
Canned Fruit (Syrup)	0.8	4	na	5.9	31	69	94*
Regular or Low-Calorie Syrups or Toppings	0.3	1*	na	3.2	20	46*	114*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-5 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	398	815	98.3	2,323	405	817
Baked Goods and Baking Mixes (excluding regular bread)	16.4	65	184	62.5	1,493	104	244
Bars (Granola, High Protein)	1.6	6	20	10.6	207	60	119
Cakes	6.6	26	97	15.7	388	168	336
Cookies	5.3	21	70	33.4	765	63	121
Alcoholic Beverages (Lite Beer, Coolers)	3.4	14	na	4.5	95	303	846
Flavored Quenchers	1.6	6	na	3.3	72	187	286*
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	16.7	67	230	27.7	548	240	579
Hot Cereal – Oatmeal (Instant or Cooked)	1.6	6	na	9.8	281	66	119
Ready-to-Eat Cereals	10.1	40	146	31.0	707	129	254
Chewing Gum	0.3	1	na	3.0	84	36	67
BBQ Sauce	0.7	3	na	8.4	202	33	71
Tomato Sauce	1.0	4	14	21.5	452	18	40
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	2.7	11	na	7.7	182	142	336
Non-Dairy Toppings	<0.1	<1*	na	1.1	26	12*	24*
Low Calorie Salad Dressings	0.7	3	na	8.8	178	31	70
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.0	24	83	25.0	546	95	215
Fruit-Based Slushies	0.1	<1	na	1.1	37	22	43*
Fillings (Fruit, Custard, Cream, Pudding)	0	na	na	0	0	na	na
Puddings (Instant, Phosphate Set)	0.7	3	na	2.9	59	90	178*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	2.4	10	na	7.0	136	139	325
Jams and Jellies	0.5	2	2	10.1	226	19	35
Dairy drinks (Chocolate and Flavored Milks)	2.2	9	na	8.7	222	100	183
Yogurt	3.8	15	65	20.2	410	75	137
Fruit-Based Smoothies	1.5	6	na	4.8	99	123	230
Salty Snacks	3.1	13	39	35.7	724	35	70.2
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	0.4	2*	na	1.2	25	131*	294*

Table B-5 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Female Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	2.7	11	na	9.2	217	119	306
Soft Chocolate Candies	5.5	22	70	26.0	543	84	183
Sugar Substitutes	1.3	5	16	18.5	412	27	63
Canned Fruit (Syrup)	0.8	3	na	6.3	148	49	100
Regular or Low-Calorie Syrups or Toppings	0.4	2	na	3.6	74	48	88*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-6 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	403	805	97.2	2,026	415	815
Baked Goods and Baking Mixes (excluding regular bread)	17.7	71	210	61.9	1,269	115	259
Bars (Granola, High Protein)	1.4	6	21	12.2	185	48	90
Cakes	5.6	23	81	14.5	320	156	335
Cookies	4.6	19	62	30.8	626	61	118
Alcoholic Beverages (Lite Beer, Coolers)	8.2	33	75	11.2	223	294	549
Flavored Quenchers	4.0	16	na	7.9	160	202	414
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	14.6	59	198	27.0	465	218	514
Hot Cereal – Oatmeal (Instant or Cooked)	1.4	5	na	7.3	197	75	175
Ready-to-Eat Cereals	11.5	47	173	28.6	569	163	310
Chewing Gum	0.2	1	na	2.9	48	25	47*
BBQ Sauce	1.0	4	11	12.2	213	33	73
Tomato Sauce	1.4	6	17	24.6	529	23	47
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	1.4	6	na	4.6	100	124	275
Non-Dairy Toppings	<0.1	<1*	na	1.3	11	14*	32*
Low Calorie Salad Dressings	0.4	1	na	3.9	103	37	72
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	6.2	25	96	24.1	443	103	191
Fruit-Based Slushies	0.1	<1*	na	2.1	26	15*	21*
Fillings (Fruit, Custard, Cream, Pudding)	<0.1	<1*	na	0.2	1	24*	24*
Puddings (Instant, Phosphate Set)	0.8	3	na	2.3	30	137	258*
Hard Candy (Mints, Pressed, Candies, Cough Drops)	1.0	4	na	2.8	74	148	309*
Jams and Jellies	0.6	3	6	11.5	235	22	39
Dairy drinks (Chocolate and Flavored Milks)	1.9	8	na	8.8	174	86	170
Yogurt	2.0	8	26	11.6	224	71	137
Fruit-Based Smoothies	0.9	3	na	3.2	61	109	183*
Salty Snacks	3.1	13	41	31.1	564	40	81
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	0.5	2*	na	1.3	25	152*	241*

Table B-6 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by Male Adults Aged 20 Years and Over within the U.S. (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Non-Chocolate Candies	3.0	12	na	7.7	139	156	406
Soft Chocolate Candies	5.1	20	68	21.2	411	97	201
Sugar Substitutes	0.7	3	7	11.4	243	25	55
Canned Fruit (Syrup)	0.5	2	na	4.2	84	45	78
Regular or Low-Calorie Syrups or Toppings	0.3	1	na	2.4	63	51	122*

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Table B-7 Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
All	100	535	1,159	97.0	7,175	551	1,179
Baked Goods and Baking Mixes (excluding regular bread)	18.4	98	268	63.6	4,764	155	354
Bars (Granola, High Protein)	1.5	8	23	11.6	665	67	129
Cakes	5.1	28	85	14.2	1,046	194	414
Cookies	5.4	29	90	34.0	2,524	85	193
Alcoholic Beverages (Lite Beer, Coolers)	3.2	17	na	5.7	322	295	679
Flavored Quenchers	3.4	18	na	7.2	519	253	517
Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages	10.2	55	186	24.6	1,494	222	514
Hot Cereal – Oatmeal (Instant or Cooked)	1.2	7	na	7.8	667	85	175
Ready-to-Eat Cereals	12.6	67	219	35.3	2,751	191	388
Chewing Gum	0.2	1	na	2.9	240	39	72.6
BBQ Sauce	0.6	3	na	9.4	653	36	75
Tomato Sauce	1.4	8	20	25.1	1,848	31	64
Imitation Dairy Drinks (Soy, almond, cashew, coconut, and other plant-based)	2.2	12	na	5.4	377	215	435
Non-Dairy Toppings	<0.1	<1	na	0.9	40	14	34*
Low Calorie Salad Dressings	0.4	2	na	5.8	377	36	86
Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	5.9	32	113	25.0	1,682	126	263
Fruit-Based Slushies	0.2	1	na	3.2	255	39	80
Fillings (Fruit, Custard, Cream, Pudding)	<0.1	<1*	na	0.1	2	25*	24*
Puddings (Instant, Phosphate Set)	0.6	3	na	2.3	137	133	302
Hard Candy (Mints, Pressed, Candies, Cough Drops)	3.0	16	na	6.5	509	245	578
Jams and Jellies	0.7	3	6	11.3	832	31	68
Dairy drinks (Chocolate and Flavored Milks)	4.0	22	69	13.7	1,216	157	318
Yogurt	3.3	18	60	16.6	1,117	106	207
Fruit-Based Smoothies	1.0	5	na	4.0	279	133	248
Salty Snacks	3.3	18	54	36.0	2,555	49	110
Fruit Novelty Snacks (e.g., fruit peel, fruit candy bar, fruit leathers, fruit creams, fruit snack candy, gummy fruits)	2.1	12	na	3.4	314	335	579
Non-Chocolate Candies	3.5	19	na	9.8	728	189	479

Table B-7 **Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Individual Proposed Food-Uses by the Total U.S. Population (2013-2014 NHANES Data)**

Food-Use Category	% Contribution to Total Mean Intake	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Soft Chocolate Candies	4.4	23	69	21.9	1,418	107	224
Sugar Substitutes	0.6	3	6	11.4	673	27	56
Canned Fruit (Syrup)	1.1	6	na	6.7	514	90	190
Regular or Low-Calorie Syrups or Toppings	0.5	3	na	4.1	336	64	125

bw = body weight; n = sample size; na = not available; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

* Indicates an intake estimate that may not be statistically reliable, as the sample size does not meet the minimum reporting requirements (mean n<30; 90th percentile n<80).

Appendix C
Representative Food Codes for Proposed Food-Uses of Erythritol in the
U.S. (2013-2014 NHANES Data)

Representative Food Codes for Proposed Beverage-Uses of Erythritol in the U.S. (U.S. NHANES 2013-2014)

Baked Goods and Baking Mixes (Excluding Regular Bread)

[Erythritol] = 15%

51160110	Roll, sweet, cinnamon bun, frosted
51160100	Roll, sweet, cinnamon bun, no frosting
51161050	Roll, sweet, frosted
51160000	Roll, sweet, no frosting
51161250	Roll, sweet, no topping, Mexican (Pan Dulce)
51161270	Roll, sweet, sugar topping, Mexican (Pan Dulce)
51161020	Roll, sweet, with fruit, frosted
51161000	Roll, sweet, with fruit, no frosting
51161280	Roll, sweet, with raisins and icing, Mexican (Pan Dulce)
52208010	Corn pone, baked
52208020	Corn pone, fried
52206010	Cornbread muffin, stick, round
52206060	Cornbread muffin, stick, round, made from home recipe
52204000	Cornbread stuffing
52202060	Cornbread, made from home recipe
52201000	Cornbread, prepared from mix
52220110	Cornmeal bread, Dominican style (Arepa Dominicana)
52208760	Gordita/sope shell, plain, no filling
52209010	Hush puppy
52211010	Johnnycake
52213010	Spoonbread
52215300	Taco shell, corn
52215350	Taco shell, flour
52215100	Tortilla, corn
52215200	Tortilla, flour (wheat)
52215000	Tortilla, NFS
52215260	Tortilla, whole wheat
52304040	Muffin, bran with fruit, lowfat
52306700	Muffin, carrot
52306300	Muffin, cheese
52302600	Muffin, chocolate
52302500	Muffin, chocolate chip
52302010	Muffin, fruit
52302020	Muffin, fruit, low fat
52301000	Muffin, NFS
52304150	Muffin, oat bran
52304100	Muffin, oatmeal

52306010	Muffin, plain
52306500	Muffin, pumpkin
52303500	Muffin, wheat
52304010	Muffin, wheat bran
52304000	Muffin, whole grain
52303010	Muffin, whole wheat
52306550	Muffin, zucchini
53344300	Dessert pizza
53344200	Mixed fruit tart filled with custard or cream cheese
53391000	Pie shell
53391150	Pie shell, chocolate wafer
53391100	Pie shell, graham cracker
53382000	Pie, chocolate-marshmallow
53300180	Pie, fried, NFS
53300170	Pie, individual size or tart, NFS
53300100	Pie, NFS
53385500	Pie, oatmeal
53385000	Pie, pecan
53385070	Pie, pecan, individual size or tart
53386250	Pie, pudding, chocolate, with chocolate coating, individual size
53347600	Pie, squash
53360000	Pie, sweet potato
53391200	Vanilla wafer dessert base
53420300	Air filled fritter or fried puff, without syrup, Puerto Rican style (Bunuelos de viento)
53400200	Blintz, cheese-filled
53452450	Cheese pastry puffs
53420250	Cream puff, no filling or icing
53430250	Crepe suzette
53452150	Pastry, Chinese, made with rice flour
53452170	Pastry, cookie type, fried
53452200	Pastry, Italian, with cheese
53452500	Pastry, mainly flour and water, fried
53452400	Pastry, puff
53420410	Sopaipilla with syrup or honey
53420400	Sopaipilla, without syrup or honey
53440600	Strudel, cheese
53430700	Tamale, sweet
53420310	Wheat flour fritter, without syrup
53500100	Breakfast pastry, NFS
53530000	Breakfast tart
53530010	Breakfast tart, lowfat
53520200	Churros
53520600	Cruller, NFS

53510000	Danish pastry, plain or spice
53520500	Doughnut, Asian
53520110	Doughnut, cake type
53520140	Doughnut, cake type, chocolate covered
53520150	Doughnut, cake type, chocolate covered, dipped in peanuts
53520120	Doughnut, chocolate, cake type
53520160	Doughnut, chocolate, cake type, with chocolate icing
53521120	Doughnut, chocolate, raised or yeast
53521100	Doughnut, chocolate, raised or yeast, with chocolate icing
53520000	Doughnut, NS as to cake or yeast
53521110	Doughnut, raised or yeast
53521130	Doughnut, raised or yeast, chocolate covered
53520700	French cruller
54001000	Crackers, NS as to sweet or nonsweet
54102060	Crackers, Cuban
54102070	Crackers, Cuca
54102010	Crackers, graham
54102020	Crackers, graham, chocolate covered
54102110	Crackers, graham, fat free
54102100	Crackers, graham, lowfat
54102200	Crackers, graham, sandwich-type, with filling
54102080	Crackers, graham, with raisins
54102050	Crackers, oatmeal
54204010	Cracker, 100% whole wheat, low sodium
54210010	Cracker, multigrain, low sodium
54205010	Cracker, snack, low sodium
54205100	Cracker, snack, reduced fat, reduced sodium
54201010	Crackers, matzo, low sodium
54202010	Crackers, saltine, low sodium
54203010	Crackers, toast thins (rye, wheat, white flour), low sodium
54206010	Puffed rice cake without salt
54337000	Cracker, 100% whole wheat
54337050	Cracker, 100% whole wheat, reduced fat
54304000	Cracker, cheese
54304100	Cracker, cheese, reduced fat
54304150	Cracker, cheese, whole grain
54340100	Cracker, gluten free
54304500	Cracker, high fiber, no added fat
54328200	Cracker, sandwich-type, cheese-filled
54328100	Cracker, sandwich-type, peanut butter filled
54328110	Cracker, sandwich-type, peanut butter filled, reduced fat
54328120	Cracker, sandwich-type, peanut butter filled, whole grain
54301000	Cracker, snack

54301200	Cracker, snack, fat free
54301100	Cracker, snack, reduced fat
54350000	Crackers, baby food
54339000	Crackers, corn
54327950	Crackers, cylindrical, peanut-butter filled
54307000	Crackers, matzo
54308000	Crackers, milk
54326000	Crackers, multigrain, made with whole wheat, wheat, oat, and other flours
54309000	Crackers, oat
54313000	Crackers, oyster
54319000	Crackers, rice
54325000	Crackers, saltine
54325010	Crackers, saltine, fat free
54325050	Crackers, saltine, whole wheat
54328000	Crackers, sandwich-type, NFS
54334000	Crackers, toast thins (rye, pumpernickel, white flour)
54336000	Crackers, water biscuits
54338000	Crackers, wheat
54338100	Crackers, wheat, reduced fat
54322000	Crispbread, rye, no added fat
54305000	Crispbread, wheat, no added fat
54319020	Popcorn cake
54319010	Puffed rice cake
54319200	Puffed wheat cake
54318500	Rice cake, cracker-type
54319500	Rice paper
55105000	Pancakes, buckwheat
55105100	Pancakes, cornmeal
55106000	Pancakes, gluten free
55101000	Pancakes, plain
55101020	Pancakes, plain, fat free
55101015	Pancakes, plain, reduced fat
55101010	Pancakes, reduced calorie, high fiber
55105400	Pancakes, rye
55105300	Pancakes, sour dough
55105200	Pancakes, whole wheat
55105210	Pancakes, whole wheat, fat free
55105205	Pancakes, whole wheat, reduced fat
55103100	Pancakes, with chocolate chips
55103000	Pancakes, with fruit
55203600	Waffle, chocolate chip
55204000	Waffle, cornmeal
55203000	Waffle, fruit

55208000	Waffle, gluten free
55207000	Waffle, multi-bran
55203500	Waffle, nut and honey
55206000	Waffle, oat bran
55201000	Waffle, plain
55211000	Waffle, plain, fat free
55211050	Waffle, plain, lowfat
55202000	Waffle, wheat, bran, or multigrain
55205000	Waffle, whole wheat or whole grain
55212000	Waffle, whole wheat, lowfat
55310100	Bread fritters, Puerto Rican style (Torrejas gallegas, Galician fritters)
55301050	French toast sticks, plain
55301000	French toast, plain
55401000	Crepe, plain
55502000	Flour and water gravy
55501000	Flour and water patty
55610200	Dumpling, fried, Puerto Rican style
55610300	Dumpling, plain
55701000	Cake made with glutinous rice
55703000	Cake made with glutinous rice and dried beans
55702000	Cake or pancake made with rice flour and/or dried beans
55702100	Dosa (Indian), plain
55801000	Funnel cake with sugar
55801010	Funnel cake with sugar and fruit

Adjusted for a recipe factor of 5.76 to 67.5%

[Erythritol] = 0.86 to 10.13%

13210710	Pudding, Indian (milk, molasses and cornmeal-based pudding)
21104120	Beef steak, battered, fried, lean and fat eaten
21104130	Beef steak, battered, fried, lean only eaten
21104110	Beef steak, battered, fried, NS as to fat eaten
21103120	Beef steak, breaded or floured, baked or fried, lean and fat eaten
21103130	Beef steak, breaded or floured, baked or fried, lean only eaten
21103110	Beef steak, breaded or floured, baked or fried, NS as to fat eaten
21500200	Ground beef or patty, breaded, cooked
22002100	Pork, ground or patty, breaded, cooked
22000310	Pork, NS as to cut, breaded or floured, fried, lean and fat eaten
22000320	Pork, NS as to cut, breaded or floured, fried, lean only eaten
22000300	Pork, NS as to cut, breaded or floured, fried, NS as to fat eaten
22001000	Pork, pickled, NS as to cut
22101410	Pork chop, battered, fried, lean and fat eaten
22101420	Pork chop, battered, fried, lean only eaten

22101400 Pork chop, battered, fried, NS as to fat eaten
 22101140 Pork chop, breaded or floured, broiled or baked, lean and fat eaten
 22101150 Pork chop, breaded or floured, broiled or baked, lean only eaten
 22101130 Pork chop, breaded or floured, broiled or baked, NS as to fat eaten
 22101310 Pork chop, breaded or floured, fried, lean and fat eaten
 22101320 Pork chop, breaded or floured, fried, lean only eaten
 22101300 Pork chop, breaded or floured, fried, NS as to fat eaten
 22201060 Pork steak or cutlet, battered, fried, lean and fat eaten
 22201070 Pork steak or cutlet, battered, fried, lean only eaten
 22201050 Pork steak or cutlet, battered, fried, NS as to fat eaten
 22201310 Pork steak or cutlet, breaded or floured, broiled or baked, lean and fat eaten
 22201320 Pork steak or cutlet, breaded or floured, broiled or baked, lean only eaten
 22201300 Pork steak or cutlet, breaded or floured, broiled or baked, NS as to fat eaten
 22201410 Pork steak or cutlet, breaded or floured, fried, lean and fat eaten
 22201420 Pork steak or cutlet, breaded or floured, fried, lean only eaten
 22201400 Pork steak or cutlet, breaded or floured, fried, NS as to fat eaten
 22300160 Ham, breaded or floured, fried, lean and fat eaten
 22300170 Ham, breaded or floured, fried, lean only eaten
 22300150 Ham, breaded or floured, fried, NS as to fat eaten
 23321250 Venison/deer steak, breaded or floured, cooked, NS as to cooking method
 27560300 Corn dog (frankfurter or hot dog with cornbread coating)
 51115010 Bread, cornmeal and molasses
 51115020 Bread, cornmeal and molasses, toasted
 51161030 Roll, sweet, with fruit, frosted, diet
 53301750 Pie, apple, diet
 53301080 Pie, apple, fried pie
 53301070 Pie, apple, individual size or tart
 53301500 Pie, apple, one crust
 53301000 Pie, apple, two crust
 53340000 Pie, apple-sour cream
 53302080 Pie, apricot, fried pie
 53302070 Pie, apricot, individual size or tart
 53302000 Pie, apricot, two crust
 53341000 Pie, banana cream
 53341070 Pie, banana cream, individual size or tart
 53303570 Pie, berry, not blackberry, blueberry, boysenberry, huckleberry, raspberry, or strawberry, individual size or tart
 53303510 Pie, berry, not blackberry, blueberry, boysenberry, huckleberry, raspberry, or strawberry; one crust
 53303500 Pie, berry, not blackberry, blueberry, boysenberry, huckleberry, raspberry, or strawberry; two crust
 53373000 Pie, black bottom
 53303070 Pie, blackberry, individual size or tart

53303000	Pie, blackberry, two crust
53304070	Pie, blueberry, individual size or tart
53304050	Pie, blueberry, one crust
53304000	Pie, blueberry, two crust
53341500	Pie, buttermilk
53305080	Pie, cherry, fried pie
53305070	Pie, cherry, individual size or tart
53340500	Pie, cherry, made with cream cheese and sour cream
53305010	Pie, cherry, one crust
53305000	Pie, cherry, two crust
53341750	Pie, chess
53371000	Pie, chiffon, chocolate
53370000	Pie, chiffon, not chocolate
53342000	Pie, chocolate cream
53342070	Pie, chocolate cream, individual size or tart
53343000	Pie, coconut cream
53343070	Pie, coconut cream, individual size or tart
53344000	Pie, custard
53344070	Pie, custard, individual size or tart
53305700	Pie, lemon (not cream or meringue)
53305720	Pie, lemon (not cream or meringue), individual size or tart
53345000	Pie, lemon cream
53345070	Pie, lemon cream, individual size or tart
53381000	Pie, lemon meringue
53381070	Pie, lemon meringue, individual size or tart
53305750	Pie, lemon, fried pie
53306070	Pie, mince, individual size or tart
53306000	Pie, mince, two crust
53307080	Pie, peach, fried pie
53307070	Pie, peach, individual size or tart
53307050	Pie, peach, one crust
53307000	Pie, peach, two crust
53346000	Pie, peanut butter cream
53307570	Pie, pear, individual size or tart
53307500	Pie, pear, two crust
53346500	Pie, pineapple cream
53308070	Pie, pineapple, individual size or tart
53308000	Pie, pineapple, two crust
53308300	Pie, plum, two crust
53308500	Pie, prune, one crust
53386000	Pie, pudding, flavors other than chocolate
53386050	Pie, pudding, flavors other than chocolate, individual size or tart
53386500	Pie, pudding, flavors other than chocolate, with chocolate coating, individual size

53347000	Pie, pumpkin
53347070	Pie, pumpkin, individual size or tart
53309070	Pie, raisin, individual size or tart
53309000	Pie, raisin, two crust
53347100	Pie, raspberry cream
53310000	Pie, raspberry, one crust
53310050	Pie, raspberry, two crust
53311070	Pie, rhubarb, individual size or tart
53311050	Pie, rhubarb, one crust
53311000	Pie, rhubarb, two crust
53390000	Pie, shoo-fly
53347500	Pie, sour cream, raisin
53348000	Pie, strawberry cream
53348070	Pie, strawberry cream, individual size or tart
53314000	Pie, strawberry, individual size or tart
53312000	Pie, strawberry, one crust
53313000	Pie, strawberry-rhubarb, two crust
53390100	Pie, tofu with fruit
53387000	Pie, Toll house chocolate chip
53365000	Pie, vanilla cream
53366000	Pie, yogurt, frozen
53441110	Baklava
53441210	Basbousa (semolina dessert dish)
53400300	Blintz, fruit-filled
53410100	Cobbler, apple
53410200	Cobbler, apricot
53410300	Cobbler, berry
53410500	Cobbler, cherry
53410800	Cobbler, peach
53410850	Cobbler, pear
53410860	Cobbler, pineapple
53410880	Cobbler, plum
53410900	Cobbler, rhubarb
53420200	Cream puff, eclair, custard or cream filled, iced
53420210	Cream puff, eclair, custard or cream filled, iced, reduced fat
53420100	Cream puff, eclair, custard or cream filled, not iced
53420000	Cream puff, eclair, custard or cream filled, NS as to icing
53430100	Crepe, dessert type, chocolate-filled
53430200	Crepe, dessert type, fruit-filled
53430300	Crepe, dessert type, ice cream-filled
53430000	Crepe, dessert type, NS as to filling
53415100	Crisp, apple, apple dessert
53415300	Crisp, blueberry

53415400	Crisp, cherry
53415500	Crisp, peach
53415600	Crisp, rhubarb
53453170	Empanada, Mexican turnover, pumpkin
53453150	Empanada, Mexican turnover, fruit-filled
53415120	Fritter, apple
53415200	Fritter, banana
53415220	Fritter, berry
53452120	Pastry, Asian, made with bean or lotus seed paste filling (baked)
53452130	Pastry, Asian, made with bean paste and salted egg yolk filling (baked)
53452100	Pastry, fruit-filled
53452420	Pastry, puff, custard or cream filled, iced or not iced
53440000	Strudel, apple
53440300	Strudel, berry
53440800	Strudel, cheese and fruit
53440500	Strudel, cherry
53440700	Strudel, peach
53440750	Strudel, pineapple
53430750	Tamale, sweet, with fruit
53450000	Turnover or dumpling, apple
53450300	Turnover or dumpling, berry
53450500	Turnover or dumpling, cherry
53450800	Turnover or dumpling, lemon
53451000	Turnover or dumpling, peach
53451500	Turnover, guava
53451750	Turnover, pumpkin
53511000	Danish pastry, with cheese
53510100	Danish pastry, with fruit
53521220	Doughnut, chocolate cream-filled
53521210	Doughnut, custard-filled
53521230	Doughnut, custard-filled, with icing
53521140	Doughnut, jelly
58100300	Burrito with beans and rice, meatless
58100320	Burrito with beans, meatless
58100330	Burrito with beans, rice, and sour cream, meatless
58100200	Burrito with chicken
58100220	Burrito with chicken and beans
58100235	Burrito with chicken and sour cream
58100255	Burrito with chicken, beans, and rice
58100245	Burrito with chicken, beans, and sour cream
58100260	Burrito with chicken, beans, rice, and sour cream
58100100	Burrito with meat
58100120	Burrito with meat and beans

58100125 Burrito with meat and beans, from fast food
 58100135 Burrito with meat and sour cream
 58100160 Burrito with meat, beans, and rice
 58100140 Burrito with meat, beans, and sour cream
 58100145 Burrito with meat, beans, and sour cream, from fast food
 58100165 Burrito with meat, beans, rice, and sour cream
 58100000 Burrito, taco, or quesadilla with egg
 58100010 Burrito, taco, or quesadilla with egg and breakfast meat
 58100013 Burrito, taco, or quesadilla with egg and breakfast meat, from fast food
 58100005 Burrito, taco, or quesadilla with egg and potato
 58100020 Burrito, taco, or quesadilla with egg, beans, and breakfast meat
 58100015 Burrito, taco, or quesadilla with egg, potato, and breakfast meat
 58100017 Burrito, taco, or quesadilla with egg, potato, and breakfast meat, from fast food
 58128110 Chicken cornbread
 58104530 Chimichanga with chicken
 58104550 Chimichanga with chicken and sour cream
 58104500 Chimichanga with meat
 58104520 Chimichanga, meatless
 58104540 Chimichanga, meatless, with sour cream
 58118210 Cornmeal coconut dessert, Puerto Rican style (Harina de maiz con coco)
 58128120 Cornmeal dressing with chicken or turkey and vegetables
 58117110 Cornmeal fritter, Puerto Rican style (Arepá; P.R. arepita)
 58117210 Cornmeal stick, Puerto Rican style (Sorullos / Sorullitos de maiz)
 58120120 Crepe, filled with beef, pork, fish and/or poultry, no sauce on top
 58120110 Crepes, filled with meat, fish, or poultry, with sauce
 58100725 Enchilada with beans, green-chile or enchilada sauce
 58100720 Enchilada with beans, meatless, red-chile or enchilada sauce
 58100625 Enchilada with chicken and beans, green-chile or enchilada sauce
 58100620 Enchilada with chicken and beans, red-chile or enchilada sauce
 58100635 Enchilada with chicken, green-chile or enchilada sauce
 58100630 Enchilada with chicken, red-chile or enchilada sauce
 58100525 Enchilada with meat and beans, green-chile or enchilada sauce
 58100520 Enchilada with meat and beans, red-chile or enchilada sauce
 58100535 Enchilada with meat, green-chile or enchilada sauce
 58100530 Enchilada with meat, red-chile or enchilada sauce
 58100805 Enchilada, just cheese, meatless, no beans, green-chile or enchilada sauce
 58100800 Enchilada, just cheese, meatless, no beans, red-chile or enchilada sauce
 58105000 Fajita with chicken and vegetables
 58105050 Fajita with meat and vegetables
 58101800 Ground beef with tomato sauce and taco seasonings on a cornbread crust
 58104730 Quesadilla with meat
 58104750 Quesadilla with vegetables
 58104770 Quesadilla with vegetables and chicken

58104760 Quesadilla with vegetables and meat
 58104720 Quesadilla, just cheese, from fast food
 58104710 Quesadilla, just cheese, meatless
 58101610 Soft taco with beans
 58101615 Soft taco with beans and sour cream
 58101450 Soft taco with chicken
 58101625 Soft taco with chicken and beans
 58101460 Soft taco with chicken and sour cream
 58101635 Soft taco with chicken, beans, and sour cream
 58101555 Soft taco with fish
 58101350 Soft taco with meat and sour cream
 58101357 Soft taco with meat and sour cream, from fast food
 58101630 Soft taco with meat, beans, and sour cream
 58115110 Tamale casserole, Puerto Rican style (Tamales en cazuela)
 58306010 Beef enchilada dinner, NFS (frozen meal)
 58306020 Beef enchilada, chili gravy, rice, refried beans (frozen meal)
 58306070 Cheese enchilada (frozen meal)
 58306500 Chicken burritos (diet frozen meal)
 58306100 Chicken enchilada (diet frozen meal)
 58421080 Sopa de tortilla, Mexican style tortilla soup, home recipe
 63107410 Banana, batter-dipped, fried
 75415021 Onion rings, from fresh, batter-dipped, baked or fried
 75415022 Onion rings, from frozen, batter-dipped, baked or fried
 75415020 Onion rings, NS as to form, batter-dipped, baked or fried
 75418000 Squash, summer, yellow or green, breaded or battered, baked
 75418010 Squash, summer, yellow or green, breaded or battered, fried

Bars (Granola, High Protein)

[Erythritol] = 15%

53720100 Balance Original Bar
 53714520 Breakfast bar, cereal crust with fruit filling, lowfat
 53714510 Breakfast bar, date, with yogurt coating
 53714500 Breakfast bar, NFS
 53720200 Clif Bar
 53710400 Fiber One Chewy Bar
 53714220 Granola bar with nuts, chocolate-coated
 53714200 Granola bar, chocolate-coated, NFS
 53714250 Granola bar, coated with non-chocolate coating
 53714300 Granola bar, high fiber, coated with non-chocolate yogurt coating
 53712200 Granola bar, lowfat, NFS
 53712100 Granola bar, NFS
 53712210 Granola bar, nonfat

53714230	Granola bar, oats, nuts, coated with non-chocolate coating
53713100	Granola bar, peanuts , oats, sugar, wheat germ
53713000	Granola bar, reduced sugar, NFS
53714210	Granola bar, with coconut, chocolate-coated
53714400	Granola bar, with rice cereal
53710800	Kashi GOLEAN Chewy Bars
53710804	Kashi GOLEAN Crunchy Bars
53710802	Kashi TLC Chewy Granola Bar
53710806	Kashi TLC Crunchy Granola Bar
53710500	Kellogg's Nutri-Grain Cereal Bar
53710504	Kellogg's Nutri-Grain Fruit and Nut Bar
53710502	Kellogg's Nutri-Grain Yogurt Bar
53710700	Kellogg's Special K bar
53710600	Milk 'n Cereal bar
53710902	Nature Valley Chewy Granola Bar with Yogurt Coating
53710900	Nature Valley Chewy Trail Mix Granola Bar
53710906	Nature Valley Crunchy Granola Bar
53710904	Nature Valley Sweet and Salty Granola Bar
53729000	Nutrition bar or meal replacement bar, NFS
53720300	PowerBar
53711004	Quaker Chewy 25% Less Sugar Granola Bar
53711002	Quaker Chewy 90 Calorie Granola Bar
53711006	Quaker Chewy Dipps Granola Bar
53711000	Quaker Chewy Granola Bar
53711100	Quaker Granola Bites
53720400	Slim Fast Original Meal Bar
53712000	Snack bar, oatmeal
53720500	Snickers Marathon Protein bar
53720610	South Beach Living High Protein Bar
53720600	South Beach Living Meal Bar
53720700	Tiger's Milk bar
53720800	Zone Perfect Classic Crunch nutrition bar

Cakes

[Erythritol] = 25%

53102100	Cake or cupcake, applesauce, without icing or filling
53102600	Cake or cupcake, banana, without icing or filling
53104100	Cake or cupcake, carrot, without icing or filling
53111000	Cake or cupcake, gingerbread
53114000	Cake or cupcake, lemon, without icing or filling
53115100	Cake or cupcake, marble, without icing or filling
53100100	Cake or cupcake, NS as to type

53115310 Cake or cupcake, nut, without icing or filling
 53115410 Cake or cupcake, oatmeal
 53115450 Cake or cupcake, peanut butter
 53116500 Cake or cupcake, pumpkin, without icing or filling
 53116550 Cake or cupcake, raisin-nut
 53117100 Cake or cupcake, spice, without icing or filling
 53120270 Cake or cupcake, white, with icing or filling
 53120275 Cake or cupcake, white, without icing or filling
 53121270 Cake or cupcake, yellow, with icing or filling
 53121275 Cake or cupcake, yellow, without icing or filling
 53124110 Cake or cupcake, zucchini
 53101100 Cake, angel food, without icing or filling
 53104300 Cake, carrot, diet
 53105500 Cake, chocolate, with icing, diet
 53106500 Cake, cream, without icing or topping
 53110000 Cake, fruit cake, light or dark, holiday type cake
 53116270 Cake, pound, chocolate
 53116350 Cake, pound, Puerto Rican style (Ponque)
 53116390 Cake, pound, reduced fat, cholesterol free
 53116000 Cake, pound, without icing or filling
 53116650 Cake, Quesadilla, El Salvadorian style
 53116570 Cake, Ravani (made with farina)
 53116600 Cake, rice flour, without icing or filling
 53118300 Cake, sponge, chocolate
 53118100 Cake, sponge, without icing or filling
 53118410 Rum cake, without icing (Sopa Borracha)

Adjusted for a recipe factor of 25 to 73%

[Erythritol] = 6.25 to 18.25%

53102200 Cake or cupcake, applesauce, with icing or filling
 53102700 Cake or cupcake, banana, with icing or filling
 53102800 Cake or cupcake, black forest (chocolate-cherry)
 53104260 Cake or cupcake, carrot, with icing or filling
 53105270 Cake or cupcake, chocolate, devil's food or fudge, with icing or filling
 53105275 Cake or cupcake, chocolate, devil's food or fudge, without icing or filling
 53104400 Cake or cupcake, coconut, with icing or filling
 53105300 Cake or cupcake, German chocolate, with icing or filling
 53114100 Cake or cupcake, lemon, with icing or filling
 53115200 Cake or cupcake, marble, with icing or filling
 53115320 Cake or cupcake, nut, with icing or filling
 53116510 Cake or cupcake, pumpkin, with icing or filling
 53117200 Cake or cupcake, spice, with icing or filling

53101250 Cake, angel food, with fruit and icing or filling
 53101200 Cake, angel food, with icing or filling
 53103000 Cake, Boston cream pie
 53109300 Cake, Dobos Torte (non-chocolate layer cake with chocolate filling and icing)
 53112000 Cake, ice cream and cake roll, chocolate
 53112100 Cake, ice cream and cake roll, not chocolate
 53113000 Cake, jelly roll
 53116020 Cake, pound, with icing or filling
 53122080 Cake, shortcake, biscuit type, with fruit
 53122070 Cake, shortcake, biscuit type, with whipped cream and fruit
 53123080 Cake, shortcake, sponge type, with fruit
 53123070 Cake, shortcake, sponge type, with whipped cream and fruit
 53123500 Cake, shortcake, with whipped topping and fruit, diet
 53118200 Cake, sponge, with icing or filling
 53118500 Cake, torte
 53118550 Cake, tres leche
 53119000 Cake, upside down (all fruits)
 53104500 Cheesecake
 53104550 Cheesecake with fruit
 53104600 Cheesecake, chocolate
 53108200 Snack cake, chocolate, with icing or filling
 53108220 Snack cake, chocolate, with icing or filling, reduced fat and calories
 53109200 Snack cake, not chocolate, with icing or filling
 53109220 Snack cake, not chocolate, with icing or filling, reduced fat and calories
 53610100 Coffee cake, crumb or quick-bread type
 53610200 Coffee cake, crumb or quick-bread type, cheese-filled
 53610170 Coffee cake, crumb or quick-bread type, with fruit

Cookies

[Erythritol] = 15%

53211000 Cookie bar, with chocolate, nuts, and graham crackers
 53202000 Cookie, almond
 53240000 Cookie, animal
 53205260 Cookie, bar, with chocolate
 53203500 Cookie, biscotti (Italian sugar cookie)
 53204000 Cookie, brownie, NS as to icing
 53204100 Cookie, brownie, with icing or filling
 53204010 Cookie, brownie, without icing
 53241500 Cookie, butter or sugar
 53244010 Cookie, butter or sugar, with chocolate icing or filling
 53241600 Cookie, butter or sugar, with fruit and/or nuts
 53244020 Cookie, butter or sugar, with icing or filling other than chocolate

53205250 Cookie, butterscotch, brownie
 53209500 Cookie, chocolate and vanilla sandwich
 53206000 Cookie, chocolate chip
 53206100 Cookie, chocolate chip sandwich
 53206020 Cookie, chocolate chip, made from home recipe or purchased at a bakery
 53206030 Cookie, chocolate chip, reduced fat
 53260030 Cookie, chocolate chip, sugar free
 53207000 Cookie, chocolate or fudge
 53207020 Cookie, chocolate or fudge, reduced fat
 53209015 Cookie, chocolate sandwich
 53209020 Cookie, chocolate sandwich, reduced fat
 53210000 Cookie, chocolate wafer
 53206550 Cookie, chocolate, made with oatmeal and coconut (no-bake)
 53206500 Cookie, chocolate, made with rice cereal
 53209100 Cookie, chocolate, sandwich, with extra filling
 53207050 Cookie, chocolate, with chocolate filling or coating, fat free
 53209005 Cookie, chocolate, with icing or coating
 53215500 Cookie, coconut
 53222020 Cookie, cone shell, ice cream type, wafer or cake
 53220030 Cookie, fig bar
 53220040 Cookie, fig bar, fat free
 53222010 Cookie, fortune
 53223000 Cookie, gingersnaps
 53261000 Cookie, gluten free
 53210900 Cookie, graham cracker with chocolate and marshmallow
 53223100 Cookie, granola
 53224000 Cookie, ladyfinger
 53231000 Cookie, Lebkuchen
 53224250 Cookie, lemon bar
 53225000 Cookie, macaroon
 53226600 Cookie, marshmallow and peanut butter, with oat cereal (no-bake)
 53208200 Cookie, marshmallow pie, chocolate covered
 53208000 Cookie, marshmallow, chocolate-covered
 53226000 Cookie, marshmallow, with coconut
 53226500 Cookie, marshmallow, with rice cereal (no-bake)
 53226550 Cookie, marshmallow, with rice cereal and chocolate chips
 53228000 Cookie, meringue
 53230000 Cookie, molasses
 53231400 Cookie, multigrain, high fiber
 53201000 Cookie, NFS
 53233000 Cookie, oatmeal
 53233040 Cookie, oatmeal, reduced fat, NS as to raisins
 53260200 Cookie, oatmeal, sugar free

53233100 Cookie, oatmeal, with chocolate and peanut butter (no-bake)
 53233060 Cookie, oatmeal, with chocolate chips
 53233010 Cookie, oatmeal, with raisins
 53234000 Cookie, peanut butter
 53235000 Cookie, peanut butter sandwich
 53234250 Cookie, peanut butter with rice cereal (no-bake)
 53260600 Cookie, peanut butter, sugar free
 53234100 Cookie, peanut butter, with chocolate
 53235600 Cookie, Pfeffernusse
 53236000 Cookie, pizzelle (Italian style wafer)
 53236100 Cookie, pumpkin
 53237000 Cookie, raisin
 53251100 Cookie, rugelach
 53237500 Cookie, rum ball (no-bake)
 53260300 Cookie, sandwich, sugar free
 53239000 Cookie, shortbread
 53239010 Cookie, shortbread, reduced fat
 53260400 Cookie, sugar or plain, sugar free
 53242000 Cookie, sugar wafer
 53209010 Cookie, sugar wafer, chocolate-covered
 53260500 Cookie, sugar wafer, sugar free
 53246000 Cookie, tea, Japanese
 53242500 Cookie, toffee bar
 53247000 Cookie, vanilla wafer
 53247050 Cookie, vanilla wafer, reduced fat
 53247500 Cookie, vanilla with caramel, coconut, and chocolate coating
 53235500 Cookie, with peanut butter filling, chocolate-coated
 53270100 Cookies, Puerto Rican (Mantecaditos polvorones)
 53241510 Marie biscuit
 53239100 Pocky (Japanese snack)

Adjusted for a recipe factor of 65 to 72%

[Erythritol] = 9.75 to 10.80%

53240010 Cookie, animal, with frosting or icing
 53203000 Cookie, applesauce
 53204860 Cookie, brownie, fat free, NS as to icing
 53204840 Cookie, brownie, reduced fat, NS as to icing
 53220000 Cookie, fruit-filled bar
 53220010 Cookie, fruit-filled bar, fat free
 53233050 Cookie, oatmeal sandwich, with creme filling
 53233080 Cookie, oatmeal sandwich, with peanut butter and jelly filling
 53237010 Cookie, raisin sandwich, cream-filled

53238000 Cookie, sandwich-type, not chocolate or vanilla
 53239050 Cookie, shortbread, with icing or filling
 53243000 Cookie, vanilla sandwich
 53243010 Cookie, vanilla sandwich, extra filling
 53243050 Cookie, vanilla sandwich, reduced fat

Alcoholic Beverages (Lite Beer, Coolers)

[Erythritol] = 3.5%

93102000 Beer, light
 93102200 Beer, light, higher alcohol
 93102100 Beer, low carb
 93404000 Wine cooler
 93504100 Rum cooler

Flavored Quenchers

[Erythritol] = 3.5%

95320200 Gatorade G sports drink
 95322200 Gatorade G2 sports drink, low calorie
 95320500 Powerade sports drink
 95322500 Powerade Zero sports drink, low calorie
 95323000 Sports drink, low calorie
 95321000 Sports drink, NFS

Adjusted for a reconstitution factor of 16

[Erythritol] = 56%

92900300 Sports drink, dry concentrate, not reconstituted

Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages

[Erythritol] = 3.5%

92307520 Iced Tea / Lemonade juice drink, diet
 92307510 Iced Tea / Lemonade juice drink, light
 92309030 Tea, iced, bottled, black, decaffeinated, diet
 92309020 Tea, iced, bottled, black, diet
 92309510 Tea, iced, bottled, green, diet
 92308040 Tea, iced, brewed, black, decaffeinated, pre-sweetened with low calorie sweetener
 92308010 Tea, iced, brewed, black, pre-sweetened with low calorie sweetener
 92308540 Tea, iced, brewed, green, decaffeinated, pre-sweetened with low calorie sweetener
 92308510 Tea, iced, brewed, green, pre-sweetened with low calorie sweetener
 92305110 Tea, iced, instant, black, decaffeinated, pre-sweetened with low calorie sweetener
 92305920 Tea, iced, instant, green, pre-sweetened with low calorie sweetener

92410250 Carbonated water, sweetened, with low-calorie or no-calorie sweetener
 92410820 Soft drink, chocolate flavored, diet
 92411620 Soft drink, cola, chocolate flavored, diet
 92410350 Soft drink, cola, decaffeinated, diet
 92410320 Soft drink, cola, diet
 92411610 Soft drink, cola, fruit or vanilla flavored, diet
 92410315 Soft drink, cola, reduced sugar
 92410420 Soft drink, cream soda, diet
 92410560 Soft drink, fruit flavored, caffeine containing, diet
 92410520 Soft drink, fruit flavored, diet, caffeine free
 92410620 Soft drink, ginger ale, diet
 92400100 Soft drink, NFS, diet
 92410400 Soft drink, pepper type, decaffeinated, diet
 92410370 Soft drink, pepper type, diet
 92410720 Soft drink, root beer, diet
 92550360 Apple juice beverage, 40-50% juice, light
 92552030 Capri Sun, fruit juice drink
 92550110 Cranberry juice drink, with high vitamin C, light
 92550620 Fruit flavored drink, diet
 92552010 Fruit flavored drink, powdered, reconstituted, diet
 92550610 Fruit flavored drink, with high vitamin C, diet
 92552000 Fruit flavored drink, with high vitamin C, powdered, reconstituted, diet
 92550040 Fruit juice drink, diet
 92550035 Fruit juice drink, light
 92550030 Fruit juice drink, with high vitamin C, light
 92550200 Grape juice drink, light
 92550370 Lemonade, fruit juice drink, light
 92550350 Orange juice beverage, 40-50% juice, light
 92550380 Pomegranate juice beverage, 40-50% juice, light
 92552020 Sunny D, reduced sugar
 92550400 Vegetable and fruit juice drink, with high vitamin C, diet
 92550405 Vegetable and fruit juice drink, with high vitamin C, light
 94100200 Water, bottled, sweetened, with low calorie sweetener
 94220215 Glaceau Vitamin Water Zero
 94220110 Propel Zero Calcium Water
 94220100 Propel Zero Water
 94210300 SoBe Life Water
 94220310 SoBe Life Water Zero
 95341000 FUZE Slenderize fortified low calorie fruit juice beverage
 95312400 Monster Energy Drink, Lo Carb
 95312500 Mountain Dew AMP Energy Drink, sugar-free
 95312550 No Fear Energy Drink, sugar-free
 95312555 NOS Energy Drink, sugar-free

95312600 Red Bull Energy Drink, sugar-free
 95312700 Rockstar Energy Drink, sugar-free
 95312800 Vault Zero Energy Drink

Adjusted for a recipe factor of 74.66%
 [Erythritol] = 2.61%

93301191 Rum and diet cola
 93301215 Vodka and diet cola
 93301183 Whiskey and diet cola

Adjusted for a reconstitution factor of 16
 [Erythritol] = 56%

92900200 Fruit flavored drink, powdered, not reconstituted, diet

Hot Cereal – Oatmeal (Instant or Cooked)
 [Erythritol] = 3%

56203200 Oatmeal with fruit, cooked
 56203110 Oatmeal with maple flavor, cooked
 56203070 Oatmeal, cooked, instant, fat added in cooking
 56203030 Oatmeal, cooked, instant, fat not added in cooking
 56203223 Oatmeal, cooked, instant, made with milk, fat added in cooking
 56203213 Oatmeal, cooked, instant, made with milk, fat not added in cooking
 56203233 Oatmeal, cooked, instant, made with milk, NS as to fat added in cooking
 56203080 Oatmeal, cooked, instant, NS as to fat added in cooking
 56203000 Oatmeal, cooked, NS as to regular, quick or instant, fat not added in cooking
 56202960 Oatmeal, cooked, NS as to regular, quick or instant; NS as to fat added in cooking
 56203040 Oatmeal, cooked, NS as to regular, quick, or instant, fat added in cooking
 56203060 Oatmeal, cooked, quick (1 or 3 minutes), fat added in cooking
 56203020 Oatmeal, cooked, quick (1 or 3 minutes), fat not added in cooking
 56203222 Oatmeal, cooked, quick (1 or 3 minutes), made with milk, fat added in cooking
 56203212 Oatmeal, cooked, quick (1 or 3 minutes), made with milk, fat not added in cooking
 56203232 Oatmeal, cooked, quick (1 or 3 minutes), made with milk, NS as to fat added in cooking
 56202970 Oatmeal, cooked, quick (1 or 3 minutes), NS as to fat added in cooking
 56203050 Oatmeal, cooked, regular, fat added in cooking
 56203010 Oatmeal, cooked, regular, fat not added in cooking
 56203221 Oatmeal, cooked, regular, made with milk, fat added in cooking
 56203211 Oatmeal, cooked, regular, made with milk, fat not added in cooking
 56203231 Oatmeal, cooked, regular, made with milk, NS as to fat added in cooking
 56202980 Oatmeal, cooked, regular, NS as to fat added in cooking
 56203540 Oatmeal, made with milk and sugar, Puerto Rican style

56203620 Oatmeal, multigrain, cooked, fat added in cooking
 56203610 Oatmeal, multigrain, cooked, fat not added in cooking
 56203600 Oatmeal, multigrain, cooked, NS as to fat added in cooking
 56203220 Oatmeal, NS as to regular, quick, or instant, made with milk, fat added in cooking
 56203210 Oatmeal, NS as to regular, quick, or instant, made with milk, fat not added in cooking
 56203230 Oatmeal, NS as to regular, quick, or instant, made with milk, NS as to fat added in cooking

Ready-to-Eat Cereals

[Erythritol] = 30%

57000000 Cereal, NFS
 57000050 Kashi cereal, NS as to ready to eat or cooked
 57000100 Oat cereal, NFS
 57101000 All-Bran
 57110000 All-Bran Bran Buds, Kellogg's (formerly Bran Buds)
 57102000 Alpen
 57103000 Alpha-Bits
 57103020 Alpha-bits with marshmallows
 57103100 Apple Cinnamon Cheerios
 57104000 Apple Jacks
 57106060 Banana Nut Cheerios
 57106050 Banana Nut Crunch Cereal (Post)
 57106100 Basic 4
 57106250 Berry Berry Kix
 57106260 Berry Burst Cheerios
 57106530 Blueberry Morning, Post
 57107000 Booberry
 57117000 Cap'n Crunch
 57117500 Cap'n Crunch's Christmas Crunch
 57119000 Cap'n Crunch's Crunch Berries
 57120000 Cap'n Crunch's Peanut Butter Crunch
 57100100 Cereal, ready-to-eat, NFS
 57123000 Cheerios
 57124000 Chex cereal, NFS
 57124030 Chex Chocolate
 57124050 Chex Cinnamon
 57124100 Chocolate Cheerios
 57124200 Chocolate flavored frosted puffed corn cereal
 57124300 Chocolate Lucky Charms
 57124900 Cinnabon cereal
 57125000 Cinnamon Toast Crunch
 57125010 Cinnamon Toast Crunch Reduced Sugar

57126000	Cocoa Krispies
57127000	Cocoa Pebbles
57128000	Cocoa Puffs
57128005	Cocoa Puffs, reduced sugar
57130000	Cookie-Crisp
57132000	Corn Chex
57135000	Corn flakes, Kellogg's
57134000	Corn flakes, NFS
57137000	Corn Puffs
57139000	Count Chocula
57143000	Cracklin' Oat Bran
57143500	Cranberry Almond Crunch, Post
57144000	Crisp Crunch
57148000	Crispix
57148500	Crispy Brown Rice Cereal
57151000	Crispy Rice
57131000	Crunchy Corn Bran, Quaker
57125900	Honey Nut Clusters (formerly called Clusters)
57208000	All-Bran Complete Wheat Flakes, Kellogg's
57207000	Bran Flakes, NFS (formerly 40% Bran Flakes, NFS)
57201900	Dora the Explorer Cereal
57206000	Familia
57206800	Fiber 7 Flakes, Health Valley
57206700	Fiber One
57206705	Fiber One Caramel Delight
57206710	Fiber One Honey Clusters
57206715	Fiber One Raisin Bran Clusters
57211000	Frankenberry
57213000	Froot Loops
57213010	Froot Loops Marshmallow
57213850	Frosted Cheerios
57214000	Frosted Mini-Wheats
57218000	Frosted Rice Krispies, Kellogg's
57216000	Frosted rice, NFS
57214100	Frosted Wheat Bites
57215000	Frosty O's
57221000	Fruit & Fibre (fiber) with dates, raisins, and walnuts
57219000	Fruit & Fibre (fiber), NFS
57221700	Fruit Rings, NFS
57221800	Fruit Whirls
57221810	Fruity Cheerios
57223000	Fruity Pebbles
57224000	Golden Grahams

57229500 Granola with Raisins, lowfat, Kellogg's
 57228000 Granola, homemade
 57229000 Granola, lowfat, Kellogg's
 57227000 Granola, NFS
 57230000 Grape-Nuts
 57231000 Grape-Nuts Flakes
 57231100 Grape-Nuts Trail Mix Crunch
 57231250 Great Grains Double Pecan Whole Grain Cereal, Post
 57231200 Great Grains, Raisin, Date, and Pecan Whole Grain Cereal, Post
 57237100 Honey Bunches of Oats Honey Roasted Cereal
 57237900 Honey Bunches of Oats Just Bunches
 57237300 Honey Bunches of Oats with Almonds, Post
 57237310 Honey Bunches of Oats with Pecan Bunches
 57237200 Honey Bunches of Oats with Vanilla Clusters, Post
 57239100 Honey Crunch Corn Flakes, Kellogg's
 57241000 Honey Nut Cheerios
 57240100 Honey Nut Chex
 57241200 Honey Nut Shredded Wheat, Post
 57243000 Honey Smacks, Kellogg's (formerly Smacks; Honey Smacks)
 57238000 Honeycomb, plain
 57239000 Honeycomb, strawberry
 57209000 Natural Bran Flakes, Post (formerly called 40% Bran Flakes, Post)
 57320500 100 % Natural Cereal, with oats, honey and raisins, Quaker
 57321500 100 % Natural Wholegrain Cereal with raisins, lowfat, Quaker
 57319000 100% Natural Cereal, plain, Quaker
 57347000 Corn Pops
 57348000 Frosted corn flakes, NFS
 57349000 Frosted Flakes, Kellogg's
 57305150 Frosted oat cereal with marshmallows
 57355000 Golden Crisp (Formerly called Super Golden Crisp)
 57303105 Honey Kix
 57301505 Kashi Autumn Wheat
 57301510 Kashi GOLEAN
 57301511 Kashi GOLEAN Crunch
 57301512 Kashi GOLEAN Crunch Honey Almond Flax
 57301520 Kashi Good Friends
 57301530 Kashi Heart to Heart Honey Toasted Oat
 57301535 Kashi Heart to Heart Oat Flakes and Blueberry Clusters
 57301540 Kashi Honey Sunshine
 57301500 Kashi, Puffed
 57302100 King Vitaman
 57303100 Kix
 57304100 Life (plain and cinnamon)

57305100 Lucky Charms
 57305160 Malt-O-Meal Blueberry Muffin Tops
 57305165 Malt-O-Meal Cinnamon Toasters
 57305175 Malt-O-Meal Cocoa Dyno-Bites
 57305170 Malt-O-Meal Coco-Roos
 57305174 Malt-O-Meal Colossal Crunch
 57305180 Malt-O-Meal Corn Bursts
 57305200 Malt-O-Meal Crispy Rice
 57305210 Malt-O-Meal Frosted Flakes
 57305215 Malt-O-Meal Frosted Mini Spooners
 57305300 Malt-O-Meal Fruity Dyno-Bites
 57306500 Malt-O-Meal Golden Puffs (formerly Sugar Puffs)
 57305500 Malt-O-Meal Honey and Nut Toasty O's
 57305400 Malt-O-Meal Honey Graham Squares
 57305600 Malt-O-Meal Marshmallow Mateys
 57306100 Malt-O-Meal Puffed Rice
 57306120 Malt-O-Meal Puffed Wheat
 57306130 Malt-O-Meal Raisin Bran
 57306700 Malt-O-Meal Toasted Oat Cereal
 57306800 Malt-O-meal Tootie Fruities
 57307010 Maple Pecan Crunch Cereal, Post
 57307500 Millet, puffed
 57308190 Muesli, dried fruit and nuts (formerly Muesli with raisins, dates, and almonds)
 57308150 Mueslix cereal, NFS
 57308400 MultiGrain Cheerios
 57309100 Nature Valley Granola, with fruit and nuts
 57316200 Nutty Nuggets, Ralston Purina
 57316300 Oat Bran Flakes, Health Valley
 57316380 Oat Cluster Cheerios Crunch
 57316450 Oatmeal Crisp with Almonds
 57316500 Oatmeal Crisp, Raisin (formerly Oatmeal Raisin Crisp)
 57346500 Oatmeal Honey Nut Heaven, Quaker (formerly Toasted Oatmeal, Honey Nut)
 57316710 Oh's, Honey Graham
 57321900 Organic Flax Plus, Nature's Path
 57321905 Organic Flax Plus, Pumpkin Granola, Nature's Path
 57325000 Product 19
 57326000 Puffins Cereal
 57327450 Quaker Oat Bran Cereal
 57327500 Quaker Oatmeal Squares (formerly Quaker Oat Squares)
 57328000 Quisp
 57330010 Raisin Bran Crunch, Kellogg's
 57330000 Raisin Bran, Kellogg's
 57329000 Raisin bran, NFS

57331000	Raisin Bran, Post
57332050	Raisin Bran, Total
57332100	Raisin Nut Bran
57349020	Reduced Sugar Frosted Flakes Cereal, Kellogg's
57335550	Reese's Peanut Butter Puffs cereal
57336000	Rice Chex
57337000	Rice Flakes, NFS
57339500	Rice Krispies Treats Cereal, Kellogg's
57339000	Rice Krispies, Kellogg's
57340000	Rice, puffed
57341000	Shredded Wheat'N Bran
57341200	Smart Start Strong Heart Antioxidants Cereal, Kellogg's
57344000	Special K
57344001	Special K Blueberry
57344005	Special K Chocolatey Delight
57344025	Special K Cinnamon Pecan, Kellogg's
57344015	Special K Fruit & Yogurt
57344007	Special K Low Fat Granola
57344010	Special K Red Berries
57344020	Special K Vanilla Almond
57323000	Sweet Crunch, Quaker (formerly called Popeye)
57417000	Shredded Wheat, 100%
57401100	Toasted oat cereal
57406100	Total
57407100	Trix
57407110	Trix, reduced sugar
57408100	Uncle Sam Cereal (formerly Uncle Sam's Hi Fiber Cereal)
57409100	Waffle Crisp, Post
57410000	Weetabix Whole Wheat Cereal
57411000	Wheat Chex
57412000	Wheat germ, plain
57413000	Wheat germ, with sugar and honey
57416000	Wheat, puffed, plain
57416010	Wheat, puffed, presweetened with sugar
57418000	Wheaties
57419000	Yogurt Burst Cheerios

Chewing Gum

[Erythritol] = 75%

91800100	Chewing gum, NFS
91801000	Chewing gum, regular
91802000	Chewing gum, sugar free

BBQ Sauce

[Erythritol] = 15%

74406010 Barbecue sauce

Adjusted for a recipe factor of 10.24 to 42.46%

[Erythritol] = 1.54 to 6.37%

21304210 Beef, shortribs, barbecued, with sauce, lean and fat eaten
21304220 Beef, shortribs, barbecued, with sauce, lean only eaten
21304200 Beef, shortribs, barbecued, with sauce, NS as to fat eaten
22701040 Pork, spareribs, barbecued, with sauce, lean and fat eaten
22701050 Pork, spareribs, barbecued, with sauce, lean only eaten
22701030 Pork, spareribs, barbecued, with sauce, NS as to fat eaten
27116200 Beef with barbecue sauce (mixture)
27146000 Chicken or turkey with barbecue sauce, skin eaten
27146010 Chicken or turkey with barbecue sauce, skin not eaten
27120030 Ham or pork with barbecue sauce (mixture)
27160010 Meat with barbecue sauce, NS as to type of meat (mixture)
27510110 Beef barbecue sandwich or Sloppy Joe, on bun
27510130 Beef barbecue submarine sandwich, on bun
27540130 Chicken barbecue sandwich
27520510 Pork barbecue sandwich or Sloppy Joe, on bun
27520500 Pork sandwich, on white roll, with onions, dill pickles and barbecue sauce
28110620 Beef short ribs, boneless, with barbecue sauce, potatoes, vegetable (frozen meal)

Tomato Sauce

[Erythritol] = 15%

74401010 Tomato catsup
74401110 Tomato catsup, reduced sodium
74402010 Tomato chili sauce (catsup-type)

Adjusted for a recipe factor of 3.49 to 16.62%

[Erythritol] = 0.52 to 2.49%

27111500 Beef sloppy joe (no bun)
27150020 Crab, deviled
27151040 Crabs in tomato-based sauce, Puerto Rican style (mixture) (Salmorejo de jueyes)
27315250 Stuffed cabbage rolls with beef and rice
27418310 Corned beef with tomato sauce and onion, Puerto Rican style (mixture)
27510445 Bacon cheeseburger, 1/3 lb meat, with tomato and/or catsup, on bun
27510440 Bacon cheeseburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun

- 27510400 Bacon cheeseburger, 1/4 lb meat, with tomato and/or catsup, on bun
- 27510360 Bacon cheeseburger, with mayonnaise or salad dressing, tomato and/or catsup, on bun
- 27510310 Cheeseburger with tomato and/or catsup, on bun
- 27510355 Cheeseburger, 1/3 lb meat, with mayonnaise or salad dressing, tomato and/or catsup on bun
- 27510350 Cheeseburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510320 Cheeseburger, 1/4 lb meat, with tomato and/or catsup, on bun
- 27510230 Cheeseburger, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510385 Double bacon cheeseburger (2 patties), with tomato and/or catsup, on bun
- 27510430 Double bacon cheeseburger (2 patties, 1/4 lb meat each), with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510340 Double cheeseburger (2 patties), with mayonnaise or salad dressing and tomatoes and/or catsup, on bun
- 27510330 Double cheeseburger (2 patties), with tomato and/or catsup, on bun
- 27510375 Double cheeseburger (2 patties, 1/4 lb meat each), with tomato and/or catsup, on bun
- 27510540 Double hamburger (2 patties), with tomato and/or catsup, on bun
- 27510690 Double hamburger (2 patties, 1/4 lb meat each), with mayonnaise or salad dressing and tomatoes and/or catsup, on double-decker bun
- 27510680 Double hamburger (2 patties, 1/4 lb meat each), with tomato and/or catsup, on bun
- 27510610 Hamburger, 1 oz meat, with tomato and/or catsup, on miniature bun
- 27510560 Hamburger, 1/4 lb meat, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510620 Hamburger, 1/4 lb meat, with tomato and/or catsup, on bun
- 27510520 Hamburger, with mayonnaise or salad dressing, and tomato and/or catsup, on bun
- 27510510 Hamburger, with tomato and/or catsup, on bun
- 27510380 Triple cheeseburger (3 patties, 1/4 lb meat each), with mayonnaise or salad dressing and tomatoes and/or catsup, on bun
- 27518000 Wrap sandwich filled with beef patty, bacon, cheese, tomato and/or catsup, and spread and/or sauce
- 27517010 Wrap sandwich filled with beef patty, cheese, tomato and/or catsup, and spread and/or sauce
- 41901020 Soyburger, meatless, with cheese on bun

Imitation Dairy Drinks (Soy, Almond, Cashew, Coconut, and Other Plant-Based Drinks)

[Erythritol] = 6%

- 11350000 Almond milk, sweetened
- 11350010 Almond milk, sweetened, chocolate
- 11350020 Almond milk, unsweetened
- 11350030 Almond milk, unsweetened, chocolate
- 11370000 Coconut milk
- 11340000 Imitation milk, non-soy, sweetened
- 11360000 Rice milk
- 11320000 Soy milk
- 11321000 Soy milk, chocolate
- 11320100 Soy milk, light
- 11321100 Soy milk, light, chocolate

11320200 Soy milk, nonfat
 11321200 Soy milk, nonfat, chocolate
 11513310 Chocolate milk, made from dry mix with non-dairy milk
 11513805 Chocolate milk, made from light syrup with non-dairy milk
 11513375 Chocolate milk, made from reduced sugar mix with non-dairy milk
 11513855 Chocolate milk, made from sugar free syrup with non-dairy milk
 11513750 Chocolate milk, made from syrup with non-dairy milk
 11514150 Hot chocolate / Cocoa, made with dry mix and non-dairy milk
 11514360 Hot chocolate / Cocoa, made with no sugar added dry mix and non-dairy milk
 11514310 Hot chocolate / Cocoa, made with no sugar added dry mix and water
 11512030 Hot chocolate / Cocoa, ready to drink, made with non-dairy milk
 11512120 Hot chocolate / Cocoa, ready to drink, made with non-dairy milk and whipped cream
 11513385 Nesquik, chocolate milk, made from dry mix with non-dairy milk
 11513395 Nesquik, chocolate milk, made from no sugar added dry mix with non-dairy milk
 11519215 Strawberry milk, non-dairy
 42401010 Coconut milk, used in cooking (liquid expressed from grated coconut meat, water added)

Adjusted for a recipe factor of 8.70 to 84.97%

[Erythritol] = 0.52 to 5.10%

13210820 Fresh corn custard, Puerto Rican style (Mazamorra, Mundo Nuevo)
 56201560 Cornmeal sticks, boiled
 58118110 Cornstarch coconut dessert, Puerto Rican style (Tembleque)
 58157210 Rice pudding made with coconut milk, Puerto Rican style
 58161200 Rice, cooked with coconut milk (Arroz con coco)
 73211110 Sweet potato and pumpkin casserole, Puerto Rican style
 91550100 Coconut cream cake, Puerto Rican style (Bien me sabe, "Tastes good to me")
 91560100 Haupia (coconut pudding)
 92101975 Coffee, Cafe Mocha, decaffeinated, with non-dairy milk
 92101960 Coffee, Cafe Mocha, with non-dairy milk
 92162002 Coffee, Cappuccino, decaffeinated, with non-dairy milk
 92161002 Coffee, Cappuccino, with non-dairy milk
 92102612 Coffee, Iced Caf   Mocha, decaffeinated, with non-dairy milk
 92102602 Coffee, Iced Caf   Mocha, with non-dairy milk
 92102512 Coffee, Iced Latte, decaffeinated, with non-dairy milk
 92102515 Coffee, Iced Latte, decaffeinated, with non-dairy milk, flavored
 92102502 Coffee, Iced Latte, with non-dairy milk
 92102505 Coffee, Iced Latte, with non-dairy milk, flavored
 92101913 Coffee, Latte, decaffeinated, with non-dairy milk
 92101919 Coffee, Latte, decaffeinated, with non-dairy milk, flavored
 92101903 Coffee, Latte, with non-dairy milk
 92101906 Coffee, Latte, with non-dairy milk, flavored
 92101933 Frozen coffee drink, decaffeinated, with non-dairy milk

- 92101938 Frozen coffee drink, decaffeinated, with non-dairy milk and whipped cream
- 92101923 Frozen coffee drink, with non-dairy milk
- 92101928 Frozen coffee drink, with non-dairy milk and whipped cream
- 92102080 Frozen mocha coffee drink, decaffeinated, with non-dairy milk
- 92102110 Frozen mocha coffee drink, decaffeinated, with non-dairy milk and whipped cream
- 92102020 Frozen mocha coffee drink, with non-dairy milk
- 92102050 Frozen mocha coffee drink, with non-dairy milk and whipped cream

Non-Dairy Toppings

[Erythritol] = 10%

- 12220200 Whipped topping, nondairy, frozen
- 12220270 Whipped topping, nondairy, frozen, fat free
- 12220250 Whipped topping, nondairy, frozen, lowfat
- 12220280 Whipped topping, nondairy, frozen, sugar free
- 12220000 Whipped topping, nondairy, NS as to canned, frozen, or made from powdered mix
- 12220100 Whipped topping, nondairy, pressurized can

Adjusted for a recipe factor of 7.22 to 24.30%

[Erythritol] = 0.72 to 2.43%

- 63403100 Fruit dessert with cream and/or pudding and nuts
- 63402970 Fruit salad (excluding citrus fruits) with nondairy whipped topping
- 63403030 Fruit salad (including citrus fruits) with nondairy whipped topping
- 91501040 Gelatin dessert with fruit and whipped cream
- 91501110 Gelatin dessert with fruit and whipped topping
- 91501030 Gelatin dessert with whipped cream

Low Calorie Salad Dressings

[Erythritol] = 15%

- 83201000 Blue or roquefort cheese dressing, light
- 83203000 Caesar dressing, light
- 83201400 Coleslaw dressing, light
- 83210100 Creamy dressing, light
- 83202020 French or Catalina dressing, light
- 83204500 Honey mustard dressing, light
- 83205450 Italian dressing, light
- 83208500 Korean dressing or marinade
- 83204050 Mayonnaise-type salad dressing, light
- 83206000 Russian dressing, light
- 83200100 Salad dressing, light, NFS
- 83206500 Sesame dressing, light

83207000 Thousand Island dressing, light
 83300100 Blue or roquefort cheese dressing, fat free
 83300200 Caesar dressing, fat free
 83300300 Creamy dressing, fat free
 83300400 French or Catalina dressing, fat free
 83300500 Honey mustard dressing, fat free
 83300600 Italian dressing, fat free
 83300800 Russian dressing, fat free
 83300900 Salad dressing, fat free, NFS
 83301000 Thousand Island dressing, fat free

Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)

[Erythritol] = 10%

11460160 Yogurt, frozen, chocolate, lowfat milk
 11460200 Yogurt, frozen, chocolate, nonfat milk
 11460400 Yogurt, frozen, chocolate, nonfat milk, with low-calorie sweetener
 11460100 Yogurt, frozen, chocolate, NS as to type of milk
 11460430 Yogurt, frozen, chocolate, whole milk
 11461000 Yogurt, frozen, chocolate-coated
 11461250 Yogurt, frozen, cone, chocolate
 11461280 Yogurt, frozen, cone, chocolate, lowfat milk
 11461260 Yogurt, frozen, cone, flavors other than chocolate
 11461270 Yogurt, frozen, cone, flavors other than chocolate, lowfat milk
 11460170 Yogurt, frozen, flavors other than chocolate, lowfat milk
 11460300 Yogurt, frozen, flavors other than chocolate, nonfat milk
 11460410 Yogurt, frozen, flavors other than chocolate, nonfat milk, with low-calorie sweetener
 11460000 Yogurt, frozen, flavors other than chocolate, NS as to type of milk
 11460440 Yogurt, frozen, flavors other than chocolate, whole milk
 11460250 Yogurt, frozen, flavors other than chocolate, with sorbet or sorbet-coated
 11460150 Yogurt, frozen, NS as to flavor, lowfat milk
 11460190 Yogurt, frozen, NS as to flavor, nonfat milk
 11459990 Yogurt, frozen, NS as to flavor, NS as to type of milk
 11460420 Yogurt, frozen, NS as to flavor, whole milk
 11461200 Yogurt, frozen, sandwich
 13127010 Dippin' Dots, flash frozen ice cream snacks, chocolate
 13127000 Dippin' Dots, flash frozen ice cream snacks, flavors other than chocolate
 13160410 Fat free ice cream, chocolate
 13160400 Fat free ice cream, flavors other than chocolate
 13160150 Fat free ice cream, no sugar added, chocolate
 13160160 Fat free ice cream, no sugar added, flavors other than chocolate
 13160420 Fat free ice cream, NS as to flavor
 13121300 Ice cream sundae, chocolate or fudge topping, with whipped cream

13121100 Ice cream sundae, fruit topping, with whipped cream
 13121500 Ice cream sundae, fudge topping, with cake, with whipped cream
 13121400 Ice cream sundae, not fruit or chocolate topping, with whipped cream
 13121200 Ice cream sundae, prepackaged type, flavors other than chocolate
 13126000 Ice cream, fried
 13110000 Ice cream, NFS
 13110330 Ice cream, no sugar added, chocolate
 13110320 Ice cream, no sugar added, flavors other than chocolate
 13110310 Ice cream, no sugar added, NS as to flavor
 13110110 Ice cream, regular, chocolate
 13110100 Ice cream, regular, flavors other than chocolate
 13110130 Ice cream, rich, chocolate
 13110120 Ice cream, rich, flavors other than chocolate
 13110140 Ice cream, rich, NS as to flavor
 13110210 Ice cream, soft serve, chocolate
 13110200 Ice cream, soft serve, flavors other than chocolate
 13110220 Ice cream, soft serve, NS as to flavor
 13130310 Light ice cream, chocolate (formerly ice milk)
 13140700 Light ice cream, creamsicle or dreamsicle (formerly ice milk)
 13140710 Light ice cream, creamsicle or dreamsicle, no sugar added
 13130300 Light ice cream, flavors other than chocolate (formerly ice milk)
 13140900 Light ice cream, fudgesicle (formerly ice milk)
 13130340 Light ice cream, no sugar added, chocolate
 13130330 Light ice cream, no sugar added, flavors other than chocolate
 13130320 Light ice cream, no sugar added, NS as to flavor
 13130100 Light ice cream, NS as to flavor (formerly ice milk)
 13130700 Light ice cream, soft serve, blended with candy or cookies
 13130610 Light ice cream, soft serve, chocolate (formerly ice milk)
 13130600 Light ice cream, soft serve, flavors other than chocolate (formerly ice milk)
 13130590 Light ice cream, soft serve, NS as to flavor (formerly ice milk)
 13150000 Sherbet, all flavors
 63430110 Sorbet, fruit, citrus flavor
 63430100 Sorbet, fruit, noncitrus flavor

Adjusted for a recipe factor of 25 to 84%

[Erythritol] = 2.50 to 8.40%

13170000 Baked Alaska
 13120400 Ice cream bar or stick with fruit
 13120100 Ice cream bar or stick, chocolate covered
 13120140 Ice cream bar or stick, chocolate ice cream, chocolate covered
 13120110 Ice cream bar or stick, chocolate or caramel covered, with nuts
 13120050 Ice cream bar or stick, not chocolate covered or cake covered

13120120	Ice cream bar or stick, rich chocolate ice cream, thick chocolate covering
13120130	Ice cream bar or stick, rich ice cream, chocolate covered, with nuts
13120121	Ice cream bar or stick, rich ice cream, thick chocolate covering
13120300	Ice cream bar, cake covered
13120310	Ice cream bar, stick or nugget, with crunch coating
13120750	Ice cream cone with nuts, chocolate ice cream
13120700	Ice cream cone with nuts, flavors other than chocolate
13120760	Ice cream cone, chocolate covered or dipped, chocolate ice cream
13120720	Ice cream cone, chocolate covered or dipped, flavors other than chocolate
13120780	Ice cream cone, chocolate covered, with nuts, chocolate ice cream
13120710	Ice cream cone, chocolate covered, with nuts, flavors other than chocolate
13120770	Ice cream cone, no topping, chocolate ice cream
13120730	Ice cream cone, no topping, flavors other than chocolate
13120740	Ice cream cone, no topping, NS as to flavor
13120550	Ice cream cookie sandwich
13122100	Ice cream pie, no crust
13122500	Ice cream pie, with cookie crust, fudge topping, and whipped cream
13120500	Ice cream sandwich
13135010	Ice cream sandwich, made with light chocolate ice cream
13135000	Ice cream sandwich, made with light ice cream, flavors other than chocolate
13136000	Ice cream sandwich, made with light, no sugar added ice cream
13120810	Ice cream soda, chocolate
13120800	Ice cream soda, flavors other than chocolate
13120790	Ice cream sundae cone
13121000	Ice cream sundae, NS as to topping, with whipped cream
13140110	Light ice cream, bar or stick, chocolate covered, with nuts (formerly ice milk)
13140100	Light ice cream, bar or stick, chocolate-coated (formerly ice milk)
13161630	Light ice cream, bar or stick, with low-calorie sweetener, chocolate-coated (formerly ice milk)
13140550	Light ice cream, cone, chocolate (formerly ice milk)
13140500	Light ice cream, cone, flavors other than chocolate (formerly ice milk)
13140450	Light ice cream, cone, NFS (formerly ice milk)
13140580	Light ice cream, no sugar added, cone, chocolate
13140575	Light ice cream, no sugar added, cone, flavors other than chocolate
13140570	Light ice cream, no sugar added, cone, NS as to flavor
13130630	Light ice cream, soft serve cone, chocolate (formerly ice milk)
13130620	Light ice cream, soft serve cone, flavors other than chocolate (formerly ice milk)
13130640	Light ice cream, soft serve cone, NS as to flavor (formerly ice milk)
13140660	Light ice cream, sundae, soft serve, chocolate or fudge topping (without whipped cream) (formerly ice milk)
13140600	Light ice cream, sundae, soft serve, chocolate or fudge topping, with whipped cream (formerly ice milk)
13140670	Light ice cream, sundae, soft serve, fruit topping (without whipped cream) (formerly ice milk)
13140630	Light ice cream, sundae, soft serve, fruit topping, with whipped cream (formerly ice milk)

- 13140680 Light ice cream, sundae, soft serve, not fruit or chocolate topping (without whipped cream) (formerly ice milk)
- 13140650 Light ice cream, sundae, soft serve, not fruit or chocolate topping, with whipped cream (formerly ice milk)
- 13142000 Milk dessert bar or stick, frozen, with coconut
- 13161000 Milk dessert bar, frozen, made from lowfat milk
- 13161600 Milk dessert bar, frozen, made from lowfat milk and low calorie sweetener
- 13161500 Milk dessert sandwich bar, frozen, made from lowfat milk
- 13161520 Milk dessert sandwich bar, frozen, with low-calorie sweetener, made from lowfat milk

Fruit-Based Slushies

[Erythritol] = 3.5%

- 91611000 Ice pop
- 91611050 Ice pop filled with ice cream, all flavor varieties
- 91611100 Ice pop, sweetened with low calorie sweetener
- 91601000 Ice, fruit
- 91621000 Snow cone

Fillings (Fruit, Custard, Cream, Pudding)

[Erythritol] = 15%

- 61113500 Lemon pie filling
- 63113030 Cherry pie filling
- 63113050 Cherry pie filling, low calorie
- 63203700 Blueberry pie filling

Adjusted for a recipe factor of 50%

[Erythritol] = 7.50%

- 13210810 Puerto Rican pumpkin pudding (Flan de calabaza)

Puddings (Instant, Phosphate Set)

[Erythritol] = 10%

- 13210250 Pudding, chocolate, low calorie, containing artificial sweetener, NS as to from dry mix or ready-to-eat
- 13210220 Pudding, chocolate, NS as to from dry mix or ready-to-eat
- 13220220 Pudding, chocolate, prepared from dry mix, low calorie, containing artificial sweetener, milk added
- 13220120 Pudding, chocolate, prepared from dry mix, milk added
- 13210290 Pudding, flavors other than chocolate, low calorie, containing artificial sweetener, NS as to from dry mix or ready-to-eat
- 13210280 Pudding, flavors other than chocolate, NS as to from dry mix or ready-to-eat
- 13220210 Pudding, flavors other than chocolate, prepared from dry mix, low calorie, containing artificial sweetener, milk added

- 13220110 Pudding, flavors other than chocolate, prepared from dry mix, milk added
- 13200110 Pudding, NFS
- 13230130 Pudding, ready-to-eat, chocolate
- 13230200 Pudding, ready-to-eat, chocolate and non-chocolate flavors combined
- 13220235 Pudding, ready-to-eat, chocolate, fat free
- 13220230 Pudding, ready-to-eat, chocolate, reduced fat
- 13230110 Pudding, ready-to-eat, flavors other than chocolate
- 13220245 Pudding, ready-to-eat, flavors other than chocolate, fat free
- 13220240 Pudding, ready-to-eat, flavors other than chocolate, reduced fat
- 13230140 Pudding, ready-to-eat, low calorie, containing artificial sweetener, chocolate
- 13230120 Pudding, ready-to-eat, low calorie, containing artificial sweetener, flavors other than chocolate
- 13230500 Pudding, ready-to-eat, tapioca
- 13230510 Pudding, ready-to-eat, tapioca, fat free
- 13210520 Pudding, tapioca, made from dry mix, made with milk
- 13241000 Pudding, with fruit and vanilla wafers

Adjusted for a recipe factor of 53.38 to 55.58%
 [Erythritol] = 5.34 to 5.56%

- 63403000 Fruit salad (excluding citrus fruits) with pudding
- 63402990 Fruit salad (including citrus fruits) with pudding

Hard Candy (Mints, Pressed, Candies, Cough Drops)
 [Erythritol] = 99%

- 91745040 Butterscotch hard candy
- 91770000 Dietetic or low calorie candy, NFS
- 91770020 Dietetic or low calorie hard candy
- 91770050 Dietetic or low calorie mints
- 91745020 Hard candy
- 91718000 Honey-combed hard candy with peanut butter
- 91718050 Honey-combed hard candy with peanut butter, chocolate covered

Jams and Jellies
 [Erythritol] = 15%

- 91402000 Jam, preserves, all flavors
- 91406000 Jams, preserves, marmalades, dietetic, all flavors, sweetened with artificial sweetener
- 91406600 Jams, preserves, marmalades, low sugar (all flavors)
- 91406500 Jams, preserves, marmalades, sweetened with fruit juice concentrates, all flavors
- 91401000 Jelly, all flavors
- 91405000 Jelly, dietetic, all flavors, sweetened with artificial sweetener
- 91405500 Jelly, reduced sugar, all flavors

Adjusted for a recipe factor of 0.6 to 57.0%

[Erythritol] = 0.09 to 8.55%

- 28143200 Chicken in soy-based sauce, rice and vegetables (frozen meal)
- 42203000 Peanut butter and jelly
- 42302010 Peanut butter and jelly sandwich

Dairy drinks (Chocolate and Flavored Milks)

[Erythritol] = 3.5%

- 11513300 Chocolate milk, made from dry mix with fat free milk (skim)
- 11513200 Chocolate milk, made from dry mix with low fat milk (1%)
- 11513150 Chocolate milk, made from dry mix with reduced fat milk (2%)
- 11513100 Chocolate milk, made from dry mix with whole milk
- 11513000 Chocolate milk, made from dry mix, NS as to type of milk
- 11513804 Chocolate milk, made from light syrup with fat free milk (skim)
- 11513803 Chocolate milk, made from light syrup with low fat milk (1%)
- 11513802 Chocolate milk, made from light syrup with reduced fat milk (2%)
- 11513801 Chocolate milk, made from light syrup with whole milk
- 11513800 Chocolate milk, made from light syrup, NS as to type of milk
- 11513370 Chocolate milk, made from reduced sugar mix with fat free milk (skim)
- 11513365 Chocolate milk, made from reduced sugar mix with low fat milk (1%)
- 11513360 Chocolate milk, made from reduced sugar mix with reduced fat milk (2%)
- 11513355 Chocolate milk, made from reduced sugar mix with whole milk
- 11513350 Chocolate milk, made from reduced sugar mix, NS as to type of milk
- 11513854 Chocolate milk, made from sugar free syrup with fat free milk (skim)
- 11513853 Chocolate milk, made from sugar free syrup with low fat milk (1%)
- 11513852 Chocolate milk, made from sugar free syrup with reduced fat milk (2%)
- 11513851 Chocolate milk, made from sugar free syrup with whole milk
- 11513850 Chocolate milk, made from sugar free syrup, NS as to type of milk
- 11513700 Chocolate milk, made from syrup with fat free milk (skim)
- 11513600 Chocolate milk, made from syrup with low fat milk (1%)
- 11513550 Chocolate milk, made from syrup with reduced fat milk (2%)
- 11513500 Chocolate milk, made from syrup with whole milk
- 11513400 Chocolate milk, made from syrup, NS as to type of milk
- 11511000 Chocolate milk, NFS
- 11511300 Chocolate milk, ready to drink, fat free (skim)
- 11511400 Chocolate milk, ready to drink, low fat (1%)
- 11511200 Chocolate milk, ready to drink, reduced fat (2%)
- 11511550 Chocolate milk, ready to drink, reduced sugar, NS as to milk
- 11511100 Chocolate milk, ready to drink, whole
- 11531500 Eggnog, lowfat / light

11531000 Eggnog, regular
 11553130 Fruit smoothie juice drink, with dairy
 11553110 Fruit smoothie, with whole fruit and dairy
 11553120 Fruit smoothie, with whole fruit and dairy, added protein
 11514140 Hot chocolate / Cocoa, made with dry mix and fat free milk (skim)
 11514130 Hot chocolate / Cocoa, made with dry mix and low fat milk (1%)
 11514120 Hot chocolate / Cocoa, made with dry mix and reduced fat milk (2%)
 11514100 Hot chocolate / Cocoa, made with dry mix and water
 11514110 Hot chocolate / Cocoa, made with dry mix and whole milk
 11514350 Hot chocolate / Cocoa, made with no sugar added dry mix and fat free milk (skim)
 11514340 Hot chocolate / Cocoa, made with no sugar added dry mix and low fat milk (1%)
 11514330 Hot chocolate / Cocoa, made with no sugar added dry mix and reduced fat milk (2%)
 11514320 Hot chocolate / Cocoa, made with no sugar added dry mix and whole milk
 11512010 Hot chocolate / Cocoa, ready to drink
 11512020 Hot chocolate / Cocoa, ready to drink, made with nonfat milk
 11512110 Hot chocolate / Cocoa, ready to drink, made with nonfat milk and whipped cream
 11512100 Hot chocolate / Cocoa, ready to drink, with whipped cream
 11551050 Licuado / Batido (milk fruit drink)
 11541400 Milk shake with malt
 11543000 Milk shake, bottled, chocolate
 11543010 Milk shake, bottled, flavors other than chocolate
 11542100 Milk shake, fast food, chocolate
 11542200 Milk shake, fast food, flavors other than chocolate
 11541110 Milk shake, home recipe, chocolate
 11541130 Milk shake, home recipe, chocolate, light
 11541120 Milk shake, home recipe, flavors other than chocolate
 11541135 Milk shake, home recipe, flavors other than chocolate, light
 11526000 Milk, malted, chocolate, made with milk
 11525000 Milk, malted, natural flavor, made with milk
 11513384 Nesquik, chocolate milk, made from dry mix with fat free milk (skim)
 11513383 Nesquik, chocolate milk, made from dry mix with low fat milk (1%)
 11513382 Nesquik, chocolate milk, made from dry mix with reduced fat milk (2%)
 11513381 Nesquik, chocolate milk, made from dry mix with whole milk
 11513380 Nesquik, chocolate milk, made from dry mix, NS as to type of milk
 11513394 Nesquik, chocolate milk, made from no sugar added dry mix with fat free milk (skim)
 11513393 Nesquik, chocolate milk, made from no sugar added dry mix with low fat milk (1%)
 11513392 Nesquik, chocolate milk, made from no sugar added dry mix with reduced fat milk (2%)
 11513391 Nesquik, chocolate milk, made from no sugar added dry mix with whole milk
 11513390 Nesquik, chocolate milk, made from no sugar added dry mix, NS as to type of milk
 11511610 Nesquik, chocolate milk, ready to drink, fat free (skim)
 11511600 Nesquik, chocolate milk, ready to drink, low fat (1%)
 11511700 Nesquik, chocolate milk, ready to drink, low fat (1%), no sugar added
 11519205 Strawberry milk, fat free (skim)

11519200	Strawberry milk, low fat (1%)
11519040	Strawberry milk, NFS
11519105	Strawberry milk, reduced fat (2%)
11519050	Strawberry milk, whole
11560000	Yoo-hoo, chocolate milk drink
11830160	Chocolate beverage powder, dry mix, not reconstituted
11830165	Chocolate beverage powder, reduced sugar, dry mix, not reconstituted
11830150	Cocoa powder, not reconstituted (no dry milk)
11830115	Hot chocolate / Cocoa, dry mix, no sugar added, not reconstituted
11830100	Hot chocolate / Cocoa, dry mix, not reconstituted
11830260	Milk, malted, dry mix, not reconstituted
11830400	Strawberry beverage powder, dry mix, not reconstituted

Yogurt

[Erythritol] = 5%

11446000	Fruit and low fat yogurt parfait
11427000	Yogurt, chocolate, nonfat milk
11425000	Yogurt, chocolate, NS as to type of milk
11426000	Yogurt, chocolate, whole milk
11432000	Yogurt, fruit, low fat milk
11432500	Yogurt, fruit, low fat milk, light
11433000	Yogurt, fruit, nonfat milk
11433500	Yogurt, fruit, nonfat milk, light
11430000	Yogurt, fruit, NS as to type of milk
11431000	Yogurt, fruit, whole milk
11428000	Yogurt, Greek, chocolate, nonfat
11434010	Yogurt, Greek, fruit, low fat
11434020	Yogurt, Greek, fruit, nonfat
11434000	Yogurt, Greek, fruit, whole milk
11411410	Yogurt, Greek, plain, low fat
11411420	Yogurt, Greek, plain, nonfat milk
11411400	Yogurt, Greek, plain, whole milk
11424510	Yogurt, Greek, vanilla, low fat
11424520	Yogurt, Greek, vanilla, nonfat
11424500	Yogurt, Greek, vanilla, whole milk
11410000	Yogurt, NS as to type of milk or flavor
11411200	Yogurt, plain, low fat milk
11411300	Yogurt, plain, nonfat milk
11411010	Yogurt, plain, NS as to type of milk
11411100	Yogurt, plain, whole milk
11422000	Yogurt, vanilla, low fat milk
11422100	Yogurt, vanilla, low fat milk, light

11423000 Yogurt, vanilla, nonfat milk
 11424000 Yogurt, vanilla, nonfat milk, light
 11420000 Yogurt, vanilla, NS as to type of milk
 11421000 Yogurt, vanilla, whole milk
 41420380 Soy yogurt
 67404300 Blueberry yogurt dessert, baby food, strained

Adjusted for a recipe factor of 2.66 to 60.00%

[Erythritol] = 0.13 to 3.00%

27116100 Beef curry
 27146150 Chicken curry
 27150320 Fish curry
 27130100 Lamb or mutton curry
 27120160 Pork curry
 27150100 Shrimp curry
 27243100 Biryani with chicken
 27213010 Biryani with meat
 27516010 Gyro sandwich (pita bread, beef, lamb, onion, condiments), with tomato and spread
 32101530 Egg curry
 58124500 Pastry, filled with potatoes and peas, fried
 75440600 Vegetable curry
 77316600 Eggplant and meat casserole
 83115000 Yogurt dressing
 91701030 Almonds, yogurt-covered
 91731150 Peanuts, yogurt covered
 91739600 Raisins, yogurt covered
 91708160 Yogurt covered fruit snacks candy rolls, with high vitamin C
 91708150 Yogurt covered fruit snacks candy, with added vitamin C

Fruit-Based Smoothies

[Erythritol] = 3.5%

11553100 Fruit smoothie, NFS
 64134030 Fruit smoothie juice drink (no dairy)
 64134200 Fruit smoothie, bottled
 64134100 Fruit smoothie, light
 64134015 Fruit smoothie, with whole fruit (no dairy)
 64134020 Fruit smoothie, with whole fruit (no dairy), added protein
 78101100 Fruit and vegetable smoothie
 78101110 Fruit and vegetable smoothie, added protein
 78101120 Fruit and vegetable smoothie, bottled
 92513000 Fruit flavored smoothie drink, frozen (no dairy)
 92513010 Fruit flavored smoothie drink, frozen, light (no dairy)

Salty Snacks

[Erythritol] = 10%

54440010	Bagel chip
54420200	Multigrain mixture, bread sticks, sesame nuggets, pretzels, rye chips
54420010	Multigrain mixture, pretzels, cereal and/or crackers, nuts
54420100	Oriental party mix, with peanuts, sesame sticks, chili rice crackers and fried green peas
54402700	Pita chips
54403010	Popcorn, air-popped (no butter or no oil added)
54403040	Popcorn, air-popped, buttered
54403050	Popcorn, flavored
54403020	Popcorn, popped in oil, buttered
54403070	Popcorn, popped in oil, lowfat
54403060	Popcorn, popped in oil, lowfat, reduced sodium
54403000	Popcorn, popped in oil, unbuttered
54403090	Popcorn, popped in oil, unsalted
54403110	Popcorn, sugar syrup or caramel-coated
54403150	Popcorn, sugar syrup or caramel-coated, fat free
54403120	Popcorn, sugar syrup or caramel-coated, with nuts
54408100	Pretzel, baby food
54408080	Pretzel, gluten free
54408200	Pretzel, hard, chocolate-coated
54408070	Pretzel, hard, multigrain
54408030	Pretzel, hard, unsalted
54408050	Pretzel, oatbran, hard
54408250	Pretzel, yogurt-covered
54408300	Pretzels, cheese-filled
54408010	Pretzels, hard
54408000	Pretzels, NFS
54408020	Pretzels, soft
54408040	Pretzels, soft, unsalted
54402200	Salty snack mixture, mostly corn or cornmeal based, with pretzels, without nuts
54401210	Salty snacks, corn based puffs and twists, cheese puffs and twists, lowfat
54401020	Salty snacks, corn or cornmeal base, corn chips, corn-cheese chips
54401090	Salty snacks, corn or cornmeal base, corn chips, corn-cheese chips, unsalted
54401050	Salty snacks, corn or cornmeal base, corn puffs and twists; corn-cheese puffs and twists
54401010	Salty snacks, corn or cornmeal base, nuts or nuggets, toasted
54401080	Salty snacks, corn or cornmeal base, tortilla chips
54401120	Salty snacks, corn or cornmeal base, tortilla chips, fat free, made with Olean
54401100	Salty snacks, corn or cornmeal base, tortilla chips, light (baked with less oil)
54401150	Salty snacks, corn or cornmeal base, tortilla chips, lowfat, baked without fat

- 54401170 Salty snacks, corn or cornmeal base, tortilla chips, lowfat, baked without fat, unsalted
- 54402080 Salty snacks, corn or cornmeal base, tortilla chips, unsalted
- 54401200 Salty snacks, corn or cornmeal base, with oat bran, tortilla chips
- 54402610 Salty snacks, multigrain and potato chips (made with rice flour, dried potatoes, corn flour, and wheat starch)
- 54402600 Salty snacks, multigrain, whole grain, chips (made with whole corn, whole wheat, rice flour, and whole oat flour)
- 54402500 Salty snacks, wheat- and corn-based chips
- 54402300 Salty snacks, wheat-based, high fiber
- 54406200 Shrimp chips (tapioca base)
- 54406010 Snacks, onion-flavored rings

Fruit Novelty Snacks (e.g., Fruit Peel, Fruit Candy Bar, Fruit Leathers, Fruit Creams, Fruit Snack Candy, Gummy Fruits)

[Erythritol] = 45%

- 91708030 Fruit leather and fruit snacks candy
- 91708000 Fruit peel, candied
- 91708100 Fruit snacks candy, with high vitamin C
- 91708040 Fun Fruits Creme Supremes
- 91708020 Soft fruit confections

Non-Chocolate Candies

[Erythritol] = 45%

- 91702010 Butterscotch morsels
- 91700010 Candy, NFS
- 91703050 Caramel with nuts and cereal, chocolate covered
- 91703060 Caramel with nuts, chocolate covered
- 91703080 Caramel, all flavors, sugar free
- 91703010 Caramel, chocolate-flavored roll
- 91703020 Caramel, flavor other than chocolate
- 91703030 Caramel, with nuts
- 91706100 Coconut candy, no chocolate covering
- 91706400 Coconut candy, Puerto Rican style
- 91708010 Date candy
- 91770010 Dietetic or low calorie gumdrops
- 91713100 Fudge, brown sugar (penuche)
- 91713090 Fudge, divinity
- 91713050 Fudge, peanut butter
- 91713060 Fudge, peanut butter, with nuts
- 91713070 Fudge, vanilla
- 91713080 Fudge, vanilla, with nuts
- 91745010 Gumdrops

91716010	Halvah, plain
91718300	Ladoo, round ball, Asian-Indian dessert
91721000	Licorice
91723000	Marshmallow
91723020	Marshmallow, candy-coated
91723050	Marshmallow, coconut-coated
91726000	Nougat, plain
91728000	Nut roll, fudge or nougat, caramel and nuts
91703500	Nuts, carob-coated
91733000	Peanut brittle
91734500	Peanut butter morsels
91731100	Peanuts, sugar-coated
91736000	Pineapple candy, Puerto Rican style
91735000	Pralines
91742010	Sesame Crunch (Sahadi)
91746120	Sixlets
91745100	Skittles
91728500	Sugared pecans (sugar and egg white coating)
91750000	Taffy
91708070	Tamarind candy
91760000	Toffee, plain
91760700	Wax candy, liquid filled

Adjusted for a recipe factor of 70 to 77%

[Erythritol] = 31.50 to 34.65%

91703040	Caramel candy, chocolate covered
91706000	Coconut candy, chocolate covered
91709000	Gumdrops, chocolate covered
91716110	Halvah, chocolate covered

Soft Chocolate Candies

[Erythritol] = 45%

91701020	Almonds, sugar-coated
91705300	Chocolate, sweet or dark
91705400	Chocolate, white
91707000	Fondant
91705010	Milk chocolate candy, plain
91732000	Peanut bar
91732100	Planters Peanut Bar
91746010	Sugar-coated chocolate discs

Adjusted for a recipe factor of 10 to 70%
[Erythritol] = 4.50 to 31.50%

91715300	100 GRAND Bar
91726420	3 MUSKETEERS Bar
91726425	3 Musketeers Truffle Crisp Bar
91701010	Almonds, chocolate covered
91715200	Baby Ruth
91718100	Butterfinger
91718110	Butterfinger Crisp
91705090	Chocolate candy with fondant and caramel
91705040	Chocolate, milk, with nuts, not almond or peanuts
91705070	Chocolate, milk, with peanuts
91705200	Chocolate, semi-sweet morsel
91705310	Chocolate, sweet or dark, with almonds
91705410	Chocolate, white, with almonds
91705420	Chocolate, white, with cereal
91770030	Dietetic or low calorie candy, chocolate covered
91746150	Easter egg, candy coated chocolate
91703600	Espresso coffee beans, chocolate-covered
91707010	Fondant, chocolate covered
91715000	Fudge, caramel and nut, chocolate-coated candy
91713030	Fudge, chocolate
91713010	Fudge, chocolate, chocolate-coated
91713020	Fudge, chocolate, chocolate-coated, with nuts
91713040	Fudge, chocolate, with nuts
91705030	Kit Kat
91705430	Kit Kat White
91700500	M&M's Almond Chocolate Candies
91746100	M&M's Milk Chocolate Candies (formerly M&M's Plain Chocolate Candies)
91731060	M&M's Peanut Butter Chocolate Candies
91731010	M&M's Peanut Chocolate Candies
91746200	M&M's Pretzel Chocolate Candies
91726150	MARS Almond Bar (formerly MARS bar)
91723010	Marshmallow, chocolate covered
91705500	Mexican chocolate (tablet)
91705060	Milk chocolate candy, with almonds
91705020	Milk chocolate candy, with cereal
91705050	Milk chocolate candy, with fruit and nuts
91726130	MILKY WAY Bar
91726140	MILKY WAY MIDNIGHT Bar (formerly MILKY WAY DARK Bar)
91726410	Nougat, chocolate covered
91726110	Nougat, with caramel, chocolate covered

91727010	Nuts, chocolate covered, not almonds or peanuts
91733200	Peanut Bar, chocolate covered candy
91734000	Peanut butter, chocolate covered
91731000	Peanuts, chocolate covered
91739010	Raisins, chocolate covered
91734450	Reese's Crispy Crunchy Bar
91734400	Reese's Fast Break
91734100	Reese's Peanut Butter Cup
91734200	Reese's Pieces
91734300	Reese's Sticks
91703070	Rolo
91715100	SNICKERS Bar
91703150	Toblerone, milk chocolate with honey and almond nougat
91760100	Toffee, chocolate covered
91760200	Toffee, chocolate-coated, with nuts
91760500	Truffles
91703200	TWIX Caramel Cookie Bars (formerly TWIX Cookie Bars)
91703250	TWIX Chocolate Fudge Cookie Bars
91703300	TWIX Peanut Butter Cookie Bars
91703400	Whatchamacallit

Sugar Substitutes

[Erythritol] = 100%

91109000	Blue Agave liquid sweetener, sugar substitute
91105010	Fructose sweetener, sugar substitute, dry powder
91107000	Sucralose-based sweetener, sugar substitute
91108010	Sugar substitute, herbal extract sweetener, liquid
91108000	Sugar substitute, herbal extract sweetener, powder
91106000	Sugar substitute, sugar-aspartame blend, dry powder
91200030	Brown sugar substitute, saccharin-based, dry powder
91201010	Sugar substitute, aspartame-based, dry powder
91200000	Sugar substitute, low-calorie, powdered, NFS
91200020	Sugar substitute, saccharin-based, dry powder
91200040	Sugar substitute, saccharin-based, dry powder and tablets
91200110	Sugar substitute, saccharin-based, liquid

Canned Fruit (Syrup)

Adjusted for a recipe factor of 36%

[Erythritol] = 5.40%

61104230	Grapefruit and orange sections, cooked, canned, or frozen, in light syrup
61104200	Grapefruit and orange sections, cooked, canned, or frozen, NS as to added sweetener

61104220 Grapefruit and orange sections, cooked, canned, or frozen, unsweetened, water pack
 61101230 Grapefruit, canned or frozen, in light syrup
 61101200 Grapefruit, canned or frozen, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 61101220 Grapefruit, canned or frozen, unsweetened, water pack
 61110230 Kumquat, cooked or canned, in syrup
 61122350 Orange, mandarin, canned or frozen, drained
 61122330 Orange, mandarin, canned or frozen, in light syrup
 61122320 Orange, mandarin, canned or frozen, juice pack
 61122300 Orange, mandarin, canned or frozen, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 61119020 Orange, sections, canned, juice pack
 63103150 Apricot, cooked or canned, drained solids
 63103130 Apricot, cooked or canned, in heavy syrup
 63103140 Apricot, cooked or canned, in light syrup
 63103170 Apricot, cooked or canned, juice pack
 63103110 Apricot, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63103120 Apricot, cooked or canned, unsweetened, water pack
 63115150 Cherries, sweet, cooked or canned, drained solids
 63115130 Cherries, sweet, cooked or canned, in heavy syrup
 63115140 Cherries, sweet, cooked or canned, in light syrup
 63115170 Cherries, sweet, cooked or canned, juice pack
 63115110 Cherries, sweet, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63115120 Cherries, sweet, cooked, unsweetened, water pack
 63119130 Fig, cooked or canned, in heavy syrup
 63119110 Fig, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63119120 Fig, cooked or canned, unsweetened, water pack
 63119140 Figs, cooked or canned, in light syrup
 63123130 Grapes, seedless, cooked or canned, in heavy syrup
 63123110 Grapes, seedless, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63123120 Grapes, seedless, cooked or canned, unsweetened, water pack
 63125100 Guava shell (assume canned in heavy syrup)
 63126600 Lychee, cooked or canned, in sugar or syrup
 63135150 Peach, cooked or canned, drained solids
 63135130 Peach, cooked or canned, in heavy syrup
 63135140 Peach, cooked or canned, in light or medium syrup
 63135170 Peach, cooked or canned, juice pack
 63135110 Peach, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63135120 Peach, cooked or canned, unsweetened, water pack

63137150 Pear, cooked or canned, drained solids
 63137130 Pear, cooked or canned, in heavy syrup
 63137140 Pear, cooked or canned, in light syrup
 63137170 Pear, cooked or canned, juice pack
 63137110 Pear, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63137120 Pear, cooked or canned, unsweetened, water pack
 63141150 Pineapple, cooked or canned, drained solids
 63141130 Pineapple, cooked or canned, in heavy syrup
 63141140 Pineapple, cooked or canned, in light syrup
 63141170 Pineapple, cooked or canned, juice pack
 63141110 Pineapple, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63143150 Plum, cooked or canned, drained solids
 63143130 Plum, cooked or canned, in heavy syrup
 63143140 Plum, cooked or canned, in light syrup
 63143170 Plum, cooked or canned, juice pack
 63143110 Plum, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63143120 Plum, cooked or canned, unsweetened, water pack
 63147150 Rhubarb, cooked or canned, drained solids
 63147130 Rhubarb, cooked or canned, in heavy syrup
 63147140 Rhubarb, cooked or canned, in light syrup
 63147110 Rhubarb, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63147120 Rhubarb, cooked or canned, unsweetened
 63201130 Blackberries, cooked or canned, in heavy syrup
 63201110 Blackberries, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63203130 Blueberries, cooked or canned, in heavy syrup
 63203125 Blueberries, cooked or canned, in light syrup
 63203110 Blueberries, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63203120 Blueberries, cooked or canned, unsweetened, water pack
 63207110 Cranberries, cooked or canned
 63207000 Cranberries, NS as to raw, cooked, or canned
 63219130 Raspberries, cooked or canned, in heavy syrup
 63219110 Raspberries, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63219120 Raspberries, cooked or canned, unsweetened, water pack
 63223130 Strawberries, cooked or canned, in syrup
 63223110 Strawberries, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
 63223120 Strawberries, cooked or canned, unsweetened, water pack

- 63311150 Fruit cocktail, cooked or canned, drained solids
- 63311130 Fruit cocktail, cooked or canned, in heavy syrup
- 63311140 Fruit cocktail, cooked or canned, in light syrup
- 63311170 Fruit cocktail, cooked or canned, juice pack
- 63311110 Fruit cocktail, cooked or canned, NS as to sweetened or unsweetened; sweetened, NS as to type of sweetener
- 63311120 Fruit cocktail, cooked or canned, unsweetened, water pack
- 63311145 Tropical fruit cocktail, cooked or canned, in light syrup

Regular or Low-Calorie Syrups or Toppings

[Erythritol] = 15%

- 91301081 Chocolate syrup, thin type, light
- 91301082 Chocolate syrup, thin type, sugar free
- 91300100 Pancake syrup, NFS
- 91351010 Syrup, dietetic
- 91300010 Syrup, NFS
- 91301510 Syrup, pancake, reduced calorie
- 91351020 Topping, dietetic
- 91304080 Topping, fruit, unsweetened

Report of the Expert Panel

OPINION OF AN EXPERT PANEL ON THE SAFETY AND GENERALLY RECOGNIZED AS SAFE (GRAS) STATUS OF ERYTHRITOL FOR USE IN FOOD

Introduction

An independent panel of experts (Expert Panel), qualified by scientific training and experience to evaluate the safety of food and food ingredients, was requested by Cargill, Incorporated (Cargill) to determine the safety and Generally Recognized as Safe (GRAS) status of the use of erythritol for use in food for human consumption. Erythritol is intended for use as a flavor enhancer, formulation aid, humectant, nutritive sweetener, stabilizer and thickener, sequestrant, or texturizer in foods. The erythritol ingredient is manufactured in accordance with current Good Manufacturing Practice (cGMP) and meets the proposed specifications.

A detailed review based on the existing scientific literature (through October 2017) on the safety of erythritol was conducted by ToxStrategies, Inc. (ToxStrategies) and is summarized in the attached dossier. The Expert Panel members reviewed the dossier prepared by ToxStrategies and other pertinent information and convened on February 27 and May 7, 2018 via teleconference. Based on an independent, critical evaluation of all of the available information and discussions during the February 27 and May 7, 2018 teleconferences, the Expert Panel unanimously concluded that the intended uses described herein for Cargill's erythritol ingredient, meeting appropriate food-grade specifications as described in the supporting dossier (**GRAS Determination of Erythritol for Use in Human Food**) and manufactured according to cGMP, are safe, suitable, and GRAS based on scientific procedures. A summary of the basis for the Expert Panel's conclusion is provided below.

Summary and Basis for GRAS Determination

Description

Erythritol is produced as odorless, white crystals from the fermentation broth of the yeast, *Moniliella pollinis*. The end product typically consists of more than 99.5% erythritol and is heat stable as well as nonhygroscopic. Erythritol is a naturally occurring four-carbon sugar alcohol. It is commonly found in fruits such as watermelons, pears, and grapes. Additionally, it is found in wine, sake, beer, mushrooms, and soy sauce (Shindou et al., 1989; Dubernet et al., 1974). It has also been detected in the tissues and body fluids of humans and animals (Goossens and Röper, 1994).

Manufacturing Process

Erythritol is manufactured through a multi-step process that starts with the fermentation of a pure culture of a non-toxicogenic, non-pathogenic microorganism—*Moniliella pollinis*—that feeds on a carbohydrate-based medium and ends with the purification of

erythritol from the fermentation broth. The erythritol in the fermentation broth is isolated from the organism and is then exposed to a purification treatment similar to that for other carbohydrate sweeteners and sugar alcohols (e.g., ion-exchange resin, activated charcoal, ultrafiltration, and crystallization). The final purified product contains at least 99.5% erythritol.

Analytical (physical, chemical and microbiological) results for the erythritol product confirm that the finished product meets the proposed specifications as demonstrated by the consistency of production, the lack of impurities and contaminants (e.g., heavy metals-lead, arsenic; microbiological contaminants-yeast, mold, coliforms). Further, the data provided from the analyses of three non-consecutive lots consistently demonstrates that the specifications established for Cargill's erythritol product meet or exceed the published FCC specifications.

The erythritol product should be stored in a clean, dry, and odor-free area at ambient temperature and humidity. The recommended best when used by date for erythritol standard granular under these conditions and in original unopened packaging is 3 years from the date of manufacture. For product in super sacks, the recommended best when used by date is 2 years from the date of manufacture.

History of Use

Erythritol is considered GRAS for use as a flavor enhancer, formulation aid, humectant, non-nutritive sweetener, stabilizer and thickener, sequestrant and texturizer in a variety of foods and beverages. It has had widespread use in the U.S. for more than a decade, without any reported adverse health effects in children and adults at dietary intakes resulting from its intended uses and use levels. It has been used in the following human foods: bakery fillings, cakes and cookies, chewing gum, dairy drinks, fat-based cream used in modified fat/calorie cookies, pastries, hard candies, frozen dairy desserts, puddings, reduced and low-calorie beverages, soft candies, sugar substitutes, yogurt, and others.

GRAS notifications for erythritol from several manufacturers and fatty acid esters of erythritol (listed below) have received "no questions" letters from the Food and Drug Administration (FDA).

GRN No.	Erythritol Product	Date of Closure
401	Erythritol	03/22/12
382	Erythritol	11/21/11
297	Erythritol fatty acid esters	12/15/09
208	Erythritol	01/25/07
76	Erythritol	09/11/01

Erythritol is considered GRAS for use as a flavor enhancer, formulation aid, humectant, non-nutritive sweetener, stabilizer and thickener, sequestrant and texturizer in a variety of foods. It has been used in the following human foods: bakery fillings, cakes and cookies, chewing gum, dairy drinks, fat-based cream used in modified fat/calorie cookies, pastries, hard candies, frozen dairy desserts, puddings, reduced and low-calorie beverages, soft candies, sugar substitutes, yogurt, and others.

In addition, erythritol is listed in 21 CFR § 101.80 as a noncariogenic carbohydrate sweetener with permitted health claims related to dietary carbohydrates and the occurrence of dental caries.

Globally, erythritol has achieved regulatory acceptance in multiple countries, including the European Union, Canada, Mexico, and Brazil. It is approved for use in Europe under E968, and the Joint FAO/WHO Expert Committee on Food Additives (JECFA) reviewed it in 1999 and assigned an acceptable daily intake (ADI) of “not specified” (JECFA, 2000). In Canada, it was approved for use as a food additive in November 2004. In Mexico, it is authorized for use at GMP levels. Brazil received approval effective in March 2008; it is included in the National Agency of Sanitary Surveillance (ANVISA) Sweeteners list. Erythritol is listed in Table 3 of the CODEX General Standard for Food Additives (CODEX, 2001), as a flavor enhancer, humectant and sweetener, and can be used in all categories of foods at GMP levels.

Intended Use and Intake Assessment

Erythritol is proposed for use in the United States (U.S.) in a number of additional foods and beverages, as well as some revised use levels that reflect current intended uses. The estimated daily intake (EDI) per user of all intended uses of erythritol was previously calculated by FDA to be 13 g/day at the mean and 30 g/day at the 90th percentile (US FDA 2001). The estimates in this dossier for the intake of erythritol were determined based on all existing and proposed additional food-uses and use-levels for erythritol in conjunction with food consumption data included in the U.S. National Center for Health Statistics’ (NCHS) National Health and Nutrition Examination Surveys (NHANES) 2013-2014. Calculations for the mean and 90th percentile all-person and all-user intakes were performed for each of the individual proposed food-uses of erythritol and the percentage of consumers was determined. Similar calculations were used to estimate the total intake of erythritol resulting from all proposed food-uses of erythritol combined. In both cases, the per person and per kilogram body weight intakes were reported for the following population groups:

- Infants and young children, up to and including 3 years;
- Children, ages 4 to 11;
- Female teenagers, ages 12 to 19;
- Male teenagers, ages 12 to 19;
- Female adults, ages 20 and up;
- Male adults, ages 20 and up; and
- Total population (all age and gender groups combined).

The individual proposed food-uses and use-levels for erythritol employed in the current intake analysis are summarized in the following table. Food codes representative of each proposed food-use were chosen from the NHANES 2013-2014. Food codes were grouped in food-use categories according to Title 21, Section §170.3 of the Code of Federal Regulations. Product-specific adjustment factors were developed based on data provided in the food and nutrient database for dietary studies (FNDDS) (USDA ARS, 2016) or the Food Commodity Intake Database (FCID) (U.S. EPA, 2018). All food codes included in the current intake assessment (Intertek, 2018) are listed in the Intake Assessment report in Exhibit I.

Summary of the Individual Proposed Food-Uses and Use-Levels for Erythritol in the U.S. (2013-2014 NHANES Data)

Food Category (21 CFR 170.3) (CFR, 2017)	Food-Uses	Erythritol Use- Levels (%)
Baked Goods and Baking Mixes	Baked Goods and Baking Mixes (excluding regular bread)*	15
	Bars (Granola, High Protein)*	15
	Cakes	25
	Cookies	15
Beverages, Alcoholic	Alcoholic Beverages (Lite Beer, Coolers)*	3.5
Beverages and Beverage Bases	Flavored Quenchers*	3.5
	Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages (Excluding Soy-Based Drinks)	3.5
Breakfast Cereals	Hot Cereal – Oatmeal (Instant or Cooked)	3
	Ready-to-Eat Cereals**	30
Chewing Gum	Chewing Gum	75
Condiments and Relishes	BBQ Sauce*	15
	Tomato Sauce*	15
Dairy Product Analogs	Imitation Dairy Drinks (Soy, Almond, Cashew, Coconut, and Other Plant-Based Drinks)	6
	Non-Dairy Toppings*	10
Fats and Oils	Low Calorie Salad Dressings*	15
Frozen Dairy Desserts and Mixes	Frozen Desserts (Regular Ice Cream, Soft Serve, Sorbet, Frozen Yogurt)	10
Fruit and Water Ices	Fruit-Based Slushies	3.5
Gelatins, Puddings, and Filings	Fillings (Fruit, Custard, Cream, Pudding)	15
	Puddings (Instant, Phosphate Set)	10
Hard Candy	Hard Candy (Mints, Pressed, Candies, Cough Drops)	99
Jams and Jellies	Jams and Jellies*	15
Milk Products	Dairy drinks (Chocolate and Flavored Milks)	3.5
	Fat-Based Cream Used in Modified-Fat or Low-Calorie Cookies, Cakes and Pastries	60
	Yogurt	5

Processed Fruits and Fruit Juices	Fruit-Based Smoothies*	3.5
Snack Foods	Salty Snacks*	10
Soft Candy	Fruit Novelty Snacks (e.g., Fruit Peel, Fruit Candy Bar, Fruit Leathers, Fruit Creams, Fruit Snack Candy, Gummy Fruits)	45
	Non-Chocolate Candies	45
	Soft Chocolate Candies	45
Sugar Substitutes	Sugar Substitutes	100
Sweet Sauces, Toppings, and Syrups	Canned Fruit (Syrup)*	15
	Regular or Low-Calorie Syrups or Toppings*	15

CFR = Code of Federal Regulations; U.S. = United States.

*New use not covered in 2001 GRN No. 76 (Cerestar).

**The attached intake assessment was conducted with all cereal food codes at a 30% use level and results in a significant overestimate of erythritol intake from cereals. A use level at or approaching 30% (by weight) would only be incorporated in light weight puffed cereals as a replacement for sugar. Heavy weight (i.e., denser) cereals would likely employ a much lower use level (usually 10% or less, if used at all). It should be noted that many cereals would not incorporate erythritol for sweetening purposes at all, but rather use ingredients such as fruit and nuts for sweetness/flavor purposes. Furthermore, Tables B-1 and B-2 of the Intertek (2018) intake assessment report (Exhibit 1) show mean and 90th percentile intakes for consumption of all cereals at a 30% use level, not just puffed cereals, that are near or below the NOEL (0.71 mg/kg bw) associated with GI intolerance (Jacqz-Aigrain et al., 2015).

Estimates for the total daily intakes of erythritol from proposed food-uses are provided in the following two tables. The first summarizes the estimated total intake of erythritol on an absolute basis (g/person/day) from all proposed food-uses in the U.S. population group. The second presents this data on a per kilogram body weight basis (mg/kg body weight/day). The percentage of users was high among all age groups evaluated in the current intake assessment; greater than 79.8% of the population groups consisted of users of those food products in which erythritol is currently proposed for use. Children had the greatest percentage of users at 99.9%. Large user percentages within a population group typically lead to similar results for the all-person and all-user consumption estimates. Among the total population, the mean and 90th percentile all-user intakes of erythritol were determined to be 32.1 and 63.0 g/person/day, respectively. Of the individual population groups, male adults were determined to have the greatest mean and 90th percentile all-user intakes of erythritol on an absolute basis, at 35.6 and 69.6 g/person/day, respectively, while infants and young children had the lowest mean and 90th percentile all-user intakes of 20.6 and 41.3 g/person/day, respectively.

Summary of the Estimated Daily Intake of Erythritol from Proposed Food-Uses in the U.S. by Population Group (2013-2014 NHANES Data)

Population Group	Age Group (Years)	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Infants and Young Children	0 to <4	16.5	36.5	79.8	568	20.6	41.3
Children	4 to 11	34.2	58.1	99.9	1,155	34.2	58.1
Female Teenagers	12 to 19	28.1	52.3	99.0	571	28.3	53.3
Male Teenagers	12 to 19	33.7	62.1	97.1	552	34.7	62.9

Population Group	Age Group (Years)	Per Capita Intake (g/day)		Consumer-Only Intake (g/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Female Adults	20 and up	29.2	59.1	98.3	2,337	29.7	59.8
Male Adults	20 and up	34.6	69.1	97.2	2,035	35.6	69.6
Total Population	All ages	31.1	62.1	97.0	7,218	32.1	63.0

n = sample size; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

On a body weight basis, the total population (all ages) mean and 90th percentile consumer-only intakes of erythritol were determined to be 551 and 1,179 mg/kg body weight/day, respectively. Among the individual population groups, infants and young children were identified as having the highest mean and 90th percentile all-user intakes of any population group, of 1,512 and 2,816 mg/kg body weight/day, respectively. Female adults had the lowest mean and 90th percentile all-user intakes of 405 mg/kg body weight/day, whereas male adults had the lowest 90th percentile consumer-only intakes of 815 mg/kg body weight/day.

Summary of the Estimated Daily Per Kilogram Body Weight Intake of Erythritol from Proposed Food-Uses in the U.S. by Population Group (2013-2014 NHANES Data)

Population Group	Age Group (Years)	Per Capita Intake (mg/kg bw/day)		Consumer-Only Intake (mg/kg bw/day)			
		Mean	90 th Percentile	%	n	Mean	90 th Percentile
Infants and Young Children	0 to <4	1,206	2,681	79.7	563	1,512	2,816
Children	4 to 11	1,209	2,256	99.9	1,149	1,210	2,256
Female Teenagers	12 to 19	457	971	99.3	564	460	971
Male Teenagers	12 to 19	514	1,013	97.1	550	529	1,013
Female Adults	20 and up	398	815	98.3	2,323	405	817
Male Adults	20 and up	403	805	97.2	2,026	415	815
Total Population	All ages	535	1,159	97.0	7,175	551	1,179

bw = body weight; n = sample size; NHANES = National Health and Nutrition Examination Survey; U.S. = United States.

In summary, consumption data and information pertaining to the individual proposed food-uses of erythritol were used to estimate the all-person and all-user intakes of erythritol for specific demographic groups and for the total U.S. population. This type of intake methodology is generally considered to be ‘worst case’ as a result of several conservative assumptions made in the consumption estimates. For example, it is often assumed that all food products within a food category contain the ingredient at the maximum specified level of use. Furthermore, it is often assumed that all food products within a food category contain the ingredient at the maximum specified level of use; however, a significant number of other polyols are available on the market for manufacturers to use in formulating food products, so it is unlikely that erythritol would be used at the maximum use-level in every food use category.

In addition, it is well established that the length of a dietary survey affects the estimated consumption of individual users. Short-term surveys, such as the typical 2- or 3-day dietary surveys, may overestimate the consumption of food products that are consumed relatively infrequently (Anderson, 1988). Survey duration has been shown to affect the estimated percent of consumers, as well as the classification of individuals as high or low consumers of a given food (Lambe and Kearney, 1999; Lambe et al., 2000). As reviewed by Lambe and colleagues (1999, 2000), shorter surveys are associated with misclassification of individuals, inaccurate correlation coefficients, reduced power, and overestimation of percentage of high and low intakes. These effects of survey duration are thought to be due to the within-person and day-to-day variation for a given self-selected diet. The percentage of respondents who consume a food increases as the survey duration increases; the longer duration begins to incorporate days with no consumption, thus decreasing the mean intakes among consumers over time. The impact of the length of dietary surveys on the user consumption of different types of food products has been investigated in a multi-country study conducted by the Institute of European Food Studies (1998). In general, user mean consumption was found to decrease over the length of the study, depending on the food type, and overall the average decrease in the mean or 90th percentile consumption was found to be 1.9- to 2-fold.

In summary, on an all-user basis, the mean and 90th percentile intakes of erythritol by the total population from all proposed food-uses in the U.S. were estimated to be 32.1 g/person/day (551 mg/kg body weight/day) and 63.0 g/person/day (1,179 mg/kg body weight/day), respectively. Of the individual population groups, the highest mean and 90th percentile intakes of erythritol, as observed in male adults, were estimated to be 35.6 g/person/day (415 mg/kg body weight/day) and 69.6 g/person/day (815 mg/kg body weight/day), respectively. Applying the above model, one can justify adjusting the calculated intake estimates for erythritol should be adjusted downwards by a factor of approximately 2. Taking this into account, actual intakes for the user population mean and 90th percentile levels are likely in the range of 16.1 g/day (275.5 mg/kg body weight/day) and 31.5 g/day (589.5 mg/kg body weight/day), respectively. Similarly, actual intake in the highest exposure group, infants and young children, would not likely exceed 1,408 mg/kg body weight/day. These estimates are similar to the EDI per user of all intended uses of erythritol previously calculated by FDA to be 13 g/day at the mean and 30 g/day at the 90th percentile (US FDA 2001).

Safety Data

Erythritol is a naturally-occurring compound found in a variety of foods and beverages including melons, pears, grapes, soy sauce, wine, miso paste, and sake. It also exists endogenously in tissues and body fluids of human and animals (Niwa et al., 1993; Goosens and Roper, 1994). Erythritol is recognized by the FDA as GRAS and has had widespread use in beverages and foods in the U.S. for more than a decade without any reported adverse health effects in children and adults. Several GRAS notification have received "no questions" letters from the FDA. Globally, erythritol has achieved regulatory acceptance in multiple countries, including the European Union, Canada,

Mexico, and Brazil. Erythritol is considered GRAS for use as a flavor enhancer, formulation aid, humectant, nutritive sweetener, stabilizer and thickener, sequestrant and texturizer in a variety of foods. It has been used in the following human foods: bakery fillings, cakes and cookies, chewing gum, dairy drinks, fat-based cream used in modified fat/calorie cookies, pastries, hard candies, frozen dairy desserts, puddings, reduced and low-calorie beverages, soft candies, sugar substitutes, yogurt, and others.

A recent exposure assessment resulted in estimated mean and 90th percentile intakes of erythritol (on an all-user basis) for the total population from all proposed food-uses in the U.S. of 32.1 g/person/day (551 mg/kg body weight/day) and 63.0 g/person/day (1,179 mg/kg body weight/day), respectively. The intake methodology employed is generally considered to be 'worst case' as a result of several conservative assumptions made in the consumption estimates. For example, it is often assumed that all food products within a food category contain the ingredient at the maximum specified level of use. Furthermore, it is often assumed that all food products within a food category contain the ingredient at the maximum specified level of use; however, a significant number of other polyols are available to manufacturers for use in formulating food products, so it is unlikely that erythritol would be used at the maximum use-level in every food use category. In addition, it is well established that the length of a dietary survey affects the estimated consumption of individual users. Short-term surveys, such as the typical 2- or 3-day dietary surveys, may overestimate the consumption of food products that are consumed relatively infrequently. Survey duration has been shown to affect the estimated percent of consumers, as well as the classification of individuals as high or low consumers of a given food. Shorter surveys are associated with misclassification of individuals, inaccurate correlation coefficients, reduced power, and overestimation of percentage of high and low intakes. The impact of the length of dietary surveys on the user consumption of different types of food products has been investigated and in general, user mean consumption was found to decrease over the length of the study, depending on the food type, and overall the average decrease in the mean or 90th percentile consumption was found to be 1.9- to 2-fold. Applying the above model, actual intakes for the user population mean and 90th percentile levels are likely in the range of 16.1 g/day (275.5 mg/kg body weight/day) and 31.5 g/day (589.5 mg/kg body weight/day), respectively. These estimates are similar to the EDI per user for all intended uses of erythritol previously calculated by FDA to be 13 g/day at the mean and 30 g/day at the 90th percentile (US FDA, 2001). For most food uses, intake of this much erythritol would be unlikely and studies show that intakes at this level (i.e., 30 g/day) spread over the entire day are unlikely to cause GI intolerance.

Regulatory authorities have reviewed the safety of erythritol and found it to be safe for use in human food. Numerous studies and publications support the safety of erythritol, including *in vitro* studies, *in vivo* animal studies, and clinical studies in humans. A summary of the most relevant studies on erythritol ADME, acute and subchronic toxicity, reproductive and developmental toxicity, mutagenicity and genotoxicity, chronic toxicity, carcinogenicity in animals along with clinical studies have been summarized and reviewed. The available published scientific data on the safety of erythritol in animals and man are extensive.

Although under the proposed uses of erythritol, male and female adults are estimated to consume up to 815 and 817 mg/kg body weight/day, respectively (90th percentile), and infants and young children are estimated to consume 2,816 mg/kg body weight/day (90th percentile), consideration must be given to the fact that these values were calculated based on daily consumption over multiple eating occasions, not single bolus doses. It is highly unlikely that the NOEL for laxation would be reached in a single eating occasion. For example, a 16 oz. (473mL) beverage in the U.S. containing erythritol at the maximum use-level of 3.5% for “Reduced- and Low-Calorie Carbonated and Non-Carbonated Beverages” would provide 16.5 g of erythritol per serving. In children, bolus doses containing a minimum of 20 g of erythritol have been shown to cause laxation (Jacqz-Aigrain et al., 2015) and EFSA recognized 0.71 g/kg bw (710 mg/kg bw) as a NOEL in children consuming a bolus dose; therefore, a child would need to consume 720 mL of a 3.5% erythritol sweetened beverage in a single serving to reach levels of intake that would induce laxation. This level of beverage consumption is an extremely unlikely scenario, as the volume of liquid that would be consumed in one sitting would equate to approximately 75% of the mean daily fluid intake for a child.

This is further supported by the intake assessment conducted based on the U.S. NHANES (2013-2014) dataset. Children up to 3 years of age had estimated intake mean and 90th percentile intakes of 4.1 and 8.4 g/day, respectively, from Reduced and Low-Calorie Carbonated and Non-Carbonated Beverages or 292 mg/kg bw/day and 669 mg/kg bw/day for the mean and 90th percentile users. In children 4-11 years of age, the mean and 90th percentile intake was 5.4 g/day and 8.7 g/day, respectively, or 171 mg/kg bw/day and 310 mg/kg bw/day. These are intakes below those that would be expected to cause GI Effects (Intertek, 2018). Therefore, on the basis that erythritol has had widespread use in beverages and foods in the U.S. for over a decade without any reported laxative effects in both children and adults, it is considered unlikely that such effects would manifest themselves at the similar intake levels that were estimated for the proposed uses of Cargill (Tetzloff et al., 1996).

The compositional profile of erythritol presents no obvious safety concerns. As a result, erythritol has been reviewed and approved around the world for addition to food for human consumption. In summary, the published study data, additional unpublished supporting data, and previous reviews by regulatory authorities including the U.S. FDA (e.g., GRN Nos. 76, 208, 382, 401), support the conclusion that Cargill’s erythritol ingredient is safe for use as a sweetener, at the proposed use levels foods.

General Recognition of the Safety of Erythritol

The intended use of erythritol has been determined to be safe through scientific procedures as set forth in 21 CFR§170.3(b), thus satisfying the so-called “technical” element of the GRAS determination and is based on the following:

- The erythritol product that is the subject of this GRAS determination is a polyol or sugar alcohol and is found in foods and beverages such as melons, pears, grapes,

soy sauce, wine, miso paste, and sake. It also exists endogenously in tissues and body fluids of human and animals.

- The erythritol manufacturing process includes fermentation and purification steps, and these steps in processing have been reviewed and employed for over a decade. Erythritol is manufactured consistent with cGMP for food (21 CFR Part 110). The raw materials and processing aids used in the manufacturing process are food grade and/or commonly used in food manufacturing processes.
- There is common knowledge of a long history of human consumption of erythritol. Erythritol is currently marketed for use in reduced sugar/calorie foods such as confectionary, bakery products, and beverages. Numerous erythritol ingredients are recognized as GRAS for their intended uses in foods (e.g., GRN Nos. 76, 208, 382, 401), and the erythritol ingredients have received “no questions” letters from the FDA.
- Accounting for the conservative assumptions in the current intake assessment (i.e., short survey duration, maximum use level applied to all foods, all identified foods contain only erythritol as sweetener, individuals consume all identified foods every day), actual intake estimates are similar to the EDI per user of all intended uses of erythritol previously calculated by FDA to be 13 g/day at the mean and 30 g/day at the 90th percentile (US FDA 2001). For most food uses, intake of this much erythritol would be unlikely and studies show that intakes at this level (i.e., 30 g/day) spread over the entire day are unlikely to cause GI intolerance.
- Numerous studies and publications support the safety of erythritol, including *in vitro* studies, *in vivo* animal studies, and clinical studies in humans. The relevant studies covered all toxicological endpoints relevant to human oral consumption and included ADME, acute and subchronic toxicity, reproductive and developmental toxicity, mutagenicity and genotoxicity, chronic toxicity, and carcinogenicity in animals and/or humans.
- Erythritol is rapidly absorbed such that large bolus doses are more likely to have an impact on laxation than smaller cumulative doses. As such, clinical studies have demonstrated that the tolerability of erythritol is highly dependent on the mode and timeline of ingestion. Individual tolerance develops with continued ingestion over time. Mild GI intolerance is considered to be a physiological response to osmotic loading and to be of no toxicological significance, is generally self-limiting, and not severe or indicative of toxicity per se but is a short-term individual tolerability issue similar to other foods (dried fruit) or food ingredients (fructose) or fructooligosaccharides such as inulin.
- Regulatory authorities (e.g., EFSA, FDA) have reviewed studies on the composition and safety of erythritol and found no issues of concern associated with their current use levels in a wide range of human foods.

- Therefore, the publicly available scientific literature on the safety of erythritol in animal and human studies, as well its history of consumption in human food, is extensive and sufficient to support the safety and GRAS status of the proposed uses in human food.

Since this safety evaluation was based on generally available and widely accepted data and information, it also satisfies the so-called “common knowledge” element of a GRAS determination.

Conclusions of the Expert Panel

We, the undersigned members of the Expert Panel, have individually and collectively critically reviewed the published and ancillary information pertinent to the identification, use, and safety of Cargill's erythritol product. We conclude that the erythritol ingredient produced under the conditions described in the attached dossier and meeting the proposed specifications is safe.

We further unanimously conclude that the intended uses of the erythritol product in specified foods for human consumption, meeting the specifications described above, are Generally Recognized as Safe (GRAS) based on scientific procedures and that other experts qualified to assess the safety of foods and food additives, and critically evaluating the same information, would concur with these conclusions.

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(b) (6)

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Bonnette, Richard

From: Don Schmitt <dschmitt@toxstrategies.com>
Sent: Friday, June 22, 2018 8:26 AM
To: Bonnette, Richard
Subject: Re: GRAS submission regarding Erythritol - confidential statement

Good morning Richard. The confidential statement on page 58 is indeed an oversight on our part. I am sorry for the inconvenience. The material is not exempt from disclosure under FOIA.

Best regards,

Don

Donald F. Schmitt, M.P.H.
Senior Managing Scientist

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From: "Bonnette, Richard" <Richard.Bonnette@fda.hhs.gov>
Date: Friday, June 22, 2018 at 7:05 AM
To: "Donald Schmitt, MPH" <dschmitt@toxstrategies.com>
Subject: GRAS submission regarding Erythritol - confidential statement

Dear Mr. Schmitt,

In reviewing your recent erythritol submission (received June 7, 2018) on behalf of Cargill Inc., as part of our prefilling review, I have a quick question regarding this submission. We note that a "Confidential" statement appears on page 58. Can you confirm that this is an oversight and that the material is indeed not exempt from disclosure under FOIA?

Thanks,
Richard

Richard E. Bonnette, M.S.
Center for Food Safety and Applied Nutrition
Office of Food Additive Safety
U.S. Food and Drug Administration
Tel: 240-402-1235
richard.bonnette@fda.hhs.gov



From: [Don Schmitt](#)
To: [McMahon, Carrie](#)
Cc: [Alex Eapen](#)
Subject: Re: REGARDING: GRAS notice for erythritol (GRN 789) - food codes and FSIS statement
Date: Wednesday, September 05, 2018 5:10:13 PM
Attachments: [image002.png](#)

Dear Carrie,

Based on our conversation of September 4, 2018, Cargill wishes to revise Item 11 of Part 1 in GRN 789 as follows:

Current:

(11) FSIS Statement

Not applicable.

Revised:

(11) FSIS Statement

While erythritol is intended to be used in sauces and toppings that will be used in pour over applications on meat products, the sauces and toppings will not be used within, or as part of the actual meat product. Therefore, the intended uses of erythritol in sauces/toppings do not fall under USDA/FSIS jurisdiction. Furthermore, the intended use of erythritol in sauces and toppings is amenable with USDA's definition of sauce.

Best regards,

Don

Donald F. Schmitt, M.P.H.
Senior Managing Scientist

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From: "McMahon, Carrie" <Carrie.McMahon@fda.hhs.gov>

Date: Tuesday, September 4, 2018 at 10:37 AM

To: "Donald Schmitt, MPH" <dschmitt@toxstrategies.com>

Subject: RE: REGARDING: GRAS notice for erythritol (GRN 789) - food codes and FSIS statement

Dear Mr. Schmitt,

REGARDING: GRN 789

On page 14 of its GRAS notice, Cargill states that erythritol is intended to be used in sauces and toppings that will be used on meat products but not within or as part of the actual meat product. To be sure that we understand the scope of the intended use of erythritol, we request that Cargill clarify its FSIS Statement "Not Applicable" under Item 11 of Part 1.

In your clarification, please state whether the intended uses of erythritol in sauces/toppings do or not fall under USDA's jurisdiction. More information about USDA's jurisdiction, amenability, and the definition of sauce is available here:

<https://www.fsis.usda.gov/wps/wcm/connect/7c48be3e-e516-4ccf-a2d5-b95a128f04ae/Labeling-Policy-Book.pdf?MOD=AJPERES>

If you have any questions, please don't hesitate to contact me.

Regards,

Carrie McMahon, Ph.D.

Consumer Safety Officer

Center for Food Safety and Applied Nutrition

Office of Food Additive Safety

U.S. Food and Drug Administration

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