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**TITLE:** Hypothetical Nutrient Intake from Oil in the US Post 20%, and Post 30% SDA Soybean Oil Inclusion in Proposed Foods: NHANES 1999-2002

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**ABSTRACT:**

The purpose of this study was to evaluate the changes in total fat, trans fat, and nine dietary fatty acids which result from the inclusion of two varieties of stearidonic acid (SDA) soybean oil, SDA 20% and SDA 30%, in a broad selection of foods, and to consider the nutritional implications on the US population. Calculations were conducted to determine the total fat, trans fat, and fatty acid intake for the overall US population and eight age/gender subpopulations. The results of this analysis suggest that prior to substitution, the fatty acid intake from the foods proposed for SDA fortification contributes less than  $\frac{1}{3}$  of the average total fat in the diet (27%). In addition, the intake of fatty acids from the foods proposed for SDA fortification represents less than half of the total dietary intake of each fatty acid: 43% of linoleic acid (LA) (18:2c), 40% of alpha linolenic acid (ALA) (18:3c), 24% of oleic acid (18:1c), 23% of stearic acid (18:0), and 24% of palmitic acid (16:0). After including Monsanto's 20% SDA soybean oil at a rate of 1.8 g/serving of food in the selected foods, the current average US population per capita intake of SDA from all dietary sources increases from 0.004 g/day to 2.1 g/day at the mean and from 0.004 g/day to 4.1 g/day at the 90th percentile. The current average US population per capita total fat intake increases from 78.8 g/day to 84.0 g/day (increase of 5.3 g/day at the mean and 7.1 g/day at the 90th percentile). The changes in the remaining fatty acids were negligible ( $\pm <1.6$  g/day at the mean). Utilizing Monsanto's 20% SDA soybean oil at a rate of 1.8 g/serving of food is calculated to introduce 10.1 g/day (0.18 g/kg/day) of this new oil at the mean and 19.6 g/day (0.38 g/kg/day) at the 90th percentile. After including Monsanto's 30% SDA soybean oil at a rate of 1.3 g/serving of food in the selected foods, the current average US population per capita intake of SDA from all dietary sources increases from 0.004 g/day at the mean and 90th percentile to 2.2 g/day at the mean and 4.2 g/day at the 90th percentile. The current average US population per capita total fat intake from the selected foods increased by 3.3 g/day, resulting in an increase in per capita average total dietary fat intake from 78.8 g/day to 82.1 g/day. The current per capita US population total fat intake in the selected foods at the 90th percentile increase by 4.3 g/day, from 136.5 g/day to 140.8 g/day. The changes in the remaining fatty acids were negligible ( $\pm <1$  g/day). Utilizing Monsanto's 30% SDA soybean oil at a rate of 1.3 g/serving of food is calculated to introduce 7.6 g/day (0.1 g/kg/day) of this new oil at the mean and 14.8 g/day (0.3 g/kg/day) at the 90th percentile.

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Post 20%, and Post 30% SDA Soybean Oil  
Inclusion in Proposed Foods: NHANES 1999-2002

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*Center for Chemical Regulation and Food Safety*

Exponent®

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Nutrient Intake from  
Oil in the US Post 20%, and  
Post 30% SDA Soybean Oil  
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## Acronyms and Abbreviations

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ALA	Alpha linolenic acid (18:3c)
BL	Baseline
DHA	Docosahexaenoic acid (22:6)
EPA	Eicosapentaenoic acid (20:5)
FARE	Food and Residue Evaluation Program
FDA	US Food and Drug Administration
GLA	Gamma linolenic acid (18:3 n6)
LA	Linoleic acid (18:2c),
NCHS	National Center for Health Statistics
NDB	Nutrient Database
NHANES	National Health and Nutrition Examination Survey
NFS	Not further specified
PHSBO	Partially hydrogenated soybean oil
RACC	Reference amounts commonly consumed
SBO	Soybean oil
SDA	Stearidonic acid (18:4 n3)
TFADB	Trans Fatty Acid Database, 1993
USDA	United States Department of Agriculture

## Executive Summary

The purpose of this study was to evaluate the changes in total fat, *trans* fat, and nine dietary fatty acids<sup>1</sup> which result from the inclusion of two varieties of stearidonic acid (SDA) soybean oil, SDA 20% and SDA 30%, in a broad selection of foods, and to consider the nutritional implications on the US population. The project was conducted in multiple phases:

- 1) Identify the foods that Monsanto selected for SDA fortification at a rate of 375 mg/serving.
- 2) Calculate the intake of total fat, *trans* fat and nine fatty acids from both the total diet and the selected foods proposed for SDA fortification based upon foods reported as consumed in the National Health and Examination Survey (NHANES 1999-2002) and their associated fatty acid content, also derived from the NHANES 1999-2002.
- 3) Calculate the total fat and fatty acid intake from soybean oil currently used in selected foods proposed for SDA fortification before substitution or addition of Monsanto's SDA soybean oil (i.e., baseline intake from soybean oil). The NHANES survey does not provide the nutrient content of the oils within foods. The nutrient profiles of the soybean oil in each food were based upon assumptions made in earlier analyses (Dirienzo et al., 2006).
- 4) Calculate the total fat and fatty acid intake from the **non-** soybean oils<sup>2</sup> currently used in selected foods proposed for SDA fortification (i.e., baseline intake from non-soybean oils) to capture the current intakes from the non- soybean oils in the foods proposed for SDA fortification for which a fraction (liquid portion only) will be removed and replaced with SDA soybean oil in Step 5.
- 5) Calculate the total fat, *trans* fat, and fatty acid intake from soybean oil in foods proposed for SDA fortification after substituting or adding Monsanto's SDA soybean oil at a rate of 1.8 grams of oil per serving (20% SDA), and at a rate of 1.3 grams of oil per serving (30% SDA). Both SDA use rates achieve 375 mg SDA per serving of food. Exponent used their proprietary recipes to determine the amount and type of oil

<sup>1</sup> Palmitic acid (16:0), stearic acid (18:0), oleic acid (18:1c), linoleic acid (LA) (18:2c), alpha linolenic acid (ALA) (18:3c), gamma linolenic acid (GLA) (18:3 n6), stearidonic acid (18:4), eicosapentaenoic acid (20:5), and docosahexaenoic acid (22:6).

<sup>2</sup> Non- soybean oils include: canola, coconut, corn grain, cottonseed, olive, palm, peanut, and sunflower oil. A portion of the liquid fraction all of these oils was removed from at least one SDA possible food when including 1.8 g or 1.3 g of SDA soybean oil.

in each food, and either added in or replaced soybean oil or non-soybean liquid oil with SDA soybean oil to ensure this measured oil quantity. When a food's main oil variety was a hydrogenated oil, it was assumed that this hydrogenated oil contained a blend of 60% solid fat and 40% liquid oil (Richard Wilkes, Personal communication, 24 April 2008). Only the liquid 40% portion of the hydrogenated oil blend was made available for substitution of Monsanto's SDA soybean oil in order to maintain functionality of the solid fat portion.

- 6) Calculate the total fat, *trans fat*, and fatty acid intake from **non-** soybean oils in selected foods proposed for SDA fortification before and after substitution or addition of both varieties of Monsanto's SDA soybean oil.
- 7) Recalculate the total dietary intake of fat, *trans fat* and the fatty acids post SDA inclusion for both varieties of SDA soybean oil.

Calculations were conducted to determine the total fat, *trans fat*, and fatty acid intake for the overall US population and eight age/gender subpopulations: children aged 1-8 years, teens aged 9-19 years, adults aged 20-49 years, and adults aged 50 years and older, all separated by gender.

The results of this analysis suggest that prior to substitution, the fatty acid intake from the foods proposed for SDA fortification contributes less than 1/3 of the average total fat in the diet (27%). In addition, the intake of fatty acids from the foods proposed for SDA fortification represents less than half of the total dietary intake of each fatty acid: 43% of linoleic acid (LA) (18:2c), 40% of alpha linolenic acid (ALA) (18:3c), 24% of oleic acid (18:1c), 23% of stearic acid (18:0), and 24% of palmitic acid (16:0).

After including Monsanto's 20% SDA soybean oil at a rate of 1.8 g/serving of food in the selected foods, the current average US population *per capita* intake of SDA from all dietary sources increases from 0.004 g/day to 2.1 g/day at the mean and from 0.004 g/day to 4.1 g/day at the 90<sup>th</sup> percentile. The current average US population *per capita* total fat intake increases from 78.8 g/day to 84.0 g/day (increase of 5.3 g/day at the mean and 7.1 g/day at the 90<sup>th</sup> percentile). The changes in the remaining fatty acids were negligible (+/- <1.6 g/day at the mean). Utilizing

Monsanto's 20% SDA soybean oil at a rate of 1.8 g/serving of food is calculated to introduce 10.1 g/day (0.18 g/kg/day) of this new oil at the mean and 19.6 g/day (0.38 g/kg/day) at the 90<sup>th</sup> percentile.

After including Monsanto's 30% SDA soybean oil at a rate of 1.3 g/serving of food in the selected foods, the current average US population *per capita* intake of SDA from all dietary sources increases from 0.004 g/day at the mean and 90<sup>th</sup> percentile to 2.2 g/day at the mean and 4.2 g/day at the 90<sup>th</sup> percentile. The current average US population *per capita* total fat intake from the selected foods increased by 3.3 g/day, resulting in an increase in *per capita* average total dietary fat intake from 78.8 g/day to 82.1 g/day. The current per capita US population total fat intake in the selected foods at the 90<sup>th</sup> percentile increase by 4.3 g/day, from 136.5 g/day to 140.8 g/day. The changes in the remaining fatty acids were negligible (+/- <1 g/day). Utilizing Monsanto's 30% SDA soybean oil at a rate of 1.3 g/serving of food is calculated to introduce 7.6 g/day (0.1 g/kg/day) of this new oil at the mean and 14.8 g/day (0.3 g/kg/day) at the 90<sup>th</sup> percentile.

## Introduction

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The purpose of this study was to evaluate the changes in total fat, *trans* fat, and nine dietary fatty acids<sup>3</sup> from selected foods when two varieties of stearidonic acid (SDA) soybean oil, 20% SDA soybean oil, and 30% SDA soybean oil, are included in 31 categories of foods, and to consider the nutritional implications on the US population. Inclusion of either variety of SDA soybean oil will result in 375 mg stearidonic acid (SDA, 18:4) per serving of food.

Food, total dietary nutrient, and soybean oil consumption data were derived from the 1999-2002 National Health and Nutrition Examination Survey (NHANES) (NCHS, 2002), while the fatty acid components of commercially used soybean oils were derived from the United States Department of Agriculture Trans Fatty Acid Database (USDA TFADB) (USDA, 1993) and data provided by Monsanto. Exponent's proprietary Foods Analysis and Residue Evaluation Program (FARE™) software version 8.13™ was used to conduct the intake and substitution analyses.

## Methods

### Nutrients from Selected Foods

The current dietary intakes of total fat, *trans* fat, and nine fatty acids were estimated from the list of foods proposed for SDA fortification using consumption and fatty acid data from the NHANES 1999-2002 and Exponent's FARE™ software version 8.13™. Although more recent NHANES data are available (2003-2004), recipes that provide the soybean oil content of the food are not yet developed for this dataset; thus the 1999-2002 data were used.

The NHANES 1999-2002 uses a complex multistage probability sample designed to be representative of the civilian U.S. population. The survey collects one-day food intake data, in addition to nutrition, demographic, and health information. The NHANES survey over-samples

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<sup>3</sup> Palmitic acid (16:0), stearic acid (18:0), oleic acid (18:1c), linoleic acid (LA) (18:2c), alpha linolenic acid (ALA) (18:3c), gamma linolenic acid (GLA) (18:3 n6), stearidonic acid (18:4), eicosapentaenoic acid (20:5), and docosahexaenoic acid (22:6).

minorities, low-income groups, and children, and statistical weights are provided by the national centers for health statistics (NCHS) to adjust for the differential probabilities of selection. Participants included 9,965 subjects in 1999-2000 and 11,039 subjects in 2001-2002. Each individual provided one day of food consumption information. The food consumption information was then translated into nutrient intakes. Specifically, the total dietary nutrient intakes for each survey participant were derived by multiplying the amount of food consumed by the concentration of each nutrient in that food and then summing that information over all the foods reported consumed by that individual and averaged over the population.

$$E_t = \sum_i (Fc)_i (NC_f)_i$$

$i$  = indexes the different food types consumed daily

$(Fc)_i$  = Amount of food (i) consumed (g/day)

$(NC_f)_i$  = nutrient content of food (i) (g/100 g food)

Table 1 provides the 31 broad food categories of interest while Appendix II contains the full listing of foods. Per capita nutrient intakes were calculated for the overall US population and eight age/gender subpopulations (children 1-8 years, teens 9-19 years, adults 20-49 years and adults 50+ years, separated by gender).

**Table 1. Foods Categories Selected by Monsanto for Addition of SDA**

<b><i>FDA Food Classifications (21CFR170.3(n))<sup>1</sup></i></b>	<b><i>Specific Food Sub-Categories</i></b>
<b>Baked goods and baking mixes</b>	Biscuits, bagels, tortillas, English muffins <sup>2</sup>
	Breads
	Cookies
	Cakes
	Crackers
	Bars
<b>Breakfast Cereals &amp; Grains</b>	Breakfast Cereals
<b>Cheeses</b>	Cottage Cheese
	Cheese
<b>Dairy Product Analogs</b>	Cream substitutes
	Soy milk
<b>Fats &amp; Oils</b>	Margarine/Spreads <sup>3</sup>
	Mayonnaise
	Dressings for Salads
<b>Fish Products</b>	Entrees with Sauce
<b>Frozen Dairy Desserts and Mixes</b>	Milk desserts and frozen yogurt
	Novelties <sup>4</sup>
<b>Grain Products and Pastas</b>	Pasta
<b>Gravies and Sauces</b>	Main entrée sauces (spaghetti sauces)
<b>Puddings and fillings</b>	Pudding
<b>Meat Products</b>	Entrees with sauce, hot dogs, lunch meat
<b>Milk Products</b>	Milk Based Drinks
	Milk Shakes
	Yogurt
<b>Nuts and Nut Products</b>	Peanut Butter
<b>Poultry Products</b>	Entrees with sauce, lunch meat
<b>Processed Fruit Juices</b>	Fruit Drinks, Fruit Smoothies
<b>Processed Vegetable Products</b>	Vegetable Juices
<b>Snack Foods</b>	All varieties
<b>Soft Candy</b>	Candy bars
<b>Soups and soup mixes</b>	Processed soups (not home made)

<sup>1</sup> Categories as defined in Food and Drug Administrations Reference amounts customarily consumed per eating occasion (21 CFR 101.12)

<sup>2</sup> Only select food categories listed under 21CFR101.12. e.g., bagels, tortillas, and wraps.

<sup>3</sup> Excludes margarines whose name indicated >80% total fat content.

<sup>4</sup> Defined a "novelty" as any food sold as a single serve item (e.g. milk dessert bar, or stick).

## **Intake of Fatty Acids from Soybean Oil Portion of Selected Foods (Baseline)**

The assignment of fatty acid compositions to the regular and partially hydrogenated soybean oil components of foods at baseline has been described previously (Dirienzo et al, 2006). The TFADB derived profiles for the soybean oil portion of each food category can be found in Table 2. Note that this table does not include SDA because the SDA content of the current commercially available soybean oil in the analyzed food categories of interest is virtually zero (i.e., SDA is not detectable in conventional soybean oil).

**Table 2. Baseline Analysis Fatty Acids in the Soybean Oil Portion of Select Foods (% Total Fat) <sup>1</sup>**

Food Assignment	Data Source	16:0	18:0	18:1C	18:2N6	18:3N3	18:3 not N3	Trans fat
<b>Baked Goods and Baking Mixes</b>								
Breads, Biscuits, Bagels	Avg of TFADB <sup>2</sup> #7,9,47	11.9	5.8	24.7	35.9	3	0.1	5.2
Bars, Cakes, Cookies, Pies, Pastries	Hydrogenated #107 <sup>3</sup>	10.1	10.2	38.7	3.1	0	0	31.4
Crackers	USDA TFADB 27	9.6	7.3	31.5	4.6	0.3	0	36.1
<b>Breakfast Cereals</b>								
Ready to eat cereal	Hydrogenated #107 <sup>3</sup>	10.1	10.2	38.7	3.1	0	0	31.4
<b>Cheeses</b>								
	USDA TFADB 107 <sup>4</sup>	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Dairy Product Analogs</b>								
Soy milk and cream substitutes	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Fats and Oils</b>								
Stick margarine	USDA TFADB 88	10.7	6.7	30	15	1.5	0	30.4
Cooking fats	USDA TFADB 98	10.1	6.6	27.6	30.7	2.7	0.3	16.1
Tub margarine	Avg of TFADB #98,99,100	10.3	6.5	25.7	35.4	3.9	0.2	12.3
Mayonnaise and miracle whip	USDA TFADB 105	9.9	3.6	24.9	45.4	5.9	0.2	4.3
Creamy salad dressings	Don Banks Personal Communication	10.8	5.4	34.1	27.5	0.8	0	17.3
Oil and vinegar based salad dressings	Avg of TFADB #107,108,110	9.9	3.7	21.7	37.4	6.8	0.4	0.5
<b>Fish Products</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Frozen Dairy Desserts and Mixes</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Gravies and Sauces</b>								
	Avg of TFADB #107,108,110	9.9	3.7	21.7	37.4	6.8	0.4	0.5
<b>Meat Products</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Milk Products</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Pasta</b>								
Plain pasta	USDA TFADB 9	11.5	7.4	25.5	39.4	4.1	0	9.2
Pasta mixed dishes	Hydrogenated #107 <sup>3</sup>	10.1	10.2	38.7	3.1	0	0	31.4
<b>Peanut Butter</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Poultry Products</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Processed Fruit Drinks</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Processed Vegetable Drinks</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7
<b>Snack Foods</b>								
Grain based snacks	Avg of TFADB #174,175,176,177	11.2	10.4	30.7	8.9	0.3	0	31.1
Potato chips	Don Banks Personal Communication	10.8	5.4	34.1	27.5	0.8	0	17.3
<b>Soft Candy-Candy Bars</b>								
	USDA TFADB 107	10.1	3.6	21.2	51.3	6.8	0.4	0.7

<sup>1</sup> Fatty acid assignments to soybean oil portion of food groups established in Dirienzo et al., 2006

<sup>2</sup> AVG=average, USDA Trans Fatty Acid Database (1993). Numbers indicate the TFADB food line items.

<sup>3</sup> Generated by Monsanto

<sup>3</sup> TFADB line item number 107 was selected jointly by Monsanto and Exponent to represent conventional liquid soybean oil.

When the fat variety was unknown in a recipe for a food reported consumed in NHANES the recipe was assigned the ingredient “oil, not further specified (NFS)”. Typically when the estimated intake of oil from foods is calculated and a food contains “oil-NFS” the intake of the oil is broken down into five fat varieties based upon USDA oil production statistics (Table 3). A “find and replace” was conducted in the food recipes to “find” all occurrences of “oil-NFS” and “replace” the amount of oil-NFS in the recipe with 88% soybean oil, 4% palm oil, 4% coconut oil, 3% beef fat and 2% of coconut oil (USDA Oil Production Statistics). This replacement oil was added to any existing oils already noted in the food recipe. After the replacement of oil-NFS with known oils, the total amount of fat in the food remained constant.

**Table 3. Breakdown of Fat in Oil-NFS based upon USDA Production Statistics (%)**

Oil Not Further Specified	Default composition
Cottonseed Oil	2
Coconut Oil	4
Palm Oil	4
Beef Fat	3
Soybean Oil	88

For example, the default recipe for a cookie included oil-NFS. This oil was replaced with the proportions of the five fats listed in Table 3. Table 4 below shows the current cookie recipe and the recipe after oil-NFS is replaced with the 5 fats based on the USDA oil production statistics.

**Table 4. Cookie A: Default Recipe (i.e. current recipe) and Post Replacement of Oil-NFS with its Ingredient Oils.**

Ingredient Name [FoodForm]	Percent of Total	
	Baseline	Post "Find-Replace" Oil NFS
Wheat-flour [Baked]	13	13
Sugar-NFS (Auxiliary Recipe) [Refined]	54.82	54.82
Dates [Baked]	7.43	7.43
Corn grain/sugar/hfcs [Refined]	1.21	1.21
Corn grain-endosperm [Baked]	2.56	2.56
Milk-based water [Baked]	7.11	7.11
Milk-fat solids [Baked]	2.1	2.1
Milk-nonfat solids [Baked]	0.55	0.55
Milk sugar (lactose) [Baked]	0.5	0.5
Salt [Refined]	0.32	0.32
Eggs-whole [Baked]	0.09	0.09
Leavening agents [Cooked: NFS]	0.09	0.09
Miscellaneous/nfs [Baked]	0.11	0.11
<b>Oil-NFS (Auxiliary Recipe) [Refined]</b>	<b>8.2</b>	<b>0</b>
<b>Soybeans-oil [Refined]</b>	<b>0</b>	<b>7.2</b>
<b>Cottonseed-oil [Refined]</b>	<b>0</b>	<b>0.17</b>
<b>Beef-fat w/o bones [Cooked: NFS]</b>	<b>0</b>	<b>0.26</b>
<b>Palm oil [Refined]</b>	<b>0</b>	<b>0.29</b>
<b>Coconut-oil [Refined]</b>	<b>0</b>	<b>0.29</b>
Water-commercial processing [Baked]	1.63	1.63
Alcohol-distilled [Alcohol/Fermented/Distilled]	0.28	0.28
Vanilla [Alcohol/Fermented/Distilled]	0.01	0.01

Nutrient consumption data were statistically weighted according to the guidelines recommended by NHANES (NCHS, 2002). The mean and 90th percentiles of the per capita distributions of intake were derived for all population groups of interest.

$$E_t = \sum_i (Fc)_i (Soybean\ oil_f)_i (FA_s)_i$$

$i$  = number of different foods consumed daily

$Fc$  = Amount of food consumed (g/day)

$Soybean\ oil_f$  = Soybean oil in food (g/100 g food)

$FA_s$  = Fatty acid content of soybean oil (g/100 g Soybean oil)

## Intake of Fatty Acids from Soybean and Other Oil Portions of Selected Foods Post SDA Soybean Oil Inclusion

As mentioned earlier, Monsanto's 20% SDA soybean oil was incorporated into foods at a rate of 1.8 grams per serving of food and in a second analysis Monsanto's 30% SDA soybean oil was incorporated into foods at a rate of 1.3 grams per serving of food (i.e., both varieties provide 375 mg SDA/serving). In order to determine what recipe change was necessary for each food to ensure that there was 1.8 and 1.3 grams of SDA soybean oil per serving of food, the serving size of each food was identified

using the US Food and Drug Administration (FDA) 21CFR101.12 guidelines. Using Exponent's recipe program, the amount of oil (if any) was listed from each of the target foods.

- Corn grain oil
- Cottonseed oil
- Peanut oil
- Safflower oil
- Sesame oil
- Soybean oil
- Sunflower oil
- Coconut oil
- Olive oil
- Canola oil
- Palm oil

The third step was to calculate the amount of soybean oil, non- soybean oil, and total oil on a gram per serving basis and to sort them according to the amount of oil in each food on a serving basis. Next, the foods were categorized according to their major fat content as either being liquid oil or hydrogenated oil. This was determined based upon historical knowledge of foods as well as the data in Table 2 to make the categorizations. Foods containing only liquid oil (e.g., foods with little to no hydrogenated fats and therefore a low *trans* fat content such as juice drinks) were all eligible for replacement of existing liquid oil with Monsanto's SDA soybean oil. In order to provide a realistic, yet conservative estimate of the impact of

substitution of SDA soybean oil in the diet, it was necessary to determine how much of each fat could be replaced without affecting the characteristics of the food. That is, oils such as SDA soybean oil cannot totally replace hydrogenated fats because SDA soybean oil is not a solid fat at the same temperatures as fully hydrogenated fats and, because the nutritional value (e.g., high omega-3 content) of SDA soybean oil would be compromised if subjected to hydrogenation. The specific types of fat in many processed foods are typically considered to be confidential information by the food manufacturer. Also there are a variety of different fats (with different fatty acids profiles) used. Therefore, it was necessary to make assumptions as to the amount of the fat in each food that could be replaced by SDA soybean oil. Based on Exponent's knowledge and on information provided by Monsanto, it was agreed that a conservative assumption would be that no more than 40% of a hydrogenated fat could be replaced with SDA soybean oil (Personal communication, 24 April 2008). In other words, it was considered possible to replace up to 40% of the existing hydrogenated oil with SDA soybean oil and maintain the overall functionality of the oil in the food, as long as the amount of SDA soybean oil per serving of food did not exceed 1.8 g (20% SDA) or 1.3 g (30% SDA). The remaining 60% is assumed to be hydrogenated and cannot be substituted. After this categorization, the liquid oil content of each food was reviewed and the foods fell into one of four categories (See Table 6).

- **Foods where SDA soybean oil was added at a use rate of 1.8 g/RACC serving**

- \* *Foods without any oil in the recipes*

- \* *Foods with >0 and <0.5 grams of non-soybean oil. Exponent made no adjustment for the existing oil, rather left it in the recipe and added SDA soybean oil.*

- \* *Foods with <1.8 g/serving liquid soybean oil, and containing no other oils*

- **Foods where SDA soybean oil replaced existing liquid soybean oil**

- \* *Foods with  $\geq 1.8$  g liquid soybean oil. SDA soybean oil use rate requires only 1.8 grams of oil per serving of food; therefore, no changes were made to the recipe, only the soybean oil profile was altered (e.g., 40% SDA soybean oil, 60% Commercial liquid soybean oil).*

- **Foods where non-soybean oil was removed, and SDA soybean oil was added to the recipe of the food at a use rate of 1.8 g/ RACC serving**

*\* Foods with <1.8 total liquid oil, <1.8 liquid soybean oil. All of the liquid non-soybean oil was omitted from the food and the amount of soybean oil was added to the recipe to increase the total soybean oil to 1.8 g/serving.*

- **Foods where a portion of non soybean oil was removed, and SDA soybean oil was added to the recipe of the food at a use rate of 1.8 g/ RACC serving**

*\* Foods with > 1.8 g total liquid oil but <1.8 g liquid soybean oil: subtracted out a portion of the non-soybean oil(s), and replaced it (them) with the additional amount of soybean oil that would increase the total soybean oil to 1.8 grams per serving of food.*

The same methodology was used with the 30% SDA soybean oil analysis where the oil was incorporated into food at a rate of 1.3 grams per serving; however, where the text lists “1.8”, “1.3” was used instead. Table 5 provides the nutrient profile of commercial liquid soybean oil, and the two varieties of Monsanto’s SDA soybean oil. Table 2 provides the precise nutrient profiles of the soybean oil (if present) fraction of each food category proposed for SDA fortification.

**Table 5. Fatty Acid Profile of Monsanto’s SDA Soybean Oil (% Fatty Acids)**

Soybean Oil Variety	16:0	18:0	18:1C	18:2N6	18:3N3	18:3 not N3	18:4	Trans fat
Commercial liquid soybean oil <sup>1</sup>	10.1	3.6	21.2	51.3	6.8	0.4	0	0.7
20% SDA soybean oil <sup>2</sup>	12.2	4.6	18.6	24.1	10.9	6.4	20.7	0.9
30% SDA soybean oil <sup>2</sup>	12.4	4.1	15.9	18.5	10.5	7.3	28.7	0.9

<sup>1</sup> Source: USDA Trans Fatty Acid Database (1993)

<sup>2</sup> Source: Monsanto

### **Fatty Acid Content of Soybean Oil Portion of Selected Foods Post SDA Soybean Oil Inclusion**

According to the categories of food mentioned above, the following categories contained 100% SDA soybean oil post SDA soybean oil inclusion: i) foods that did not originally contain oil (soybean oil or non- soybean oil) where SDA soybean oil was added at a use rate of 1.8 or

1.3 g/RACC serving, ii) foods not originally containing soybean oil where a non- soybean oil or a portion of non- soybean oil was removed and SDA soybean oil was added at a use rate of 1.8 or 1.3 g/ RACC serving, and iii) foods with <1.8 or <1.3 g liquid soybean oil only (liquid oils only, not hydrogenated oils) where SDA soybean oil replaced existing liquid soybean oil with 1.8 g or 1.3 g of liquid soybean oil.

Some foods contained a blend consisting of either: i) commercial liquid soybean oil and SDA soybean oil (liquid oil containing foods), ii) commercial partially hydrogenated soybean oil (PHSBO) and SDA soybean oil, or iii) commercial liquid soybean oil, SDA soybean oil, and commercial PHSBO. For example, prior to SDA soybean oil inclusion, *Food A* contained 2.0 g/serving of commercial liquid soybean oil. Post SDA soybean oil inclusion, *Food A* contained 1.8 g/serving of SDA soybean oil and 0.2 g/serving commercial liquid soybean oil (i.e., total soybean oil in *Food A* is 90% SDA soybean oil, and 10% commercial soybean oil). When calculating fatty acid intake from soybean oil in foods, the FARE software cannot differentiate between SDA soybean oil and commercial soybean oil in food recipes. In order to best reflect the fatty acid profile of foods containing a blend of SDA soybean oil and commercial soybean oil (liquid and solid), a “custom” weighted fatty acid profile was calculated for the soybean oil in the particular food. For the example above, the soybean oil profile assigned to *Food A* was 10% of the commercial (baseline) fatty acid profile (refer to Table 2 for baseline fatty acid profiles of soybean oil) and 90% SDA soybean oil. Exponent calculated a “custom” blend fatty acid profile for each food falling into this described scenario. Because the baseline fatty acid profile (see Table 2) and the percentage of commercial and SDA soybean oil in each food varied, over 100 “custom” blends were calculated. For example, within the Breads, Biscuits, and Bagels category, there were some foods that contained 100% SDA soybean oil because they did not contain more than 1.8 or 1.3 g/serving soybean oil whereas there were many remaining foods that contained both SDA soybean oil and commercial soybean oil. Of these remaining foods, varying weighted fatty acid profiles were assigned to the soybean oil in the food.

Appendix I provides the food categories for which a blend of soybean oil and commercial oils had to be calculated as opposed to 100% SDA soybean oil<sup>4</sup>.

### **Change in Fatty Acid Intake from Select Foods after Removing All or a Portion of Non-Soybean oil in Selected Foods Post SDA Soybean Oil Inclusion**

In some foods, in order to include the SDA soybean oil, other oils were removed (i.e., replaced with SDA soybean oil). The removal of the other oils may result in a change in the *per capita* fatty acid intake and would not be captured in the analysis on fatty acid intake from soybean oil only. Exponent estimated any loss of fatty acids from non-soybean oils resulting from the replacement of non-soybean oil with SDA soybean oil.

For example:

Food B has 1 g of soybean oil and 2 g of corn oil at baseline. The baseline fatty acid composition reflects 1 g of soybean oil. In order to incorporate 1.8 g SDA soybean oil /serving of food, the recipe of the food was altered as follows:

SUBTRACT 1 g of soybean oil, and SUBTRACT 0.8 g corn oil

ADD 1.8 g SDA soybean oil. Product still has 1.2 g corn oil

There is no change in total oil intake from this food, however, the consumer has decreased their corn oil intake by 0.8 g/serving, which would not be captured in the baseline-post SDA soybean oil inclusion nutrient intake analysis from soybean oil only.

A second example is for food C that contains a hydrogenated oil whereby the assumption was made that 60% of the hydrogenated oil is solid oil and 40% is liquid oil. Only the liquid oil portion was available to be replaced with SDA soybean oil.

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<sup>4</sup> 20% and 30% SDA soybean oil incorporation analyses used 100% soybean oil in the following food categories: fruit drinks, frozen dairy desserts, peanut butter, and soy milk.

Food C has 1 g soybean oil and 2 g corn oil at baseline. Based on prior food chemistry knowledge, the oils in Food C are hydrogenated oils. Baseline fatty acid composition reflects 1g of soybean oil. In order to incorporate 1.8 g SDA soybean oil/serving of food Exponent altered the recipe of the food as follows:

CALCULATE 40% of 1g of soybean oil (0.4 g), and 40% of 2 g of corn oil (0.8g)

SUBTRACT 0.4g of soybean oil, and SUBTRACT 0.8 g corn oil

ADD 1.8 g SDA soybean oil.

The final product contains 1.2 g hydrogenated/solid corn oil (the unaltered fraction equal to 60% of corn oil), 0.6 g hydrogenated/solid soybean oil (the unaltered fraction of soybean oil), and 1.8 g SDA soybean oil.

The total oil content of this item has increased by 0.6 g/day.

Food and oil consumption data were derived from the 1999-2002 National Health and Nutrition Examination Survey (NHANES)(NCHS, 2002), while the fatty acid components of commercially used oils were derived from the United States Department of Agriculture Nutrient Database for Standard Reference (USDA NDB) (USDA, 2007) (Table 6). Exponent's proprietary Foods Analysis and Residue Evaluation Program (FARE™) software version 8.13™ was used to conduct the intake and substitution analyses.

**Table 6. Oils and Associated Fatty Acid Content Used in Analysis**

NDB No. <sup>1</sup>	Food Description	% Total Fat							
		16:0	18:0	18:1C	18:2N6	18:3N3	18:3 notN3	18:4N3	Trans fat
4518	Oil, vegetable, corn, industrial and retail, all purpose salad or cooking	10.6	1.8	27.3	53.2	1.2	0	0	0.3
4502	Oil, vegetable, cottonseed, salad or cooking	22.7	2.3	17.0	51.5	0.2	0	0	NA
4042	Oil, peanut, salad or cooking	9.5	2.2	44.8	32.0	0	0	0	NA
4642	Oil, vegetable, industrial, mid oleic, sunflower, principal uses frying and salad dressings	4.2	3.6	57.0	28.7	0.04	0	0	0.2
4047	Vegetable oil, coconut	8.2	2.8	5.8	1.8	0	0	0	NA
4053	Oil, olive, salad or cooking	11.3	2.0	71.3	9.8	0.8	0	0	NA
4582	Vegetable oil, canola	4.0	1.8	56.1	20.3	9.3	0	0	NA
4055	Vegetable oil, palm	43.5	4.3	36.6	9.1	0.2	0	0	NA
4001	Fat, beef tallow	24.9	18.9	36.0	3.1	0.6	0	0	NA

<sup>1</sup>USDA Food Search for Windows, Version 1.0, database version SR20  
([http://www.ars.usda.gov/main/site\\_main.htm?modecode=12354500](http://www.ars.usda.gov/main/site_main.htm?modecode=12354500) )

In order to estimate the combined intake of total fat and fatty acids at the mean and 90<sup>th</sup> percentile from soybean and all other oils before and after including SDA soybean oil, the fat, *trans* fat, and fatty acids from [bl soybean oil + bl non- soybean oil]-[ps soybean oil +ps non- soybean oil]<sup>5</sup> were calculated for each NHANES participant and then means and 90<sup>th</sup> percentiles were calculated from the distribution. The fat, *trans* fat, and fatty acids from non- soybean oil at baseline and post SDA soybean oil inclusion were estimated by multiplying each participant's intake of each non- soybean oil (g/day) by the nutrient profile of each oil (per USDA NDB, Table 6). In the cases of non-soybean oils, it was assumed that all non-soybean oils had the nutrient profile in Table 6 (i.e. no variation in levels of hydrogenation of a single oil).

The intake of SDA soybean oil post 20% and 30% SDA soybean oil inclusion was calculated using the baseline SDA intake from non-SDA soybean oil sources as well as the intake of SDA from the added SDA soybean oil. 20% SDA soybean oil contains 20.7% SDA while 30% SDA soybean oil contains 28.7% SDA. The amount of SDA soybean oil consumed was calculated by subtracting the amount of SDA consumed at baseline from the POST SDA inclusion intake of SDA and dividing by either 20.7% (20% SDA) or 28.7% (30% SDA). Tables 13 and 20 provide the *per capita* mean and 90<sup>th</sup> percentile estimated amounts of SDA soybean oil consumed in the US. The *per capita* SDA soybean oil intake for each NHANES

<sup>5</sup> Bl: baseline, ps: post 1.8 g/serving SDA soybean oil inclusion

participant was calculated (g SDA soybean oil /day). Each respondent's SDA soybean oil intake (g/day) was divided by their bodyweight (g SDA soybean oil /kg/day) and then means and 90<sup>th</sup> percentiles were calculated from the distribution.

The US population intake of SDA on a bodyweight basis was also estimated for the current diet, post 20% SDA soybean oil inclusion and post 30% SDA soybean oil inclusion. Each NHANES participants' SDA intake g/day was converted to mg/day then divided by the participants' individual bodyweight. Current and post SDA inclusion *Per capita* SDA intakes expressed on a bodyweight basis are presented in Tables 14 and 21.

Table 7. Classification of Foods into SDA Soybean Oil Replacement or Addition\*

Total Liquid Oil (g/RACC)	Non-Soybean Oil (g/RACC)	Liquid Soybean Oil (g/RACC)	Category Label	Calculation	Notes
0 to <0.5	0 to <0.5	0	<b>Add SDA soybean oil to= 1.8 g/serv</b>	$(1.8 \text{ g SDA soybean oil/RACC Serving Size (g)}) \times 100\text{g} = \text{g SDA soybean oil}/100\text{g food}$	All soybean oil is added
<1.8	0 to <0.5	<1.8		$(1.8 \text{ g SDA soybean oil /RACC Serving Size (g)}) \times 100\text{g} = \text{g SDA soybean oil}/100\text{g food}$	Foods with less than 0.5g/serv of liquid non-soybean oil kept this oil. SDA oil was added in addition to the existing oil.
≤1.8	0	<1.8			SDA soybean oil is added at specified rate
1.8		1.8	<b>No Recipe Change</b>	No Calculations for recipe change necessary	All liquid soybean oil in food is assumed to be SDA
>1.8		>1.8		Calculations for Nutrient Profile Assigned to Foods: $(\text{g SDA soybean oil}/100 \text{ g food}) / (\text{total liquid soybean oil g/g food}) = \% \text{ SDA soybean oil}$ 1- Answer above = % Commercial liquid soybean oil	The oil in the food will be a mixture of SDA soybean oil (1.8 g/serving) and commercial soybean oil. The fatty acids in commercial soybean oil in each food are the same as those assumed at baseline.
≤1.8	≥0.5	<1.8	<b>Remove non-soybean oil Add SDA soybean oil to= 1.8 g/serv</b>	(A) Change non- soybean oil recipe(s) to 0 (I.e. remove non- soybean oil) (B) $(1.8 \text{ g SDA soybean oil /RACC Serving Size (g)}) \times 100\text{g} = \text{g SDA soybean oil}/100\text{g food}$	Used when after substituting the non-soybean oil with SDA soybean oil still does not add up to 1.8 g SDA/serving.
>1.8	≥0.5	<1.8	<b>Remove portion of non-soybean oil Add SDA soybean oil to=1.8 g/serv</b>	(A) $[(\text{g non soybean oil/g food}) \times 100] + [(\text{g liquid soybean oil /g food}) \times 100] - (\text{g SDA soybean oil /100g food}) = \text{Remaining non soybean oil}/100\text{g food}$ (B) $(1.8 \text{ g SDA soybean oil/RACC Serving Size (g)}) \times 100\text{g} = \text{g SDA soybean oil /100g food}$	Used when only a portion of the liquid non-soybean oil needs to be replaced with SDA soybean oil. <b>(A)</b> Calculates how much of the non-SDA soybean oil will remain in the recipe after substituting. <b>(B)</b> Calculates how much SDA soybean oil is needed in the recipe at a specified rate.

\*1.8 g is the cut-off when considering 20% SDA oil, while 1.3 g is used when considering 30% SDA oil.

## Results 20% SDA

Figures 1 through 9 provide a comparison of the mean and 90<sup>th</sup> percentile change in fatty acid intakes from selected foods (See Table 1 and Appendix 1) when the 20% SDA soybean oil is incorporated into 31 categories of foods. These values were calculated by subtracting the current total dietary fatty acid intake from the total dietary fatty acid intake after SDA soybean oil introduction.

The raw data associated with figures 1 through 9 are provided in Tables 8-12. *Per capita* results are provided. For all populations analyzed, at least 91% of the population reported consuming at least one of the selected foods; therefore, the per capita and per user results are nearly identical. Table 13 provides the *per capita* consumption of SDA soybean oil after inclusion in selected foods for the US population and 8 age gender groups (g/day and g/kg/day).

### Explanatory Notes

The baseline measurement for gamma linolenic acid (GLA) actually is the fatty acid content of any 18:3 fatty acids that are not omega 3 (n-3) fatty acids, which includes but is not limited to GLA; however, the measured GLA from the soybean oil in target foods was very similar to the GLA from Monsanto's foods proposed for SDA fortification. Therefore, it was reasonably assumed that the change in 18:3 intakes after SDA soybean oil substitution represents GLA intake.

## 20% SDA Soybean Oil Introduction

### US Population

Average SDA intake from selected foods increased from 0.004 g/day to 2.1 g/day (0.004 g/day to 4.1 g/day at the 90<sup>th</sup> percentile) (Figure 1). This change was accompanied by an increase in mean per capita total fat consumption in the overall US population of 5.3 g/day (7.1 g/day, 90<sup>th</sup> percentile) resulting in increases of average daily total dietary fat from 78.8

g/day to 84.0 g/day<sup>6</sup>. The introduction had smaller impacts on the intakes of the remaining six fatty acids. Intakes of palmitic acid (16:0) increased by 0.7 g/day (0.9 g/day, 90<sup>th</sup> percentile) resulting in an increase in average total dietary intake from 13.9 g/day to 14.6 g/day. Intakes of stearic acid (18:0) increased slightly at the mean by 0.09 g/day (0.07 g/day, 90<sup>th</sup> percentile), similarly oleic acid (18:1c) increased by 0.3 g/day at the mean (0.1 g/day, 90<sup>th</sup> percentile), while linoleic acid (LA) (18:2c) increased by 1.6 g/day (2.4 g/day, 90<sup>th</sup> percentile). Average intake of alpha linolenic acid (ALA) (18:3c) from selected foods increased slightly by 1.1 g/day (1.8 g/day, 90<sup>th</sup> percentile). Similarly, intakes of GLA from selected foods (18:3n6) increased by 0.6 g/day (1.2 g/day, 90<sup>th</sup> percentile) resulting in an increase in average total dietary intake from 0.03 g/day to 0.7 g/day. Total dietary intake of *trans* fat decreased from 5.9 g/day to 4.9 g/day at the mean (11.6 to 9.8 g/day at the 90<sup>th</sup> percentile). The total dietary intake of SDA soybean oil was 10.1 g/day (19.6 g/day, 90<sup>th</sup> percentile) (Table 13).

### Males 1-8 Years

In males aged 1-8 years, the *per capita* average SDA intake increased by 1.8 g/day (3.1 g/day, 90<sup>th</sup> percentile) (Figure 2) raising average total dietary SDA intake from 0.002 g/day to 1.8 g/day which was accompanied by an increase in mean *per capita* fat consumption in males 1-8 years of 5.0 g/day (5.7 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat from 66.9 g/day to 71.9 g/day. The average increases in palmitic, oleic, stearic, LA, ALA, and GLA ranged from 0.05 g/day (stearic acid) to 1.8 g/day (LA). Total dietary intake of *trans* fat decreased from 5.5 g/day to 4.4 g/day at the mean (9.8 to 8.1 g/day at the 90<sup>th</sup> percentile). The intake of total SDA soybean oil was 8.8 g/day (14.8 g/day, 90<sup>th</sup> percentile).

### Females 1-8 Years

In females aged 1-8 years, the *per capita* average SDA intake increased by 1.6 g/day (2.8 g/day, 90<sup>th</sup> percentile) (Figure 3) raising average total dietary SDA intake from 0.001 g/day to 1.6 g/day which was accompanied by an increase in total fat consumption (4.4 g/day, mean; 6.3 g/day, 90<sup>th</sup> percentile), bringing average total dietary fat intake from 58.9 g/day to 63.3 g/day. The average increases in palmitic, stearic, oleic, LA, ALA, and GLA

<sup>6</sup> Results presented are expressed in terms of the total dietary intake

ranged from 0.06 g/day (stearic acid) to 1.6 g/day (LA). Total dietary intake of *trans* fat decreased from 4.8 g/day to 3.9 g/day at the mean (8.8 to 6.9 g/day at the 90<sup>th</sup> percentile). The intake of total SDA soybean oil was 7.8 g/day (13.5 g/day, 90<sup>th</sup> percentile).

### **Males 9-19 Years**

*Per capita* average SDA intake by teenage males 9-19 years increased by 2.3 g/day (4.3 g/day, 90<sup>th</sup> percentile) (Figure 4) resulting in total dietary intakes increasing from 0.001 g/day to 2.3 g/day (0.001 g/day to 4.3 g/day at the 90<sup>th</sup> percentile). Total fat consumption from selected foods increased by 5.9 g/day (6.1 g/day, 90<sup>th</sup> percentile) resulting in average total dietary fat intake increases from 91.8 g/day to 97.6 g/day. The average increases in palmitic, stearic, oleic, LA, ALA, and GLA ranged from 0.07 g/day (stearic acid) to 2.1 g/day (LA). Total dietary intake of *trans* fat decreased from 7.5 g/day to 6.2 g/day at the mean (14.2 to 11.8 g/day at the 90<sup>th</sup> percentile). The intake of total SDA soybean oil was 11.0 g/day (20.8 g/day, 90<sup>th</sup> percentile).

### **Females 9-19 Years**

*Per capita* average SDA intake by teenage females 9-19 years increased by 1.9 g/day (3.5 g/day, 90<sup>th</sup> percentile) (Figure 5) resulting in an increase in total dietary SDA intakes from 0.002 g/day to 1.9 g/day (0.001 g/day to 3.5 g/day at the 90<sup>th</sup> percentile). Total fat consumption increased by 4.7 g/day (7.7 g/day, 90<sup>th</sup> percentile) resulting in an increase of total dietary fat intake from 71.5 g/day to 76.2 g/day. The average increases in palmitic, stearic, oleic, LA, ALA and GLA ranged from 0.04 g/day (stearic acid) to 1.7 g/day (LA). Total dietary intake of *trans* fat decreased from 6.1 g/day to 5.0 g/day at the mean (11.5 to 10.0 g/day at the 90<sup>th</sup> percentile). The intake of total SDA soybean oil was 9.1 g/day (16.7 g/day, 90<sup>th</sup> percentile).

### **Males 20-49 Years**

*Per capita* average SDA intake by adult males 20-49 years increased by 2.5 g/day (4.8 g/day, 90<sup>th</sup> percentile) (Figure 6) resulting in an increase in total dietary SDA intakes from 0.006 g/day to 2.5 g/day (0.006 g/day to 4.8 g/day at the 90<sup>th</sup> percentile). The SDA increase was accompanied by an increase in total fat consumption from selected foods of 6.0 g/day (8.0 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat intake from 102.2

g/day to 108.2 g/day. The average changes in palmitic, stearic, oleic, LA, ALA and GLA ranged from 0.1 g/day (stearic acid) to 1.8 g/day (LA). Total dietary intake of *trans* fat decreased from 7.2 g/day to 6.1 g/day at the mean (13.9 to 12.1 g/day at the 90<sup>th</sup> percentile). The intake of total SDA soybean oil was 11.9 g/day (23.1 g/day, 90<sup>th</sup> percentile).

#### **Females 20-49**

Adult females 20-49 years' *per capita* average SDA intake increased by 2.0 g/day (3.9 g/day, 90<sup>th</sup> percentile) (Figure 7) resulting in an increase in total dietary SDA intakes from 0.004 g/day to 2.0 g/day at the mean and 0.005 g/day to 3.9 g/day at the 90<sup>th</sup> percentile. This increase was accompanied by an increase in total fat consumption from selected foods of 5.1 g/day (7.8 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat intake from 72.7 g/day to 77.8 g/day. The average increases in palmitic, stearic, oleic, LA, ALA and GLA ranged from 0.1 g/day (stearic acid) to 1.5 g/day (LA). Total dietary intake of *trans* fat decreased from 5.5 g/day to 4.5 g/day at the mean (10.4 to 8.6 g/day at the 90<sup>th</sup> percentile). The intake of total SDA soybean oil was 9.9 g/day (19.0 g/day, 90<sup>th</sup> percentile).

#### **Males 50+ Years**

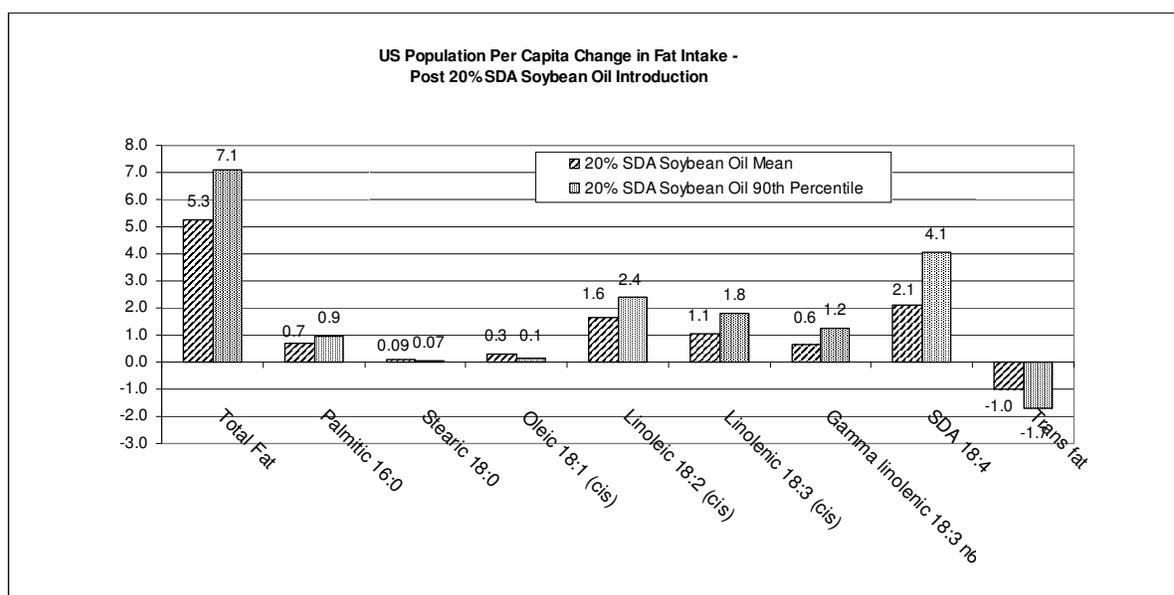
Adult males 50+ years' *per capita* average SDA intake increased by 2.3 g/day (4.3 g/day, 90<sup>th</sup> percentile) (Figure 8) resulting in an increase in total dietary SDA intakes from 0.008 g/day to 2.3 g/day at the mean and from 0.01 g/day at the mean to 4.3 g/day at the 90<sup>th</sup> percentile. This was accompanied by an increase in total fat consumption from selected foods of 5.7 g/day (5.9 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat intake from 84.7 g/day to 90.4 g/day. The *per capita* average increases in palmitic, stearic, oleic, LA, ALA and GLA ranged from 0.1 g/day (stearic acid) to 1.7 g/day (LA). Total dietary intake of *trans* fat decreased from 6.1 g/day to 5.1 g/day at the mean (11.7 to 9.6 g/day at the 90<sup>th</sup> percentile). The intake of total SDA soybean oil was 11.1 g/day (20.6 g/day, 90<sup>th</sup> percentile).

#### **Females 50+ Years**

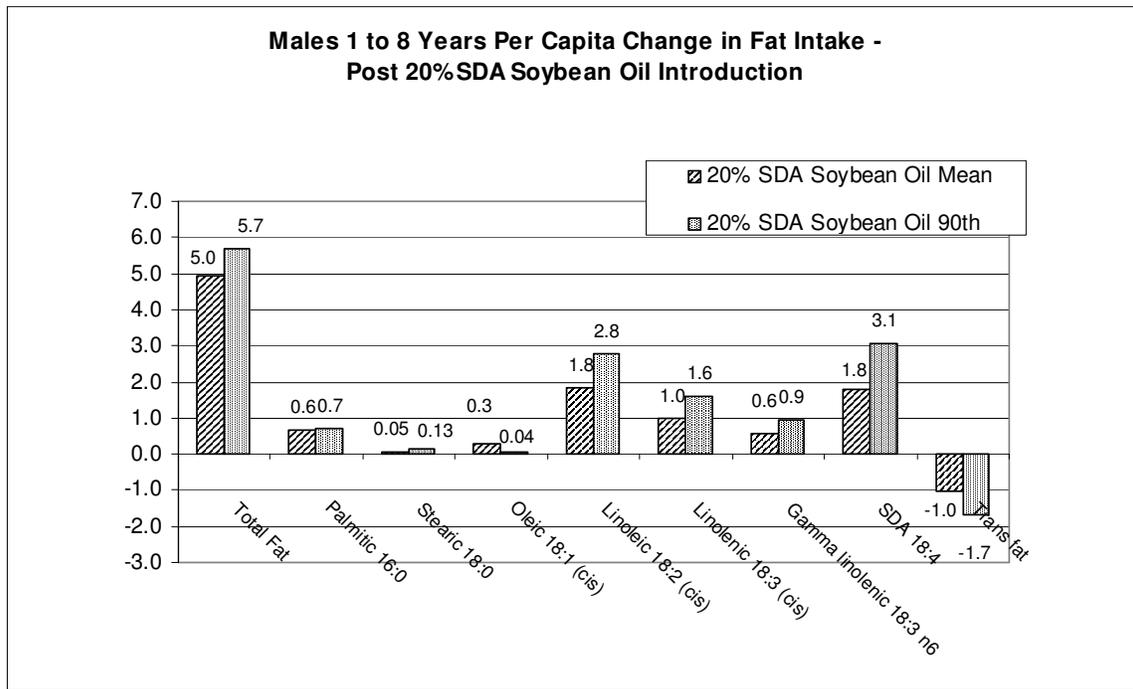
Adult females 50+ years' *per capita* average SDA intake increased by 2.0 g/day (3.7 g/day, 90<sup>th</sup> percentile) (Figure 9) resulting in an increase in total dietary SDA intakes from 0.006 g/day to 2.0 g/day at the mean and 0.006 g/day to 3.7 g/day at the 90<sup>th</sup> percentile.

Total fat consumption from selected foods increased by 4.8 g/day (5.9 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat intake from 61.6 g/day to 66.4 g/day. The *per capita* average increases in palmitic, stearic, oleic, LA, ALA and GLA ranged from 0.1 g/day (stearic acid) to 1.3 g/day (LA). Total dietary intake of *trans* fat decreased from 4.6 g/day to 3.8 g/day at the mean (8.6 to 7.4 g/day at the 90<sup>th</sup> percentile). The intake of total SDA soybean oil was 9.6 g/day (17.9 g/day, 90<sup>th</sup> percentile).

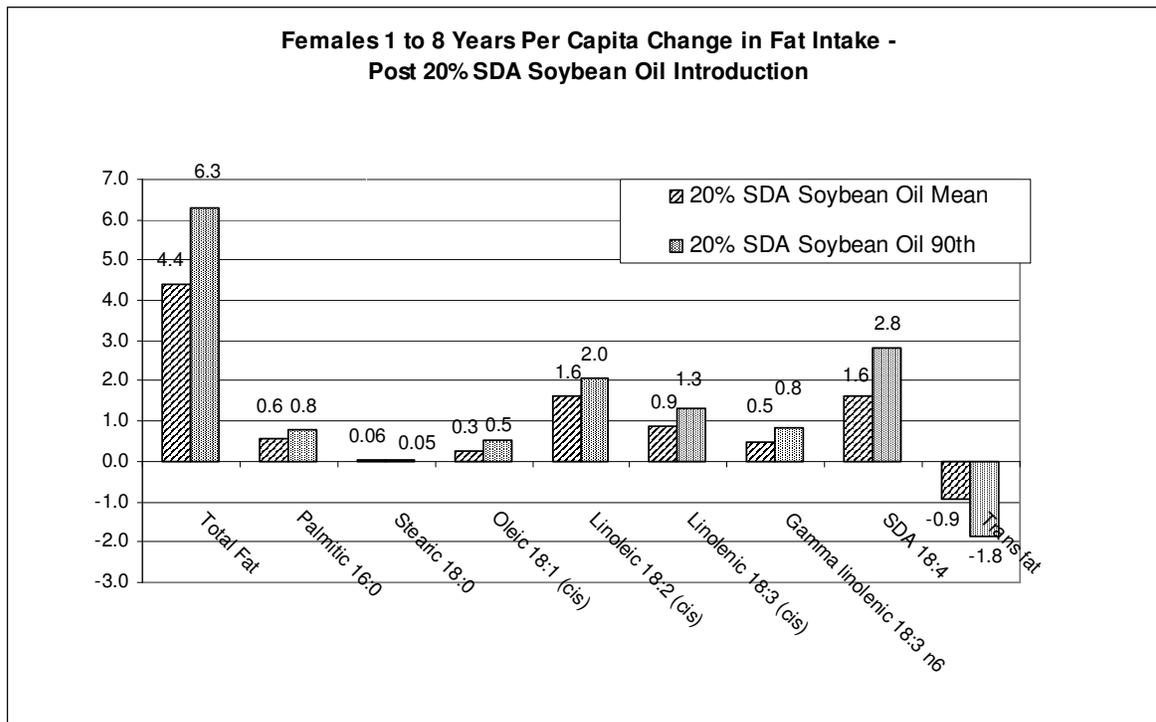
EPA and DHA intakes were not impacted by inclusion of SDA soybean oil in foods proposed for SDA fortification. SDA soybean oil does not contain EPA and DHA and did not replace any sources of these two fatty acids (e.g. fish oil) in the foods proposed for SDA fortification.



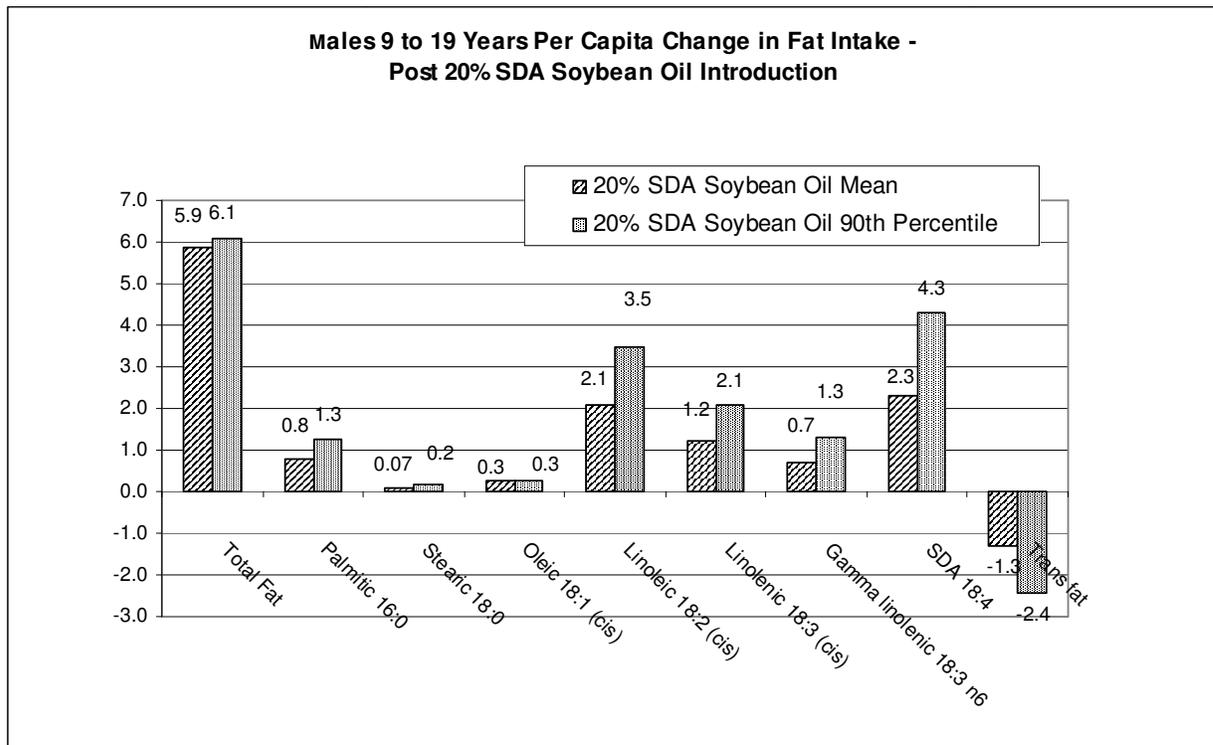
**Figure 1. US population per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**



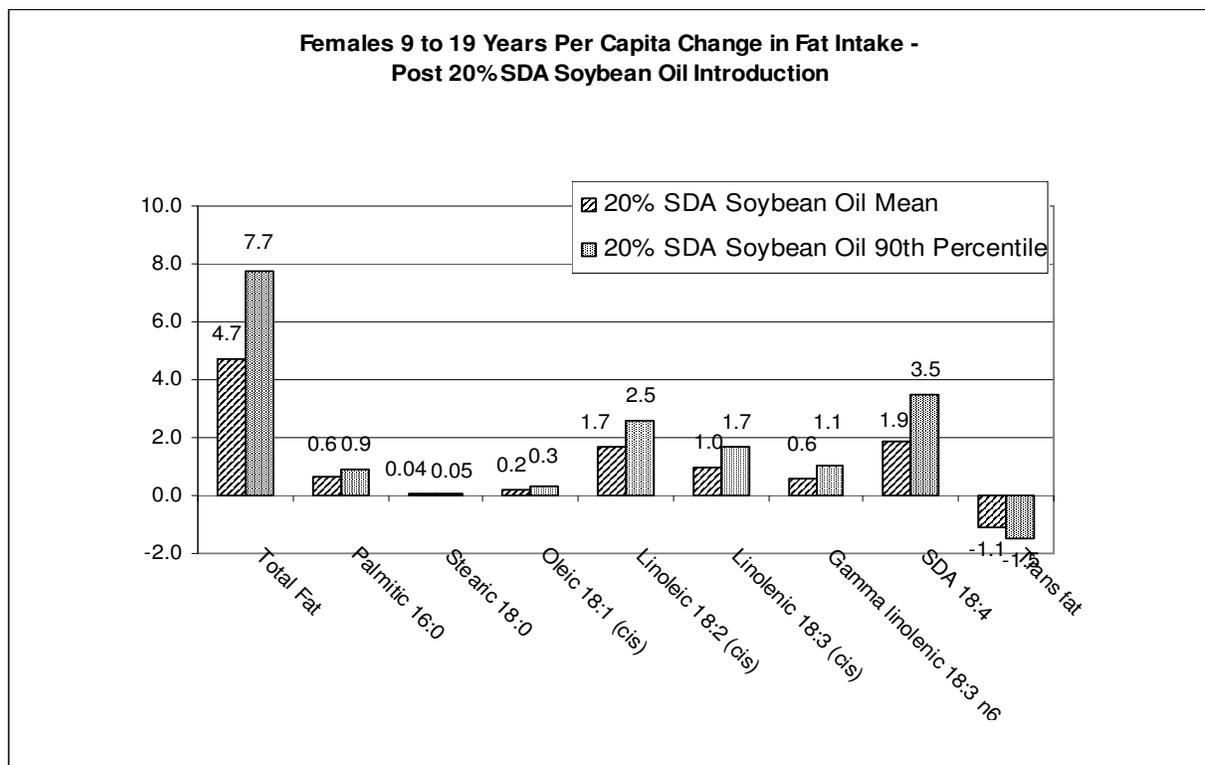
**Figure 2. Males 1-8 years per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**



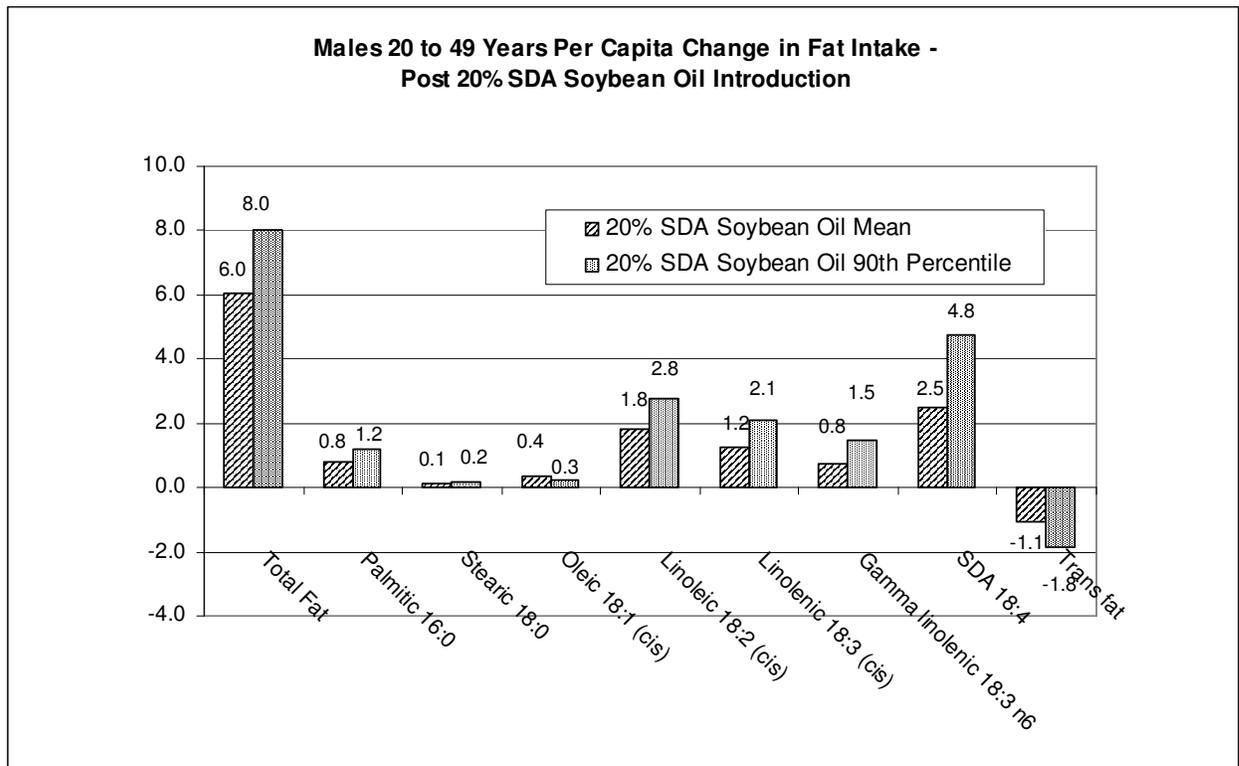
**Figure 3. Females 1-8 years per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**



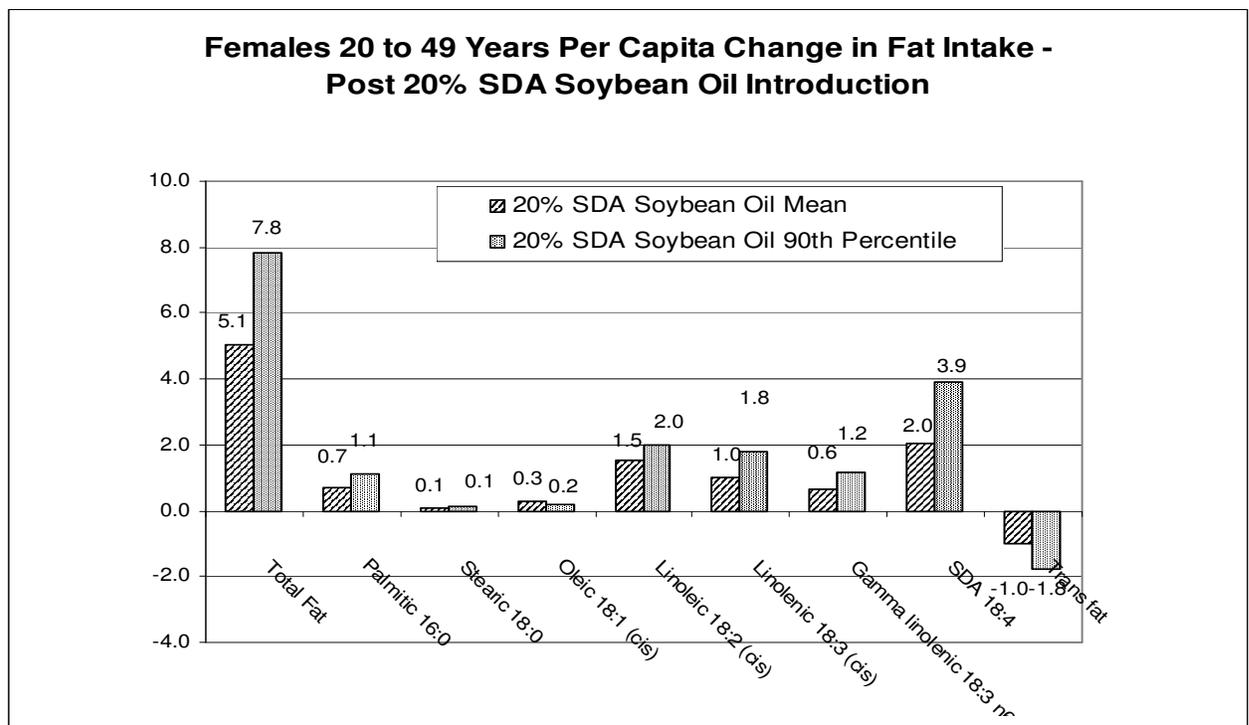
**Figure 4. Males 9-19 years per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**



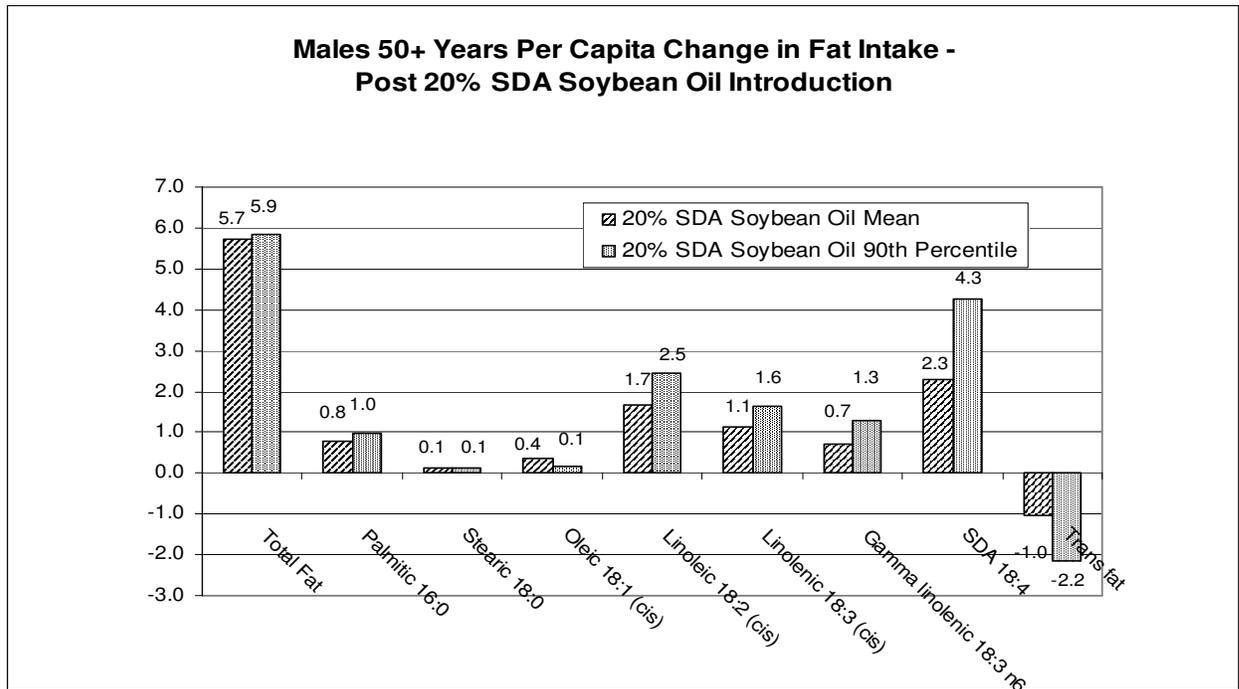
**Figure 5. Females 9-19 years per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**



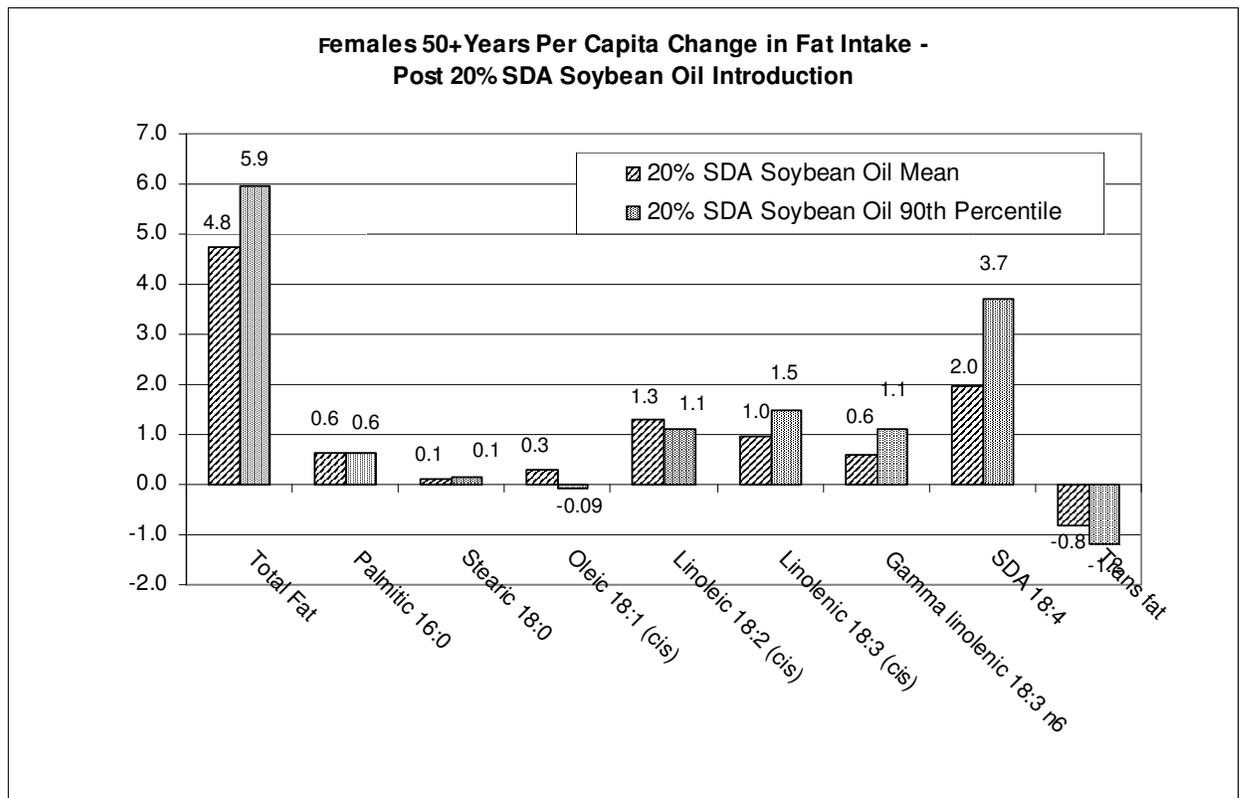
**Figure 6. Males 20-49 years per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**



**Figure 7. Females 20-49 per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**



**Figure 8. Males 50+ years per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**



**Figure 9. Females 50+ years per capita change in fat intake from select foods post 20% SDA soybean oil introduction (g/day).**

**Table 8: US Population Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 20% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>US Population</b>										
Total Fat	78.8	136.5	32.8	69.3	19.8	44.7	25.0	52.3	84.0	143.6
Palmitic 16:0	13.9	24.7	5.4	11.7	2.7	6.3	3.4	7.3	14.6	25.7
Stearic 18:0	7	12.6	2.8	6.2	1.6	3.9	1.7	3.9	7.1	12.7
Oleic 18:1 (cis)	23.4	41.8	9.6	20.5	6.1	14.1	6.4	14.0	23.7	41.9
LA 18:2 (cis)	10.1	19.5	5.5	12.8	4.2	10.0	5.8	12.3	11.8	21.9
ALA 18:3 (cis)	0.9	1.8	0.4	1.1	0.4	0.9	1.4	2.8	1.9	3.6
GLA 18:3 n6 <sup>3</sup>	0.03	0.1	0.02	0.1	0.012	0.03	0.7	1.3	0.7	1.3
SDA 18:4	0.004	0.004	0	0	0	0	2.1	4.1	2.1	4.1
<i>Trans</i> fat	5.9	11.6	3.1	6.9	2.6	6.3	1.6	3.8	4.9	9.8
EPA (20:5)	0.02	0.06	0.01	0.01	0	0	NC <sup>4</sup>	NC	0.02	0.06
DHA (22:6)	0.02	0.06	0.004	0.01	0	0	NC	NC	0.02	0.06

<sup>1</sup>List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES consumers are 17605, equivalent to 96% of the US population.

<sup>2</sup>Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.8 grams of oil per serving. Serving sizes based upon FDA’s reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup>GLA (18:3 n6) is only quantified in the Post 20% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA.

<sup>4</sup>NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.

**Table 9: Children 1-8 Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 20% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>Males 1-8 years</b>										
Total Fat	66.9	105.5	30.1	61.0	18.0	38.6	23.0	45.2	71.9	111.2
Palmitic 16:0	12.5	20	5.0	10.4	2.7	6.2	3.3	6.9	13.1	20.7
Stearic 18:0	6.3	10.2	2.6	5.6	1.7	4.0	1.8	3.9	6.3	10.3
Oleic 18:1 (cis)	19.5	32.9	9.0	19.4	5.7	12.9	6.0	12.2	19.8	32.9
LA 18:2 (cis)	7.3	13	4.2	8.9	3.0	6.9	4.8	9.3	9.1	15.8
ALA 18:3 (cis)	0.6	1	0.3	0.6	0.2	0.5	1.2	2.1	1.6	2.6
GLA 18:3 n6 <sup>3</sup>	0.02	0.05	0.02	0.05	0.007	0.02	0.6	1.0	0.6	1.0
SDA 18:4	0.002	0.001	0	0	0	0	1.8	3.1	1.8	3.1
<i>Trans</i> fat	5.5	9.8	3.2	6.6	2.6	6.2	1.6	3.6	4.4	8.1
EPA (20:5)	0.01	0.03	0.003	0.01	NC <sup>4</sup>	NC	NC	NC	0.01	0.03
DHA (22:6)	0.02	0.05	0.004	0.01	NC	NC	NC	NC	0.02	0.05
<b>Females 1-8 years</b>										
Total Fat	58.9	92.8	26.3	51.3	15.4	32.6	19.8	37.5	63.3	99.1
Palmitic 16:0	11	17.9	4.4	8.9	2.2	4.8	2.8	5.4	11.5	18.7
Stearic 18:0	5.5	9	2.3	4.8	1.4	3.2	1.5	3.1	5.6	9.0
Oleic 18:1 (cis)	17.1	27.9	7.8	15.9	4.9	10.7	5.2	10.4	17.4	28.5
LA 18:2 (cis)	6.5	11.5	3.7	7.7	2.6	5.9	4.2	8.2	8.1	13.6
ALA 18:3 (cis)	0.5	1.0	0.3	0.6	0.2	0.5	1.1	1.9	1.4	2.3
GLA 18:3 n6 <sup>3</sup>	0.02	0.04	0.01	0.04	0.006	0.01	0.5	0.9	0.5	0.9
SDA 18:4	0.001	0.001	0	0	0	0	1.6	2.8	1.6	2.8
<i>Trans</i> fat	4.8	8.8	2.8	6.0	2.4	5.1	1.4	3.1	3.9	6.9
EPA (20:5)	0.01	0.03	0.003	0.01	NC <sup>4</sup>	NC	NC	NC	0.01	0.03
DHA (22:6)	0.01	0.05	0.004	0.008	NC	NC	NC	NC	0.01	0.05

<sup>1</sup> List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES male consumers are 1618, 99% of the population, while 1523 females were consumers also equivalent to 99% of the female population.

<sup>2</sup> Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.8 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup> GLA (18:3 n6) is only quantified in the Post 20% and 20% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA.

<sup>4</sup> NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.

**Table 10: Young Adults 9-19 Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 20% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>Males 9-19 years</b>										
Total Fat	91.8	157.4	37.7	78.3	23.0	49.8	28.9	59.4	97.6	163.5
Palmitic 16:0	17	29.6	6.3	13.6	3.2	7.1	4.0	8.2	17.8	30.8
Stearic 18:0	8.6	14.9	3.3	7.2	2.0	4.7	2.1	4.6	8.7	15.0
Oleic 18:1 (cis)	27.6	47.1	11.2	23.2	7.2	15.8	7.5	15.8	27.9	47.3
LA 18:2 (cis)	11.1	20.4	6.0	14.0	4.5	11.1	6.6	14.2	13.1	23.9
ALA 18:3 (cis)	0.9	1.6	0.4	1.0	0.4	0.9	1.6	3.0	2.1	3.7
GLA 18:3 n6 <sup>3</sup>	0.03	0.1	0.03	0.1	0.010	0.03	0.7	1.3	0.7	1.4
SDA 18:4	0.001	0.001	0	0	0	0	2.3	4.3	2.3	4.3
Trans fat	7.5	14.2	3.9	8.7	3.3	7.7	2.0	4.6	6.2	11.8
EPA (20:5)	0.02	0.1	0.01	0.02	0	0	NC	NC	0.02	0.1
DHA (22:6)	0.02	0.1	0.01	0.01	0	0	NC	NC	0.02	0.1
<b>Females 9-19 years</b>										
Total Fat	71.5	117.4	30.9	63.4	18.6	42.7	23.3	49.3	76.2	125.1
Palmitic 16:0	13	22.7	5.2	11.0	2.5	5.6	3.1	6.5	13.6	23.6
Stearic 18:0	6.6	11.3	2.7	5.9	1.5	3.7	1.6	3.4	6.7	11.4
Oleic 18:1 (cis)	21.1	35.2	9.0	18.8	5.9	13.7	6.0	13.1	21.2	35.5
LA 18:2 (cis)	9	17.5	5.1	11.7	3.8	9.2	5.5	11.2	10.7	20.0
ALA 18:3 (cis)	0.7	1.4	0.4	0.9	0.3	0.8	1.3	2.5	1.7	3.1
GLA 18:3 n6 <sup>3</sup>	0.03	0.07	0.02	0.1	0.008	0.02	0.6	1.1	0.6	1.1
SDA 18:4	0.002	0.001	0	0	0	0	1.9	3.5	1.9	3.5
Trans fat	6.1	11.5	3.2	6.9	2.8	6.9	1.7	4.1	5.0	10.0
EPA (20:5)	0.02	0.04	0.003	0.01	0	0	NC	NC	0.02	0.04
DHA (22:6)	0.02	0.05	0.005	0.009	0	0	NC	NC	0.02	0.05

<sup>1</sup>List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES male consumers are 2593, 94% of the population, while 2615 females were consumers also equivalent to 94% of the female population.

<sup>2</sup>Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.8 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup>GLA (18:3 n6) is only quantified in the Post 20% and 20% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA.

<sup>4</sup>NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.

**Table 11: Adults 20-49 Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 20% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>Males 20-49 years</b>										
Total Fat	102.2	173.8	39.8	84.8	23.8	53.8	29.9	63.6	108.2	181.8
Palmitic 16:0	18.3	32.4	6.7	15.1	3.3	7.9	4.1	8.9	19.1	33.5
Stearic 18:0	9.1	16.1	3.5	7.6	2.0	5.0	2.1	4.9	9.2	16.3
Oleic 18:1 (cis)	30.8	53.1	11.7	26.1	7.4	16.9	7.7	17.0	31.2	53.3
LA 18:2 (cis)	12.9	24.4	6.7	16.3	5.1	12.4	7.0	14.5	14.7	27.2
ALA 18:3 (cis)	1.1	2.2	0.5	1.4	0.5	1.2	1.7	3.4	2.3	4.3
GLA 18:3 n6 <sup>3</sup>	0.04	0.09	0.03	0.07	0.01	0.04	0.8	1.5	0.8	1.5
SDA 18:4	0.006	0.006	0	0	0	0	2.5	4.8	2.5	4.8
<i>Trans</i> fat	7.2	13.9	3.5	8.1	2.9	7.3	1.8	4.5	6.1	12.1
EPA (20:5)	0.03	0.09	0.007	0.02	0	0	NC <sup>4</sup>	NC	0.03	0.09
DHA (22:6)	0.02	0.07	0.004	0.009	0	0	NC	NC	0.02	0.07
<b>Females 20-49 years</b>										
Total Fat	72.7	121.6	31.7	66.5	19.0	42.9	24.1	49.5	77.8	129.4
Palmitic 16:0	12.7	21.6	5.2	11.1	2.5	5.8	3.2	6.8	13.4	22.8
Stearic 18:0	6.4	11	2.7	5.9	1.5	3.7	1.6	3.6	6.5	11.1
Oleic 18:1 (cis)	21.5	36.4	9.3	19.5	6.0	13.7	6.2	13.5	21.8	36.6
LA 18:2 (cis)	9.8	18.2	5.5	12.4	4.2	9.7	5.7	11.7	11.3	20.2
ALA 18:3 (cis)	0.9	1.7	0.5	1.1	0.4	0.9	1.4	2.7	1.9	3.4
GLA 18:3 n6 <sup>3</sup>	0.03	0.1	0.02	0.06	0.012	0.03	0.6	1.2	0.7	1.3
SDA 18:4	0.004	0.005	0.001	0	0	0	2.0	3.9	2.0	3.9
<i>Trans</i> fat	5.5	10.4	3.0	6.6	2.5	6.1	1.5	3.6	4.5	8.6
EPA (20:5)	0.02	0.05	0.005	0.02	0	0	NC	NC	0.02	0.05
DHA (22:6)	0.02	0.05	0.004	0.009	0	0	NC	NC	0.02	0.05

<sup>1</sup>List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES male consumers are 2012, 95% of the population, while 2551 females were consumers also equivalent to 97% of the female population.

<sup>2</sup>Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.8 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup>GLA (18:3 n6) is only quantified in the Post 20% and 20% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA

<sup>4</sup>NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.

**Table 12: Adults 50+ Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 20% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>Males 50+ years</b>										
Total Fat	84.7	140	34.2	70.1	21.1	45.8	26.8	53.2	90.4	145.9
Palmitic 16:0	14.5	24.5	5.4	11.2	2.9	6.7	3.7	7.6	15.2	25.5
Stearic 18:0	7.5	12.7	2.9	6.5	1.7	4.1	1.9	4.0	7.6	12.9
Oleic 18:1 (cis)	25.2	43	9.9	20.3	6.5	14.7	6.9	14.5	25.5	43.1
LA 18:2 (cis)	11.1	21.1	5.9	14.1	4.6	11.0	6.3	13.1	12.8	23.5
ALA 18:3 (cis)	1	2.2	0.5	1.3	0.4	1.0	1.6	3.0	2.1	3.8
GLA 18:3 n6 <sup>3</sup>	0.04	0.08	0.03	0.07	0.01	0.04	0.7	1.3	0.7	1.4
SDA 18:4	0.008	0.01	0	0	0	0	2.3	4.3	2.3	4.3
Trans fat	6.1	11.7	3.2	7.2	2.5	6.3	1.5	3.7	5.1	9.6
EPA (20:5)	0.008	0.010	0.006	0.02	NC <sup>4</sup>	NC	NC	NC	0.008	0.010
DHA (22:6)	0.03	0.08	0.003	0.006	NC	NC	NC	NC	0.03	0.08
<b>Females 50+ years</b>										
Total Fat	61.6	107.2	27.5	57.9	16.7	37.9	21.5	44.9	66.4	113.1
Palmitic 16:0	10.3	18.2	4.3	9.2	2.2	5.1	2.9	6.1	10.9	18.8
Stearic 18:0	5.2	9.3	2.3	4.9	1.3	3.0	1.4	2.9	5.3	9.5
Oleic 18:1 (cis)	17.8	31.4	7.8	16.5	5.1	11.9	5.4	11.7	18.1	31.3
LA 18:2 (cis)	8.8	17.8	5.0	11.9	3.9	8.9	5.2	10.7	10.1	18.9
ALA 18:3 (cis)	0.8	1.7	0.5	1.2	0.4	0.9	1.3	2.5	1.8	3.2
GLA 18:3 n6 <sup>3</sup>	0.03	0.07	0.02	0.06	0.01	0.03	0.6	1.2	0.6	1.2
SDA 18:4	0.006	0.006	0	0	0	0	2.0	3.7	2.0	3.7
Trans fat	4.6	8.6	2.6	5.6	2.1	5.0	1.3	3.0	3.8	7.4
EPA (20:5)	0.02	0.05	0.003	0.01	NC <sup>4</sup>	NC	NC	NC	0.02	0.05
DHA (22:6)	0.02	0.1	0.003	0.006	NC	NC	NC	NC	0.02	0.1

<sup>1</sup>List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES male consumers are 2052, 98% of the population, while 2088 females were consumers also equivalent to 98% of the female population.

<sup>2</sup>Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.8 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup>GLA (18:3 n6) is only quantified in the Post 20% and 20% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA.

<sup>4</sup>NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.



**Table 13: Per Capita Intake of SDA Soybean Oil Post 20% SDA Soybean Oil Introduction<sup>1,2</sup>**

Population Group	20% SDA Soybean Oil Intake (g/day)		20% SDA Soybean Oil Intake (g/kg/day)	
	Per Capita Mean	Per Capita 90 <sup>th</sup> Percentile	Per Capita Mean	Per Capita 90 <sup>th</sup> Percentile
US population	10.1	19.6	0.18	0.38
Males 1-8 years	8.8	14.8	0.45	0.80
Females 1-8 years	7.8	13.5	0.41	0.73
Males 9-19 years	11.0	20.8	0.21	0.42
Females 9-19 years	9.1	16.7	0.18	0.35
Males 20-49 years	11.9	23.1	0.14	0.28
Females 20-49 years	9.9	19.0	0.14	0.28
Males 50+ years	11.1	20.6	0.13	0.25
Females 50+ years	9.6	17.9	0.14	0.26

<sup>1</sup> The amount of SDA soybean oil consumed was calculated for each NHANES participant by subtracting the amount of SDA consumed at baseline from the POST SDA inclusion intake of SDA and dividing by 20.7% (SDA content of 20% SDA) (g/day) and divided by each individual's bodyweight (g/kg/day).

<sup>2</sup> Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.8 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

**Table 14: Current and Post 20% SDA Soybean Oil Introduction Per Capita Intake of SDA (18:4 n3) (mg/kg/day)**

Population Group	Current Total Dietary Intake of SDA (18:4 n3) (mg/kg/day) <sup>1</sup>		Post 20% <sup>2</sup> SDA Soybean Oil Introduction Total Dietary Intake of SDA (18:4 n3) (mg/kg/day)	
	Per Capita Mean	Per Capita 90 <sup>th</sup> Percentile <sup>3</sup>	Per Capita Mean	Per Capita 90 <sup>th</sup> Percentile
US Population	0.07	0.06	37	80
Males 1-8 years	0.08	0.04	92	165
Females 1-8 years	0.07	0.04	85	152
Males 9-19 years	0.03	0.02	43	87
Females 9-19 years	0.04	0.03	37	74
Males 20-49 years	0.07	0.07	30	58
Females 20-49 years	0.06	0.07	29	59
Males 50+ years	0.09	0.12	27	51
Females 50+ years	0.09	0.09	28	54

<sup>1</sup> Based on NHANES 1999-2002 food and nutrient intake data.

<sup>2</sup> Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.8 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup> When intake at the 90<sup>th</sup> percentile is lower than the mean, fewer than 10% of the population had reported intakes of SDA.

## Results 30% SDA

Figures 10 through 18 provide a comparison of the mean and 90<sup>th</sup> percentile change in fatty acid intakes from selected foods (See Table 1 and Appendix 2) when the 30% SDA soybean oil is incorporated into 31 categories of foods. These values were calculated by subtracting the total dietary fatty acid intakes from the total dietary fatty acid intakes after 30% SDA soybean oil introduction.

The raw data are provided in Tables 15-19. *Per capita* results are provided. For all populations analyzed, at least 93% of the population reported consuming at least one of the selected foods; therefore, the per capita and per user results are nearly identical. Per capita SDA soybean oil consumption is provided in Table 20. The current and post 30% SDA soybean oil inclusion-total dietary intake of SDA expressed on a bodyweight basis is provided in Table 21.

### 30% SDA Soybean Oil Introduction

#### US Population

Average SDA intake from selected foods increased from 0.004 g/day to 2.2 g/day (0.004 g/day to 4.2 g/day at the 90<sup>th</sup> percentile) (Figure 10). This change was accompanied by an increase in mean per capita fat consumption in the overall US population of 3.3 g/day (4.3 g/day, 90<sup>th</sup> percentile) from 78.8 g/day to 82.1 g/day<sup>7</sup>. The introduction had smaller impacts on the intakes of the remaining six fatty acids. Intakes of palmitic acid (16:0) increased by 0.5 g/day (0.6 g/day, 90<sup>th</sup> percentile). Intakes of stearic acid (18:0) decreased slightly at the mean 0.04 g/day (0.1 g/day, 90<sup>th</sup> percentile), while oleic acid (18:1c) decreased by 0.2 g/day at the mean (0.6 g/day, 90<sup>th</sup> percentile), and LA (18:2c) increased 0.9 g/day at the mean (1.3 g/day, 90<sup>th</sup> percentile). Average intake of ALA (18:3c) increased slightly by 0.8 g/day (1.3 g/day, 90<sup>th</sup> percentile). Similarly, intakes of GLA from selected foods (18:3n6) increased by 0.6 g/day (1.1 g/day, 90<sup>th</sup> percentile). Total dietary intake of *trans* fat decreased from 5.9 g/day to 5.0 g/day at the mean (11.6 to 9.9 g/day at the 90<sup>th</sup> percentile). Total SDA soybean oil intake was 7.6 g/day (14.8 g/day, 90<sup>th</sup> percentile).

<sup>7</sup> Results presented are expressed in terms of the total dietary intake

### Males 1-8 Years

In males aged 1-8 years, the *per capita* average SDA intake increased by 1.9 g/day (3.2 g/day, 90<sup>th</sup> percentile) (Figure 11) raising average total dietary SDA intake from 0.002 g/day to 1.9 g/day which was accompanied by an increase in total fat consumption (3.2 g/day, mean; 3.4 g/day, 90<sup>th</sup> percentile), bringing average total dietary fat intake from 66.9 g/day to 70.1 g/day. The average increases in palmitic, LA, ALA, and GLA ranged from 0.4 g/day (palmitic acid) to 1.1 g/day (LA). Average intakes of stearic and oleic acids decreased by 0.06 and 0.2 g/day. Total dietary intake of *trans* fat decreased from 5.5 g/day to 4.5 g/day at the mean (9.8 to 8.2 g/day at the 90<sup>th</sup> percentile). The intake of 30% SDA soybean oil was 6.5 g/day (11.0 g/day, 90<sup>th</sup> percentile).

### Females 1-8 Years

In females aged 1-8 years, the *per capita* average SDA intake increased by 1.7 g/day (2.9 g/day, 90<sup>th</sup> percentile) (Figure 12) raising average total dietary SDA intake from 0.001 g/day to 1.7 g/day which was accompanied by an increase in total fat consumption (2.8 g/day, mean; 3.9 g/day, 90<sup>th</sup> percentile), bringing average total dietary fat intake from 58.9 g/day to 61.7 g/day. The average increases in palmitic, LA, ALA, and GLA ranged from 0.4 g/day (palmitic and GLA) to 1.0 g/day (LA). Intake of stearic and oleic acids from selected foods decreased by 0.06 g/day and 0.2 g/day, respectively (0.08 and 0.2 g/day decreases occurred at the 90<sup>th</sup> percentile). Total dietary intake of *trans* fat decreased from 4.8 g/day to 3.9 g/day at the mean (8.8 to 7.1 g/day at the 90<sup>th</sup> percentile). The intake of 30% SDA soybean oil was 5.8 g/day (10.0 g/day, 90<sup>th</sup> percentile).

### Males 9-19 Years

*Per capita* average SDA intake by teenage males 9-19 years increased by 2.3 g/day (4.4 g/day, 90<sup>th</sup> percentile) (Figure 13) resulting in total dietary intakes increasing from 0.001 g/day to 2.3 g/day (0.001 g/day to 4.4 g/day at the 90<sup>th</sup> percentile). Total fat consumption increased by 3.7 g/day (3.3 g/day, 90<sup>th</sup> percentile) resulting in average total dietary fat intake increases from 91.8 g/day to 95.4 g/day. The average increases in palmitic, LA, ALA, and GLA ranged from 0.5 g/day (palmitic) to 1.3 g/day (LA). Average daily intakes of stearic and oleic acids by teenage males were lowered by 0.1 and 0.3 g/day, respectively (0.1 and 0.7 g/day at the 90<sup>th</sup> percentile, respectively). Total dietary intake of *trans* fat decreased from

7.5 g/day to 6.3 g/day at the mean (14.2 to 11.9 g/day at the 90<sup>th</sup> percentile). The intake of 30% SDA soybean oil was 8.2 g/day (15.4 g/day, 90<sup>th</sup> percentile).

### Females 9-19 Years

*Per capita* average SDA intake by teenage females 9-19 years increased by 1.9 g/day (3.5 g/day, 90<sup>th</sup> percentile) (Figure 14) resulting in an increase in total dietary SDA intakes from 0.002 g/day to 1.9 g/day (0.001 g/day to 3.5 g/day at the 90<sup>th</sup> percentile). Total fat consumption from select foods increased by 3.0 g/day (5.5 g/day, 90<sup>th</sup> percentile) resulting in an increase of total dietary fat intake from 71.5 g/day to 74.5 g/day. The average increases in palmitic, LA, ALA and GLA ranged from 0.4 g/day (palmitic acid) to 1.1 g/day (LA). Intakes of stearic and oleic acids were lowered by 0.08 and 0.3 g/day, respectively (0.2 and 0.5 g/day decreases at the 90<sup>th</sup> percentile, respectively). Total dietary intake of *trans* fat decreased from 6.1 g/day to 5.0 g/day at the mean (11.5 to 9.9 g/day at the 90<sup>th</sup> percentile). The intake of 30% SDA soybean oil was 6.7 g/day (12.2 g/day, 90<sup>th</sup> percentile).

### Males 20-49 Years

*Per capita* average SDA intake by adult males 20-49 years increased by 2.6 g/day (5.1 g/day, 90<sup>th</sup> percentile) (Figure 15) resulting in an increase in total dietary SDA intakes from 0.006 g/day to 2.6 g/day (0.006 g/day to 5.1 g/day at the 90<sup>th</sup> percentile). The SDA increase was accompanied by an increase in total fat consumption from selected foods of 3.8 g/day (5.4 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat intake from 102.2 g/day to 106.0 g/day. The average changes in palmitic, LA, ALA and GLA ranged from 0.5 g/day (palmitic acid) to 0.9 g/day (LA and ALA). Intakes of stearic and oleic acids decreased by 0.04 and 0.3 g/day, respectively. Stearic acid increased by 0.04 g/day at the 90<sup>th</sup> percentile and oleic acid decreased by 0.7 g/day at the 90<sup>th</sup> percentile. Total dietary intake of *trans* fat decreased from 7.2 g/day to 6.2 g/day at the mean (13.9 to 12.4 g/day at the 90<sup>th</sup> percentile). The intake of 30% SDA soybean oil was 9.0 g/day (17.9 g/day, 90<sup>th</sup> percentile).

### Females 20-49 Years

Adult females 20-49 years' *per capita* average SDA intake increased by 2.1 g/day (4.1 g/day, 90<sup>th</sup> percentile) (Figure 16) resulting in an increase in total dietary SDA intakes

from 0.004 g/day to 2.1 g/day at the mean and 0.005 g/day to 4.2 g/day at the 90<sup>th</sup> percentile. This increase was accompanied by an increase in total fat consumption from selected foods of 3.2 g/day (5.0 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat intake from 72.7 g/day to 75.9 g/day. The average increases in palmitic, LA, ALA and GLA ranged from 0.4 g/day (palmitic acid) to 0.8 g/day (LA and ALA). Intakes of stearic and oleic acids decreased by 0.04 and 0.3 g/day, respectively (decreases of 0.2 and 0.4 g/day at the 90<sup>th</sup> percentile, respectively). Total dietary intake of *trans* fat decreased from 5.5 g/day to 4.6 g/day at the mean (10.4 to 8.7 g/day at the 90<sup>th</sup> percentile). The intake of 30% SDA soybean oil was 7.4 g/day (14.4 g/day, 90<sup>th</sup> percentile).

### **Males 50+ Years**

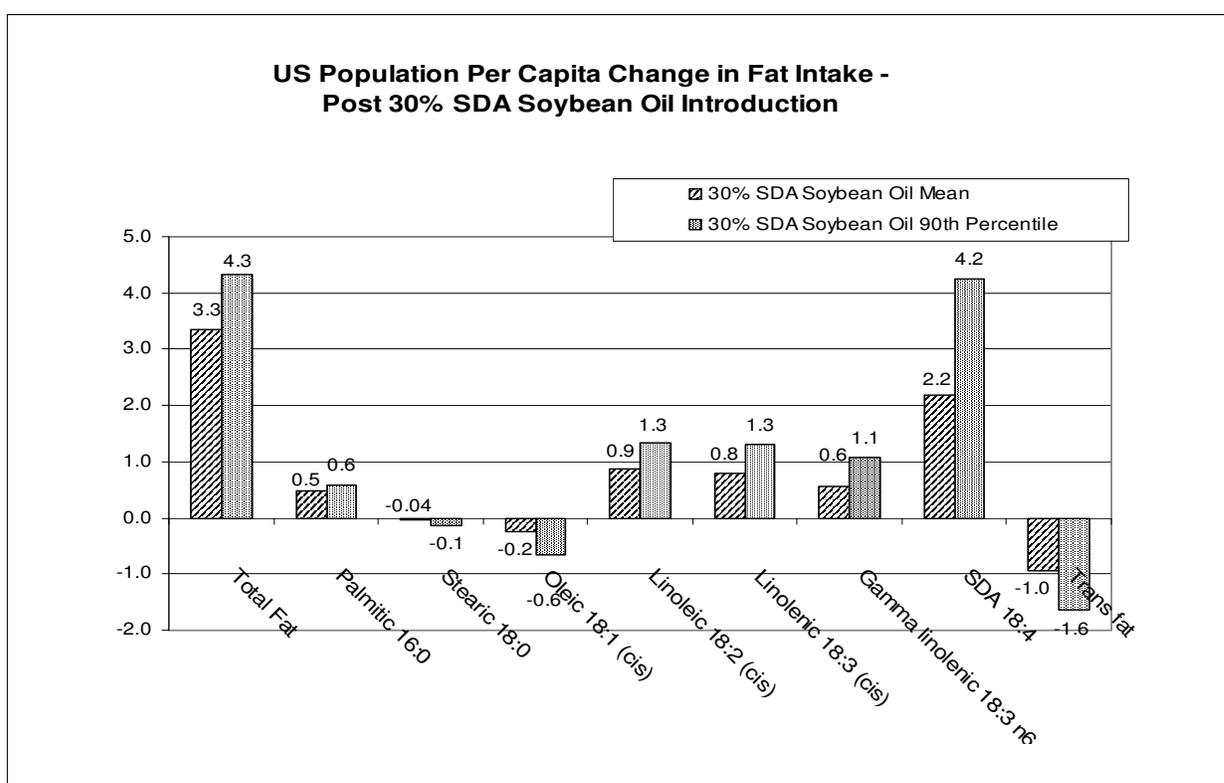
Adult males 50+ years' *per capita* average SDA intake increased by 2.4 g/day (4.4 g/day, 90<sup>th</sup> percentile) (Figure 17) resulting in an increase in total dietary SDA intakes from 0.008 g/day to 2.4 g/day at the mean and from 0.01 g/day to 4.4 g/day at the 90<sup>th</sup> percentile. This was accompanied by an increase in total fat consumption from selected foods of 3.6 g/day (4.6 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat intake from 84.7 g/day to 88.3 g/day. The *per capita* average increases in palmitic, LA, ALA and GLA ranged from 0.5 g/day (palmitic) to 0.8 g/day (LA and ALA). Intakes of stearic and oleic acids decreased by 0.02 and 0.2 g/day, respectively. The intake of stearic acid increased by 0.02 g/day at the 90<sup>th</sup> percentile while the intake of oleic acid at the 90<sup>th</sup> percentile decreased by 0.6 g/day. Total dietary intake of *trans* fat decreased from 6.1 g/day to 5.2 g/day at the mean (11.7 to 9.7 g/day at the 90<sup>th</sup> percentile). The intake of 30% SDA soybean oil was 8.4 g/day (15.5 g/day, 90<sup>th</sup> percentile).

### **Females 50+ Years**

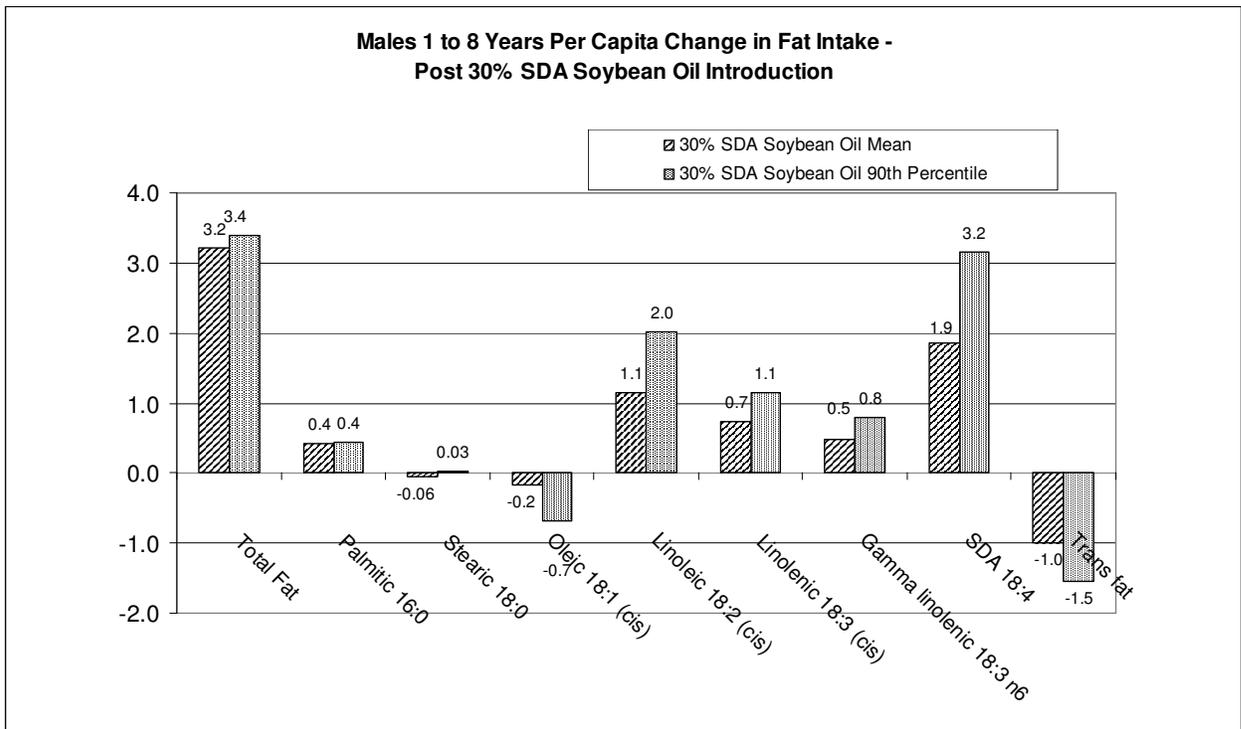
Adult females 50+ years' *per capita* average SDA intake increased by 2.1 g/day (3.9 g/day, 90<sup>th</sup> percentile) (Figure 18) resulting in an increase in total dietary SDA intakes from 0.006 g/day to 2.1 g/day at the mean and 0.006 g/day to 3.9 g/day at the 90<sup>th</sup> percentile. Total fat consumption from selected foods increased by 3.1 g/day (3.5 g/day, 90<sup>th</sup> percentile) resulting in an increase in total dietary fat intake from 61.6 g/day to 64.7 g/day. The *per capita* average increases in palmitic, LA, ALA and GLA ranged from 0.5 g/day (palmitic, LA, and GLA) to 0.7 g/day (ALA). Adult females' *per capita* intake of stearic and oleic

acids decreased by 0.002 and 0.2 g/day, respectively (0.03 and 0.7 g/day, respectively at the 90<sup>th</sup> percentile). Total dietary intake of *trans* fat decreased from 4.6 g/day to 3.9 g/day at the mean (8.6 to 7.5 g/day at the 90<sup>th</sup> percentile). The intake of 30% SDA soybean oil was 7.3 g/day (13.7 g/day, 90<sup>th</sup> percentile).

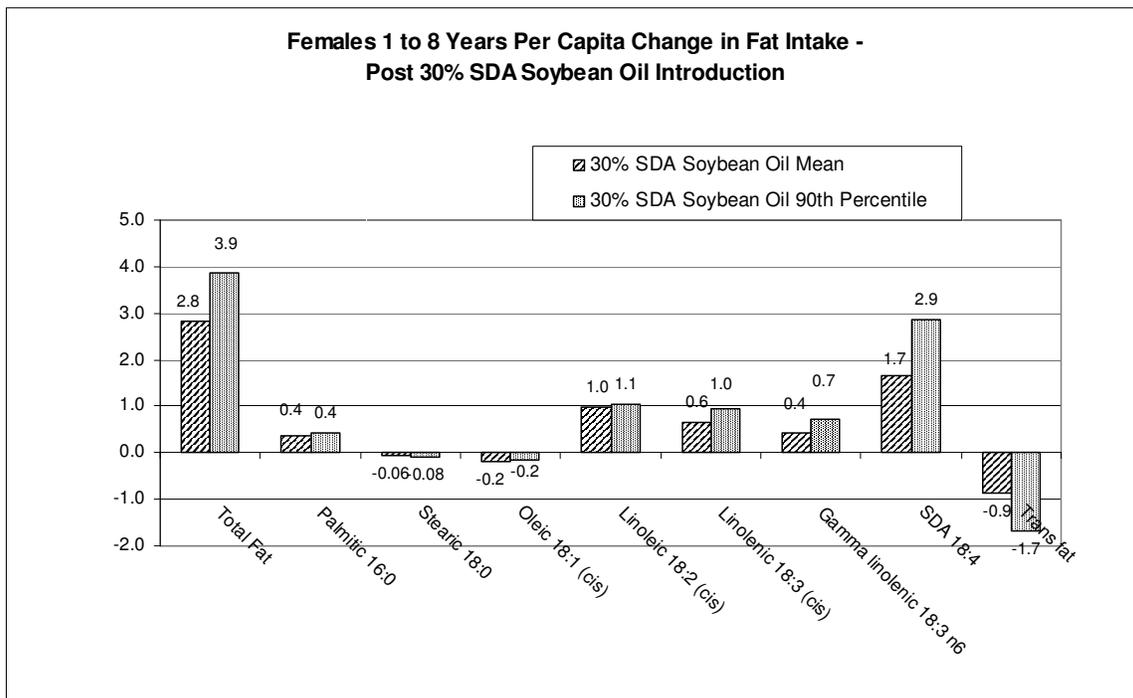
EPA and DHA intakes were not impacted by inclusion of SDA soybean oil in foods proposed for SDA fortification. SDA soybean oil does not contain EPA and DHA and did not replace any sources of these two fatty acids (e.g. fish oil) in foods proposed for SDA fortification.



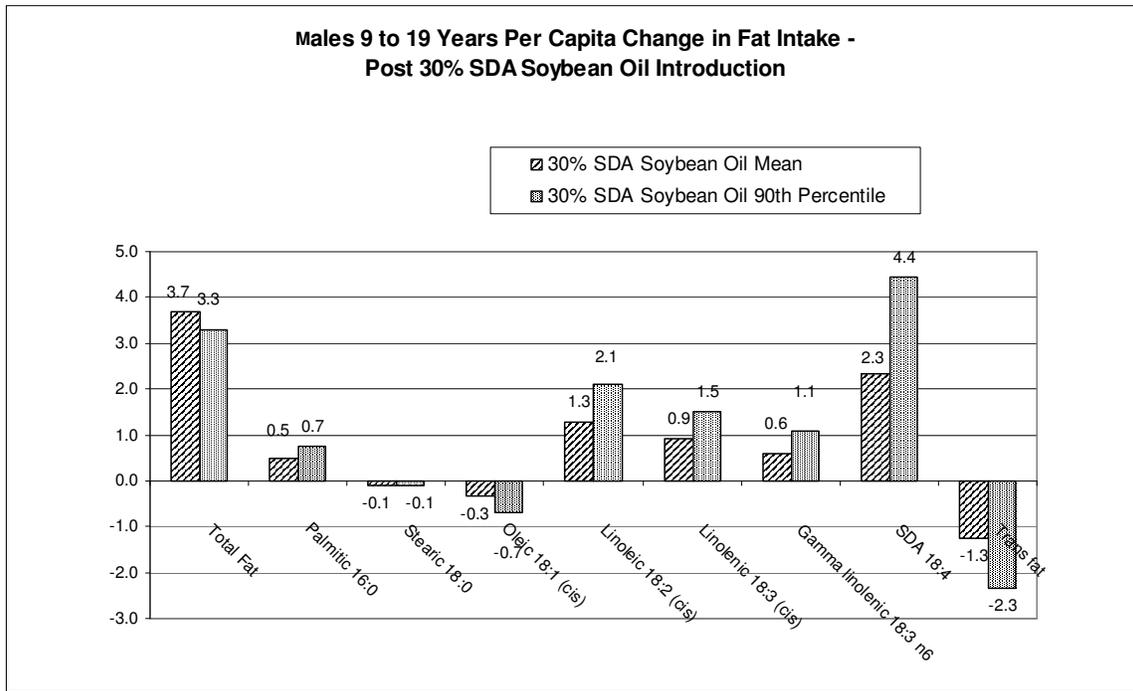
**Figure 10. US population per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).**



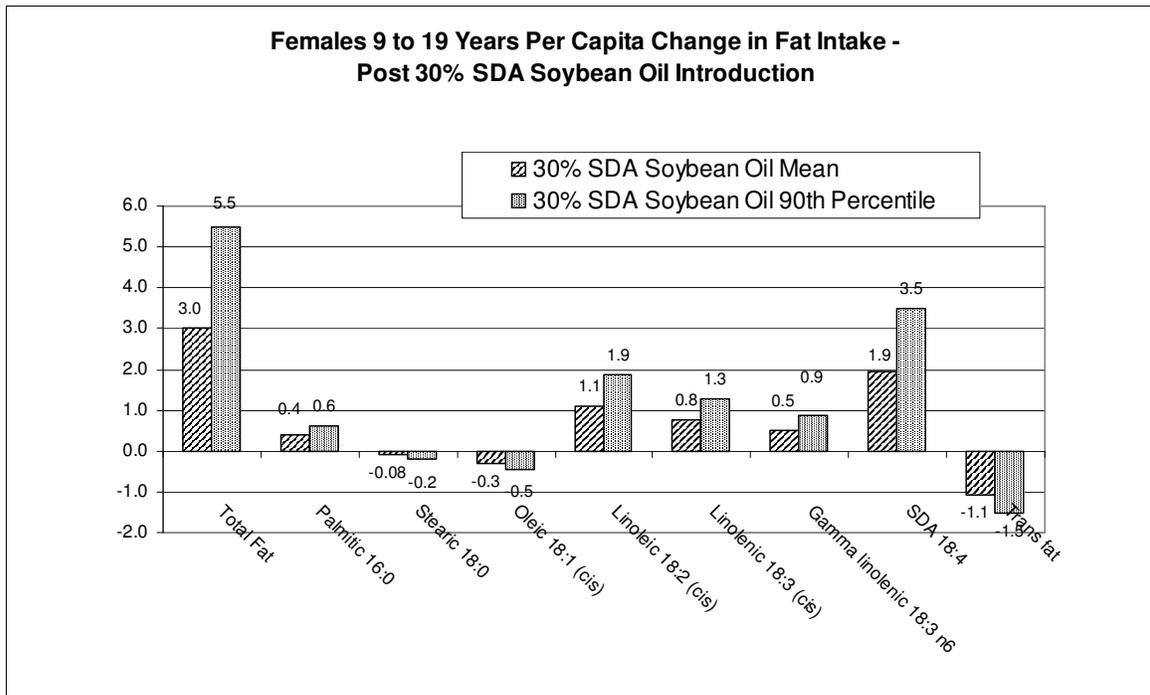
**Figure 11. Males 1-8 years per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).**



**Figure 12. Females 1-8 years per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).**



**Figure 13. Males 9-19 years per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).**



**Figure 14. Females 9-19 years per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).**

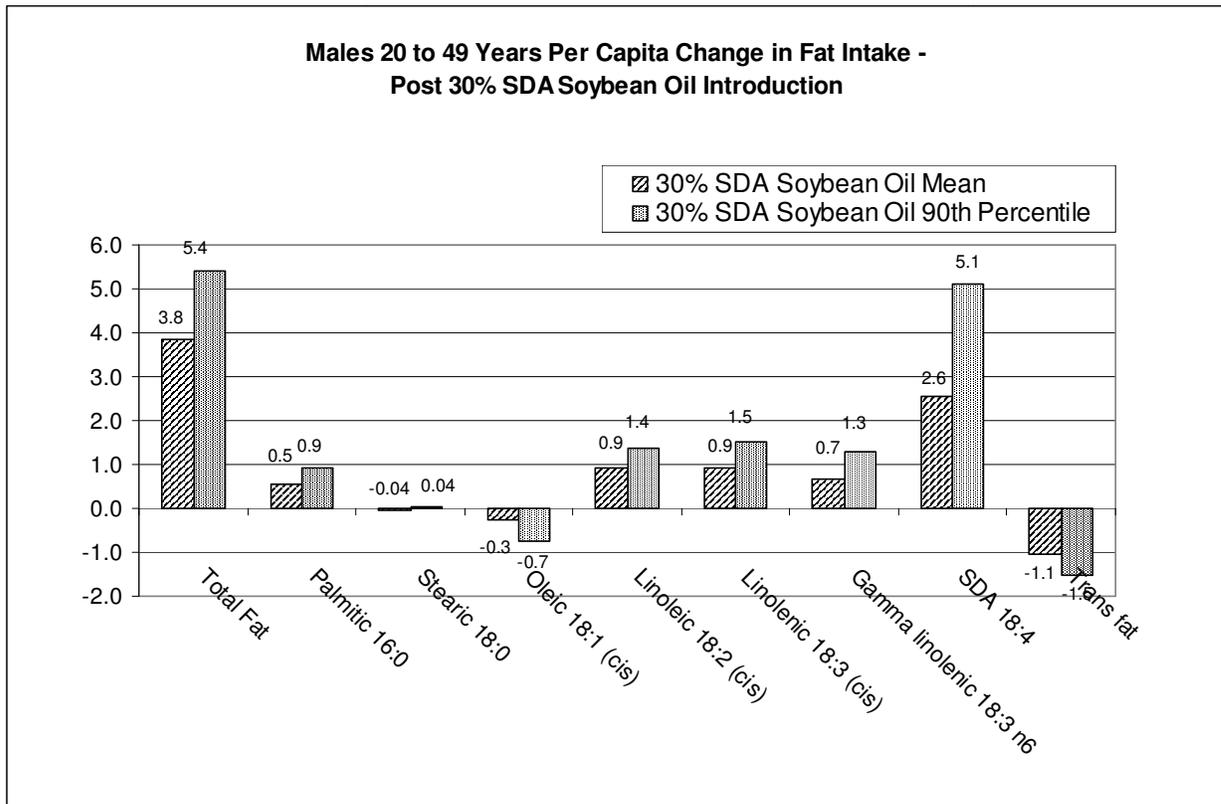


Figure 15. Males 20-49 years per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).

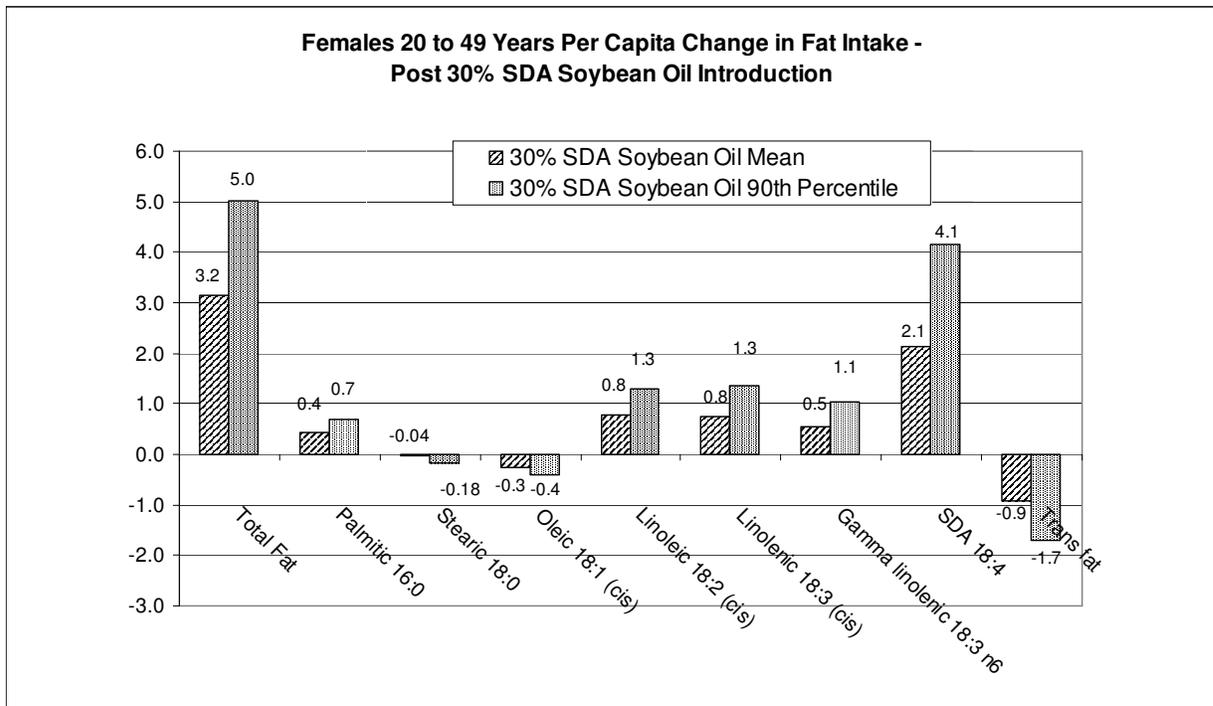


Figure 16. Females 20-49 per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).

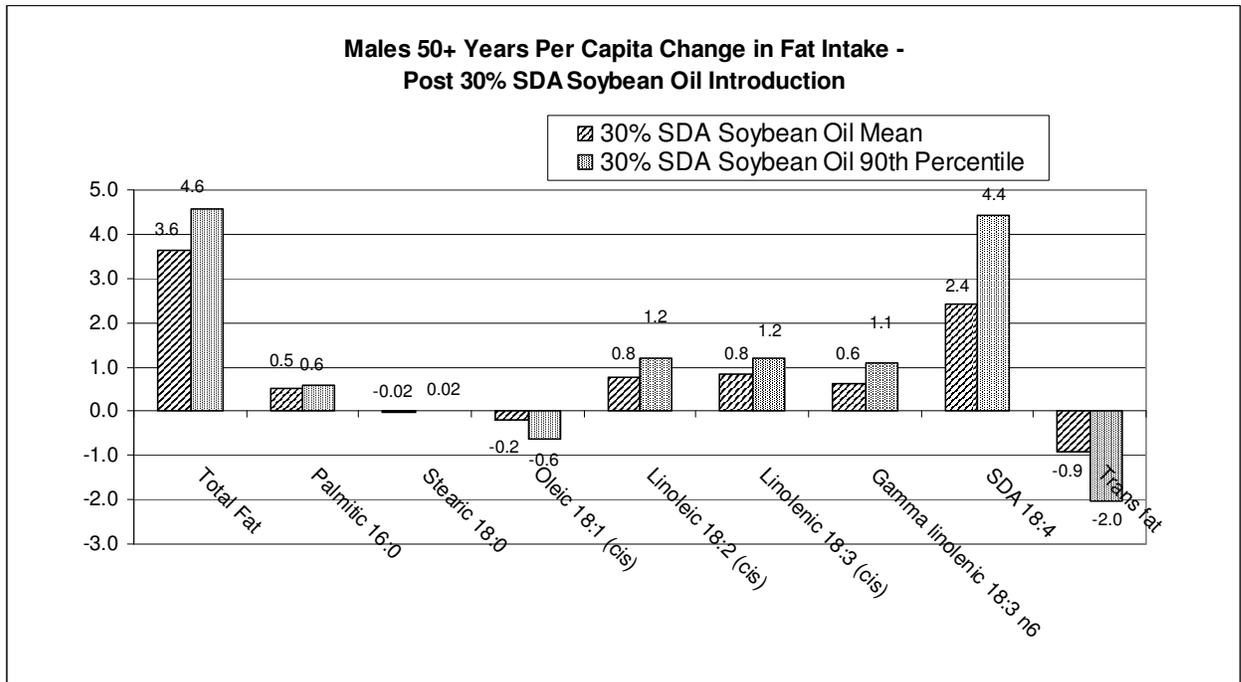


Figure 17. Males 50+ years per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).

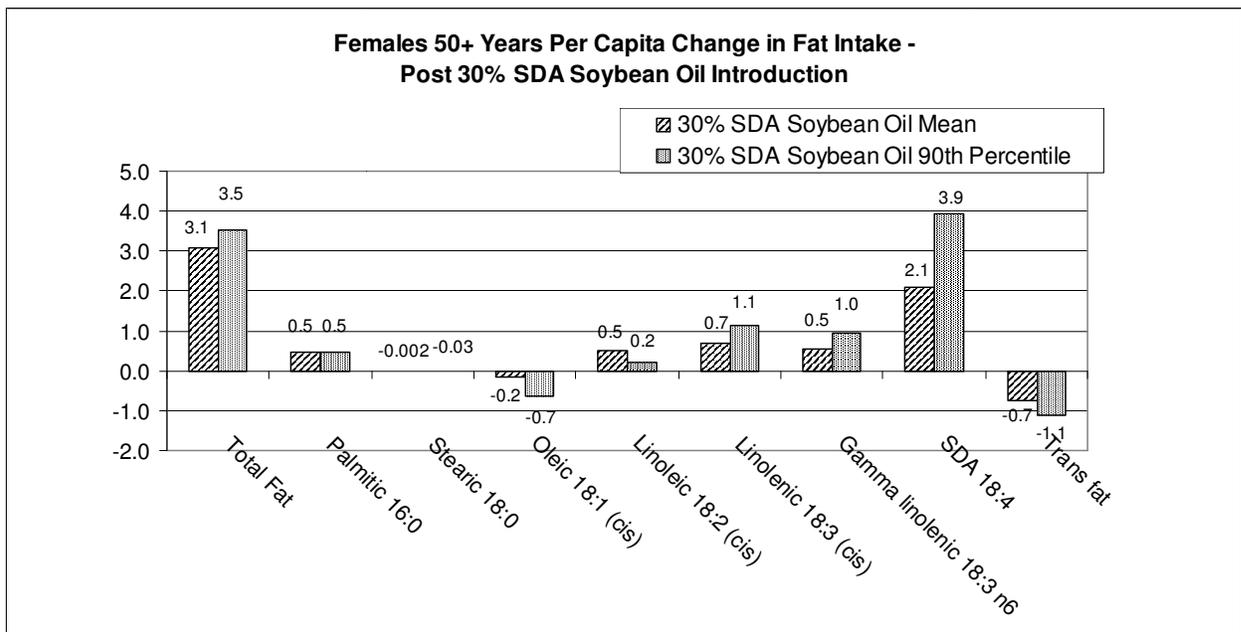


Figure 18. Females 50+ years per capita change in fat intake from select foods post 30% SDA soybean oil introduction (g/day).

**Table 15: US Population Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 30% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>US Population</b>										
Total Fat	78.8	136.5	32.8	69.3	19.8	44.7	23.1	48.9	82.1	140.8
Palmitic 16:0	13.9	24.7	5.4	11.7	2.7	6.3	3.2	6.9	14.4	25.3
Stearic 18:0	7	12.6	2.8	6.2	1.6	3.9	1.6	3.7	7.0	12.5
Oleic 18:1 (cis)	23.4	41.8	9.6	20.5	6.1	14.1	5.9	13.2	23.1	41.1
LA 18:2 (cis)	10.1	19.5	5.5	12.8	4.2	10.0	5.0	11.0	11.0	20.8
ALA 18:3 (cis)	0.9	1.8	0.4	1.1	0.4	0.9	1.2	2.3	1.7	3.1
GLA 18:3 n6 <sup>3</sup>	0.03	0.1	0.02	0.1	0.012	0.03	0.6	1.1	0.6	1.1
SDA 18:4	0.004	0.004	0	0	0	0	2.2	4.2	2.2	4.2
<i>Trans</i> Fat	5.9	11.6	3.1	6.9	2.6	6.3	1.6	3.9	5.0	9.9
EPA (20:5)	0.02	0.06	0.01	0.01	NC	NC	NC	NC	0.02	0.06
DHA (22:6)	0.02	0.06	0.004	0.01	NC	NC	NC	NC	0.02	0.06

<sup>1</sup> List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES consumers are 16975, equivalent to 93% of the US population.

<sup>2</sup> Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.3 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup>GLA (18:3 n6) is only quantified in the Post 30% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA.

<sup>4</sup>NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.

**Table 16: Children 1-8 Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 30% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>Males 1-8 years</b>										
Total Fat	66.9	105.5	30.1	61.0	18.0	38.6	21.3	42.9	70.1	108.9
Palmitic 16:0	12.5	20	5.0	10.4	2.7	6.2	3.1	6.6	12.9	20.4
Stearic 18:0	6.3	10.2	2.6	5.6	1.7	4.0	1.7	3.8	6.2	10.2
Oleic 18:1 (cis)	19.5	32.9	9.0	19.4	5.7	12.9	5.5	11.7	19.3	32.2
LA 18:2 (cis)	7.3	13	4.2	8.9	3.0	6.9	4.1	8.4	8.4	15.0
ALA 18:3 (cis)	0.6	1	0.3	0.6	0.2	0.5	1.0	1.7	1.3	2.2
GLA 18:3 n6 <sup>3</sup>	0.02	0.05	0.02	0.05	0.007	0.02	0.5	0.8	0.5	0.9
SDA 18:4	0.002	0.001	0	0	0	0	1.9	3.2	1.9	3.2
<i>Trans</i> Fat	5.5	9.8	3.2	6.6	2.6	6.2	1.6	3.8	4.5	8.2
EPA (20:5)	0.01	0.03	0.003	0.01	NC <sup>4</sup>	NC	NC	NC	0.01	0.03
DHA (22:6)	0.02	0.05	0.004	0.01	NC	NC	NC	NC	0.02	0.05
<b>Females 1-8 years</b>										
Total Fat	58.9	92.8	26.3	51.3	15.4	32.6	18.2	35.6	61.7	96.6
Palmitic 16:0	11	17.9	4.4	8.9	2.2	4.8	2.6	5.3	11.3	18.3
Stearic 18:0	5.5	9	2.3	4.8	1.4	3.2	1.4	3.1	5.4	8.9
Oleic 18:1 (cis)	17.1	27.9	7.8	15.9	4.9	10.7	4.7	10.0	17.0	27.8
LA 18:2 (cis)	6.5	11.5	3.7	7.7	2.6	5.9	3.6	7.2	7.4	12.6
ALA 18:3 (cis)	0.5	1	0.3	0.6	0.2	0.5	0.8	1.5	1.2	1.9
GLA 18:3 n6 <sup>3</sup>	0.02	0.04	0.01	0.04	0.006	0.01	0.4	0.7	0.4	0.8
SDA 18:4	0.001	0.001	0	0	0	0	1.7	2.9	1.7	2.9
<i>Trans</i> Fat	4.8	8.8	2.8	6.0	2.4	5.1	1.5	3.2	3.9	7.1
EPA (20:5)	0.01	0.03	0.003	0.01	NC <sup>4</sup>	NC	NC	NC	0.01	0.03
DHA (22:6)	0.01	0.05	0.004	0.008	NC	NC	NC	NC	0.01	0.05

<sup>1</sup> List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES male consumers are 1618, 99% of the population, while 1523 females were consumers also equivalent to 99% of the female population.

<sup>2</sup> Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.3 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup> GLA (18:3 n6) is only quantified in the Post 30% and 30% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA.

<sup>4</sup> NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.

**Table 17: Young Adults 9-19 Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 30% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>Males 9-19 years</b>										
Total Fat	91.8	157.4	37.7	78.3	23.0	49.8	26.7	55.0	95.4	160.7
Palmitic 16:0	17	29.6	6.3	13.6	3.2	7.1	3.7	7.7	17.5	30.3
Stearic 18:0	8.6	14.9	3.3	7.2	2.0	4.7	1.9	4.3	8.5	14.8
Oleic 18:1 (cis)	27.6	47.1	11.2	23.2	7.2	15.8	6.9	14.8	27.2	46.4
LA 18:2 (cis)	11.1	20.4	6.0	14.0	4.5	11.1	5.8	13.0	12.3	22.5
ALA 18:3 (cis)	0.9	1.6	0.4	1.0	0.4	0.9	1.3	2.5	1.8	3.1
GLA 18:3 n6 <sup>3</sup>	0.03	0.1	0.03	0.1	0.010	0.03	0.6	1.1	0.6	1.2
SDA 18:4	0.001	0.001	0	0	0	0	2.3	4.4	2.3	4.4
Trans Fat	7.5	14.2	3.9	8.7	3.3	7.7	2.0	4.7	6.3	11.9
EPA (20:5)	0.02	0.1	0.01	0.02	0	0	NC	NC	0.02	0.1
DHA (22:6)	0.02	0.1	0.01	0.01	0	0	NC	NC	0.02	0.1
<b>Females 9-19 years</b>										
Total Fat	71.5	117.4	30.9	63.4	18.6	42.7	21.7	46.3	74.5	122.9
Palmitic 16:0	13	22.7	5.2	11.0	2.5	5.6	2.9	6.2	13.4	23.3
Stearic 18:0	6.6	11.3	2.7	5.9	1.5	3.7	1.5	3.3	6.5	11.2
Oleic 18:1 (cis)	21.1	35.2	9.0	18.8	5.9	13.7	5.6	12.6	20.8	34.7
LA 18:2 (cis)	9	17.5	5.1	11.7	3.8	9.2	4.8	10.5	10.1	19.3
ALA 18:3 (cis)	0.7	1.4	0.4	0.9	0.3	0.8	1.0	2.1	1.5	2.7
GLA 18:3 n6 <sup>3</sup>	0.03	0.07	0.02	0.1	0.008	0.02	0.5	0.9	0.5	0.9
SDA 18:4	0.002	0.001	0	0	0	0	1.9	3.5	1.9	3.5
Trans Fat	6.1	11.5	3.2	6.9	2.8	6.9	1.7	4.2	5.0	9.9
EPA (20:5)	0.02	0.04	0.003	0.01	NC	NC	NC	NC	0.02	0.04
DHA (22:6)	0.02	0.05	0.005	0.009	NC	NC	NC	NC	0.02	0.05

<sup>1</sup>List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES male consumers are 2593, 94% of the population, while 2615 females were consumers also equivalent to 94% of the female population.

<sup>2</sup>Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.3 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup>GLA (18:3 n6) is only quantified in the Post 30% and 30% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA.

<sup>4</sup>NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.

**Table 18: Adults 20-49 Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 30% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>Males 20-49 years</b>										
Total Fat	102.2	173.8	39.8	84.8	23.8	53.8	27.7	59.7	106.0	179.2
Palmitic 16:0	18.3	32.4	6.7	15.1	3.3	7.9	3.9	8.6	18.8	33.3
Stearic 18:0	9.1	16.1	3.5	7.6	2.0	5.0	2.0	4.7	9.1	16.1
Oleic 18:1 (cis)	30.8	53.1	11.7	26.1	7.4	16.9	7.1	15.9	30.6	52.3
LA 18:2 (cis)	12.9	24.4	6.7	16.3	5.1	12.4	6.1	13.3	13.8	25.8
ALA 18:3 (cis)	1.1	2.2	0.5	1.4	0.5	1.2	1.4	2.8	2.0	3.8
GLA 18:3 n6 <sup>3</sup>	0.04	0.09	0.03	0.07	0.01	0.04	0.7	1.3	0.7	1.4
SDA 18:4	0.006	0.006	0	0	0	0	2.6	5.1	2.6	5.1
Trans Fat	7.2	13.9	3.5	8.1	2.9	7.3	1.8	4.6	6.2	12.4
EPA (20:5)	0.03	0.09	0.007	0.02	NC <sup>4</sup>	NC	NC	NC	0.03	0.09
DHA (22:6)	0.02	0.07	0.004	0.009	NC	NC	NC	NC	0.02	0.07
<b>Females 20-49 years</b>										
Total Fat	72.7	121.6	31.7	66.5	19.0	42.9	22.2	46.7	75.9	126.6
Palmitic 16:0	12.7	21.6	5.2	11.1	2.5	5.8	3.0	6.4	13.1	22.3
Stearic 18:0	6.4	11	2.7	5.9	1.5	3.7	1.5	3.4	6.3	10.8
Oleic 18:1 (cis)	21.5	36.4	9.3	19.5	6.0	13.7	5.7	12.5	21.3	36.0
LA 18:2 (cis)	9.8	18.2	5.5	12.4	4.2	9.7	5.0	10.5	10.6	19.5
ALA 18:3 (cis)	0.9	1.7	0.5	1.1	0.4	0.9	1.1	2.2	1.6	3.0
GLA 18:3 n6 <sup>3</sup>	0.03	0.1	0.02	0.06	0.012	0.03	0.6	1.1	0.6	1.1
SDA 18:4	0.004	0.005	0.001	0	0	0	2.1	4.1	2.1	4.2
Trans Fat	5.5	10.4	3.0	6.6	2.5	6.1	1.5	3.7	4.6	8.7
EPA (20:5)	0.02	0.05	0.005	0.02	NC	NC	NC	NC	0.02	0.05
DHA (22:6)	0.02	0.05	0.004	0.009	NC	NC	NC	NC	0.02	0.05

<sup>1</sup>List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES male consumers are 2012, 95% of the population, while 2551 females were consumers also equivalent to 97% of the female population.

<sup>2</sup>Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.3 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup>GLA (18:3 n6) is only quantified in the Post 30% and 30% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA

<sup>4</sup>NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.

**Table 19: Adults 50+ Per Capita Intake of Fatty Acids From the Total Diet and Select Foods<sup>1</sup> -NHANES 1999-2002 (g/day)**

Fatty Acid	Current Intake of Fatty Acids						Post 30% <sup>2</sup> SDA Soybean Oil Introduction			
	Total Diet		SDA Possible Foods		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Soybean+Non-Soybean Oil in SDA Possible Foods Only		Total Diet	
	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile	Mean	90th Percentile
<b>Males 50+ years</b>										
Total Fat	84.7	140	34.2	70.1	21.1	45.8	24.7	51.1	88.3	144.6
Palmitic 16:0	14.5	24.5	5.4	11.2	2.9	6.7	3.4	7.3	15.0	25.1
Stearic 18:0	7.5	12.7	2.9	6.5	1.7	4.1	1.7	3.9	7.5	12.8
Oleic 18:1 (cis)	25.2	43	9.9	20.3	6.5	14.7	6.3	13.8	25.0	42.3
LA 18:2 (cis)	11.1	21.1	5.9	14.1	4.6	11.0	5.4	11.7	11.9	22.3
ALA 18:3 (cis)	1	2.2	0.5	1.3	0.4	1.0	1.3	2.5	1.8	3.4
GLA 18:3 n6 <sup>3</sup>	0.04	0.08	0.03	0.07	0.01	0.04	0.6	1.1	0.6	1.2
SDA 18:4	0.008	0.01	0	0	0	0	2.4	4.4	2.4	4.4
Trans Fat	6.1	11.7	3.2	7.2	2.5	6.3	1.6	4.0	5.2	9.7
EPA (20:5)	0.008	0.010	0.006	0.02	NC <sup>4</sup>	NC	NC	NC	0.008	0.010
DHA (22:6)	0.03	0.08	0.003	0.006	NC	NC	NC	NC	0.03	0.08
<b>Females 50+ years</b>										
Total Fat	61.6	107.2	27.5	57.9	16.7	37.9	19.8	42.4	64.7	110.7
Palmitic 16:0	10.3	18.2	4.3	9.2	2.2	5.1	2.7	5.8	10.7	18.6
Stearic 18:0	5.2	9.3	2.3	4.9	1.3	3.0	1.3	2.8	5.2	9.3
Oleic 18:1 (cis)	17.8	31.4	7.8	16.5	5.1	11.9	4.9	11.0	17.6	30.7
LA 18:2 (cis)	8.8	17.8	5.0	11.9	3.9	8.9	4.4	9.5	9.3	18.0
ALA 18:3 (cis)	0.8	1.7	0.5	1.2	0.4	0.9	1.1	2.1	1.5	2.8
GLA 18:3 n6 <sup>3</sup>	0.03	0.07	0.02	0.06	0.01	0.03	0.5	1.0	0.6	1.0
SDA 18:4	0.006	0.006	0	0	0	0	2.1	3.9	2.1	3.9
Trans Fat	4.6	8.6	2.6	5.6	2.1	5.0	1.3	3.2	3.9	7.5
EPA (20:5)	0.02	0.05	0.003	0.01	NC <sup>4</sup>	NC	NC	NC	0.02	0.05
DHA (22:6)	0.02	0.1	0.003	0.006	NC	NC	NC	NC	0.02	0.1

<sup>1</sup>List of foods selected by Monsanto. Prior analyses indicated that overall intakes of EPA+DHA+Natural and Fortified SDA are less than 3.0 g/person. Unweighted NHANES male consumers are 2052, 98% of the population, while 2088 females were consumers also equivalent to 98% of the female population.

<sup>2</sup>Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.3 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup>GLA (18:3 n6) is only quantified in the Post 30% and 30% SDA soybean oil analyses. The other analyses present 18:3 not n3 that includes GLA.

<sup>4</sup>NC: not calculated, soybean oil and SDA soybean oil are not dietary sources of EPA and DHA thus these values were not calculated.



**Table 20: Per Capita Intake of SDA Soybean Oil Post 30% SDA Soybean Oil Introduction**<sup>1,2</sup>

Population Group	30% SDA Soybean Oil Intake (g/day)		30% SDA Soybean Oil Intake (g/kg/day)	
	Per Capita Mean	Per Capita 90 <sup>th</sup> Percentile	Per Capita Mean	Per Capita 90 <sup>th</sup> Percentile
US population	7.6	14.8	0.1	0.3
Males 1-8 years	6.5	11.0	0.3	0.6
Females 1-8 years	5.8	10.0	0.3	0.5
Males 9-19 years	8.2	15.4	0.2	0.3
Females 9-19 years	6.7	12.2	0.1	0.3
Males 20-49 years	9.0	17.9	0.1	0.2
Females 20-49 years	7.4	14.4	0.1	0.2
Males 50+ years	8.4	15.5	0.1	0.2
Females 50+ years	7.3	13.7	0.1	0.2

<sup>1</sup> The amount of SDA soybean oil consumed was calculated for each NHANES participant by subtracting the amount of SDA consumed at baseline from the POST SDA inclusion intake of SDA and dividing by 28.7% (SDA content of 30% SDA) (g/day) and divided by each individual's bodyweight (g/kg/day).

<sup>2</sup> Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.3 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

**Table 21: Current and Post 30% SDA Soybean Oil Introduction Per Capita Intake of SDA (18:4 n3) (mg/kg/day)**

Population Group	Current Total Dietary Intake of SDA (18:4 n3) (mg/kg/day) <sup>1</sup>		Post 30% <sup>2</sup> SDA Soybean Oil Introduction Total Dietary Intake of SDA (18:4 n3) (mg/kg/day)	
	Per Capita Mean	Per Capita 90 <sup>th</sup> Percentile <sup>3</sup>	Per Capita Mean	Per Capita 90 <sup>th</sup> Percentile
US Population	0.07	0.06	39	83
Males 1-8 years	0.08	0.04	95	166
Females 1-8 years	0.07	0.04	88	154
Males 9-19 years	0.03	0.02	44	88
Females 9-19 years	0.04	0.03	38	77
Males 20-49 years	0.07	0.07	31	61
Females 20-49 years	0.06	0.07	31	63
Males 50+ years	0.09	0.12	29	53
Females 50+ years	0.09	0.09	30	57

<sup>1</sup> Based on NHANES 1999-2002 food and nutrient intake data.

<sup>2</sup> Soybean oil was either added to foods or replaced an unhydrogenated oil (including soybean oil, corn oil, cottonseed oil, peanut oil, sunflower oil, coconut oil, olive oil, canola oil, or palm oil) so that the amount of SDA soybean oil in each food was equivalent to 1.3 grams of oil per serving. Serving sizes based upon FDA's reference amounts customarily consumed located in 21CFR101.12.

<sup>3</sup> When intake at the 90<sup>th</sup> percentile is lower than the mean, fewer than 10% of the population had reported intakes of SDA.

## Conclusion

The inclusion of 20% and 30% SDA soybean oil resulted in increased SDA intake and slight increased intakes of total dietary fat. The latter is expected because not only was SDA soybean oil substituted for the existing oils in foods, but oil was also added to foods when the recipe did not contain at least 1.8 or 1.3 grams of oil per serving for the 20% or 30% SDA soybean oils, respectively. For example, fat was added to selected foods within the following categories: pastas, breakfast cereals, cheese products, soymilk, frozen dairy desserts, milk based drinks, yogurt, and processed fruit and vegetable drinks. Alternatively, the existing liquid oil portion of many foods within the fats and oils, baked goods, and snack foods categories was replaced with SDA soybean oil.

The inclusion of 20% and 30% SDA soybean oil showed slight increases in palmitic acid, LA, and ALA. The concentrations of these fatty acids in SDA soybean oil are greater than the baseline soybean oils used in the foods proposed for SDA fortification. All increases of these fatty acids were typically less than 3.5 g/day<sup>8</sup>. The increase in total dietary intake of GLA was less than or equal to 1.5 g/day<sup>9</sup> for all populations analyzed. This increase however brought US population intakes from less than 0.01 to 0.6 g/day post 30% SDA inclusion and 0.7 g/day post 20% SDA inclusion. This large increase was expected because the concentration of GLA in commercial liquid soybean oil is far less than both 20% SDA and 30% SDA soybean oils (0.4% compared to 6.4% and 7.3% respectively). The analysis showed that the inclusion of either variety of SDA soybean oil in the selected foods will have very little impact on stearic and oleic acids (slight decreases post 30% SDA inclusion and slight increases in post 20% SDA inclusion). A slight decrease in *trans* fat intakes was observed. These impacts are within 2 g/day on average. The analysis did not have any impact on the population intakes of EPA or DHA.

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<sup>8</sup> Greatest change occurred post 20% SDA soybean oil inclusion at the 90<sup>th</sup> percentile of consumption for males 9-19 years.

<sup>9</sup> Greatest change occurred post 20% SDA soybean oil inclusion at the 90<sup>th</sup> percentile of consumption for males 20-49 years.

The population intakes of SDA post 20% and 30% SDA soybean oil inclusion are expected to be the same since each oil variety delivers 375 mg/serving. The results show a difference of 0.009 g/day which is attributed to the rounding of the recipe ingredients to 0.001 for a mass number of foods. The actual intakes of SDA when applied in the market would be the same.

Several factors drive the magnitude and direction of individual fatty acid changes. First, some foods do not contain fat at baseline, causing an increase in total fat and thus, individual fatty acid intake from SDA soybean oil. Second, the relative content of a particular fatty acid in SDA soybean oil compared to liquid soybean or non-soybean oil that it replaces in a recipe influences the amount and direction of change. For example, the oleic acid level is slightly lower in SDA soybean oil than commercial soybean oil, hence, a dampening of the effect of adding total fat, and thereby oleic acid, to the diet. Similarly, the concentration of LA in both varieties of SDA soybean oil is lower than commercial soybean oil; however, for some populations, the results showed a very slight increase in LA intakes while some populations intakes decreased. The increase in LA and oleic acid intakes would not be expected if SDA soybean oil replaced existing oils in foods within the marketplace. These results are a factor of including additional fat to foods, additional assumptions (e.g. level of hydrogenated fat: liquid fat), and alteration of nearly 1000 recipes for foods. Given the nature of the data, confidence intervals cannot be calculated.

Finally, recipes do not contain specificity in regard to the exact proportions of hydrogenated and liquid oil in foods. Monsanto and Exponent utilized a conservative assumption based on food industry knowledge to estimate the proportion that could be functionally replaced; however, the small decrease in *trans* fat is indicative that some substitution of SDA oil for hydrogenated oils did occur. This would likewise make small impacts on other fatty acids that differ in relative contribution between liquid SDA soybean oil and hydrogenated oil (i.e. palmitic, LA and oleic acids).

In conclusion, the impact on eight fatty acids and total *trans* fat intakes by introducing either variety of SDA soybean oil in selected foods is small and should not lead to nutritional concerns. The *per capita* US population will receive approximately 2.2 g

SDA/day by introducing 375 mg per serving SDA on average and 4.2 g SDA/day at the 90<sup>th</sup> percentile. The US population's intake of SDA will be delivered through 10.1 grams (0.18 g/kg/day) of Monsanto's 20% SDA soybean oil on average and 19.6 grams (0.38 g/kg/day) at the 90<sup>th</sup> percentile; whereas the US population's intake of SDA will be delivered through 7.6 grams (0.1 g/kg/day) of Monsanto's 30% SDA soybean oil on average and 14.8 grams (0.3 g/kg/day) at the 90<sup>th</sup> percentile

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## Appendix I Food Groups Containing a Blend of Commercial and SDA Soybean Oil Post SDA Soybean Oil Inclusion (20% and 30% SDA Inclusion Analyses)

Food Group	Fatty Acid Blend Data Sources <sup>1</sup>
<b>Baked Goods and Baking Mixes</b>	
Breads, Biscuits, Bagels <sup>2</sup>	Custom Blend: Weighted Avg of TFADB <sup>3</sup> #7,9,47 and SDA soybean oil <sup>4</sup>
Bars, Cakes, Cookies, Pies, Pastries	Custom Blend: Weighted Avg of Hydrogenated #107 and SDA soybean oil
Crackers, all varieites	Custom Blend: Weighted Avg of USDA TFADB 27 and SDA soybean oil
<b>Breakfast Cereals</b>	
Ready to eat cereal <sup>5</sup>	Custom Blend: Weighted Avg of Hydrogenated #107 and SDA soybean oil
<b>Cheese</b>	Custom Blend: Weighted Avg of USDA TFADB #107 and SDA soybean oil
<b>Dairy Product Analogs</b>	
Soybeanmilk and cream substitutes	Custom Blend: Weighted Avg of USDA TFADB #107 and SDA soybean oil
<b>Fats and Oils</b>	
Tub margarine	Custom Blend: Weighted Avg of TFADB #98,99,100 and SDA soybean oil
Mayonaise and miracle whip	Custom Blend: Weighted Avg of USDA TFADB #105 and SDA soybean oil
Creamy salad dressings	Custom Blend: Weighted Avg of Don Banks Personal Communication and SDA soybean oil
Oil and vinegar based salad dressings	Custom Blend: Weighted Avg of Avg of TFADB #107,108,110 and SDA soybean oil
<b>Fish Products</b>	Custom Blend: Weighted Avg of USDA TFADB #107 and SDA soybean oil
<b>Frozen Dairy Desserts and Mixes</b>	Custom Blend: Weighted of USDA TFADB #107 and SDA soybean oil
<b>Pasta</b>	
Pasta mixed dishes	Custom Blend: Weighted Avg of USDA TFADB Hydrogenated #107 and SDA soybean oil
<b>Gravies and Sauces</b>	Custom Blend: Weighted Avg of USDA TFADB #107 and SDA soybean oil
<b>Puddings and Fillings</b>	Custom Blend: Weighted Avg of USDA TFADB #107 and SDA soybean oil
<b>Meat Products</b>	Custom Blend: Weighted Avg of USDA TFADB #107 and SDA soybean oil
<b>Milk and Milk Products</b>	Custom Blend: Weighted of Avg of TFADB #107 and SDA soybean oil
<b>Snack Foods</b>	
Grain based snacks	Custom Blend: Weighted of Avg of TFADB #174,175,176,177 and SDA soybean oil
<b>Soups and soup mixes</b>	Custom Blend: Weighted of Avg of TFADB #107 and SDA soybean oil
<b>Soft Candy</b>	Custom Blend: Weighted of Avg of TFADB #107 and SDA soybean oil

<sup>1</sup> Weighted averages based upon the total fat in each food within a category and the fatty acids in commercial soybean oil at baseline (See Table 2 in report for actual fatty acid contents)

<sup>2</sup> All food categories with the exception of ready to eat cereals contained some foods with 100% SDA soybean oil and other with a blend of SDA and commercial soybean oil.

<sup>3</sup> USDA Trans Fatty Acid Database, 1993

<sup>4</sup> See Table 3 in report for fatty acid content of 20% and 30% SDA soybean oil

<sup>5</sup> All foods in the ready to eat cereal category contained both commercial and SDA soybean oil (i.e no food contained only 100% SDA soybean oil)

## Appendix II: List of Selected Foods in SDA Analyses and Associated Changes to Food Recipe to Include 30% and 20% SDA Soybean Oil

### Baked Goods and Baking Mixes: Bars, Biscuits, Bagels, Breads, Cakes, Cookies, Crackers

Food Code	Baked Goods - Food Description	Recipe Alteration
53540000	Breakfast bar, nfs	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53540100	Breakfast bar, cake-like	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53540200	Breakfast bar, cereal crust w/ fruit filling, lowfat	Add sda sbo to= 1.8 or 1.3 g/serv
53540250	Breakfast bar, cereal crust w/ fruit filling, fat free	Add sda sbo to= 1.8 or 1.3 g/serv
53540500	Breakfast bar, date, w/ yogurt coating	Add sda sbo to= 1.8 or 1.3 g/serv
53541100	Breakfast bar, diet meal type	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53542100	Granola bar w/ oats, sugar, raisins, coconut	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53542200	Granola bar, oats, fruit, nuts, lowfat	Add sda sbo to= 1.8 or 1.3 g/serv
53542210	Granola bar, nonfat	Add sda sbo to= 1.8 or 1.3 g/serv
53544200	Granola bar, chocolate-coated	Add sda sbo to= 1.8 or 1.3 g/serv
53544210	Granola bar, w/ coconut, chocolate-coated	Replace portion of liquid non sbo, add sda sbo to= 1.8 or 1.3g/serv
53544220	Granola bar w/ nuts, chocolate-coated	Replace portion of liquid non sbo, add sda sbo to= 1.8 or 1.3g/serv
53544250	Granola bar, coated w/ nonchocolate coating	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
51166000	Croissant	Add sda sbo to= 1.8 or 1.3 g/serv
51166200	Croissant, chocolate	Add sda sbo to= 1.8 or 1.3 g/serv
51166500	Croissant, fruit	Add sda sbo to= 1.8 or 1.3 g/serv
51180010	Bagel	Add sda sbo to= 1.8 or 1.3 g/serv
51180020	Bagel, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51180030	Bagel, w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51180040	Bagel, w/ raisins, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51180080	Bagel w/ fruit other than raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51180090	Bagel w/ fruit other than raisins, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51184010	Bread stick, soft	Add sda sbo to= 1.8 or 1.3 g/serv
51184030	Bread stick, soft, prep w/ garlic & parmesan cheese	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
51208010	Bagel, 100% whole wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51208100	Bagel, 100% whole wheat, w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51208110	Bagel, 100% whole wheat, w/ raisins, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51301700	Bagel, wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51301710	Bagel, wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51301750	Bagel, ""whole"" wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51301760	Bagel, ""whole"" wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51301800	Bagel, wheat, w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51301810	Bagel, wheat, w/ raisins, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51301820	Bagel, wheat, w/ fruits & nuts	Add sda sbo to= 1.8 or 1.3 g/serv
51301830	Bagel, wheat, w/ fruits & nuts, toasted	Add sda sbo to= 1.8 or 1.3 g/serv

Food Code	Baked Goods - Food Description	Recipe Alteration
51301900	Bagel, wheat bran	Add sda sbo to= 1.8 or 1.3 g/serv
51404500	Bagel, pumpernickel	Add sda sbo to= 1.8 or 1.3 g/serv
51501080	Bagel, oat bran	Add sda sbo to= 1.8 or 1.3 g/serv
51501090	Bagel, oat bran, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51630000	Bagel, multigrain	Add sda sbo to= 1.8 or 1.3 g/serv
51630010	Bagel, multigrain, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51630100	Bagel, multigrain, w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51630110	Bagel, multigrain, w/ raisins, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
52101000	Biscuit, baking powder or buttermilk type, nfs	Add sda sbo to= 1.8 or 1.3 g/serv
52101100	Biscuit, baking powder or buttermilk, from mix	Add sda sbo to= 1.8 or 1.3 g/serv
52101150	Biscuit, baking pwr/butter milk, refrig dough, lowfat	Add sda sbo to= 1.8 or 1.3 g/serv
52102040	Biscuit, bak powder or buttermilk, from refrg dough	Add sda sbo to= 1.8 or 1.3 g/serv
52103000	Biscuit, baking powder/buttermilk type, commercially baked	Add sda sbo to= 1.8 or 1.3 g/serv
52104010	Biscuit, baking powder or buttermilk, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
52104040	Biscuit, whole wheat	Add sda sbo to= 1.8 or 1.3 g/serv
52104100	Biscuit, cheese	Add sda sbo to= 1.8 or 1.3 g/serv
52104200	Biscuit, cinnamon-raisin	Add sda sbo to= 1.8 or 1.3 g/serv
52105100	Scones	Add sda sbo to= 1.8 or 1.3 g/serv
52105110	Scones, whole wheat	Add sda sbo to= 1.8 or 1.3 g/serv
52105200	Scone, with fruit	Add sda sbo to= 1.8 or 1.3 g/serv
52201000	Cornbread, prepared from mix	Add sda sbo to= 1.8 or 1.3 g/serv
52202060	Cornbread, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
52204000	Cornbread stuffing	Add sda sbo to= 1.8 or 1.3 g/serv
52206010	Cornbread muffin, stick, round	Add sda sbo to= 1.8 or 1.3 g/serv
52206020	Cornbread muffin, stick, round, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
52206060	Cornbread muffin, stick, round, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
52208010	Corn pone, baked (incl hoe cake)	Add sda sbo to= 1.8 or 1.3 g/serv
52208750	Gordita/sope shell, plain no fill, grill, no fat added	Add sda sbo to= 1.8 or 1.3 g/serv
52208760	Gordita/sope shell, plain, no filling, fried in oil	Add sda sbo to= 1.8 or 1.3 g/serv
52209010	Hush puppy	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
52215000	Tortilla, nfs	Add sda sbo to= 1.8 or 1.3 g/serv
52215100	Tortilla, corn	Add sda sbo to= 1.8 or 1.3 g/serv
52215200	Tortilla, flour (wheat)	Add sda sbo to= 1.8 or 1.3 g/serv
52215260	Tortilla, whole wheat	Add sda sbo to= 1.8 or 1.3 g/serv
52215300	Taco shell, corn	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
52215350	Taco shell; flour	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
52220110	Cornmeal bread, dominican	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
58127210	Croissant, filled w/ ham & cheese	Add sda sbo to= 1.8 or 1.3 g/serv
58127270	Croissant w/ sausage & egg	Add sda sbo to= 1.8 or 1.3 g/serv
58127310	Croissant w/ ham, egg, & cheese	Add sda sbo to= 1.8 or 1.3 g/serv
58127330	Croissant w/ sausage, egg, & cheese	Add sda sbo to= 1.8 or 1.3 g/serv
58127350	Croissant w/ bacon, egg, & cheese	Add sda sbo to= 1.8 or 1.3 g/serv
51000100	Bread, ns as to major flour	Add sda sbo to= 1.8 or 1.3 g/serv
51000110	Toast, ns as to major flour	Add sda sbo to= 1.8 or 1.3 g/serv

Food Code	Baked Goods - Food Description	Recipe Alteration
51000180	Bread, homemade/purch at a bakery, ns as to flour	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51000190	Bread, homemade/purch at a bakery, toastd,ns flour	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51000200	Roll, ns as to major flour	Add sda sbo to= 1.8 or 1.3 g/serv
51000230	Roll, ns as to major flour, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51000250	Roll, homemade/purch at a bakery, ns as to flour	Add sda sbo to= 1.8 or 1.3 g/serv
51000300	Roll, hard, ns as to major flour	Add sda sbo to= 1.8 or 1.3 g/serv
51101000	Bread, white	Add sda sbo to= 1.8 or 1.3 g/serv
51101010	Bread, white, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51101050	Bread, white, homemade or purchased at a bakery	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51101060	Bread, white, homemade or purch at a bakery toasted	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51102010	Bread, white w/ whole wheat swirl	Add sda sbo to= 1.8 or 1.3 g/serv
51102020	Bread, white w/ whole wheat swirl, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51105010	Bread, cuban (include spanish, portuguese)	Add sda sbo to= 1.8 or 1.3 g/serv
51105040	Bread, cuban, toasted (include spanish, portuguese)	Add sda sbo to= 1.8 or 1.3 g/serv
51106200	Bread, lard, p.r. (pan de manteca)	Add sda sbo to= 1.8 or 1.3 g/serv
51107010	Bread, french or vienna	Add sda sbo to= 1.8 or 1.3 g/serv
51107040	Bread, french or vienna, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51108010	Focaccia, Italian flatbread, plain	Add SDA SBO to= 1.8 or 1.3 g/serv
51109010	Bread, italian, grecian, armenian	Add sda sbo to= 1.8 or 1.3 g/serv
51109040	Bread, italian, grecian, armenian, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51109100	Bread, pita	Add sda sbo to= 1.8 or 1.3 g/serv
51109110	Bread, pita, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
511101010	Bread, cheese (include onion cheese)	Add sda sbo to= 1.8 or 1.3 g/serv
511101040	Bread, cheese, toasted (include onion cheese)	Add sda sbo to= 1.8 or 1.3 g/serv
51113010	Bread, cinnamon	Add sda sbo to= 1.8 or 1.3 g/serv
51113100	Bread, cinnamon, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51119010	Bread, egg, challah	Add sda sbo to= 1.8 or 1.3 g/serv
51119040	Bread, egg, challah, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51119100	Bread, lowfat, 98% fat free	Add sda sbo to= 1.8 or 1.3 g/serv
51119110	Bread, lowfat, 98% fat free, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51121010	Bread, garlic	Add sda sbo to= 1.8 or 1.3 g/serv
51121040	Bread, garlic, toasted (include texas toast)	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
51122000	Bread, reduced calorie/high fiber	Add sda sbo to= 1.8 or 1.3 g/serv
51122010	Bread, reduced calorie/high fiber, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51122060	Bread, reduced calorie/high fiber, italian,toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51122100	Bread, reduced calorie/ high fiber, w/ fruit/nuts	Add sda sbo to= 1.8 or 1.3 g/serv
51122110	Bread, reduced calorie/hi fiber, w/fruit/nuts,toast	Add sda sbo to= 1.8 or 1.3 g/serv
51122300	Bread, white, special formula, added fiber	Add sda sbo to= 1.8 or 1.3 g/serv
51123020	Bread, high protein, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51127010	Bread, potato	Add sda sbo to= 1.8 or 1.3 g/serv
51127020	Bread, potato, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51129010	Bread, raisin	Add sda sbo to= 1.8 or 1.3 g/serv
51129020	Bread, raisin, toasted	Add sda sbo to= 1.8 or 1.3 g/serv

Food Code	Baked Goods - Food Description	Recipe Alteration
51130520	Bread, white, low sodium/no salt, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51133010	Bread, sour dough	Add sda sbo to= 1.8 or 1.3 g/serv
51133020	Bread, sour dough, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51135000	Bread, vegetable	Add sda sbo to= 1.8 or 1.3 g/serv
51140100	Bread dough, fried	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
51150000	Roll, white, soft	Add sda sbo to= 1.8 or 1.3 g/serv
51150100	Roll, white, soft, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51151060	Roll, white, soft, homemade/purch at a bakery	Add sda sbo to= 1.8 or 1.3 g/serv
51152000	Roll, white, soft, reduced calorie/ high fiber	Add sda sbo to= 1.8 or 1.3 g/serv
51153000	Roll, white, hard	Add sda sbo to= 1.8 or 1.3 g/serv
51153010	Roll, white, hard, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51154550	Roll, egg bread	Add sda sbo to= 1.8 or 1.3 g/serv
51154600	Roll, cheese	Add sda sbo to= 1.8 or 1.3 g/serv
51155000	Roll, french or vienna	Add sda sbo to= 1.8 or 1.3 g/serv
51155010	Roll, french or vienna, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51156500	Roll, garlic	Add sda sbo to= 1.8 or 1.3 g/serv
51157000	Roll, hoagie, submarine,	Add sda sbo to= 1.8 or 1.3 g/serv
51157010	Roll, hoagie, submarine, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51158100	Roll, mexican, bolillo	Add sda sbo to= 1.8 or 1.3 g/serv
51159000	Roll, sour dough	Add sda sbo to= 1.8 or 1.3 g/serv
51186010	Muffin, english (include sour dough)	Add sda sbo to= 1.8 or 1.3 g/serv
51186020	Muffin, english, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51186100	Muffin, english, w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51186120	Muffin, english, w/ raisins, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51186180	Muffin, english, w/ fruit other than raisins, tstd	Add sda sbo to= 1.8 or 1.3 g/serv
51201010	Bread, 100% whole wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51201020	Bread, 100% whole wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51201060	Bread, 100% whole wheat, home-made	Add sda sbo to= 1.8 or 1.3 g/serv
51201070	Bread, 100% whole wheat, home-made, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51201150	Bread, pita, 100% whole wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51204010	Bread, wheat germ	Add sda sbo to= 1.8 or 1.3 g/serv
51207010	Bread, sprouted wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51207020	Bread, sprouted wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51220000	Roll, 100% whole wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51220030	Roll, 100% whole wheat, home recipe/bakery	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51300110	Bread, whole wheat, other than 100%/ns as to 100%	Add sda sbo to= 1.8 or 1.3 g/serv
51300120	Bread, whole wheat, other than 100%/ns 100%, toast	Add sda sbo to= 1.8 or 1.3 g/serv
51300140	Bread, ""whole"" wheat, home recipe/bakery	Add sda sbo to= 1.8 or 1.3 g/serv
51300150	Bread, ""whole"" wheat, home recipe/bakery, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51300210	Bread, whole wheat, ns as to 100%, w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51300220	Bread, whole wheat,ns as to 100%,w/ raisins,toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51300610	Bread, whole wheat, ns as to 100%, low sodium	Add sda sbo to= 1.8 or 1.3 g/serv
51300620	Bread, whole wheat, ns 100%, low sodium, toast	Add sda sbo to= 1.8 or 1.3 g/serv
51301010	Bread, wheat or cracked wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51301020	Bread, wheat or cracked wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv

Food Code	Baked Goods - Food Description	Recipe Alteration
51301040	Bread, cracked wheat, home recipe/bakery	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51301050	Bread, cracked wheat, home recipe/bakery, toasted	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51301120	Bread, wheat or cracked wheat, w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51301510	Bread, cracked wheat, reduced calorie/ high fiber	Add sda sbo to= 1.8 or 1.3 g/serv
51301520	Bread, cracked wheat, red calorie/ hi fiber, toast	Add sda sbo to= 1.8 or 1.3 g/serv
51301540	Bread, french, ""whole"" wheat, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
51301550	Bread, french, ""whole"" wheat, homemade, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51301600	Bread, pita, ""whole"" wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51301610	Bread, pita, ""whole"" wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51301620	Bread, pita, cracked wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51302010	Bread, wheat bran	Add sda sbo to= 1.8 or 1.3 g/serv
51302020	Bread, wheat bran, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51303020	Muffin, english, wheat or cracked wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51303030	Muffin, english, ""whole"" wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51303040	Muffin, english, ""whole"" wheat, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51303050	Muffin, english, wheat or cracked wheat w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
51303080	Muffin, english, ""whole"" wheat, w/ raisins, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51320010	Roll, wheat or cracked wheat	Add sda sbo to= 1.8 or 1.3 g/serv
51320040	Roll, cracked wheat, home recipe/bakery	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51320500	Roll, whole wheat, ns as to 100%	Add sda sbo to= 1.8 or 1.3 g/serv
51320510	Roll, whole wheat, ns as to 100%, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51320530	Roll, ""whole"" wheat, home recipe/bakery	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51320540	Roll, ""whole"" wheat, home recipe/bakery, toasted	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
51401010	Bread, rye	Add sda sbo to= 1.8 or 1.3 g/serv
51401020	Bread, rye, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51401030	Bread, marble rye & pumpernickel	Add sda sbo to= 1.8 or 1.3 g/serv
51401040	Bread, marble rye & pumpernickel, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51401060	Bread, rye, reduced calorie/ high fiber (incl less)	Add sda sbo to= 1.8 or 1.3 g/serv
51401070	Bread, rye, reduced calorie/ high fiber, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51404010	Bread, pumpernickel	Add sda sbo to= 1.8 or 1.3 g/serv
51404020	Bread, pumpernickel, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51407010	Bread, black	Add sda sbo to= 1.8 or 1.3 g/serv
51420000	Roll, rye	Add sda sbo to= 1.8 or 1.3 g/serv
51421000	Roll, pumpernickel	Add sda sbo to= 1.8 or 1.3 g/serv
51501010	Bread, oatmeal	Add sda sbo to= 1.8 or 1.3 g/serv
51501020	Bread, oatmeal, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51501040	Bread, oat bran	Add sda sbo to= 1.8 or 1.3 g/serv
51501050	Bread, oat bran, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51501060	Bread, oat bran, reduced calorie/ high fiber	Add sda sbo to= 1.8 or 1.3 g/serv
51501070	Bread, oat bran reduced calorie/hi fiber, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51503010	Muffin, english, oat bran, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51601010	Bread, multigrain, toasted	Add sda sbo to= 1.8 or 1.3 g/serv

<b>Food Code</b>	<b>Baked Goods - Food Description</b>	<b>Recipe Alteration</b>
51601020	Bread, multigrain	Add sda sbo to= 1.8 or 1.3 g/serv
51602010	Bread, multigrain, reduced calorie/ high fiber	Add sda sbo to= 1.8 or 1.3 g/serv
51602020	Bread, multigrain, reduced calorie/ hi fiber, toast	Add sda sbo to= 1.8 or 1.3 g/serv
51620000	Roll, multigrain	Add sda sbo to= 1.8 or 1.3 g/serv
51630200	Muffin, english, multigrain	Add sda sbo to= 1.8 or 1.3 g/serv
51801010	Bread, barley	Add sda sbo to= 1.8 or 1.3 g/serv
51805020	Bread, sunflower meal, toasted	Add sda sbo to= 1.8 or 1.3 g/serv
51808000	Bread, low gluten	Add sda sbo to= 1.8 or 1.3 g/serv
52403000	Bread, nut	Add sda sbo to= 1.8 or 1.3 g/serv
52404060	Bread, pumpkin (include w/ raisins)	Add sda sbo to= 1.8 or 1.3 g/serv
52405010	Bread, fruit, w/o nuts	Add sda sbo to= 1.8 or 1.3 g/serv
52405100	Bread, fruit & nut	Add sda sbo to= 1.8 or 1.3 g/serv
52406010	Bread, whole wheat, w/ nuts	Add sda sbo to= 1.8 or 1.3 g/serv
52407000	Bread, zucchini (incl squash bread; w/ nuts)	Add sda sbo to= 1.8 or 1.3 g/serv
52408000	Bread, irish soda	Add sda sbo to= 1.8 or 1.3 g/serv
53102500	Cake, banana, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53102600	Cake, banana, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53102700	Cake, banana, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53104000	Cake, carrot, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53104100	Cake, carrot, no icing	Add sda sbo to= 1.8 or 1.3 g/serv
53104260	Cake, carrot, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53104300	Carrot cake, diet	Add sda sbo to= 1.8 or 1.3 g/serv
53104400	Cake, coconut, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53104500	Cheesecake	Add sda sbo to= 1.8 or 1.3 g/serv
53104520	Cheesecake, diet	Add sda sbo to= 1.8 or 1.3 g/serv
53104550	Cheesecake, w/ fruit	Add sda sbo to= 1.8 or 1.3 g/serv
53104570	Cheesecake, diet, with fruit	Add sda sbo to= 1.8 or 1.3 g/serv
53104600	Cheesecake, chocolate	Add sda sbo to= 1.8 or 1.3 g/serv
53106500	Cake, cream, w/o icing or topping	Add sda sbo to= 1.8 or 1.3 g/serv
53109300	Cake, dobos torte(non-choc cake w/choc fill & icing)	Add sda sbo to= 1.8 or 1.3 g/serv
53110000	Cake, fruitcake, light/dark, holiday type cake	Add sda sbo to= 1.8 or 1.3 g/serv
53116510	Cake, pumpkin, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53116550	Cake, raisin-nut, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53116560	Cake, raisin-nut, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53118350	Cake, sweetpotato, w/ icing (incl with glaze)	Add sda sbo to= 1.8 or 1.3 g/serv
53119000	Cake, upside down (all fruits)	Add sda sbo to= 1.8 or 1.3 g/serv
53124100	Cake, zucchini, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53118000	Cake, sponge, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53118100	Cake, sponge, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53118200	Cake, sponge, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53118310	Cake, sponge, chocolate, w/ icing	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
53102800	Cake, black forest (choc-cherry)	Add sda sbo to= 1.8 or 1.3 g/serv
53103000	Cake, boston cream pie	Add sda sbo to= 1.8 or 1.3 g/serv
53103600	Cake, butter, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53104950	Cake, choc, made w/ mayonnaise, w/ icing or filling	Add sda sbo to= 1.8 or 1.3 g/serv

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53105000	Cake,choc,devil's food/fudge,standrd mix,ns icing	Add sda sbo to= 1.8 or 1.3 g/serv
53105050	Cake, choc, devil's food/fudge, homemade, ns icing	Add sda sbo to= 1.8 or 1.3 g/serv
53105100	Cake,choc,devils food/fudge,standrd mix, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53105160	Cake,choc,devil's food/fudge, w/o icing, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
53105200	Cake,choc,devil's food/fudge,standrd mix,w/icing	Add sda sbo to= 1.8 or 1.3 g/serv
53105260	Cake,choc,devil's food/fudge,w/icing, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
53105300	Cake, german choc, w/ icing and filling	Add sda sbo to= 1.8 or 1.3 g/serv
53105500	Cake, choc, w/ icing, diet	Add sda sbo to= 1.8 or 1.3 g/serv
53105600	Cake,choc/dvl fd, pudd mix, lite recipe, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53105700	Cake,choc,devil food/fudge,pud type,no chol,no icin	Add sda sbo to= 1.8 or 1.3 g/serv
53105900	Cake, choc,devil's food/fudge,pudding mix, ns icing	Add sda sbo to= 1.8 or 1.3 g/serv
53106000	Cake,choc,devil's food/fudge,pudding mix, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53106050	Cake, choc,devil's food/fudge, pudding mix, w/icing	Add sda sbo to= 1.8 or 1.3 g/serv
53107000	Cake, cupcake, ns as to type and icing	Add sda sbo to= 1.8 or 1.3 g/serv
53107100	Cake, cupcake, ns as to type, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53107200	Cake, cupcake, ns as to type, w/icing	Add sda sbo to= 1.8 or 1.3 g/serv
53108100	Cake, cupcake, chocolate, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53108200	Cake, cupcake, chocolate, w/ icing or filling	Add sda sbo to= 1.8 or 1.3 g/serv
53109000	Cake, cupcake, not chocolate, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53109100	Cake, cupcake, not chocolate, w/o icing or filling	Add sda sbo to= 1.8 or 1.3 g/serv
53109200	Cake, cupcake, not chocolate, w/ icing or filling	Add sda sbo to= 1.8 or 1.3 g/serv
53109210	Cake, cupcake, not choc, w/ icing, lowfat, no chol	Add sda sbo to= 1.8 or 1.3 g/serv
53109250	Cupcake, not chocolate, w/ fruit & cream filling	Add sda sbo to= 1.8 or 1.3 g/serv
53109270	Cupcake,choc,w/orw/o icing,fruit/cream fill,lowfat	Add sda sbo to= 1.8 or 1.3 g/serv
53111000	Cake, gingerbread, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53112000	Cake, ice cream & cake roll, chocolate	Add sda sbo to= 1.8 or 1.3 g/serv
53112100	Cake, ice cream & cake roll, not chocolate	Add sda sbo to= 1.8 or 1.3 g/serv
53113000	Cake, jelly roll	Add sda sbo to= 1.8 or 1.3 g/serv
53114000	Cake, lemon, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53114100	Cake, lemon, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53114200	Cake, lemon, low fat, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53114250	Cake, lemon, low fat, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53115100	Cake, marble, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53115200	Cake, marble, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53115450	Cake, peanut butter, with icing	Add sda sbo to= 1.8 or 1.3 g/serv
53115600	Cake, poppyseed, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53116000	Cake, pound, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53116020	Cake, pound, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53116270	Cake, pound, chocolate	Add sda sbo to= 1.8 or 1.3 g/serv
53116380	Cake, pound, fat free, no chol	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
53116390	Cake, pound, reduced fat, no cholesterol	Add sda sbo to= 1.8 or 1.3 g/serv
53116600	Cake, rice flour, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53117000	Cake, spice, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53117200	Cake, spice, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53118500	Cake, torte	Add sda sbo to= 1.8 or 1.3 g/serv

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53120060	Cake, white, homemade, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53120100	Cake, white, standard mix, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53120160	Cake, white, w/o icing, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
53120200	Cake, white, standard mix, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53120260	Cake, white, w/ icing, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
53120300	Cake, white, pudding-type mix, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53120330	Cake, white, pudding-type mix, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53120350	Cake, white, pudding-type mix, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53120500	Cake, whole wheat, w/ fruit & nuts, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53121000	Cake, yellow, standard mix, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53121060	Cake, yellow, homemade, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53121100	Cake, yellow, standard mix, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53121160	Cake, yellow, w/o icing, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
53121200	Cake, yellow, standard mix, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53121260	Cake, yellow, w/ icing, homemade	Add sda sbo to= 1.8 or 1.3 g/serv
53121280	Cake, yellow, pudding mix, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53121300	Cake, yellow, pudding mix, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53121330	Cake, yellow, pudding mix, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53122080	Cake, shortcake, biscuit, w/ fruit	Add sda sbo to= 1.8 or 1.3 g/serv
53123070	Cake, shortcake, sponge, w/ whipped cream & fruit	Add sda sbo to= 1.8 or 1.3 g/serv
53123080	Cake, shortcake, sponge, w/ fruit	Add sda sbo to= 1.8 or 1.3 g/serv
53200100	Cookie, batter / dough, raw, not chocolate	Add sda sbo to= 1.8 or 1.3 g/serv
53201000	Cookie, ns as to type	Add sda sbo to= 1.8 or 1.3 g/serv
53202000	Cookie, almond	Add sda sbo to= 1.8 or 1.3 g/serv
53203000	Cookie, applesauce	Add sda sbo to= 1.8 or 1.3 g/serv
53203500	Cookie, biscotti	Add sda sbo to= 1.8 or 1.3 g/serv
53204000	Cookie, brownie, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53204010	Cookie, brownie, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53204100	Cookie, brownie, w/ icing	Add sda sbo to= 1.8 or 1.3 g/serv
53204500	Cookie, brownie, w/ cream cheese filling, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53204600	Cookie, brownie, w/ peanut butter fudge icing	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
53204800	Brownie, diet, ns as to icing	Add sda sbo to= 1.8 or 1.3 g/serv
53204830	Cookie, brownie, lowfat, w/ icing	Replace portion of liquid non sbo, add sda sbo to= 1.8 or 1.3g/serv
53204840	Cookie, brownie, lowfat, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53204860	Cookie, brownie, fat free, w/o icing	Add sda sbo to= 1.8 or 1.3 g/serv
53205250	Cookie, butterscotch, brownie	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
53205500	Cookie, butterscotch chip	Add sda sbo to= 1.8 or 1.3 g/serv
53205600	Cookie, caramel coated, w/ nuts	Add sda sbo to= 1.8 or 1.3 g/serv
53206000	Cookie, chocolate chip	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
53206010	Cookie, chocolate chip w/ raisins	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
53206020	Cookie, choc chip, homemade or purchased at bakery	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
53206030	Cookie, choc chip, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv

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53206050	Cookie,rich,chocolate chip,w/ chocolate filling	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53206100	Cookie, chocolate chip sandwich	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53206500	Cookie, chocolate, made w/ rice cereal (no-bake)	Add sda sbo to= 1.8 or 1.3 g/serv
53206550	Cookie, chocolate, made w/ oatmeal & coconut	Add sda sbo to= 1.8 or 1.3 g/serv
53207000	Cookie, chocolate fudge	Add sda sbo to= 1.8 or 1.3 g/serv
53207050	Cookie, chocolate, w/ choc filling/coating, fat free	Add sda sbo to= 1.8 or 1.3 g/serv
53208000	Cookie, chocolate-covered, marshmallow	Add sda sbo to= 1.8 or 1.3 g/serv
53208200	Cookie, chocolate-covered, marshmallow pie	Add sda sbo to= 1.8 or 1.3 g/serv
53209000	Cookie, choc,choc sandwich/chocolate-coated/striped	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
53209010	Cookie,choc-cover,sugar waffer,creme/caramel filled	Add sda sbo to= 1.8 or 1.3 g/serv
53209020	Cookie, chocolate sandwich, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv
53209050	Cookie, chocolate sandwich, chocolate covered	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53209100	Cookie, chocolate, sandwich, w/ extra filling	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53209500	Cookie, chocolate & vanilla sandwich	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53210000	Cookie, chocolate wafer	Add sda sbo to= 1.8 or 1.3 g/serv
53210900	Cookie, graham cracker sandwich w/choc&marshmallow	Add sda sbo to= 1.8 or 1.3 g/serv
53211000	Cookie, bar, w/ chocolate, nuts, & graham crackers	Add sda sbo to= 1.8 or 1.3 g/serv
53215000	Cookie, coconut bars	Add sda sbo to= 1.8 or 1.3 g/serv
53215500	Cookie, coconut	Add sda sbo to= 1.8 or 1.3 g/serv
53216000	Cookie, coconut & nut	Add sda sbo to= 1.8 or 1.3 g/serv
53220000	Cookie, fruit-filled	Add sda sbo to= 1.8 or 1.3 g/serv
53220010	Cookie, fruit-filled bar, fat free	Add sda sbo to= 1.8 or 1.3 g/serv
53220020	Cookie, date bar	Add sda sbo to= 1.8 or 1.3 g/serv
53220030	Cookie, fig bar	Add sda sbo to= 1.8 or 1.3 g/serv
53220040	Cookie, fig bar, fat free	Add sda sbo to= 1.8 or 1.3 g/serv
53222010	Cookie, fortune	Remove portion of non sbo, add sda sbo to= 1.8 or 1.3g/serv
53222020	Cookie, cone shell, ice cream type,wafer / cake	Add sda sbo to= 1.8 or 1.3 g/serv
53222100	Cookie, cone shell, ice cream type, brown sugar	Add sda sbo to= 1.8 or 1.3 g/serv
53223000	Cookie, gingersnaps	Add sda sbo to= 1.8 or 1.3 g/serv
53224000	Cookie, lady finger	Add sda sbo to= 1.8 or 1.3 g/serv
53224250	Cookie, lemon bar	Add sda sbo to= 1.8 or 1.3 g/serv
53225000	Cookie, macaroon	Add sda sbo to= 1.8 or 1.3 g/serv
53226000	Cookie, marshmallow, w/ coconut	Add sda sbo to= 1.8 or 1.3 g/serv
53226500	Cookie, marshmallow, w/ rice cereal (no-bake)	Add sda sbo to= 1.8 or 1.3 g/serv
53226550	Cookie, marshmallow, w/ rice cereal & choc chips	Add sda sbo to= 1.8 or 1.3 g/serv
53226600	Cookie, marshmallow & peanut butter, w/ oat cereal (no-bake)	Add sda sbo to= 1.8 or 1.3 g/serv
53227000	Cookie, marshmallow pie, nonchocolate coating	Add sda sbo to= 1.8 or 1.3 g/serv
53228000	Cookie, meringue	Add sda sbo to= 1.8 or 1.3 g/serv
53230000	Cookie, molasses	Add sda sbo to= 1.8 or 1.3 g/serv
53233000	Cookie, oatmeal	Add sda sbo to= 1.8 or 1.3 g/serv
53233010	Cookie, oatmeal, w/ raisins or dates	Add sda sbo to= 1.8 or 1.3 g/serv
53233030	Cookie,oatmeal,fat free,w/ raisins(incl w/ dates)	Add sda sbo to= 1.8 or 1.3 g/serv
53233040	Cookie, oatmeal, red fat, w/ raisins	Remove portion of non sbo, add sda sbo to= 1.8 or

Food Code	Baked Goods - Food Description	Recipe Alteration
		1.3g/serv
53233050	Cookie, oatmeal sandwich, w/ creme filling	Add sda sbo to= 1.8 or 1.3 g/serv
53233060	Cookie, oatmeal, w/ chocolate chips	Add sda sbo to= 1.8 or 1.3 g/serv
53233080	Cookie, oatmeal sandwich, w/ peanut butter & jelly filling	Add sda sbo to= 1.8 or 1.3 g/serv
53233100	Cookie, oatmeal, w/ choc & peanut butter (no-bake)	Add sda sbo to= 1.8 or 1.3 g/serv
53233500	Cookie, oat bran	Add sda sbo to= 1.8 or 1.3 g/serv
53234000	Cookie, peanut butter (include pb wafer)	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53234010	Cookie, peanut butter w/ oatmeal	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
53234100	Cookie, peanut butter, w/ chocolate (incl nassau)	Add sda sbo to= 1.8 or 1.3 g/serv
53235000	Cookie, peanut	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53235500	Cookie, w/ peanut butter filling, chocolate-coated	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53236000	Cookie, pizzelle (italian style wafer)	Add sda sbo to= 1.8 or 1.3 g/serv
53236100	Cookie, pumpkin	Add sda sbo to= 1.8 or 1.3 g/serv
53237000	Cookie, raisin	Add sda sbo to= 1.8 or 1.3 g/serv
53237010	Cookie, raisin sandwich, cream-filled	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53237500	Cookie, rum ball (no-bake)	Add sda sbo to= 1.8 or 1.3 g/serv
53238000	Cookie, sandwich type, not chocolate or vanilla	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53239000	Cookie, shortbread	Add sda sbo to= 1.8 or 1.3 g/serv
53239010	Cookie, shortbread, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv
53239050	Cookie, shortbread, with chocolate filling	Add sda sbo to= 1.8 or 1.3 g/serv
53241500	Cookie, butter or sugar	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53241600	Cookie, butter/sugar cookie, w/ fruit and/ or nuts	Add sda sbo to= 1.8 or 1.3 g/serv
53242000	Cookie, sugar wafer	Add sda sbo to= 1.8 or 1.3 g/serv
53242500	Cookie, toffee bar	Add sda sbo to= 1.8 or 1.3 g/serv
53243000	Cookie, vanilla sandwich	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
53243050	Cookie, vanilla sandwich, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv
53243100	Cookie, rich, all chocolate, w/ choc filling or choc chips	Add sda sbo to= 1.8 or 1.3 g/serv
53244010	Cookie, butter/sugar, w/ chocolate icing / filling	Add sda sbo to= 1.8 or 1.3 g/serv
53244020	Cookie, butter/sugar, iced, w/ icing not choc	Add sda sbo to= 1.8 or 1.3 g/serv
53245000	Cookie, vanilla waffle creme	Add sda sbo to= 1.8 or 1.3 g/serv
53246000	Cookie, tea, japanese	Add sda sbo to= 1.8 or 1.3 g/serv
53247000	Cookie, vanilla wafer, ns as to type	Add sda sbo to= 1.8 or 1.3 g/serv
53247050	Cookie, vanilla wafer, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv
53247500	Cookie, vanilla w/ caramel, coconut, choc coating	Add sda sbo to= 1.8 or 1.3 g/serv
53251100	Cookie, rugelach	Add sda sbo to= 1.8 or 1.3 g/serv
53260000	Cookie, dietetic, nfs	Add sda sbo to= 1.8 or 1.3 g/serv
53260030	Cookie, dietetic, chocolate chip	Add sda sbo to= 1.8 or 1.3 g/serv
53260050	Cookie, dietetic, chocolate flavored	Add sda sbo to= 1.8 or 1.3 g/serv
53260100	Cookie, dietetic, fruit types	Add sda sbo to= 1.8 or 1.3 g/serv
53260150	Cookie, lemon wafer, lowfat	Add sda sbo to= 1.8 or 1.3 g/serv
53260200	Cookie, dietetic, oatmeal w/ raisins	Add sda sbo to= 1.8 or 1.3 g/serv
53260300	Cookie, dietetic, sandwich type	Add sda sbo to= 1.8 or 1.3 g/serv
53260400	Cookie, dietetic, sugar or plain	Add sda sbo to= 1.8 or 1.3 g/serv
53270100	Cookie, p.r. (mantecaditos polvorones)	Add sda sbo to= 1.8 or 1.3 g/serv

Food Code	Baked Goods - Food Description	Recipe Alteration
51184020	Bread stick, ns as to hard or soft	Add sda sbo to= 1.8 or 1.3 g/serv
51187000	Melba toast	Add sda sbo to= 1.8 or 1.3 g/serv
51188500	Zwieback toast (incl rusk)	Add sda sbo to= 1.8 or 1.3 g/serv
54001000	Cracker, ns as to sweet/nonsweet (incl cracker,nfs)	Add sda sbo to= 1.8 or 1.3 g/serv
54101010	Cracker, animal (incl arrowroot cookie)	Add sda sbo to= 1.8 or 1.3 g/serv
54102010	Crackers, graham	Add sda sbo to= 1.8 or 1.3 g/serv
54102020	Crackers, graham, chocolate covered	Add sda sbo to= 1.8 or 1.3 g/serv
54102030	Crackers, graham, sugar-honey coated, cinnamon cris	Add sda sbo to= 1.8 or 1.3 g/serv
54102050	Crackers, oatmeal	Add sda sbo to= 1.8 or 1.3 g/serv
54102060	Crackers, cuban	Add sda sbo to= 1.8 or 1.3 g/serv
54102090	Cracker, graham, higher fat	Add sda sbo to= 1.8 or 1.3 g/serv
54102100	Crackers, graham, lowfat	Add sda sbo to= 1.8 or 1.3 g/serv
54102110	Crackers, graham, fat free	Add sda sbo to= 1.8 or 1.3 g/serv
54102200	Crackers, graham, sandwich-type, with filling	Add sda sbo to= 1.8 or 1.3 g/serv
54202010	Crackers, saltine, low sodium	Add sda sbo to= 1.8 or 1.3 g/serv
54202050	Crackers, saltine, fat free, low sodium	Add sda sbo to= 1.8 or 1.3 g/serv
54203010	Crackers, toast thins (rye/wheat/white), low sodium	Add sda sbo to= 1.8 or 1.3 g/serv
54204010	Cracker, 100% whole wheat,lo sodium	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
54205010	Cracker, snack, low sodium	Add sda sbo to= 1.8 or 1.3 g/serv
54205030	Cracker, cheese, low sodium	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
54205100	Cracker, snack, lowfat, low sodium	Add sda sbo to= 1.8 or 1.3 g/serv
54210010	Cracker, multigrain, salt-free	Add sda sbo to= 1.8 or 1.3 g/serv
54301000	Cracker, snack	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
54301100	Cracker, snack, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv
54301200	Cracker, snack, fat free	Add sda sbo to= 1.8 or 1.3 g/serv
54304000	Crackers, cheese	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
54304100	Cracker, cheese, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv
54304500	Cracker, high fiber, no added fat	Add sda sbo to= 1.8 or 1.3 g/serv
54305000	Crispbread, wheat, no added fat	Add sda sbo to= 1.8 or 1.3 g/serv
54305500	Crispbread,wheat / rye, extra crispy	Add sda sbo to= 1.8 or 1.3 g/serv
54307000	Crackers, matzo	Add sda sbo to= 1.8 or 1.3 g/serv
54308000	Crackers, milk	Add sda sbo to= 1.8 or 1.3 g/serv
54309000	Crackers, oat bran (include nabisco oat thins)	Add sda sbo to= 1.8 or 1.3 g/serv
54313000	Crackers, oyster	Add sda sbo to= 1.8 or 1.3 g/serv
54318500	Rice cake, cracker-type	Add sda sbo to= 1.8 or 1.3 g/serv
54319000	Crackers, rice	Add sda sbo to= 1.8 or 1.3 g/serv
54319010	Puffed rice cake	Add sda sbo to= 1.8 or 1.3 g/serv
54319020	Popcorn cake (incl puffed corn & rice cake)	Add sda sbo to= 1.8 or 1.3 g/serv
54319500	Rice paper	Add sda sbo to= 1.8 or 1.3 g/serv
54322000	Crispbread, rye, no added fat	Add sda sbo to= 1.8 or 1.3 g/serv
54325000	Crackers, saltines	Add sda sbo to= 1.8 or 1.3 g/serv
54325050	Crackers, saltine, whole wheat	Add sda sbo to= 1.8 or 1.3 g/serv
54328000	Cracker, sandwich-type, nfs	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
54328100	Cracker,sandwich-type,peanut butter filled	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo

Food Code	Baked Goods - Food Description	Recipe Alteration
54328200	Cracker,sandwich-type, cheese-filled	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
54334000	Crackers, toast thins	Add sda sbo to= 1.8 or 1.3 g/serv
54336000	Cracker, water biscuit	Add sda sbo to= 1.8 or 1.3 g/serv
54337000	Cracker, 100% whole wheat	Add sda sbo to= 1.3 g/serv, remove portion of non sbo, add sda sbo to= 1.8g/serv
54337050	Cracker, 100% whole wheat, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv
54338000	Crackers, wheat	Replace existing sbo with 1.8 or 1.3 g/serv sda sbo
54338100	Crackers, wheat, reduced fat	Add sda sbo to= 1.8 or 1.3 g/serv

### Ready-to-Eat Breakfast Cereals

Food Code	Breakfast Cereals- Food Description	Recipe Alteration
56200300	Cereal, cooked, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
56200350	Cereal, cooked, instant, ns as to grain	Add SDA SBO to= 1.8 or 1.3 g/serv
56202960	Oatmeal,cooked,ns as to reg,quick/inst,ns to fat	Add SDA SBO to= 1.8 or 1.3 g/serv
56202970	Oatmeal, cooked, quick, ns to fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56202980	Oatmeal, cooked, reg, ns to fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203000	Oatmeal, cooked, nfs, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203010	Oatmeal, cooked, regular, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203020	Oatmeal, cooked, quick, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203030	Oatmeal, cooked, instant, no fat added in cooking	Add SDA SBO to= 1.8 or 1.3 g/serv
56203040	Oatmeal, fat added in cooking, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
56203050	Oatmeal, regular, fat added in cooking	Add SDA SBO to= 1.8 or 1.3 g/serv
56203060	Oatmeal, quick, fat added in cooking	Add SDA SBO to= 1.8 or 1.3 g/serv
56203070	Oatmeal, instant, fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203080	Oatmeal, instant, ns as to added fat	Add SDA SBO to= 1.8 or 1.3 g/serv
56203090	Oatmeal, fortified, instant, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203100	Oatmeal, fortified, instant, fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203200	Oatmeal, w/ fruit, cooked	Add SDA SBO to= 1.8 or 1.3 g/serv
56203210	Oatmeal, ns type, made w/ milk, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203220	Oatmeal, ns type, made w/ milk, fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56203230	Oatmeal, ns type, made w/ milk, ns as to added fat	Add SDA SBO to= 1.8 or 1.3 g/serv
56203540	Oatmeal, w/ evaporated milk & sugar, p.r. style	Add SDA SBO to= 1.8 or 1.3 g/serv
56203610	Oatmeal, multigrain, cooked, fat not added	Add SDA SBO to= 1.8 or 1.3 g/serv
56206970	Wheat, cream of,cooked,quick,ns as to added fat	Add SDA SBO to= 1.8 or 1.3 g/serv
56207010	Wheat, cream of, cooked, regular, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56207020	Wheat, cream of, cooked, quick, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56207030	Wheat, cream of, cooked, instant, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56207040	Wheat, cream of, made w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
56207060	Wheat, cream of, instant, cooked, fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56207080	Wheat, cream of,cooked,ns as to reg,quick, or inst	Add SDA SBO to= 1.8 or 1.3 g/serv
56207190	Whole wheat cereal, cooked, ns as to added fat	Add SDA SBO to= 1.8 or 1.3 g/serv
56207200	Whole wheat cereal, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Breakfast Cereals- Food Description	Recipe Alteration
56207220	Wheat, cream of, cooked, regular, fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56207230	Wheat, cream of, cooked,quick,fat added in cooking	Add SDA SBO to= 1.8 or 1.3 g/serv
56207300	Whole wheat cereal, w/ barley, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56207330	Whole wheat cereal, wheat & barley, fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56207340	Whole wheat cereal, wheat & barley, added fat ns	Add SDA SBO to= 1.8 or 1.3 g/serv
56207360	Wheat cereal, choc flavored, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56208500	Oat bran cereal, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56208530	Oat bran cereal, made w/ milk, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
57000000	Cereal, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
57000050	Kashi cereal, ns as to ready-to-eat or cooked	Add SDA SBO to= 1.8 or 1.3 g/serv
57000100	Oat cereal, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
57100100	Cereal, ready-to-eat, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
57101000	All-bran cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57101020	All bran cereal w/ extra fiber	Add SDA SBO to= 1.8 or 1.3 g/serv
57101500	Almond delight cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57103000	Alpha-bits cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57103020	Alpha-bits w/ marshmallows cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57103050	Amaranth flakes cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57103100	Apple cinnamon cheerios	Add SDA SBO to= 1.8 or 1.3 g/serv
57103400	Apple cinnamon oh's cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57103500	Apple cinnamon squares mini-wheats cereal, kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57104000	Apple jacks cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57106050	Banana nut crunch cereal (post)	Add SDA SBO to= 1.8 or 1.3 g/serv
57106100	Basic 4 (rte cereal)	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57106250	Berry berry kix	Add SDA SBO to= 1.8 or 1.3 g/serv
57106530	Blueberry morning, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57107000	Booberry cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57110000	All-bran bran buds cereal, kellogg's (formerly bran buds)	Add SDA SBO to= 1.8 or 1.3 g/serv
57117000	Cap'n crunch cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57119000	Cap'n crunch's crunch berries cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57120000	Cap'n crunch's peanut butter crunch cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57123000	Cheerios	Add SDA SBO to= 1.8 or 1.3 g/serv
57124000	Chex cereal, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
57124200	Chocolate flavored frosted puffed corn cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57124500	Cinnamon grahams cereal, generalmills	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57125000	Cinnamon toast crunch cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57125900	Honey nut clusters cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57126000	Cocoa krispies cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57127000	Cocoa pebbles cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57128000	Cocoa puffs cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57128880	Common sense oat bran cereal, plain	Add SDA SBO to= 1.8 or 1.3 g/serv
57130000	Cookie-crisp cereal (include all flavors)	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Breakfast Cereals- Food Description	Recipe Alteration
57131000	Crunchy corn bran cereal, quaker	Add SDA SBO to= 1.8 or 1.3 g/serv
57132000	Corn chex cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57134000	Corn flakes, nfs (include store brands)	Add SDA SBO to= 1.8 or 1.3 g/serv
57135000	Corn flakes, kellogg	Add SDA SBO to= 1.8 or 1.3 g/serv
57137000	Corn puffs cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57138000	Total corn flakes	Add SDA SBO to= 1.8 or 1.3 g/serv
57139000	Count chocula cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57143000	Cracklin' oat bran cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57148000	Crispix cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57148600	Harmony cereal, General Mills	Add SDA SBO to= 1.8 or 1.3 g/serv
57151000	Crispy rice cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57152000	Crispy wheats'n raisins cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57201800	Disney cereals, Kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57206700	Fiber one cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57207000	Bran flakes cereal, nfs (formerly 40% bran flakes, nfs)	Add SDA SBO to= 1.8 or 1.3 g/serv
57208000	Complete wheat bran flakes, kellogg's (form.40% bran flakes)	Add SDA SBO to= 1.8 or 1.3 g/serv
57209000	Natural bran flakes cereal, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57212100	French toast crunch cereal, general mills	Add SDA SBO to= 1.8 or 1.3 g/serv
57213000	Froot loops cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57213800	Frosted bran,kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57213850	Frosted cheerios cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57214000	Frosted mini-wheats cereal (incl all flavors)	Add SDA SBO to= 1.8 or 1.3 g/serv
57214100	Frosted wheat bites	Add SDA SBO to= 1.8 or 1.3 g/serv
57218000	Frosted rice krispies cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57219000	Fruit & fibre cereal, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
57221000	Fruit & fibre cereal, w/ dates, raisins, & walnuts	Add SDA SBO to= 1.8 or 1.3 g/serv
57221700	Fruit rings, nfs (include store brands)	Add SDA SBO to= 1.8 or 1.3 g/serv
57221800	Fruit whirls cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57223000	Fruity pebbles cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57224000	Golden grahams cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57227000	Granola, nfs	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
57228000	Granola, homemade	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
57229000	Granola, lowfat, kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57229500	Granola w/ raisins, lowfat, kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57230000	Grape-nuts cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57231000	Grape-nut flakes	Add SDA SBO to= 1.8 or 1.3 g/serv
57231200	Great grains, raisin, date, & pecan,whole grain cereal, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57231250	Great grains double pecan whole grain cereal, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57232100	Healthy choice almond crunch cereal w/ raisins	Add SDA SBO to= 1.8 or 1.3 g/serv
57232120	Healthy choice multi-grain flakes cereal, kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57237100	Honey bunches of oats cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57237300	Honey bunches of oats w/ almonds, post	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv

Food Code	Breakfast Cereals- Food Description	Recipe Alteration
57238000	Honeycomb cereal, plain	Add SDA SBO to= 1.8 or 1.3 g/serv
57239100	Honey crunch corn flakes cereal, kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57240100	Honey nut chex cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57241000	Honey nut cheerios	Add SDA SBO to= 1.8 or 1.3 g/serv
57241200	Honey nut shredded wheat cereal, post	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57243000	Honey smacks cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57244000	Just right cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57245000	Just right fruit & nut cereal (w/ raisins, dates, nuts)	Add SDA SBO to= 1.8 or 1.3 g/serv
57301100	Kaboom cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57301500	Kashi, puffed	Add SDA SBO to= 1.8 or 1.3 g/serv
57302100	King vitaman cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57303100	Kix cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57304100	Life cereal (plain & cinnamon)	Add SDA SBO to= 1.8 or 1.3 g/serv
57305100	Lucky charms cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57305150	Frosted oat cereal w/ marshmallows	Add SDA SBO to= 1.8 or 1.3 g/serv
57305170	Malt-o-meal coco-roos cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57305210	Malt-o-meal frosted flakes	Add SDA SBO to= 1.8 or 1.3 g/serv
57305500	Malt-o-meal honey & nut toasty o's cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57305600	Malt-o-meal marshmallow mateys cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57306500	Malt-o-meal golden puffs cereal (formerly sugar puffs)	Add SDA SBO to= 1.8 or 1.3 g/serv
57306800	Malt-o-meal tootie fruities (rte cereal)	Add SDA SBO to= 1.8 or 1.3 g/serv
57307100	Fruity marshmallow krispies cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57307150	Marshmallow safari cereal, quaker	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57307550	Mini buns cereal (cinnamon)	Add SDA SBO to= 1.8 or 1.3 g/serv
57308150	Mueslix cereal, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
57308190	Muesli with raisins, dates, and almonds	Add SDA SBO to= 1.8 or 1.3 g/serv
57308300	Multi bran chex	Add SDA SBO to= 1.8 or 1.3 g/serv
57308400	Multi grain cheerios	Add SDA SBO to= 1.8 or 1.3 g/serv
57309100	Nature valley granola, w/ fruit & nuts	Add SDA SBO to= 1.8 or 1.3 g/serv
57311800	Nut and honey crunch flaked cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57315000	Nutri-grain golden wheat cereal (formerly nutri-grain wheat)	Add SDA SBO to= 1.8 or 1.3 g/serv
57316100	Nutri-grain almond raisin cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57316300	Oat bran flakes, health valley	Add SDA SBO to= 1.8 or 1.3 g/serv
57316410	Apple cinnamon oatmeal crisp cereal (oatmeal crisp w/ apples)	Add SDA SBO to= 1.8 or 1.3 g/serv
57316450	Oatmeal crisp w/ almonds cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57316500	Oatmeal raisin crisp cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57316710	Oh's, honey graham cereal	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57317200	Oat flakes cereal, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57318000	100% bran cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57319000	100% natural cereal, plain, quaker	Add SDA SBO to= 1.8 or 1.3 g/serv
57322500	Oreo o's cereal, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57323000	Sweet crunch cereal, quaker (formerly popeye)	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Breakfast Cereals- Food Description	Recipe Alteration
57323050	Sweet puffs cereal, quaker	Add SDA SBO to= 1.8 or 1.3 g/serv
57323200	Pop tarts crunch cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57325000	Product 19 cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57327450	Quaker oat bran cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57327500	Quaker oatmeal squares cereal (formerly quaker oat squares)	Add SDA SBO to= 1.8 or 1.3 g/serv
57329000	Raisin bran cereal, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
57330000	Raisin bran cereal, kellogg	Add SDA SBO to= 1.8 or 1.3 g/serv
57331000	Raisin bran cereal, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57332050	Raisin bran, total	Add SDA SBO to= 1.8 or 1.3 g/serv
57332100	Raisin nut bran cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57335550	Reese's peanut butter puffs cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57336000	Rice chex cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57339000	Rice krispies cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57339500	Rice krispies treats cereal (kellogg's)	Add SDA SBO to= 1.8 or 1.3 g/serv
57340000	Puffed rice cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57341000	Shredded wheat 'n bran cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57341200	Smart start, kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57344000	Special k cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57346500	Toasted oatmeal, honey nut (quaker)	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
57347000	Corn pops cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57347500	Strawberry squares mini-wheats cereal(strawberry squares)	Add SDA SBO to= 1.8 or 1.3 g/serv
57348000	Frosted corn flakes, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
57349000	Frosted flakes, kellogg	Add SDA SBO to= 1.8 or 1.3 g/serv
57354000	Sun flakes cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57355000	Golden crisp cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57401100	Toasted oat cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57402610	Temptations cereal, honey roasted pecan, kellogg's	Add SDA SBO to= 1.8 or 1.3 g/serv
57403100	Toasties, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57404100	Malt-o-meal toasty o's cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57406100	Total cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57407100	Trix cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57408100	Uncle sam's hi fiber cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57409100	Waffle crisp cereal, post	Add SDA SBO to= 1.8 or 1.3 g/serv
57410000	Weetabix whole wheat cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57411000	Wheat chex cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57412000	Wheat germ cereal, plain	Add SDA SBO to= 1.8 or 1.3 g/serv
57416000	Puffed wheat cereal, plain	Add SDA SBO to= 1.8 or 1.3 g/serv
57416010	Wheat, puffed, presweetened w/ sugar	Add SDA SBO to= 1.8 or 1.3 g/serv
57417000	Shredded wheat, 100%	Add SDA SBO to= 1.8 or 1.3 g/serv
57418000	Wheaties cereal	Add SDA SBO to= 1.8 or 1.3 g/serv
57418200	Wheaties cereal, honey frosted (formerly wheaties honey gold)	Add SDA SBO to= 1.8 or 1.3 g/serv
57601100	Wheat bran, unprocessed	Add SDA SBO to= 1.8 or 1.3 g/serv
57602100	Oats, raw	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Breakfast Cereals- Food Description	Recipe Alteration
57602500	Oat bran, uncooked	Add SDA SBO to= 1.8 or 1.3 g/serv

**Cheese**

Food Code	Cheese- Food Description	Recipe Alteration
14010000	Cheese, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
14010100	Cheese,cheddar/american type,ns natural or processed	Add SDA SBO to= 1.8 or 1.3 g/serv
14100100	Cheese, natural, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
14102010	Cheese, brick	Add SDA SBO to= 1.8 or 1.3 g/serv
14103020	Cheese, brie	Add SDA SBO to= 1.8 or 1.3 g/serv
14104400	Cheese, feta (include goat cheese)	Add SDA SBO to= 1.8 or 1.3 g/serv
14104600	Cheese, fontina	Add SDA SBO to= 1.8 or 1.3 g/serv
14104700	Cheese, goat	Add SDA SBO to= 1.8 or 1.3 g/serv
14107010	Cheese, mozzarella, nfs (include pizza cheese)	Add SDA SBO to= 1.8 or 1.3 g/serv
14107020	Cheese, mozzarella, whole milk	Add SDA SBO to= 1.8 or 1.3 g/serv
14107030	Cheese, mozzarella, part skim (incl ""lowfat"")	Add SDA SBO to= 1.8 or 1.3 g/serv
14107060	Cheese, mozzarella, nonfat or fat free	Add SDA SBO to= 1.8 or 1.3 g/serv
14107200	Cheese, muenster	Add SDA SBO to= 1.8 or 1.3 g/serv
14107210	Cheese, muenster, low sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
14107250	Cheese, muenster, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
14108200	Cheese, port du salut	Add SDA SBO to= 1.8 or 1.3 g/serv
14108800	Cheese, semi-soft, low sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
14133000	Queso fresco (hispanic-style farmer cheese)	Add SDA SBO to= 1.8 or 1.3 g/serv
14201500	Cheese, ricotta	Add SDA SBO to= 1.8 or 1.3 g/serv
14301010	Cheese, cream	Add SDA SBO to= 1.8 or 1.3 g/serv
14303010	Cheese, cream, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
14410100	Cheese, processed, american & swiss blends	Add SDA SBO to= 1.8 or 1.3 g/serv
14410200	Cheese, processed, american/cheddar type	Add SDA SBO to= 1.8 or 1.3 g/serv
14410210	Cheese, processed, american/cheddar, low sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
14410300	Cheese, processed, american/cheddar type, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
14410330	Cheese, proc cheese product, amer/ched, red fat	Add SDA SBO to= 1.8 or 1.3 g/serv
14410340	Cheese,proc cheese prod,amer/ched,red fat & sodiu	Add SDA SBO to= 1.8 or 1.3 g/serv
14410350	Cheese, processed, american/cheddar type, nonfat	Add SDA SBO to= 1.8 or 1.3 g/serv
14410380	Cheese, processed cream cheese product, nonfat	Add SDA SBO to= 1.8 or 1.3 g/serv
14410400	Cheese, processed, swiss	Add SDA SBO to= 1.8 or 1.3 g/serv
14410420	Cheese, processed, swiss, low fat	Add SDA SBO to= 1.8 or 1.3 g/serv
14410500	Cheese, processed, cheese food	Add SDA SBO to= 1.8 or 1.3 g/serv
14410600	Cheese, processed, w/vegetables(incl pepper cheese)	Add SDA SBO to= 1.8 or 1.3 g/serv
14420000	Cheese spread, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
14420100	Cheese spread, american or cheddar cheese base	Add SDA SBO to= 1.8 or 1.3 g/serv
14420200	Cheese spread, cream cheese or neufchatel base	Add SDA SBO to= 1.8 or 1.3 g/serv
14420300	Cheese spread, pressurized can	Add SDA SBO to= 1.8 or 1.3 g/serv
14502040	Imitation cheese, amer/cheddar type, low cholester	Replace Existing SBO with 1.8 or 1.3 g/serv SDA

Food Code	Cheese- Food Description	Recipe Alteration
		SBO
14504010	Imitation mozzarella cheese (incl pizza mate)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
14620100	Dip, cream cheese base	Add SDA SBO to= 1.8 or 1.3 g/serv
14620120	Shrimp dip, cream cheese base (incl clam dip)	Add SDA SBO to= 1.8 or 1.3 g/serv
14620150	Dip, cheese w/ chili pepper (chili con queso)	Add SDA SBO to= 1.8 or 1.3 g/serv
14620200	Dip, cheese base other than cream cheese	Add SDA SBO to= 1.8 or 1.3 g/serv
14650100	Cheese sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
14650150	Cheese sauce made w/ lowfat cheese	Add SDA SBO to= 1.8 or 1.3 g/serv
14660200	Cheese, nuggets, fried (incl banquet brand)	Add SDA SBO to= 1.8 or 1.3 g/serv
14200100	Cheese, cottage, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
14201010	Cheese, cottage, creamed	Add SDA SBO to= 1.8 or 1.3 g/serv
14201200	Cottage cheese, farmer's	Add SDA SBO to= 1.8 or 1.3 g/serv
14202010	Cheese, cottage, w/ fruit	Add SDA SBO to= 1.8 or 1.3 g/serv
14203010	Cheese, cottage, dry curd	Add SDA SBO to= 1.8 or 1.3 g/serv
14203020	Cheese, cottage, salted, dry curd	Add SDA SBO to= 1.8 or 1.3 g/serv
14203510	P.r. white cheese (queso del pais, blanco)	Add SDA SBO to= 1.8 or 1.3 g/serv
14204010	Cheese, cottage, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
14204020	Cheese, cottage, lowfat, w/ fruit	Add SDA SBO to= 1.8 or 1.3 g/serv
14207010	Cheese, cottage, lowfat, lactose reduced	Add SDA SBO to= 1.8 or 1.3 g/serv
14210000	Cheese, yogurt, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
14610200	Cottage cheese, w/ gelatin dessert	Add SDA SBO to= 1.8 or 1.3 g/serv
14610210	Cottage cheese, w/ gelatin dessert & fruit	Add SDA SBO to= 1.8 or 1.3 g/serv

### Dairy Product Analogs

Food Code	Dairy Product Analog- Food Description	Recipe Alteration
12200100	cream substitute, ns as to frozen, liquid or powder	Add SDA SBO to= 1.8 or 1.3 g/serv
12210100	cream substitute, frozen	Add SDA SBO to= 1.8 or 1.3 g/serv
12210200	cream substitute, liquid (include coffee whitener)	Add SDA SBO to= 1.8 or 1.3 g/serv
12210250	cream substitute, light, liquid	Add SDA SBO to= 1.8 or 1.3 g/serv
12210400	cream substitute, powdered	Add SDA SBO to= 1.8 or 1.3 g/serv
12210410	cream subst, light, powdered (incl coffee mate, cre	Add SDA SBO to= 1.8 or 1.3 g/serv

### Fats and oils: margarine/spreads and dressings for salads, mayonnaise

Food Code	Fat and Oil- Food Description	Recipe Alteration
83100100	salad dressing, nfs	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83101000	blue or roquefort cheese dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83101500	bacon dressing (hot)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO

Food Code	Fat and Oil- Food Description	Recipe Alteration
83101600	bacon & tomato dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83102000	caesar dresssing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83103000	coleslaw dresssing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83103500	feta cheese salad dressing	Add SDA SBO to= 1.8 or 1.3 g/serv
83104000	french dresssing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83105100	fruit dressing, made w/ honey, oil, water	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83105500	honey mustard dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83106000	italian dressing, w/ vinegar & oil	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83109000	russian dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83112000	green goddess dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83112500	creamy dressing, w/sour cream/buttermilk & oil	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83112600	cream cheese dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83112950	poppy seed dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83112960	peppercorn dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83112980	celery seed dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83112990	sesame dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83113000	sweet & sour dressing	Add SDA SBO to= 1.8 or 1.3 g/serv
83114000	thousand island dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83115000	yogurt dressing	Add SDA SBO to= 1.8 or 1.3 g/serv
83200100	salad dressing, low calorie, nfs	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83201000	blue or roquefort cheese dressing, low calorie	Add SDA SBO to= 1.8 or 1.3 g/serv
83201050	blue or roquefort cheese dressing, reduced calorie	Add SDA SBO to= 1.8 or 1.3 g/serv
83201200	blue/roquefort cheese dressing,red cal,no fat/chol	Add SDA SBO to= 1.8 or 1.3 g/serv
83202000	french dressing, low calorie	Add SDA SBO to= 1.8 or 1.3 g/serv
83202010	french dressing, reduced calorie,fat-free,chol-free	Add SDA SBO to= 1.8 or 1.3 g/serv
83202020	french dressing, reduced calorie	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83203000	caesar dressing, low calorie	Add SDA SBO to= 1.8 or 1.3 g/serv
83205000	italian dressing, low calorie	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83205450	italian dressing, reduced calorie	Add SDA SBO to= 1.8 or 1.3 g/serv
83205500	italian dressing, reduced calorie, fat-free	Add SDA SBO to= 1.8 or 1.3 g/serv
83206000	russian dressing, low calorie	Add SDA SBO to= 1.8 or 1.3 g/serv
83207000	thousand island dressing, low calorie	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83207100	thousand island drsg,reduced cal,fat-free,chol-free	Add SDA SBO to= 1.8 or 1.3 g/serv
83208000	vinegar, sugar & water dressing	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Fat and Oil- Food Description	Recipe Alteration
83210000	creamy dressing w/ buttermilk, ns low/reduced cal	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83210100	crmy drsg w/ sour crm &/ buttermilk & oil, red cal	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83210200	crmy drsg w/sour crm&/btrrmilk,red cal,nofat/chol	Add SDA SBO to= 1.8 or 1.3 g/serv
83210250	crmy drsg w/sour crm&/buttrmilk&oil,red cal,nochoc	Add SDA SBO to= 1.8 or 1.3 g/serv
83220000	salad dressing, low calorie, oil-free	Add SDA SBO to= 1.8 or 1.3 g/serv
81100000	table fat, nfs	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81100500	butter, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
81101000	butter, stick, salted	Add SDA SBO to= 1.8 or 1.3 g/serv
81101010	butter, whipped, tub, salted	Add SDA SBO to= 1.8 or 1.3 g/serv
81101100	butter, stick, unsalted	Add SDA SBO to= 1.8 or 1.3 g/serv
81101110	butter, whipped, tub, unsalted	Add SDA SBO to= 1.8 or 1.3 g/serv
81101500	light butter, stick, salted	Add SDA SBO to= 1.8 or 1.3 g/serv
81101510	light butter, stick, unsalted	Add SDA SBO to= 1.8 or 1.3 g/serv
81101520	light butter, whipped, tub, salted	Add SDA SBO to= 1.8 or 1.3 g/serv
81102000	margarine, nfs	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81102010	margarine, stick, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81102020	margarine, tub, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81102030	margarine, liquid, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81103020	margarine, whipped, tub, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81103030	margarine, stick, unsalted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81103040	margarine-like spread, stick, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81103041	margarine-like spread, made w/ yogurt, stick, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81103060	margarine, tub, unsalted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81103080	margarine-like spread, tub, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81103090	margarine-like spread, liquid, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81103130	margarine-like spread, whipped, tub, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81104010	margarine-like spread, red cal, 40% fat, tub, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81104011	margarine-like spread,red cal,40% fat,made w/ yogurt,tub	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81104020	margarine-like spread, red cal, 40% fat, stick, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81104050	margarine-like spread, red cal, 20% fat, tub, salted	Add SDA SBO to= 1.8 or 1.3 g/serv
81104560	vegetable oil-butter spread, red cal, tub, salted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
81105010	butter-margarine blend, stick, salted	Add SDA SBO to= 1.8 or 1.3 g/serv
81105020	butter-margarine blend, tub, salted	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
81105030	butter-margarine blend, stick, unsalted	Replace Existing SBO with 1.3 g/serv SDA SBO,

Food Code	Fat and Oil- Food Description	Recipe Alteration
		Add SDA SBO to= 1.8 g/serv
81302040	sandwich spread	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83107000	mayonnaise, regular	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83107100	mayonnaise, made w/ yogurt (include yogannaise)	Add SDA SBO to= 1.8 or 1.3 g/serv
83107200	mayonnaise, made w/ tofu	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83108000	mayonnaise, imitation	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83108100	mayonnaise, imitation, no cholesterol	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83110000	mayonnaise-type salad dressing	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83204000	mayonnaise, low calorie or diet	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83204020	mayonnaise, reduced-calorie/diet, cholesterol-free	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83204050	mayonnaise-type salad dressing, low calorie	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
83204060	mayonnaise-type salad dressing,diet,no cholesterol	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO

### Fish Products-entrees with Sauce

Food Code	Fish Product- Food Description	Recipe Alteration
27150010	Fish w/ cream or white sauce, not tuna or lobster	Add SDA SBO to= 1.8 or 1.3 g/serv
27150100	Shrimp, curried	Add SDA SBO to= 1.8 or 1.3 g/serv
27150110	Shrimp cocktail (shrimp w/ cocktail sauce)	Add SDA SBO to= 1.8 or 1.3 g/serv
27150160	Shrimp w/ lobster sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27150170	Sweet & sour shrimp	Add SDA SBO to= 1.8 or 1.3 g/serv
27150200	Oyster sce (white sce-based)	Add SDA SBO to= 1.8 or 1.3 g/serv
27150310	Fish w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27150330	Mussels w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27150350	Sardines w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27150410	Shrimp teriyaki	Add SDA SBO to= 1.8 or 1.3 g/serv
27151050	Shrimp in garlic sauce, p.r. (camarones al ajillo)	Add SDA SBO to= 1.8 or 1.3 g/serv
27151070	Stewed codfish, p.r.	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27250130	Shrimp & noodles w/ cheese sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27250610	Tuna noodle casserole w/ cream or white sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27250630	Tuna noodle casserole w/ (mushroom) soup	Add SDA SBO to= 1.8 or 1.3 g/serv
27250710	Tuna & rice w/ (mushroom) soup (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27250830	Fish & rice w/ (mushroom) soup	Add SDA SBO to= 1.8 or 1.3 g/serv
27250950	Shellfish & noodles, tomato-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27350020	Paella with seafood	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27350050	Shrimp chow mein or chop suey w/ noodles	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Fish Product- Food Description	Recipe Alteration
27350060	Shrimp creole w/ rice (include shrimp jambalaya)	Add SDA SBO to= 1.8 or 1.3 g/serv
27350070	Tuna pot pie	Add SDA SBO to= 1.8 or 1.3 g/serv
27350080	Tuna noodle casserole w/ veg, cream or white sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27350110	Bouillabaisse	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27350410	Tuna noodle casserole w/ veg & (mushroom) soup	Add SDA SBO to= 1.8 or 1.3 g/serv
27351010	Codfish w/ starchy veg, p.r. (serenata de bacalao)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27450010	Crab salad	Add SDA SBO to= 1.8 or 1.3 g/serv
27450020	Lobster salad	Add SDA SBO to= 1.8 or 1.3 g/serv
27450030	Salmon salad	Add SDA SBO to= 1.8 or 1.3 g/serv
27450060	Tuna salad	Add SDA SBO to= 1.8 or 1.3 g/serv
27450070	Shrimp salad	Add SDA SBO to= 1.8 or 1.3 g/serv
27450080	Seafood salad	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27450090	Tuna salad w/ cheese	Add SDA SBO to= 1.8 or 1.3 g/serv
27450100	Tuna salad w/ egg	Add SDA SBO to= 1.8 or 1.3 g/serv
27450310	Lomi salmon	Add SDA SBO to= 1.8 or 1.3 g/serv
27450410	Shrimp & veg (w/ car/dk green, no pot), soy sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27450420	Shrimp & veg (no carrot/dk green, no pot),soy sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27450450	Shrimp creole, no rice	Add SDA SBO to= 1.8 or 1.3 g/serv
27450470	Kung pao shrimp	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27450510	Tuna casserole w/ veg & soup, no noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27450600	Shellfish mixture & veg (incl car/dk grn), soy sce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27450710	Fish & veg (no car/dk grn, no pot), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27450740	Fish & vegetables (w/ car/dk grn), soy-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27550000	Fish sandwich, on bun, w/ spread	Add SDA SBO to= 1.8 or 1.3 g/serv
27550100	Fish sandwich, on bun, w/ cheese and spread	Add SDA SBO to= 1.8 or 1.3 g/serv
27550720	Tuna salad sandwich	Add SDA SBO to= 1.8 or 1.3 g/serv
27550750	Tuna salad sub, on roll, w/ lettuce	Add SDA SBO to= 1.8 or 1.3 g/serv
28150510	Fish in lemon sauce w/ starch item, veg (froz meal)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
28154010	Shrimp & veg in sauce w/ noodles (diet frozen meal)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv

**Frozen Dairy Desserts and Mixes**

Food Code	Frozen Dairy Dessert –Food Description	Recipe Alteration
13150000	Sherbet, all flavors	Add SDA SBO to= 1.8 or 1.3 g/serv
13160000	Milk dessert, frozen, made from lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
13160100	Milk dessert,fzn,lowfat,w/low cal sweet,not choc	Add SDA SBO to= 1.8 or 1.3 g/serv
13160150	Milk dessert, froz, nonfat, w/ low cal sweetener chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
13160160	Milk dessert, froz, nonfat, w/ low cal sweetener, not choc	Add SDA SBO to= 1.8 or 1.3 g/serv

13160200	Milk dessert,frozen,lowfat,not chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
13160210	Milk dessert, frozen, lowfat, chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
13160400	Milk dessert, froz, milk-fat free, not choc	Add SDA SBO to= 1.8 or 1.3 g/serv
13160410	Milk dessert, froz, milk-fat free, choc	Add SDA SBO to= 1.8 or 1.3 g/serv
13160550	Milk dsrt,froz,milk-fat free,w/simplesse, not choc	Add SDA SBO to= 1.8 or 1.3 g/serv
13160600	Milk dessert, froz, w/ low cal sweetener, not choc	Add SDA SBO to= 1.8 or 1.3 g/serv
13160650	Milk dessert, froz, w/ low cal sweetener, chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
11459990	Yogurt, frozen, ns as to flavor, ns to type of milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11460000	Yogurt, frozen, not chocolate, type of milk ns	Add SDA SBO to= 1.8 or 1.3 g/serv
11460100	Yogurt, frozen, chocolate, type of milk ns	Add SDA SBO to= 1.8 or 1.3 g/serv
11460150	Yogurt, frozen, ns as to flavor, lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11460160	Yogurt, frozen, chocolate, lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11460170	Yogurt, frozen, not chocolate, lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11460190	Yogurt, frozen, ns as to flavor, nonfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11460200	Yogurt, frozen, chocolate, nonfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11460300	Yogurt, frozen, not chocolate, nonfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11460400	Yogurt,frz,chocolate,nonfat milk,w/ low-cal sweet	Add SDA SBO to= 1.8 or 1.3 g/serv
11460410	Yogurt,frz,not choc,nonfat milk,w/ low-cal sweet	Add SDA SBO to= 1.8 or 1.3 g/serv
11460440	Yogurt, frozen, not chocolate, whole milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11461250	Yogurt, frozen, cone, chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
11461260	Yogurt, frozen, cone, not chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
11461270	Yogurt, frozen, cone, not chocolate, lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11461280	Yogurt, froz, cone, chocolate, lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
13142000	Milk dessert bar/stick, frozen, w/ coconut	Add SDA SBO to= 1.8 or 1.3 g/serv
13161000	Milk dessert bar, frozen, made from lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
13161500	Milk dessert sandwich bar, frozen, dietary	Add SDA SBO to= 1.8 or 1.3 g/serv
13161600	Milk des bar, frozen, lofat milk&lo cal sweetener	Add SDA SBO to= 1.8 or 1.3 g/serv

## Gelatins-Puddings

Food Code	Puddings- Food Description	Recipe Alteration
13200110	Pudding, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
13210110	Pudding, bread (include w/ raisins)	Add SDA SBO to= 1.8 or 1.3 g/serv
13210180	Pudding, mexican bread (capirotada)	Add SDA SBO to= 1.8 or 1.3 g/serv
13210220	Pudding, chocolate, rte, ns from dry mix or canned	Add SDA SBO to= 1.8 or 1.3 g/serv
13210250	Pudding, choc, rte, lo cal, w/ art swtner, ns dry/can	Add SDA SBO to= 1.8 or 1.3 g/serv
13210280	Pudding, not choc, rte, ns from dry mix or canned	Add SDA SBO to= 1.8 or 1.3 g/serv
13210290	Pudding, not choc, rte, lo cal, w/ art swtner	Add SDA SBO to= 1.8 or 1.3 g/serv
13210410	Pudding, rice	Add SDA SBO to= 1.8 or 1.3 g/serv
13210520	Pudding, tapioca,made from dry mix,made w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
13210610	Pudding, coconut	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
13210710	Pudding, indian (milk, molasses, cornmeal-based)	Add SDA SBO to= 1.8 or 1.3 g/serv
13210750	Pudding, pumpkin	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv

Food Code	Puddings- Food Description	Recipe Alteration
13210810	P.r. pumpkin pudding (flan de calabaza)	Add SDA SBO to= 1.8 or 1.3 g/serv
13220110	Pudding,not chocolate,prepared from dry mix,milk added	Add SDA SBO to= 1.8 or 1.3 g/serv
13220120	Pudding,chocolate,prepared from dry mix,milk added	Add SDA SBO to= 1.8 or 1.3 g/serv
13220210	Pudding,not choc,from dry,low cal,artificial sweet,w/milk	Add SDA SBO to= 1.8 or 1.3 g/serv
13220220	Pudding,choc,from dry,low cal,artificial sweet,milk added	Add SDA SBO to= 1.8 or 1.3 g/serv
13220230	Pudding, can, choc, reduced fat (incl jell-o light)	Add SDA SBO to= 1.8 or 1.3 g/serv
13220235	Pudding, can, choc, fat free	Add SDA SBO to= 1.8 or 1.3 g/serv
13220240	Pudding, canned, not choc, reduced fat	Add SDA SBO to= 1.8 or 1.3 g/serv
13220245	Pudding, canned, not choc, fat free	Add SDA SBO to= 1.8 or 1.3 g/serv
13230110	Pudding, canned, not chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
13230120	Pudding,canned,low cal,w/artificial swtnr,not choc	Add SDA SBO to= 1.8 or 1.3 g/serv
13230130	Pudding, canned, chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
13230140	Pudding, canned, lo cal, w/ art swtnr, choc	Add SDA SBO to= 1.8 or 1.3 g/serv
13230200	Pudding, canned, choc & non-choc flavors combined	Add SDA SBO to= 1.8 or 1.3 g/serv
13230500	Pudding, canned, tapioca	Add SDA SBO to= 1.8 or 1.3 g/serv
13230510	Pudding, canned, tapioca, fat free	Add SDA SBO to= 1.8 or 1.3 g/serv
13241000	Pudding, w/ fruit & vanilla wafers	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv

**Grain Products: Pastas**

Food Code	Pasta- Food Description	Recipe Alteration
56101000	Macaroni, cooked, ns as to added fat	Add SDA SBO to= 1.8 or 1.3 g/serv
56101010	Macaroni, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56101030	Macaroni, cooked, fat added	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
56102010	Macaroni, whole wheat, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56102020	Macaroni, whole wheat, fat added	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
56104010	Macaroni,cooked,vegetable,fat not added in cooking	Add SDA SBO to= 1.8 or 1.3 g/serv
56104020	Macaroni,cooked,vegetable, fat added in cooking	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
56112000	Noodles, cooked, ns as to added fat	Add SDA SBO to= 1.8 or 1.3 g/serv
56112010	Noodles, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56112030	Noodles, cooked, fat added	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
56113010	Noodles, whole wheat, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56114000	Noodles, spinach, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56114020	Noodles, cooked, spinach, fat added	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
56116000	Noodles, chow mein	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
56130000	Spaghetti, cooked, ns as to added fat	Add SDA SBO to= 1.8 or 1.3 g/serv
56130010	Spaghetti, cooked, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
56131000	Spaghetti, cooked, fat added	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO

Food Code	Pasta- Food Description	Recipe Alteration
56133000	Spaghetti, cooked, whole wheat, no fat added	Add SDA SBO to= 1.8 or 1.3 g/serv
58122220	Gnocchi, potato	Add SDA SBO to= 1.8 or 1.3 g/serv
58130010	Lasagna w/ meat and/or poultry	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58130013	Lasagna w/ meat, canned	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58130020	Lasagna, w/ meat & spinach	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58130310	Lasagna, meatless	Add SDA SBO to= 1.8 or 1.3 g/serv
58130320	Lasagna, meatless, w/ spinach	Add SDA SBO to= 1.8 or 1.3 g/serv
58131110	Ravioli, filling ns, tomato sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58131310	Ravioli, meat-filled, no sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58131320	Ravioli, meat-filled, w/ tomato or meat sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58131323	Ravioli, meat-filled, w/ tomato or meat sauce, canned	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58131510	Ravioli, cheese-filled, no sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58131520	Ravioli, cheese-filled, w/ tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58131523	Ravioli, cheese-filled, w/ tomato sauce, canned	Add SDA SBO to= 1.8 or 1.3 g/serv
58131530	Ravioli, cheese-filled, w/ meat sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58131600	Ravioli, cheese&spinach-filled, w/ cream sauce	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58132110	Spaghetti w/ tomato sauce, meatless	Add SDA SBO to= 1.8 or 1.3 g/serv
58132113	Pasta, w/ tomato sauce & cheese, canned	Add SDA SBO to= 1.8 or 1.3 g/serv
58132310	Spaghetti w/tomat sauce & meat sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58132313	Pasta w/ tomato sauce & meat/meatballs, canned	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58132360	Spaghetti, whole wheat, w/ tomato & meat sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58132450	Spaghetti w/ tom sauce, meatless, spinach noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
58132460	Spaghetti w/ tomato & meat sauce, spinach noodles	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58132710	Spaghetti w/ tomato sauce & frankfurters/hot dog	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58132713	Pasta w/ tomato sauce & frankfurters/hot dogs, canned	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58132800	Spaghetti w/ clam sauce, ns as to red or white	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
58132810	Spaghetti w/ red clam sauce	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
58132820	Spaghetti w/ white clam sauce	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
58132910	Spaghetti w/ tomato sauce & chicken or turkey	Add SDA SBO to= 1.8 or 1.3 g/serv
58133110	Manicotti, cheese-filled, no sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58133120	Manicotti, cheese-filled, w/ tomato sauce, meatless	Add SDA SBO to= 1.8 or 1.3 g/serv
58134120	Stuffed shells, cheese-filled, w/ tom sc, meatless	Add SDA SBO to= 1.8 or 1.3 g/serv
58134130	Stuffed shells, cheese-filled, w/ meat sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58134160	Stuffed shell, cheese & spinach filled, no sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58134210	Stuffed shells, w/ chicken, w/ tom sce	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Pasta- Food Description	Recipe Alteration
58134310	Stuffed shells, w/ fish &/or shellfish, w/ tom sce	Add SDA SBO to= 1.8 or 1.3 g/serv
58134610	Tortellini, meat-filled, w/ tomato sauce	Add SDA SBO to= 1.3 g/serv, Remove portion of non SBO, Add SDA SBO to= 1.8g/serv
58134613	Tortellini, meat-filled, w/ tomato sauce, canned	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58134620	Tortellini, cheese-filled, meatless, w/tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58134650	Tortellini, meat-filled, no sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58134660	Tortellini, cheese-filled, w/ cream sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58134680	Tortellini, cheese-filled, no sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58134710	Tortellini, spinach-filled, w/ tomato sauce	Add SDA SBO to= 1.3 g/serv, Remove portion of non SBO, Add SDA SBO to= 1.8g/serv
58134720	Tortellini, spinach-filled, no sauce	Add SDA SBO to= 1.3 g/serv, Remove portion of non SBO, Add SDA SBO to= 1.8g/serv
58135120	Chow fun noodles w/ vegetables, meatless	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
58136110	Lo mein, nfs	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
58136120	Lo mein, meatless	Add SDA SBO to= 1.8 or 1.3 g/serv
58136130	Lo mein with shrimp	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
58145110	Macaroni or noodles w/ cheese	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58145113	Macaroni or noodles w/ cheese, canned	Add SDA SBO to= 1.8 or 1.3 g/serv
58145114	Macaroni/noodles w/ cheese, made from dry mix	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58145115	Macaroni/noodles w/cheese, from mix w/prepared cheese sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58145120	Macaroni or noodles w/ cheese & tuna	Add SDA SBO to= 1.8 or 1.3 g/serv
58145130	Macaroni or noodles w/ cheese & beef	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58145140	Macaroni or noodles w/ cheese & tomato	Add SDA SBO to= 1.8 or 1.3 g/serv
58145150	Macaroni w/ cheese & ham	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58145160	Macaroni/noodles w/ cheese & frankfurter/hot dog	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58145170	Macaroni & cheese made w/ egg	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58145190	Macaroni w/ cheese & chicken	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58146100	Pasta w/ tomato sauce, meatless	Add SDA SBO to= 1.8 or 1.3 g/serv
58146110	Pasta w/ meat sauce (include amer chop suey)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58146120	Pasta w/ cheese & meat sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58146130	Pasta w/ carbonara sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
58146150	Pasta w/ cheese & tomato sauce, meatless	Add SDA SBO to= 1.8 or 1.3 g/serv
58146200	Pasta, meat-filled, w/ gravy, canned	Add SDA SBO to= 1.8 or 1.3 g/serv
58147100	Pasta w/ pesto sauce	Replace portion of liquid NON SBO, ADD SDA SBO to= 1.8 or 1.3g/serv
58147310	Macaroni, creamed	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58147330	Macaroni, creamed, w/ cheese	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO

Food Code	Pasta- Food Description	Recipe Alteration
58147350	Macaroni, creamed, w/ vegetables	Add SDA SBO to= 1.8 or 1.3 g/serv
58147510	Flavored pasta (incl lipton beef, chicken flavors)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148110	Macaroni salad	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148120	Macaroni salad w/ egg	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148130	Macaroni salad w/ tuna	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148140	Macaroni salad w/ crab meat	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148150	Macaroni salad w/ shrimp	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148160	Macaroni salad w/ tuna & egg	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148170	Macaroni salad w/ chicken	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148180	Macaroni salad w/ cheese (incl made w/ celery, cucu	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148500	Pasta salad (macaroni or noodles, veg, dressing)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58148550	Pasta salad w/ meat (macaroni, veg, meat, dressing)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58149110	Noodle pudding (include kugel)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
58301020	Lasagna w/ cheese & sauce (diet frozen meal)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58301080	Lasagna w/cheese&meat sau,reduced fat&na(diet froz)	Add SDA SBO to= 1.8 or 1.3 g/serv
58301110	Vegetable lasagna (frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
58301150	Zucchini lasagna (diet frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
58302000	Macaroni & cheese (diet frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
58302010	Macaroni & cheese w/ apples, vegetable (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
58302060	Spag w/ beef, tom-based sauce, lowfat, red sodium, frz, diet	Add SDA SBO to= 1.8 or 1.3 g/serv
58302080	Noodles w/ veg, tom-based sauce, frz, diet	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58304010	Spaghetti & meatballs dinner, nfs (frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
58304050	Spaghetti w/ meat & mushroom sauce (diet froz meal)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58304060	Spaghetti w/ meat sauce (diet frozen meal)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58305250	Pasta,w/ vegetables & cheese sauce (diet froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv

**Gravies and sauces-main entrée sauces**

Food Code	Entrée Sauce- Food Description	Recipe Alteration
14650160	Alfredo sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27111050	Spaghetti sauce w/ beef/meat, homemade-style	Add SDA SBO to= 1.8 or 1.3 g/serv
27162060	Spaghetti sauce with meat and vegetables, homemade-style	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Entrée Sauce- Food Description	Recipe Alteration
74403010	Tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
74403110	Tomato paste	Add SDA SBO to= 1.8 or 1.3 g/serv
74404010	Spaghetti sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
74404030	Spaghetti sauce w/ meat, canned, no extra meat	Add SDA SBO to= 1.8 or 1.3 g/serv
74404050	Spaghetti sauce, low sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
74404060	Spaghetti sauce, fat free	Add SDA SBO to= 1.8 or 1.3 g/serv
81302070	Pesto sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv

**Meat Products-entrees with sauce, hot dogs, lunch meats**

Food Code	Meat Product – Food Description	Recipe Alteration
21304200	Beef, shortribs, bbq, w/ sauce, ns as to fat	Add SDA SBO to= 1.8 or 1.3 g/serv
21304210	Beef, shortribs, bbq, w/ sauce, lean & fat	Add SDA SBO to= 1.8 or 1.3 g/serv
21304220	Beef, shortribs, bbq, w/ sauce, lean only	Add SDA SBO to= 1.8 or 1.3 g/serv
22701030	Pork, spareribs, bbq, w/ sauce, ns fat eaten	Add SDA SBO to= 1.8 or 1.3 g/serv
22701040	Pork, spareribs, bbq, w/ sauce, lean & fat eaten	Add SDA SBO to= 1.8 or 1.3 g/serv
22701050	Pork, spareribs, bbq, w/ sauce, lean only eaten	Add SDA SBO to= 1.8 or 1.3 g/serv
27111000	Beef w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27111100	Beef goulash	Add SDA SBO to= 1.8 or 1.3 g/serv
27111300	Mexican beef stew, no potatoes, tomato sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27111310	Mexican beef stew, no potatoes, w/ chili peppers, tomato sauce	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27111400	Chili con carne, ns as to beans	Add SDA SBO to= 1.8 or 1.3 g/serv
27111410	Chili con carne w/ beans	Add SDA SBO to= 1.8 or 1.3 g/serv
27111420	Chili con carne w/o beans	Add SDA SBO to= 1.8 or 1.3 g/serv
27111430	Chili con carne, ns as to beans, w/ cheese	Add SDA SBO to= 1.8 or 1.3 g/serv
27111440	Chili con carne w/ beans & cheese	Add SDA SBO to= 1.8 or 1.3 g/serv
27111500	Beef sloppy joe (no bun)	Add SDA SBO to= 1.8 or 1.3 g/serv
27112000	Beef w/ gravy (mixture) (include country style)	Add SDA SBO to= 1.8 or 1.3 g/serv
27112010	Salisbury steak w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27113000	Beef w/ cream or white sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27113100	Beef stroganoff	Add SDA SBO to= 1.8 or 1.3 g/serv
27113200	Creamed chipped or dried beef	Add SDA SBO to= 1.8 or 1.3 g/serv
27113300	Swedish meatballs w/ cream or white sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27114000	Beef w/ (mushroom) soup (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27115000	Beef w/ soy-based sauce (mixture)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27115100	Steak teriyaki w/ sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27116100	Beef curry	Add SDA SBO to= 1.8 or 1.3 g/serv
27116200	Beef w/ barbecue sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27116300	Beef w/ sweet & sour sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27116350	Stewed, seasoned ground beef, mexican	Add SDA SBO to= 1.8 or 1.3 g/serv
27118120	Stewed,seasoned ground beef,puerto rican style	Remove portion of non SBO, Add SDA SBO to=

Food Code	Meat Product – Food Description	Recipe Alteration
		1.8 or 1.3g/serv
27120020	Ham/pork w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27120030	Ham/pork w/ barbecue sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27120060	Sweet & sour pork	Add SDA SBO to= 1.8 or 1.3 g/serv
27120090	Ham/pork w/ (mushroom) soup-base sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27120100	Ham/pork w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27120110	Sausage w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27120130	Mexican style pork stew,no pot,tom-base sce(mixtur	Add SDA SBO to= 1.8 or 1.3 g/serv
27120150	Pork or ham w/ soy-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27121000	Pork w/ chile & tom (mixture) (puerco con chile)	Add SDA SBO to= 1.8 or 1.3 g/serv
27121010	Stewed pork, p.r.	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27121410	Chili con carne w/ beans, made w/ pork	Add SDA SBO to= 1.8 or 1.3 g/serv
27130100	Lamb curry	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27133010	Stewed goat, p.r. (cabrito en fricase)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27135010	Veal w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27135020	Veal scallopini	Add SDA SBO to= 1.8 or 1.3 g/serv
27135110	Veal parmigiana	Add SDA SBO to= 1.8 or 1.3 g/serv
27136050	Venison/deer w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27136100	Chili con carne w/ venison/deer & beans	Add SDA SBO to= 1.8 or 1.3 g/serv
27160010	Meat w/ barbecue sauce, ns as to type of meat	Add SDA SBO to= 1.8 or 1.3 g/serv
27160100	Meatballs, ns as to type of meat, w/ sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27162010	Meat w/ tomato-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27163010	Meat w/ gravy, ns as to type of meat (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27211100	Beef stew w/ potatoes, tomato-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27211110	Mexican beef stew w/pot,tom sce (carne guisada con)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27211150	Beef goulash w/ potatoes (incl beef goulash, nfs)	Add SDA SBO to= 1.8 or 1.3 g/serv
27211190	Beef & potatoes w/ cream or white sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27211200	Beef stew w/ potatoes, gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27211500	Beef & potatoes w/ cheese sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27211550	Stewed seasoned ground beef w/ potatoes, mexican	Add SDA SBO to= 1.8 or 1.3 g/serv
27212050	Beef & macaroni with cheese sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27212100	Beef & noodles w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27212120	Chili con carne w/ beans & macaroni	Add SDA SBO to= 1.8 or 1.3 g/serv
27212150	Beef goulash w/ noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27212200	Beef & noodles w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27212300	Beef & noodles w/ cream or white sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27212350	Beef stroganoff w/ noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27212400	Beef & noodles w/ (mushroom) soup (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27213100	Beef & rice w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27213120	Porcupine balls w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27213150	Chili con carne w/ beans & rice	Add SDA SBO to= 1.8 or 1.3 g/serv
27213200	Beef & rice w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27213300	Beef & rice w/ cream sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Meat Product – Food Description	Recipe Alteration
27213500	Beef & rice w/ soy-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27214100	Meat loaf made w/ beef	Add SDA SBO to= 1.8 or 1.3 g/serv
27214110	Meat loaf w/ beef, w/ tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27220110	Pork & rice w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27220120	Sausage & rice w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27220520	Pork & potatoes w/ cheese sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27221100	Stewed pig's feet, p.r. (patitas de cerdo guisadas)	Add SDA SBO to= 1.8 or 1.3 g/serv
27221150	Mexican style pork stew w/pot,tom-base sce(mixture)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27232000	Lamb & potatoes w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27241010	Chicken or turkey & potatoes w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27242200	Chicken or turkey & noodles w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27242250	Chicken or turkey & noodles w/ (mushroom) soup	Add SDA SBO to= 1.8 or 1.3 g/serv
27242300	Chicken or turkey & noodles w/ cream or white sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27242310	Chicken & noodles w/ cheese sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27242400	Chicken & noodles, tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27243300	Chicken & rice w/ cream sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27243400	Chicken & rice w/ (mushroom) soup-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27243500	Chicken & rice w/ tomato-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27243600	Chicken & rice w/ soy-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27260050	Meatballs, w/ breading, w/ gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27260100	Meat loaf w/ beef & pork, w/ tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27311310	Beef stew w/ pot & veg(w/ car/dk grn), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27311320	Beef stew w/ pot & veg (no car/dk green), tom sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27311410	Beef stew w/ pot & veg (w/ car, dk green), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27311420	Beef stew w/ pot & veg (no car, dk green), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27311610	Beef, pot, & veg (incl car/dk grn), (mushroom) soup	Add SDA SBO to= 1.8 or 1.3 g/serv
27311620	Beef, pot, & veg (no car/dk green), (mushroom) soup	Add SDA SBO to= 1.8 or 1.3 g/serv
27313110	Beef chow mein or chop suey w/ noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27313150	Beef, noodles & veg (w/ car/dk green), soy sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27313160	Beef, noodles & veg (no car/dk green), soy sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27313210	Beef, noodles & veg (w/ car/dk green), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27313220	Beef, noodles & veg (no car/dk green), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27313410	Beef, noodles, & veg (incl car/dk grn), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27315210	Beef, rice & veg (w/ car/dk green), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27315220	Beef, rice & veg (no car/dk green), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27315310	Beef, rice & vegetables (w/ carrots/dk green), soup	Add SDA SBO to= 1.8 or 1.3 g/serv
27315410	Beef, rice & veg (incl car/dk grn), gravy, mixture	Add SDA SBO to= 1.8 or 1.3 g/serv
27315420	Beef, rice & veg (no car/dk grn), gravy, mixture	Add SDA SBO to= 1.8 or 1.3 g/serv
27315510	Beef, rice & veg (incl car/dk grn), soy-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27315520	Beef, rice & veg (no car/dk grn), soy-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27320030	Ham/pork, noodles & veg (no car/dk gr), cheese sce	Add SDA SBO to= 1.8 or 1.3 g/serv
27320070	Pork, noodles, veg (incl car/dk grn), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27320110	Pork, potatoes & veg (no car, dk green), tomato sce	Add SDA SBO to= 1.8 or 1.3 g/serv
27320310	Pork chow mein or chop suey w/ noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27320320	Pork, rice & veg (incl car/dk grn), soy-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Meat Product – Food Description	Recipe Alteration
27320330	Pork, rice & veg (no car/dk grn), soy-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27320340	Pork, rice & veg (incl car/dk grn), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27320500	Sweet & sour pork w/ rice	Add SDA SBO to= 1.8 or 1.3 g/serv
27330030	Lamb stew w/ pot & veg (incl car/dk green), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27330060	Lamb, rice & veg (incl car/dk grn), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27330080	Lamb, rice, & vegetables (incl car, dk grn), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27330110	Lamb stew w/ pot & veg (no car/dk green), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27330210	Lamb stew w/ pot & veg (incl car/dk grn), tom sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27336100	Venison/deer stew w/ potato & veg(w/ car/dk grn),tom scea	Add SDA SBO to= 1.8 or 1.3 g/serv
27336150	Venison/deer stew w/ potato & veg(no car/dk grn),tom scea	Add SDA SBO to= 1.8 or 1.3 g/serv
27360100	Brunswick stew	Add SDA SBO to= 1.8 or 1.3 g/serv
27360120	Chow mein/chop suey, various meats, w/ noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27411100	Beef & veg(w/ car/dk green, no potato), tomato scea	Add SDA SBO to= 1.8 or 1.3 g/serv
27411120	Swiss steak	Add SDA SBO to= 1.8 or 1.3 g/serv
27411150	Beef roll, stuffed w/veg/meat mixture, tom-base sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27411200	Beef w/ veg (no car/dk green, no potato), tomato scea	Add SDA SBO to= 1.8 or 1.3 g/serv
27415100	Beef & veg (w/ car/dk green, no potato), soy sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27415120	Beef, tofu & veg(w/ car/dk grn, no potato), soy scea	Add SDA SBO to= 1.8 or 1.3 g/serv
27415200	Beef & veg (no car/dk green, no potato), soy sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27416300	Beef taco filling: beef, cheese, tomato, taco sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27416450	Beef & veg (incl car/dk grn, no potatoes), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27418110	Seasoned shredded soup meat	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27418210	Beef stew, p.r. (carne a la judia)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27420160	Moo shu (mu shi) pork, w/o pancake	Add SDA SBO to= 1.8 or 1.3 g/serv
27420390	Pork chow mein or chop suey, no noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27420410	Pork & veg (no car/dk grn, no pot), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27420450	Sausage & veg (incl car/dk grn)(no pot), tom sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27420460	Sausage & veg (no car/dk grn/pot), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27420500	Pork & veg (incl car/dk grn), soy-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27420510	Pork & veg (no car/dk grn), soy-based sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27462000	Stewed chitterlings, p.r. (cuajo guisado)	Add SDA SBO to= 1.8 or 1.3 g/serv
27510110	Beef barbecue or sloppy joe, on bun	Add SDA SBO to= 1.8 or 1.3 g/serv
27510700	Meatball & spaghetti sauce submarine sandwich	Add SDA SBO to= 1.8 or 1.3 g/serv
27520500	Pork, bbq sauce, onions & dill pickles on white roll	Add SDA SBO to= 1.8 or 1.3 g/serv
28101000	Frozen dinner, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
28110000	Beef dinner, nfs (frozen)	Add SDA SBO to= 1.8 or 1.3 g/serv
28110220	Sirloin, chopped, w/ gravy, pot, veg (frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28110230	Swiss steak w/ gravy, veg, pot, dessert (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28110270	Sirloin beef w/ gravy, potatoes, veg (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28110310	Salisbury steak w/ gravy, potatoes, veg (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28110380	Salisbury steak w/grav,macaroni & cheese (frz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28110500	Beef, sliced, w/gravy, barley&wild rice, veg (frz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28110510	Beef, sliced, w/ gravy, potatoes, veg (frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28110520	Beef, sliced, w/gravy, pot, veg, dessert(froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Meat Product – Food Description	Recipe Alteration
28110640	Meatballs, swedish, in sauce w/ noodles (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28120230	Pork, w/ gravy, potatoes, veg, dessert (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28160310	Meatloaf in tomato sauce w/ potato, veg (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
25210110	Frankfurter, wiener or hot dog, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
25210150	Frankfurter or hot dog, cheese-filled	Add SDA SBO to= 1.8 or 1.3 g/serv
25210210	Frankfurter or hot dog, beef	Add SDA SBO to= 1.8 or 1.3 g/serv
25210220	Frankfurter or hot dog, beef & pork	Add SDA SBO to= 1.8 or 1.3 g/serv
25210230	Frankfurter or hot dog, beef and pork, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
25210250	Frankfurter or hot dog, meat & poultry, fat free	Add SDA SBO to= 1.8 or 1.3 g/serv
25210280	Frankfurter or hot dog, meat & poultry	Add SDA SBO to= 1.8 or 1.3 g/serv
25210310	Frankfurter or hot dog, chicken	Add SDA SBO to= 1.8 or 1.3 g/serv
25210410	Frankfurter or hot dog, turkey	Add SDA SBO to= 1.8 or 1.3 g/serv
25210610	Frankfurter or hot dog, beef, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
25210700	Frankfurter or hot dog, meat & poultry, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
27120250	Frankfurters/hot dogs w/ tom-based sce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27560300	Corn dog (frankfurter/hot dog w/ cornbread coating)	Add SDA SBO to= 1.8 or 1.3 g/serv
27560350	Pig in a blanket (frankfurter or hot dog wrapped in dough)	Add SDA SBO to= 1.8 or 1.3 g/serv
27560360	Frankfurter/hot dog ,w/ chili, on bun (incl chili dog)	Add SDA SBO to= 1.8 or 1.3 g/serv
27560370	Frankfurter /dog chili & cheese,bun (chili cheese dog)	Add SDA SBO to= 1.8 or 1.3 g/serv
25220010	Cold cut, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
25220390	Bologna, beef, low fat	Add SDA SBO to= 1.8 or 1.3 g/serv
25220400	Bologna, pork and beef	Add SDA SBO to= 1.8 or 1.3 g/serv
25220410	Bologna, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
25220420	Bologna, lebanon	Add SDA SBO to= 1.8 or 1.3 g/serv
25220430	Bologna, beef	Add SDA SBO to= 1.8 or 1.3 g/serv
25220440	Bologna, turkey	Add SDA SBO to= 1.8 or 1.3 g/serv
25220460	Bologna, pork	Add SDA SBO to= 1.8 or 1.3 g/serv
25220470	Bologna, beef, lower sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
25220480	Bologna, chicken, beef, & pork	Add SDA SBO to= 1.8 or 1.3 g/serv
25220490	Bologna, w/ cheese	Add SDA SBO to= 1.8 or 1.3 g/serv
25220500	Bologna, beef & pork, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
25230110	Luncheon meat, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
25230210	Ham, sliced, prepackaged or deli, luncheon meat	Add SDA SBO to= 1.8 or 1.3 g/serv
25230220	Ham, sliced, low salt, prepackaged/deli, lunch meat	Add SDA SBO to= 1.8 or 1.3 g/serv
25230230	Ham, sliced, extra lean, prepackaged/deli	Add SDA SBO to= 1.8 or 1.3 g/serv
25230510	Ham,lunch meat,chop,minced,pressd,minced,not canned	Add SDA SBO to= 1.8 or 1.3 g/serv
25230520	Ham, luncheon meat, chopped, spiced,lowfat, not can	Add SDA SBO to= 1.8 or 1.3 g/serv
25230530	Ham/pork , luncheon meat, chopped, can (incl spam)	Add SDA SBO to= 1.8 or 1.3 g/serv
25230550	Ham, pork & chicken, luncheon meat, chopped, can, red sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
25230710	Sandwich loaf, luncheon meat	Add SDA SBO to= 1.8 or 1.3 g/serv
25230790	Turkey ham, sliced, xtra lean, pkg'd, deli	Add SDA SBO to= 1.8 or 1.3 g/serv
25230800	Turkey ham	Add SDA SBO to= 1.8 or 1.3 g/serv
25231110	Beef, sliced, prepackaged/deli, luncheon meat	Add SDA SBO to= 1.8 or 1.3 g/serv
27500050	Stewed chitterlings, p.r. (cuaajo guisado)	Add SDA SBO to= 1.8 or 1.3 g/serv
27500300	Wrap sandwich, filled with meat, poultry, or fish, and	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Meat Product – Food Description	Recipe Alteration
	vegetables	
27513010	Roast beef sandwich	Add SDA SBO to= 1.8 or 1.3 g/serv
27513040	Roast beef sub, roll,lettuce,tom & sprea	Add SDA SBO to= 1.8 or 1.3 g/serv
27513050	Roast beef sandwich w/ cheese	Add SDA SBO to= 1.8 or 1.3 g/serv
27513060	Roast beef sandwich w/ bacon & cheese sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27520300	Ham sandwich w/ spread	Add SDA SBO to= 1.8 or 1.3 g/serv
27520310	Ham sandwich w/ lettuce & spread	Add SDA SBO to= 1.8 or 1.3 g/serv
27520320	Ham & cheese sandwich, w/ lettuce & spread	Add SDA SBO to= 1.8 or 1.3 g/serv
27520330	Ham & egg sandwich	Add SDA SBO to= 1.8 or 1.3 g/serv
27520350	Ham & cheese sandwich w/ spread, grilled	Add SDA SBO to= 1.8 or 1.3 g/serv
27520360	Ham & cheese sandwich on bun w/ lettuce & spread	Add SDA SBO to= 1.8 or 1.3 g/serv
27520370	Hot ham & cheese sandwich, on bun	Add SDA SBO to= 1.8 or 1.3 g/serv
27520390	Ham & cheese sub,multigr roll, w/ let, tom & spread	Add SDA SBO to= 1.8 or 1.3 g/serv
27560910	Sub, cold cut sandwich, on bun, w/ lettuce	Add SDA SBO to= 1.8 or 1.3 g/serv

**Milk Products: Milk Based Drinks, Milk Shakes, Yogurts**

Food Code	Milk Product- Food Description	Recipe Alteration
11551050	Milk fruit drink (incl licuado)	Add SDA SBO to= 1.8 or 1.3 g/serv
11552200	Milk-based fruit drink (incl orange julius)	Add SDA SBO to= 1.8 or 1.3 g/serv
11553000	Fruit smoothie drink, w/ fruit and dairy products	Add SDA SBO to= 1.8 or 1.3 g/serv
11553100	Fruit smoothie drink, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
11560000	Choc-flavored drink, whey-&milk-based(incl yoo-hoo)	Add SDA SBO to= 1.8 or 1.3 g/serv
11560020	Milk drink, whey&milk-base, not choc (incl yoo-hoo)	Add SDA SBO to= 1.8 or 1.3 g/serv
11611000	Instant breakfast, fluid, canned	Add SDA SBO to= 1.8 or 1.3 g/serv
11612000	Instant breakfast, powder, milk added	Add SDA SBO to= 1.8 or 1.3 g/serv
11613000	Instant bfast,pwdr,swt w/ lo cal swt, milk added	Add SDA SBO to= 1.8 or 1.3 g/serv
11623000	Meal supplement / replacement,prepared,rted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
11631000	High calorie bev, canned or powdered, reconstituted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
11641000	Meal replacement, milk based, high protein, liquid	Add SDA SBO to= 1.8 or 1.3 g/serv
11830200	Milk, malted, dry, unfortifd, not reconst, not choc	Add SDA SBO to= 1.8 or 1.3 g/serv
11830210	Milk, malted, dry, fortifd, not reconst, not choc	Add SDA SBO to= 1.8 or 1.3 g/serv
11830260	Milk, malted, dry, fortified, not reconst, choc	Add SDA SBO to= 1.8 or 1.3 g/serv
11830400	Milk bev powder, dry, not reconst, not choc	Add SDA SBO to= 1.8 or 1.3 g/serv
11830450	Milk bev mix, w/ sugar,egg white, not reconstituted	Add SDA SBO to= 1.8 or 1.3 g/serv
11830500	Milk bev powder w/ nfd milk, low cal, dry, choc	Add SDA SBO to= 1.8 or 1.3 g/serv
11830800	Instant breakfast powder, not reconstituted	Add SDA SBO to= 1.8 or 1.3 g/serv
11830850	High calorie milk beverage, powder, not reconst	Add SDA SBO to= 1.8 or 1.3 g/serv
11830900	Protein supplement, milk based, dry powder	Add SDA SBO to= 1.8 or 1.3 g/serv
11830940	Meal replacement,protein,milk based,fruit juice mix	Add SDA SBO to= 1.8 or 1.3 g/serv
11830970	Meal replacement, protein type, milk-base, powder	Add SDA SBO to= 1.8 or 1.3 g/serv
11831500	Nutrient supplement,milk-base,high prot,not reconst	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Milk Product- Food Description	Recipe Alteration
11832000	Meal replacement,milk-&soy-base,powder,not reconst	Add SDA SBO to= 1.8 or 1.3 g/serv
11835100	Meal replacement, positrim drink mix, dry powder	Add SDA SBO to= 1.8 or 1.3 g/serv
11520000	Milk, malted, unfortified, flavor ns	Add SDA SBO to= 1.8 or 1.3 g/serv
11521000	Milk, malted, unfortified, chocolate flavor	Add SDA SBO to= 1.8 or 1.3 g/serv
11526000	Milk, malted, fortified, chocolate (incl ovaltine)	Add SDA SBO to= 1.8 or 1.3 g/serv
11527000	Milk, malted, fortified, (incl ovaltine)	Add SDA SBO to= 1.8 or 1.3 g/serv
11410000	Yogurt, ns as to type of milk/flavor	Add SDA SBO to= 1.8 or 1.3 g/serv
11411010	Yogurt, plain, ns as to type of milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11411100	Yogurt, plain, whole milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11411200	Yogurt, plain, lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11411300	Yogurt, plain, nonfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11420000	Yogurt, vanilla, lemon, coffee, ns as to milk type	Add SDA SBO to= 1.8 or 1.3 g/serv
11421000	Yogurt, vanilla, lemon, coffee, whole milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11422000	Yogurt, vanilla, lemon, coffee, lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11423000	Yogurt, vanilla, lemon, coffee, nonfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11424000	Yogurt, vanilla, lemon, coffee, nonfat milk, low cal sweet	Add SDA SBO to= 1.8 or 1.3 g/serv
11427000	Yogurt, chocolate, nonfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11430000	Yogurt, fruit variety, ns as to milk type	Add SDA SBO to= 1.8 or 1.3 g/serv
11431000	Yogurt, fruit variety, whole milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11432000	Yogurt, fruit variety, lowfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11433000	Yogurt, fruit variety, nonfat milk	Add SDA SBO to= 1.8 or 1.3 g/serv
11433500	Yogurt, fruited, nonfat milk, low cal sweetener	Add SDA SBO to= 1.8 or 1.3 g/serv

### Nuts and Nut Products: Peanut Butter

Food Code	Nut Product-Food Description	Recipe Alteration
42202000	Peanut butter	Add SDA SBO to= 1.8 or 1.3 g/serv
42202010	Peanut butter, low sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
42202100	Peanut butter, reduced sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
42202150	Peanut butter, reduced fat	Add SDA SBO to= 1.8 or 1.3 g/serv
42202200	Peanut butter, vitamin & mineral fortified	Add SDA SBO to= 1.8 or 1.3 g/serv
42203000	Peanut butter & jelly	Add SDA SBO to= 1.8 or 1.3 g/serv
42301010	Peanut butter sandwich	Replace Existing SBO with 1.3 g/serv SDA SBO, Add SDA SBO to= 1.8 g/serv
42302010	Peanut butter & jelly sandwich	Replace Existing SBO with 1.3 g/serv SDA SBO, Add SDA SBO to= 1.8 g/serv

### Dairy Product Analogs: Soy Milk

Food Code	Soy Milk-Food Description	Recipe Alteration
11310000	Milk, imitation, fluid, soy based	Replace Existing SBO with 1.8 or 1.3 g/serv SDA

Food Code	Soy Milk-Food Description	Recipe Alteration
		SBO
11320000	Milk, soy, ready-to-drink, not baby	Add SDA SBO to= 1.8 or 1.3 g/serv
11321000	Milk, soy, ready-to-drink, not baby's, chocolate	Add SDA SBO to= 1.8 or 1.3 g/serv
11330000	Milk, soy, dry, reconstituted, not baby	Add SDA SBO to= 1.8 or 1.3 g/serv

### Poultry Products-entrees with sauce, lunch meats

Food Code	Soy Milk-Food Description	Recipe Alteration
27141050	Stewed chicken w/ tomato sauce, mexican style	Add SDA SBO to= 1.8 or 1.3 g/serv
27141500	Chili con carne w/ chicken & beans	Add SDA SBO to= 1.8 or 1.3 g/serv
27142000	Chicken w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27142100	Chicken fricassee	Add SDA SBO to= 1.8 or 1.3 g/serv
27142200	Turkey w/ gravy (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27143000	Chicken or turkey w/ cream sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27144000	Chicken w/ (mushroom) soup-based sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27145000	Chicken teriyaki	Add SDA SBO to= 1.8 or 1.3 g/serv
27146000	Chicken w/ barbecue sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27146050	Chicken wing w/ hot pepper sce (incl buffalo wing)	Add SDA SBO to= 1.8 or 1.3 g/serv
27146100	Sweet & sour chicken	Add SDA SBO to= 1.8 or 1.3 g/serv
27146150	Chicken curry	Add SDA SBO to= 1.8 or 1.3 g/serv
27146200	Chicken w/ cheese sauce (mixture)	Add SDA SBO to= 1.8 or 1.3 g/serv
27146250	Chicken cordon bleu	Add SDA SBO to= 1.8 or 1.3 g/serv
27146300	Chicken parmigiana	Add SDA SBO to= 1.8 or 1.3 g/serv
27146350	Lemon chicken, chinese style	Add SDA SBO to= 1.8 or 1.3 g/serv
27341310	Chicken stew w/ pot, veg (incl car/dk grn), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27341320	Chicken stew w/ pot & veg (no car/dk grn), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27341510	Chicken stew w/ pot & veg(incl car/dk grn), tom sce	Add SDA SBO to= 1.8 or 1.3 g/serv
27341520	Chicken stew w/ pot & veg(no car/dk grn), tom sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27343470	Chicken, noodles, veg (incl car,dk grn),cream sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27343480	Chicken, noodles, veg (no car/dk grn), cream sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27343510	Chicken, noodles, veg (incl car/dk grn), tomato sce	Add SDA SBO to= 1.8 or 1.3 g/serv
27343520	Chicken, noodles, veg (no car/dk grn), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27343910	Chicken chow mein/chop suey w/ noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27343950	Chicken, noodles & veg(incl car/dk grn), cheese sce	Add SDA SBO to= 1.8 or 1.3 g/serv
27343960	Chicken, noodles & veg(no car/dk grn), cheese sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27343980	Chicken, noodles, veg (no car/dk grn), cream sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27345210	Chicken, rice & veg (incl car/dk grn), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27345220	Chicken, rice & veg (no car/dk grn), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27345310	Chicken, rice & veg (incl car/dk grn), soy sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27345320	Chicken, rice & veg (no car/dk grn), soy sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27345410	Chicken, rice & veg(incl car/dk grn),soup-based sce	Add SDA SBO to= 1.8 or 1.3 g/serv
27345440	Chicken, rice & veg (incl car/dk grn), cheese sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27345510	Chicken, rice & veg (incl car/dk grn), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Soy Milk-Food Description	Recipe Alteration
27345520	Chicken, rice & veg (no car/dk grn), tomato sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27347240	Chicken, dumplings, veg (incl car/dk grn), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27347250	Chicken, dumplings, veg (no car/dk grn), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27363000	Gumbo w/ rice (new orleans type)	Add SDA SBO to= 1.8 or 1.3 g/serv
27442110	Chicken/turkey & veg (w/ car/dk green,no pot),gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27442120	Chicken/turkey & veg(no car/dk green,no pot), gravy	Add SDA SBO to= 1.8 or 1.3 g/serv
27443110	Chicken a la king w/veg(incl car/dk grn),white sce	Add SDA SBO to= 1.8 or 1.3 g/serv
27443120	Chicken a la king w/ veg(no car/dk grn),white sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27443150	Chicken divan	Add SDA SBO to= 1.8 or 1.3 g/serv
27445110	Chicken & veg (incl car/dk grn, no pot), soy sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27445120	Chicken & veg (no car/dk grn, no pot), soy sauce	Add SDA SBO to= 1.8 or 1.3 g/serv
27445150	General tso chicken	Add SDA SBO to= 1.8 or 1.3 g/serv
27445180	Moo goo gai pan	Add SDA SBO to= 1.8 or 1.3 g/serv
27445220	Kung pao chicken	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
27445250	Almond chicken	Add SDA SBO to= 1.8 or 1.3 g/serv
27446100	Chicken chow mein/chop suey, no noodles	Add SDA SBO to= 1.8 or 1.3 g/serv
27446400	Chicken & veg (incl car/dk grn)(no pot), cheese sce	Add SDA SBO to= 1.8 or 1.3 g/serv
28140730	Chicken patty, tom sce, fettuccine, veg (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28141200	Chicken teriyaki w/ rice, vegetable (frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28141610	Chicken & vegetables in cream sce (diet froz meal)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
28143080	Chicken w/noodles & cheese sauce (diet frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28143170	Chicken in cream sauce w/ noodles & veg (froz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28143210	Chicken in orange sauce w/ rice (diet frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28143220	Chicken in bbq sce,w/rice,veg&des,red fat&sodium,frz,diet	Add SDA SBO to= 1.8 or 1.3 g/serv
28144100	Chicken & veg w/ noodles & cream sce (frozen meal)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
28145010	Turkey w/ dressing, gravy, potato (frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28145100	Turkey w/dressing, gravy,veg, fruit (diet frz meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28145210	Turkey w/ gravy, dressing, pot, veg (frozen meal)	Add SDA SBO to= 1.8 or 1.3 g/serv
28145610	Turkey, dressing,pot,veg,dessert(froz meal,lg meat)	Add SDA SBO to= 1.8 or 1.3 g/serv
27540350	Turkey sub sandwich,on roll,w/cheese,lettuce,tomato,spread	Add SDA SBO to= 1.8 or 1.3 g/serv

### Processed Fruit Drinks

Food Code	Processed Fruit Drink- Food Description	Recipe Alteration
92510150	Apple juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92510170	Apple-cranberry-grape juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92510200	Apple-orange-pineapple juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92510610	Fruit drink (include fruit punch & fruit ade)	Add SDA SBO to= 1.8 or 1.3 g/serv
92510630	Fruit juice drink, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
92510650	Tamarind drink, p.r. (refresco de tamarindo)	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Processed Fruit Drink- Food Description	Recipe Alteration
92510720	Fruit punch, made w/ fruit juice & soda	Add SDA SBO to= 1.8 or 1.3 g/serv
92510730	Fruit punch, made w/ soda, fruit juice & sherbet	Add SDA SBO to= 1.8 or 1.3 g/serv
92510820	Grape juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92510910	Grapefruit juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92510950	Guava juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92511190	Orange juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92511200	Orange-mango juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92511220	Orange drink (include orange ade, yaba daba dew)	Add SDA SBO to= 1.8 or 1.3 g/serv
92511250	Citrus fruit juice drink (incl 5-alive)	Add SDA SBO to= 1.8 or 1.3 g/serv
92511260	Orange-cranberry juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92511270	Orange-peach juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92511280	Orange-grape-banana juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92511290	Papaya juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92511340	Pineapple-orange juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92511350	Orange-raspberry juice drink	Add SDA SBO to= 1.8 or 1.3 g/serv
92530510	Cranberry juice drink w/vit c added(incl cocktail)	Add SDA SBO to= 1.8 or 1.3 g/serv
92530520	Cranberry-apple juice drink w/ vitamin c added	Add SDA SBO to= 1.8 or 1.3 g/serv
92530810	Grapefruit juice drink w/ vitamin c added	Add SDA SBO to= 1.8 or 1.3 g/serv
92530840	Guava juice drink w/ vit c added	Add SDA SBO to= 1.8 or 1.3 g/serv
92530950	Vegetable & fruit juice drink, w/ vit c	Add SDA SBO to= 1.8 or 1.3 g/serv
92531120	Pineapple-orange juice drink w/ vitamin c added	Add SDA SBO to= 1.8 or 1.3 g/serv
92531150	Pineapple-orange-grapefruit juice drink w/vitamin c	Add SDA SBO to= 1.8 or 1.3 g/serv

### Snack Foods

Food Code	Snack Food – Food Description	Recipe Alteration
54401010	Salty snacks, corn / cornmeal base, nut /nug, tstd	Add SDA SBO to= 1.8 or 1.3 g/serv
54401020	Salty snacks, corn or cornmeal, corn chips, cheese	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54401050	Salty snacks, corn or cornmeal, corn puffs, twists	Add SDA SBO to= 1.8 or 1.3 g/serv
54401080	Salty snacks, corn or cornmeal, tortilla chips	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54401090	Salty snacks, corn/corn-cheese chips, unsalted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54401100	Salty snacks, corn / cornmeal base, tortilla chips lt	Replace Existing SBO with 1.3 g/serv SDA SBO, Add SDA SBO to= 1.8 g/serv
54401120	Salty snacks, tortilla chips, fat free, w/ olean	Add SDA SBO to= 1.8 or 1.3 g/serv
54401150	Salty snacks, corn/cornmeal base, tortilla, lowfat, bkd	Add SDA SBO to= 1.8 or 1.3 g/serv
54401170	Salty snacks, corn/cornmeal, tortilla, lowfat, bkd, no salt	Add SDA SBO to= 1.8 or 1.3 g/serv
54401210	Salty snacks, corn based/cheese puffs & twists, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
54402080	Tortilla chips, unsalted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54402200	Salty snack mixture, mostly corn, w/pretzels, w/o nuts	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54402600	Salty snacks, multigrain chips	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Snack Food – Food Description	Recipe Alteration
54403000	Popcorn, popped in oil, unbuttered	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54403020	Popcorn, popped in oil, buttered	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54403030	Popcorn, w/ cheese	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54403040	Popcorn, air-popped, buttered	Add SDA SBO to= 1.8 or 1.3 g/serv
54403050	Popcorn, flavored (cheese, bbq, sour cream, onion)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54403060	Popcorn, popped in oil, lowfat, low sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
54403070	Popcorn, popped in oil, lowfat	Add SDA SBO to= 1.8 or 1.3 g/serv
54403090	Popcorn, popped in oil, unsalted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
54403110	Popcorn, sugar syrup or caramel coated	Add SDA SBO to= 1.8 or 1.3 g/serv
54403120	Popcorn, sugar syrup or caramel coated, w/ nuts	Add SDA SBO to= 1.8 or 1.3 g/serv
54406010	Onion-flavored rings (incl funyuns)	Add SDA SBO to= 1.8 or 1.3 g/serv
54406200	Shrimp chips	Add SDA SBO to= 1.8 or 1.3 g/serv
54408000	Pretzels, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
54408010	Pretzels, hard	Add SDA SBO to= 1.8 or 1.3 g/serv
54408020	Pretzels, soft	Add SDA SBO to= 1.8 or 1.3 g/serv
54408030	Pretzels, hard, unsalted	Add SDA SBO to= 1.8 or 1.3 g/serv
54408070	Pretzel, hard, multigrain	Add SDA SBO to= 1.8 or 1.3 g/serv
54408200	Pretzel, hard, chocolate coated	Add SDA SBO to= 1.8 or 1.3 g/serv
54408250	Pretzel, yogurt covered	Add SDA SBO to= 1.8 or 1.3 g/serv
54408300	Pretzels, cheese-filled (incl combos)	Add SDA SBO to= 1.8 or 1.3 g/serv
54420010	Multigrain mixture, pretzels, cereal &/ crackers,nuts	Add SDA SBO to= 1.8 or 1.3 g/serv
54420100	Oriental party mix, w/ peanuts, sesame sticks, etc	Add SDA SBO to= 1.8 or 1.3 g/serv
54420200	Multigrain mix, bread sticks, sesame nuggets, pretz	Add SDA SBO to= 1.8 or 1.3 g/serv
54440010	Bagel chip	Add SDA SBO to= 1.8 or 1.3 g/serv
71201010	White potato, chips (incl flavored)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
71201050	White potato, chips, reduced fat	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
71201080	White potato, chips, fat free	Add SDA SBO to= 1.8 or 1.3 g/serv
71201090	White pot chips, fat free, w/ olean	Replace Existing SBO with 1.3 g/serv SDA SBO, Add SDA SBO to= 1.8 g/serv
71201100	White potato, chips, restructured (incl pringles)	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
71201200	White potato, chips, restructured, red fat/sodium	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
71201210	White potato, chips, restructured, fat free, made w/ olean	Add SDA SBO to= 1.8 or 1.3 g/serv
71201250	White potato, chips, restructured, baked	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
71202000	White potato, chips, unsalted	Replace Existing SBO with 1.8 or 1.3 g/serv SDA SBO
71205000	White potato, sticks (incl french fry shaped)	Add SDA SBO to= 1.8 or 1.3 g/serv

**Soft Candy-Candy Bars**

Food Code	Soft Candy-Candy Bar Food Description	Recipe Alteration
91700010	Candy, nfs	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91703150	Toblerone,milk chocolate w/ honey & almond nougat	Add SDA SBO to= 1.8 or 1.3 g/serv
91703200	Twix cookie bars	Add SDA SBO to= 1.8 or 1.3 g/serv
91703250	Twix chocolate fudge cookie bars	Add SDA SBO to= 1.8 or 1.3 g/serv
91703300	Twix peanut butter cookie bars	Add SDA SBO to= 1.8 or 1.3 g/serv
91703350	Bar none candy bar	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91703400	Whatchamacallit candy	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91705010	Chocolate, milk, plain	Add SDA SBO to= 1.8 or 1.3 g/serv
91705020	Chocolate, milk, w/ cereal (include krackel bar)	Add SDA SBO to= 1.8 or 1.3 g/serv
91705030	Kit kat candy bar	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91705040	Chocolate, milk, w/ nuts, not almonds or peanuts	Add SDA SBO to= 1.8 or 1.3 g/serv
91705050	Chocolate, milk, w/ fruits & nuts (include chunky)	Add SDA SBO to= 1.8 or 1.3 g/serv
91705060	Chocolate, milk, w/ almonds	Add SDA SBO to= 1.8 or 1.3 g/serv
91705070	Chocolate, milk, w/ peanuts (include mr goodbar)	Add SDA SBO to= 1.8 or 1.3 g/serv
91705200	Chocolate, semi-sweet	Add SDA SBO to= 1.8 or 1.3 g/serv
91705300	Chocolate candy, sweet or dark	Add SDA SBO to= 1.8 or 1.3 g/serv
91705400	Chocolate candy, white	Add SDA SBO to= 1.8 or 1.3 g/serv
91705410	Chocolate candy, white, w/ almonds	Add SDA SBO to= 1.8 or 1.3 g/serv
91705420	Chocolate, white, w/ cereal, candy	Add SDA SBO to= 1.8 or 1.3 g/serv
91705500	Mexican chocolate (tablet)	Add SDA SBO to= 1.8 or 1.3 g/serv
91708010	Fruit candy bar	Add SDA SBO to= 1.8 or 1.3 g/serv
91715100	Snickers candy bar	Add SDA SBO to= 1.8 or 1.3 g/serv
91715200	Baby ruth candy bar	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91715300	100 grand bar (incl \$100,000 bar)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91718100	Butterfinger candy bar	Add SDA SBO to= 1.8 or 1.3 g/serv
91726000	Nougat candy, plain	Add SDA SBO to= 1.8 or 1.3 g/serv
91726110	Nougat candy, w/ caramel, chocolate-covered	Add SDA SBO to= 1.8 or 1.3 g/serv
91726120	Milky way ii	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91726130	Milky way bar	Add SDA SBO to= 1.8 or 1.3 g/serv
91726140	Milky way dark bar	Add SDA SBO to= 1.8 or 1.3 g/serv
91726150	Mars bar	Add SDA SBO to= 1.8 or 1.3 g/serv
91732000	Peanut candy bar	Add SDA SBO to= 1.8 or 1.3 g/serv
91732100	Planters peanut candy bar	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91733000	Peanut brittle	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
91733200	Peanut bar, chocolate covered	Add SDA SBO to= 1.8 or 1.3 g/serv
91734100	Reese's peanut butter cups	Add SDA SBO to= 1.8 or 1.3 g/serv
91734300	Reese sticks	Add SDA SBO to= 1.8 or 1.3 g/serv
91760100	Toffee, chocolate covered (incl heath bar, skor)	Add SDA SBO to= 1.8 or 1.3 g/serv

## Soups and Soup Mixes

Food Code	Soup- Food Description	Recipe Alteration
14710110	Cheddar cheese soup, canned, undiluted	Add SDA SBO to= 1.8 or 1.3 g/serv
14710200	Beer soup, made w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
28310110	Beef broth, bouillon or consommé (incl broth, nfs)	Add SDA SBO to= 1.8 or 1.3 g/serv
28310150	Oxtail soup	Add SDA SBO to= 1.8 or 1.3 g/serv
28310210	Chili beef soup	Add SDA SBO to= 1.8 or 1.3 g/serv
28311010	Pepperpot (tripe) soup (incl menudo/mondongo soup)	Add SDA SBO to= 1.8 or 1.3 g/serv
28315100	Beef veg soup w/potato, stew type (incl chunky sty)	Add SDA SBO to= 1.8 or 1.3 g/serv
28315120	Beef veg soup w/ noodles, stew type, chunky style	Add SDA SBO to= 1.8 or 1.3 g/serv
28315130	Beef veg soup w/ rice, stew type, chunky style	Add SDA SBO to= 1.8 or 1.3 g/serv
28316020	Beef & mushroom soup, canned, low sodium (incl beef)	Add SDA SBO to= 1.8 or 1.3 g/serv
28317010	Beef stroganoff soup, chunky style	Add SDA SBO to= 1.8 or 1.3 g/serv
28320110	Pork & rice soup, stew type, chunky style	Add SDA SBO to= 1.8 or 1.3 g/serv
28320120	Pork veg soup w/ noodles, stew type, chunky style	Add SDA SBO to= 1.8 or 1.3 g/serv
28340110	Chicken broth/bouillon/consommé (incl from powder)	Add SDA SBO to= 1.8 or 1.3 g/serv
28340140	Chicken broth/bouillon, dry, not reconstituted	Add SDA SBO to= 1.8 or 1.3 g/serv
28340310	Chicken gumbo soup	Add SDA SBO to= 1.8 or 1.3 g/serv
28340510	Chicken noodle soup, chunky	Add SDA SBO to= 1.8 or 1.3 g/serv
28340530	Chicken soup	Add SDA SBO to= 1.8 or 1.3 g/serv
28340550	Sweet & sour soup	Add SDA SBO to= 1.8 or 1.3 g/serv
28340610	Chicken vegetable soup, stew type (incl chunky)	Add SDA SBO to= 1.8 or 1.3 g/serv
28340630	Chicken veg soup w/ rice, stew type, chunky style	Add SDA SBO to= 1.8 or 1.3 g/serv
28340640	Chicken veg soup w/ noodles, stew type, chunky styl	Add SDA SBO to= 1.8 or 1.3 g/serv
28340700	Bird's nest soup (chicken, ham, noodles)	Add SDA SBO to= 1.8 or 1.3 g/serv
28340750	Hot & sour soup (include hot & spicy chinese soup)	Add SDA SBO to= 1.8 or 1.3 g/serv
28345030	Chicken soup, cream of, made w/ water, reduced sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
28345040	Chicken soup, cream of, undiluted, reduced sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
28345110	Chicken soup, cream of, ns as to milk or water	Add SDA SBO to= 1.8 or 1.3 g/serv
28345120	Chicken/turkey soup,cream of, w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
28345130	Chicken soup, cream of, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
28345140	Chicken soup, cream of, canned, undiluted	Add SDA SBO to= 1.8 or 1.3 g/serv
28345160	Chicken & mushroom soup, cream of, w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
28350110	Crab soup, ns as to tomato-base or cream	Add SDA SBO to= 1.8 or 1.3 g/serv
28350210	Clam chowder, ns as to manhattan or new england	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
28350220	Clam chowder, manhattan (include chunky)	Add SDA SBO to= 1.8 or 1.3 g/serv
28355110	Clam chowder, new eng, ns as to milk or water added	Add SDA SBO to= 1.8 or 1.3 g/serv
28355120	Clam chowder, new england, w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
28355140	Clam chowder, canned, new england, red sodium, rts	Add SDA SBO to= 1.8 or 1.3 g/serv
28355350	Salmon soup, cream style	Add SDA SBO to= 1.8 or 1.3 g/serv
28355410	Shrimp soup, cream of, ns as to milk/water added	Add SDA SBO to= 1.8 or 1.3 g/serv
28355420	Shrimp soup, cream of, w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Soup- Food Description	Recipe Alteration
28355430	Shrimp soup, cream of, w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
41601010	Bean soup, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
41601020	Bean w/ bacon or pork soup	Add SDA SBO to= 1.8 or 1.3 g/serv
41601030	Black bean soup	Add SDA SBO to= 1.8 or 1.3 g/serv
41601070	Soybean soup, miso broth	Add SDA SBO to= 1.8 or 1.3 g/serv
41601090	Bean soup w/ macaroni (incl pasta e fagioli)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
41601110	Bean & ham soup, chunky style (incl campbell's old	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
41601120	Bean soup w/ veg, rice, & pork (incl campbell's chu	Add SDA SBO to= 1.8 or 1.3 g/serv
41601150	Bean soup w/ veg & rice, can, red sodium, w/ water/rts	Add SDA SBO to= 1.8 or 1.3 g/serv
41602010	Chunky pea & ham soup	Add SDA SBO to= 1.8 or 1.3 g/serv
41602030	Split pea & ham soup	Add SDA SBO to= 1.8 or 1.3 g/serv
41602050	Split pea soup	Add SDA SBO to= 1.8 or 1.3 g/serv
41602070	Split pea soup, can, reduced sodium, w/ water/rts	Add SDA SBO to= 1.8 or 1.3 g/serv
58400000	Soup, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
58400100	Noodle soup, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
58400200	Rice soup, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
58401010	Barley soup (include beef/chicken/mushroom barley)	Add SDA SBO to= 1.8 or 1.3 g/serv
58402010	Beef noodle soup	Add SDA SBO to= 1.8 or 1.3 g/serv
58402020	Beef dumpling soup	Add SDA SBO to= 1.8 or 1.3 g/serv
58402030	Beef rice soup	Add SDA SBO to= 1.8 or 1.3 g/serv
58403010	Chicken noodle soup (include chicken & stars soup)	Add SDA SBO to= 1.8 or 1.3 g/serv
58403030	Chicken noodle soup, canned, low sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
58403050	Chicken noodle soup, cream of	Add SDA SBO to= 1.8 or 1.3 g/serv
58403060	Chicken noodle soup,can,red sodium,ready-to-serve	Add SDA SBO to= 1.8 or 1.3 g/serv
58404010	Chicken rice soup (incl turkey rice soup)	Add SDA SBO to= 1.8 or 1.3 g/serv
58404040	Chicken rice soup, can, red sodium, prep w/ water/rts	Add SDA SBO to= 1.8 or 1.3 g/serv
58404520	Chicken soup w/ dumplings	Add SDA SBO to= 1.8 or 1.3 g/serv
58406010	Turkey noodle soup	Add SDA SBO to= 1.8 or 1.3 g/serv
58407000	Instant soup, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
58407010	Instant soup, noodle (include meat & veg flavors)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58407030	Soup, mostly noodles(incl spaghetti soup,top ramen)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
58407040	Instant soup, rice (include meat/chicken flavor)	Add SDA SBO to= 1.8 or 1.3 g/serv
58407050	Instant soup, noodle w/ egg, shrimp or chicken	Add SDA SBO to= 1.8 or 1.3 g/serv
58450300	Noodle soup, made w/ milk	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
71801000	Potato soup, ns as to made w/milk or water	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
71801010	Potato soup, cream of, w/ milk	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
71801020	Potato soup, prepared w/ water	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
71801040	Potato soup, instant, made from dry mix	Add SDA SBO to= 1.8 or 1.3 g/serv
72302000	Broccoli soup (include cream of broccoli soup)	Add SDA SBO to= 1.8 or 1.3 g/serv
72302100	Broccoli cheese soup, prep w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
73501000	Carrot soup, cream of, w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Soup- Food Description	Recipe Alteration
74601000	Tomato soup, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
74601010	Tomato soup, cream of, prep w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
74602010	Tomato soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
74602030	Tomato soup, canned, undiluted	Add SDA SBO to= 1.8 or 1.3 g/serv
74602050	Tomato soup, instant type, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
74602100	Tomato soup, canned, low sodium, ready-to-serve	Add SDA SBO to= 1.8 or 1.3 g/serv
74602300	Tomato soup, canned, reduced sodium, prepared with milk	Add SDA SBO to= 1.8 or 1.3 g/serv
74603010	Tomato beef soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
74604100	Tomato beef rice soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
74604500	Tomato noodle soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
74604600	Tomato noodle soup, cream of	Add SDA SBO to= 1.8 or 1.3 g/serv
74605010	Tomato rice soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
74606010	Tomato vegetable soup, prep w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
74606020	Tomato vegetable soup w/noodles, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75600150	Soup, cream of, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
75601000	Asparagus soup, cream of, ns as to w/ milk or water	Add SDA SBO to= 1.8 or 1.3 g/serv
75601010	Asparagus soup, cream of, w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
75601100	Beet soup (borscht)	Add SDA SBO to= 1.8 or 1.3 g/serv
75603000	Celery soup, cream of, ns as to milk or water added	Add SDA SBO to= 1.8 or 1.3 g/serv
75603010	Celery soup, cream of, w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
75603020	Celery soup, cream of, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75603030	Celery soup, cream of, canned, undiluted	Add SDA SBO to= 1.8 or 1.3 g/serv
75605010	Leek soup, cream of, prep w/ milk	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75607000	Mushroom soup, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
75607010	Mushroom soup, cream of, prep w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
75607020	Mushroom soup, cream of, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75607030	Mushroom soup, canned, undiluted (incl cream of)	Add SDA SBO to= 1.8 or 1.3 g/serv
75607060	Mushroom soup, cream of, ns as to w/ milk or water	Add SDA SBO to= 1.8 or 1.3 g/serv
75607130	Mushroom soup, made from dry mix	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75607140	Mushroom soup, cream of, can, prep w/ water, reduced sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
75607150	Mushroom soup, cream of, can, undiluted, reduced sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
75608010	Onion soup, cream of, prep w/ milk	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75608100	Onion soup, french	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75608200	Onion soup, made from dry mix	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75608300	Onion soup, dry mix, not reconstituted	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75609000	Pea soup, nfs	Add SDA SBO to= 1.8 or 1.3 g/serv
75609010	Pea soup, prep w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
75609020	Pea soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75611010	Vegetable soup, cream of, prep w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv
75612010	Zucchini soup, cream of, prep w/ milk	Add SDA SBO to= 1.8 or 1.3 g/serv

Food Code	Soup- Food Description	Recipe Alteration
75646010	Shav soup	Add SDA SBO to= 1.8 or 1.3 g/serv
75647000	Seaweed soup	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75649010	Vegetable soup, prep w/ water or ready-to-serve	Add SDA SBO to= 1.8 or 1.3 g/serv
75649030	Vegetable soup, canned, low sodium	Add SDA SBO to= 1.8 or 1.3 g/serv
75649050	Vegetable soup, made from dry mix	Add SDA SBO to= 1.8 or 1.3 g/serv
75650990	Minestrone soup, canned, reduced sodium, rts	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75651010	Vegetable bean soup, prepared w/ water	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75651020	Vegetable beef soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75651030	Vegetable beef noodle soup, prepared w/ water	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75651040	Vegetable noodle soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75651050	Vegetable chicken soup, w/ water or ready-to-serve	Add SDA SBO to= 1.8 or 1.3 g/serv
75651070	Vegetable rice soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75651080	Veg beef soup w/rice, prep w/ water, ready-to-serve	Add SDA SBO to= 1.8 or 1.3 g/serv
75651090	Veg chicken soup, low sodium, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75651110	Veg chicken rice soup, prepared w/ water / ready to	Add SDA SBO to= 1.8 or 1.3 g/serv
75651120	Veg chicken noodle soup,prep w/water,ready-to-serve	Add SDA SBO to= 1.8 or 1.3 g/serv
75651140	Veg soup w/ chicken broth, mexican style (sopa ranchera)	Remove portion of non SBO, Add SDA SBO to= 1.8 or 1.3g/serv
75654010	Vegetarian vegetable soup, prepared w/ water	Add SDA SBO to= 1.8 or 1.3 g/serv
75654020	Vegetarian vegetable soup, undiluted	Add SDA SBO to= 1.8 or 1.3 g/serv
75657000	Vegetable broth, bouillon (incl pot liquor)	Add SDA SBO to= 1.8 or 1.3 g/serv