ADDED SUGAR IN THE CANADIAN FOOD SUPPLY: A DESCRIPTIVE ANALYSIS

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35 22 RBA participated in designing the study, developing the research questions, conducting the analyses, and writing 36 23 the initial draft of the document. LV and DH participated in designing the study methods, and developing the research questions. EPH participated in acquiring the data. All authors participated in editing the document, and have read and approved the final document.

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ABSTRACT

BACKGROUND: Excess consumption of added sugars has been associated with a variety of health problems, but there is little information available characterizing added sugar in the Canadian food supply. This study examined the presence and types of added sugars in the Canadian packaged food supply.

METHODS: Our study analyzed a comprehensive database of food product information from a major national grocery retailer. We searched the ingredients lists of over 40,000 packaged food products available for sale in March 2015 for a variety of added sugar terms. Proportions of food products containing added sugar were identified overall and within food product categories. Differences in total sugar content were identified between food products with and without added sugar.

RESULTS: Overall, 66% of the packaged food products analyzed contained at least one added sugar. The added sugar term 'sugar' (and its variations) appeared the most frequently, followed by 'dextrose'. Added sugar presence and total sugar content varied within many product categories, but were consistently higher in expected categories such as 'Beverages'. Mean total sugar content was significantly higher in products with added sugar than in those without, both overall (p<0.0001) and within most product subcategories (p < 0.01).

INTERPRETATION: Approximately two thirds of the current Canadian packaged food supply contains added sugar, similar to recent patterns estimated for the US food supply. This study provides a 36 50 baseline characterization of added sugar in the Canadian food supply, which can be used to assess outcomes of future changes to sugar labeling policies in Canada.

52 INTRODUCTION

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Added sugar has emerged as an important public health issue. The term "added sugar" generally refers to sugars (or ingredients that functionally substitute for sugars) that are added to foods and beverages during preparation or processing, unlike intrinsic sugars that are found within the structure of intact fruits and vegetables, or sugars naturally occurring in milk.^{1,2} Higher intakes of added sugars threaten the nutrient quality of diets by replacing essential nutrients and increasing the overall energy density of diets.³ There is a growing body of evidence indicating that excess added sugar consumption is associated with a variety of health problems, including heart disease,^{4,5,6} stroke,⁶ obesity,^{7,8,9,10,11} diabetes,^{12,13,14,15,16} high blood cholesterol,^{17,18} cancer,¹⁹ and dental caries.²⁰ The World Health Organization recommends reducing intake of free sugars to below 10% of total energy intake, and to less than 5% for additional health benefits.²¹ Similarly, the Heart and Stroke Foundation of Canada recommends individuals to limit their consumption of added sugars to a maximum of 10% of total daily calorie intake, as do the 2015-2020 Dietary Guidelines for Americans in the United States.^{22,23}

An increasing proportion of the food supply is categorized as processed and packaged foods.²⁴ which tend to be high in added sugars.²⁵ Worldwide, daily per capita consumption of caloric sweetener (a term which excludes sugars added from fruit juice) increased by 74 calories from 1962 to 2000.²⁶ Limited data are available on Canadians' added sugar consumption, but it has been estimated to fall between 11 and 13% of total energy intake.^{27,28} To date, there is little information about the levels of added sugar content in the food supply in general. A recent study by Popkin and Hawkes examined added sugar in the US, and found that 68% of packaged food and beverages purchased in 2013 contained added sugars, after excluding low-calorie sweeteners.²⁹ To our knowledge, there are currently no estimates of the added sugar levels in the Canadian food supply. The primary objective of the current study was to examine the presence and types of added sugars in the Canadian food supply through an analysis of a comprehensive database of food product information from a major national grocery retailer in Canada. In particular, the study sought to estimate the proportion of packaged food products with added sugar both overall and by food category, identify the frequency of different types of added sugars, and identify differences in total sugar content between food products with and without added sugar.

82 METHODS

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84 The study analysed a comprehensive database containing food product information of over 60,000 85 items available for sale in March 2015 across all banner stores of a major national grocery retailer. The 86 data provided UPC information, food product categories, product descriptions, Nutrition Facts table 87 information, and the ingredients lists of each food product. For the purposes of this study, only 88 packaged foods were included in the analysis. Products identified as fresh fruits or vegetables, fresh 89 meat, raw ingredients (water, baking ingredients, coffee and tea, fats and oils, etc.), or non-food items 12 13 90 (natural health products, nutrition and protein supplements, etc.) were excluded. After exclusions, 14 15 91 40,829 packaged food products were analyzed in the current study. 16

18 93 To assess the comprehensiveness of the set of food products included in this database, we compared the 19 20 94 UPCs of the 40,829 products to supermarket transaction data recorded in the period of March 1 to 15, 22 95 2015. Over 150 million sales transactions were recorded in the retailers' stores across Canada over this 96 two-week period, and included 60,563 unique UPCs. The results of this comparison indicated that 58% 24 25 97 of the products analyzed in this paper were sold in the first two weeks of March. Of the 42% of 26 27 98 products not sold in the first two weeks of March, most were likely to be seasonal or infrequently sold 28 29 99 food items. The March sales transaction data also included 26,711 UPC codes that were not among the 30 31 100 40,829 food products analyzed in this paper. The majority of these were non-food items (51%) or 33¹01 discontinued products (9%). The remaining were products for which nutritional information had not yet ³⁴₃₅102 been provided (37%).

38104 Measures

40105 The 40,829 food products were sorted into 10 categories (Milk and Dairy; Protein Foods; Mixed 41 42 106 Dishes; Grains; Baked Goods; Snacks and Sweets; Beverages; Condiments, Sauces and Spreads; Infant 43 107 44 Formula and Baby Food; Fruits and Vegetables) and 30 subcategories, as seen in Table 1. These 45108 categories were adapted from those used in the What We Eat in America dietary intake component of 46 the National Health and Nutrition Examination Survey (NHANES).³⁰ 47 109

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50 51 There is varying terminology used to describe sugars in the literature.³¹ Traditionally, the term "added 52₁₁₂ 53 sugars" refers to all sugars added to foods, including honey and syrups, but does not necessarily include fruit juices.³¹ The World Health Organization has adopted the term "free sugars" with the intention of 54113 55 56¹¹⁴ creating a more precise definition, and define it as "all monosaccharides and disaccharides added to 57 58 115 foods by the manufacturer, cook or consumer, plus sugars naturally present in honey, syrups and fruit

2 juices".³² The World Health Organization's definition for free sugars was used to identify added sugars 116 3 4 117 in the current study. We searched for 30 different added sugar terms in the ingredients lists of the food 5 6 118 products: agave, malt/barley malt, cane juice, caramel, carob, corn sweetener, corn syrup, date paste, 7 119 dextran, dextrose, diatase, ethyl maltol, Florida crystals, fructose, fruit juice concentrate, galactose, 8 9 J₁₀120 glucose, glucose-fructose, high fructose corn syrup, honey, lactose, maltodextrin, maltose, molasses, 11 12 nectar, panocha, sucrose, sugar, syrup, and treacle.^{33,34,35} High-level terms such as 'sugar' or 'syrup' contained multiple varieties of added sugars (e.g. "icing sugar", "grape sugar", "raw sugar"; "rice 13122 14 syrup", "golden syrup"). Terms more commonly recognized on their own, such as "corn syrup", were 15123 16 17 124 included in independent categories. The search method accounted for sugars with overlapping names, 18 19 125 such as "fructose" and "high-fructose corn syrup", and excluded unwanted non-sugar ingredients that 20 126 21 might be identified with the search terms, such as "honeydew melon" or "caramelized onions". We 22127 excluded sugar alcohols such as sorbitol, glycerol and erithritol from our search, as they contain 23 24 128 insignificant amounts of energy, as done in previous research.^{29,36} 25 26 129

²⁷ 130 28 "Total sugar", as opposed to added sugar, indicates the total grams of sugar in one serving of a food product, including added, intrinsic, and milk sugars.² We identified total sugar using an existing 29131 variable in the database that provided grams of sugar per serving, as listed on the products' Nutrition 31 1 32 32 33 133 Facts tables.

36135 **Statistical Analysis** 37

This study utilized 'COUNTIF' functions in Excel 2013 to search for each added sugar term, including 38136 39 40137 searches for variations in spelling and punctuation. The researchers used SPSS statistics software 41 42 138 (version 22.0; IBM Corp., Armonk, NY, USA; 2014) to perform descriptive statistics (counts, means, 43 139 44 standard deviations, and proportions) and to conduct t-tests to analyze significant differences in total 45140 sugar between products with and without added sugars. 46

48 49 142 RESULTS

⁵⁰ 143 Overall, 66% of the 40,829 packaged food products contained at least one added sugar in their 52144 ingredients list. 53

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55 56146 **Types of added sugars**

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147 Table 2 displays the frequency and proportion at which each different added sugar term appeared in the 148 products examined. The most common added sugar term was 'sugar', identified in 54% of all food 149 products analyzed. The next five most frequently appearing terms (dextrose, glucose, glucose-fructose, 150 corn syrup, and maltodextrin) were found in 45% of all food products, collectively. The terms ŭ 10¹⁵¹ 'dextran', 'diatase', 'Florida crystals', 'galactose', and 'panocha' were also included in the search strategy as potential added sugars, but they did not appear in any of the food products analysed.

Sugar content

Table 1 displays the mean amount of total sugar present in products by subcategory. Overall, products in the 'Beverages' category contained the highest mean levels of total sugar levels. The 'Milk and Dairy' and 'Snacks and Sweets' categories were highly variable in the total sugar levels across their subcategories. 'Condiments, Sauces and Spreads', 'Infant Formula and Baby Food', and 'Fruits and Vegetables' contained the next highest levels of total sugar. The remaining categories of 'Protein Foods', 'Mixed Dishes', 'Grains' and 'Baked Goods' all contained relatively lower levels of total sugars in comparison to the other categories.

Table 1 also displays the proportion of the foods in each subcategory that contained at least one added sugar in their ingredients list, according to the search method. These results followed a similar pattern to the mean total sugar described previously, with high proportions of added sugar in categories with high total sugar. Some notable exceptions included the 'cured meats', 'soups', 'pizza', 'Mexican', and 'breads' subcategories, in which a high proportion of the products contained added sugar, but the mean total sugar content was relatively low.

Total sugar in products with and without added sugar

45171 Table 1 presents the mean amount of total sugar found in products identified as having added sugar and 47172 in those without, by subcategory. The overall mean total sugar in products with added sugar was 48 49 173 significantly higher than the overall total sugar in products without added sugar, at 11.0 g and 2.9 g 50 51 174 respectively (t = -80.830; p<0.0001). There were also significant differences in total sugar content 52₁₇₅ 53 between products with and without added sugar within each of the subcategories (p<0.01 in all cases), 54176 with the exception of 'pizza' (p=0.75) and 'Mexican' (p=0.95) subcategories.

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The search strategy resulted in 2,311 food products that contained "0 g" of total sugar per serving, but 178 179 were identified as having at least one added sugar in their ingredients list. This discrepancy may be 180 primarily explained by the fact that Canada's Nutrition Facts table guidelines allow manufacturers to list total sugar as 0 g if one serving of the food product contains less than 0.5 g of total sugar.³⁷ 181

11 12¹⁸³ **INTERPRETATION**

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13184 The results of the current study indicate that approximately two-thirds of the packaged food products 15185 sold in a major Canadian supermarket retailer contain added sugar. These results are comparable to 16 17 186 estimates reported by Popkin and Hawkes in the US, and suggest a high level of consistency in added 18 19¹⁸⁷ sugar presence across the North American food supply.²⁹ The retailer analyzed in this study commands 20₁₈₈ 21 approximately one third of the Canadian supermarket market share, serving a large proportion of 22189 shoppers in this country. Given the company's widespread permeation across Canada, it is reasonable 24 190 to argue that the sample of over 40,000 food products analyzed in this study is a realistic representation 25 26¹⁹¹ of the entire Canadian packaged food supply.

29193 The added sugar term most commonly identified in ingredients lists ("sugar" and its variations) may be 31 194 familiar to consumers, but numerous lesser-known terms also appear frequently, which consumers may 32 33 195 not recognize as added sugars. This diverse terminology may pose a challenge for consumers trying to ³⁴ 35 196 identify whether or not a product contains added sugar. The presence of added sugar was highest in the 36197 expected food products including candy, sweet bakery products, and soda, but was also very high in 38198 food products that many consumers choose as "healthy" options, such as snack bars, cereal, and juice. 39 40 199 Mean amounts of total sugar were highest in similar food categories to those that had a high presence 41 42²⁰⁰ of added sugar. Foods that contain added sugar tend to have significantly higher total sugar contents 43 44 201 than those without added sugar. Some exceptions to this observation were the 'pizza' and 'Mexican' 45202 food product categories, both of which had very high proportions of products containing added sugar, 46 47 203 but relatively low mean total sugar contents. These discrepancies indicate that while the majority of the 48 49²⁰⁴ products in those food categories do contain added sugar, the average amount of added and intrinsic 50 51 205 sugars across those products is very small.

52₂₀₆ 53 54207 There is little known about consumers' level of knowledge and awareness of added sugars in food 55 56 208 products. However, evidence does suggest consumers have several misunderstandings about sugars and 57 58²⁰⁹ sugar processing, including confusion about the safest ways to consume sugars in a healthy diet, and

2 the belief that sugar content of fruit juice is less of a health risk than soft drinks.³⁸ Further, around one-210 3 4 211 quarter of young people cannot identify if there is added sugar present in a food item when there is no 5 added sugar information on Nutrition Facts tables.³⁹ In an effort to address the confusion over added 6 212 7 8 213 sugars, the US has recently finalized updates to their Nutrition Facts label that include requirements to 9 10²¹⁴ 9 distinguish between intrinsic and added sugars, with a percent daily value (%DV) for added sugars 11 215 12 based on the USDA recommendation that they not exceed 10% of total daily calories.⁴⁰ Health Canada 13216 14 has also recently considered the addition of an added sugar value on Nutrition Facts tables, as well as a 15217 reorganization of the ingredients list that would group all sugars together in a set of brackets, which 16 17218 may aid consumers in finding and reading added sugars in the list of ingredients.^{41,42} 18 19²¹⁹

20 220 Limitations and Strengths

The products in this study come from the largest food retailer in Canada across of a range of supermarket "banners"; however, the data does not include products from other retailers. Additionally, the food product data used in this study were not linked with supermarket transaction data, therefore the results reflect what is available for purchase rather than sales weighted data on consumer purchasing behaviours. Despite these limitations, the product database analyzed in the current paper represents the largest database of pre-packaged foods in Canada of which we are aware.

Not all of the products in the food database were sold within a two-week period for which sales data was available. However, there were no substantial differences between the presence of added sugar in the 40,829 products analyzed (66.0% containing added sugar) and in the portion of those that were verified as sold within March 1 to 15, 2015 (67.2% containing added sugar). The decision to include all products reported in the food database (as opposed to only those sold during the two-week period) is that it provides a more comprehensive analysis of seasonal and non-seasonal products that may not be captured in sales transactions over a single two-week time period.

⁴⁸ ⁴⁹²³⁶ The number of different ways in which added sugar is reported as an ingredient represents an additional ⁵⁰ ⁵¹²³⁷ challenge. Efforts were undertaken to include all relevant ingredients; however, the search strategy may ⁵² ⁵³ have overlooked some new or rare terms for added sugar.

- 54239
- 55 56240 **Conclusions**
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3 A high proportion of pre-packaged foods in Canada contain added sugar. The current findings 5 6 underscore the prevalence of added sugar in the Canadian food supply, as well as the difficulty of identifying added sugar content, which requires a detailed understanding of the many ways in which 8 244 added sugar is reported as an ingredient. In the absence of requirements to report added sugar levels in 10²⁴⁵ nutrition labels, Canadian consumers lack the information necessary to act on public health $^{11}_{12}246$ recommendations to limit added sugar consumption.

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357 TABLES

358 Table 1. Total Sugar and Added Sugar by Food Product Subcategory

Mean TS (g (s.d.)Proportion with AS (g (s.d.)TS among those without AS (g (s.d.)MILK & DAIRYg (s.d.) $\%$ g (s.d.)MILK & DAIRY7.9 (6.4)63.13.4 (5.2)Cheese0.7 (1.9)10.70.4 (1.6)Yogurt14.2 (7.8)73.86.1 (3.9)PROTEIN FOODS7.1885.00.3 (2.3)Chread & poultry2.4 (3.8)68.20.6 (1.2)Fish & Seafood1.0 (1.9)43.90.1 (0.5)Cured meats0.7 (1.8)85.00.3 (2.3)Canned fish/meats0.8 (4.2)30.50.1 (0.4)Plant-based Protein Foods ⁴ 2.7 (4.0)20.61.8 (2.2)MIXED DISHES98.5**Soups3.0 (3.8)78.22.1 (4.4)Pizza3.5 (2.1)98.5*Mexican2.0 (1.4)75.62.0 (1.7)Frozen dinners/entrees5.9 (7.3)74.22.7 (2.6)Other mixed dishes4.9 (6.4)71.42.0 (2.2)GRAINS $I.4$ (2.5)17.21.2 (2.8)Grains ⁶ 1.4 (2.5)17.21.2 (2.8)SNACKS & SWEETS $I.7$ (2.6)68.90.5 (1.3)Snack/meal bars10.3 (3.8)99.4*Swet bakery products14.1 (9.0)97.72.0 (3.7)Carackers1.7 (2.6)68.90.5 (1.3)Snack/meal bars10.3 (3.8)99.4*Swet bakery products14.1 (9.0)97.66.0 (8.6)Other desse						
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Darry drinks & substitutes7.9 (6.4)63.1 3.4 (5.2)Cheese0.7 (1.9)10.70.4 (1.6)Yogurt14.2 (7.8)73.86.1 (3.9) PROTEIN FOODS 868.20.6 (1.2)Fish & Seafood1.0 (1.9)43.90.1 (0.5)Cured meats0.7 (1.8)85.00.3 (2.3)Canned fish/meats0.8 (4.2)30.50.1 (0.4)Plant-based Protein Foods ^a 2.7 (4.0)20.61.8 (2.2) MIXED DISHES 98.5*Soups3.0 (3.8)78.22.1 (4.4)Pizza3.5 (2.1)98.5*Mexican2.0 (1.4)75.62.0 (1.7)Frozen dinners/entrees5.9 (7.3)74.22.7 (2.6)Other mixed dishes4.9 (6.4)71.42.0 (2.2) GRAINS \mathbf{C} 1.4 (2.5)17.21.2 (2.8)Grains ^e 1.4 (2.5)17.21.2 (2.4) BAKED GOODS \mathbf{S} \mathbf{S} 9.9.4*Swory snacks2.6 (4.7)53.51.0 (2.7)Crackers1.7 (2.6)68.90.5 (1.3)Snack/meal bars10.3 (3.8)99.4*Sweet bakery products14.1 (9.0)97.72.0 (3.7)Candy18.1 (9.0)97.66.0 (8.6)Other desserts14.9 (7.3)96.33.1 (4.6) BEVERAGES 14.9 (7.3)96.33.1 (4.6) BEVERAGES 14.9 (7.3)96.33.1 (4.6) BEVERAGES 21.4 (18.0)78.13	32	2.5		10.4 (4.3)	I	7.0 (13.3)
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PROTEIN FOODSRed meat & poultry 2.4 (3.8) 68.2 0.6 (1.2)Fish & Seafood 1.0 (1.9) 43.9 0.1 (0.5)Cured meats 0.7 (1.8) 85.0 0.3 (2.3)Canned fish/meats 0.8 (4.2) 30.5 0.1 (0.4)Plant-based Protein Foods ^a 2.7 (4.0) 20.6 1.8 (2.2)MIXED DISHES 85.0 0.3 (2.3)Soups 3.0 (3.8) 78.2 2.1 (4.4)Pizza 3.5 (2.1) 98.5 $*$ Mexican 2.0 (1.4) 75.6 2.0 (1.7)Frozen dinners/entrees 5.9 (7.3) 74.2 2.7 (2.6)Other mixed dishes 4.9 (6.4) 71.4 2.0 (2.2) GRAINS 83.3 (5.4) 85.7 1.2 (2.8)Grains ^c 1.4 (2.5) 17.2 1.2 (2.8)Grains ^c 1.4 (2.5) 17.2 1.2 (2.4) BAKED GOODS 83.3 (5.4) 85.7 1.0 (2.7)Creakers 1.6 (4.7) 53.5 1.0 (2.7)Crackers 1.7 (2.6) 68.9 0.5 (1.3)Shack/meal bars 10.3 (3.8) 99.4 $*$ Sweet bakery products 14.1 (9.0) 97.7 2.0 (3.7)Candy 18.1 (9.0) 97.6 6.0 (8.6)Other desserts 14.9 (7.3) 96.3 3.1 (4.6) BVERAGES 44.9 (7.3) 96.3 3.1 (4.6)Beverade trace 22.0 (10.6) 79	73	3.8		6.1 (3.9)		17.1 (6.7)
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Canned fish/meats $0.8 (4.2)$ 30.5 $0.1 (0.4)$ Plant-based Protein Foods ^a $2.7 (4.0)$ 20.6 $1.8 (2.2)$ MIXED DISHES $3.0 (3.8)$ 78.2 $2.1 (4.4)$ Pizza $3.5 (2.1)$ 98.5 *Mexican $2.0 (1.4)$ 75.6 $2.0 (1.7)$ Frozen dinners/entrees $5.9 (7.3)$ 74.2 $2.7 (2.6)$ Other mixed dishes $4.9 (6.4)$ 71.4 $2.0 (2.2)$ GRAINS $2.2 (2.6)$ 70.6 $0.8 (1.5)$ Cereals ^b $8.3 (5.4)$ 85.7 $1.2 (2.8)$ Brains ^c $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODS 8 $2.2 (2.6)$ 70.6 $0.8 (1.5)$ Swary snacks $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Shack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	85	5.0		0.3 (2.3)		0.8 (1.7)
Plant-based Protein Foodsa $2.7 (4.0)$ 20.6 $1.8 (2.2)$ MIXED DISHESSoups $3.0 (3.8)$ 78.2 $2.1 (4.4)$ Pizza $3.5 (2.1)$ 98.5 *Mexican $2.0 (1.4)$ 75.6 $2.0 (1.7)$ Frozen dinners/entrees $5.9 (7.3)$ 74.2 $2.7 (2.6)$ Other mixed dishes $4.9 (6.4)$ 71.4 $2.0 (2.2)$ GRAINS SS $1.2 (2.8)$ Cerealsb $8.3 (5.4)$ 85.7 $1.2 (2.8)$ Brainsc $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODS SSBreadsd $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETSSavory snacks $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGESUnice $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	30	0.5		0.1 (0.4)		2.5 (7.4)
MIXED DISHESSoups $3.0 (3.8)$ 78.2 $2.1 (4.4)$ Pizza $3.5 (2.1)$ 98.5 *Mexican $2.0 (1.4)$ 75.6 $2.0 (1.7)$ Frozen dinners/entrees $5.9 (7.3)$ 74.2 $2.7 (2.6)$ Other mixed dishes $4.9 (6.4)$ 71.4 $2.0 (2.2)$ GRAINSSS 5.7 $1.2 (2.8)$ Crereals ^b $8.3 (5.4)$ 85.7 $1.2 (2.8)$ Grains ^c $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODSBBB Breads ^d $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETS BBB Savory snacks $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGESBEVERAGESB $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	20	0.6		1.8 (2.2)		6.1 (6.5)
Soups $3.0 (3.8)$ 78.2 $2.1 (4.4)$ Pizza $3.5 (2.1)$ 98.5 *Mexican $2.0 (1.4)$ 75.6 $2.0 (1.7)$ Frozen dinners/entrees $5.9 (7.3)$ 74.2 $2.7 (2.6)$ Other mixed dishes $4.9 (6.4)$ 71.4 $2.0 (2.2)$ GRAINSSS 5.7 $1.2 (2.8)$ Grains ^c $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODSBBB $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETS SS $5.7 (1.0 (2.7))$ C Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$						
Pizza $3.5 (2.1)$ 98.5 *Mexican $2.0 (1.4)$ 75.6 $2.0 (1.7)$ Grozen dinners/entrees $5.9 (7.3)$ 74.2 $2.7 (2.6)$ Other mixed dishes $4.9 (6.4)$ 71.4 $2.0 (2.2)$ GRAINSSecond StateSecond StateSecond State Cereals ^b $8.3 (5.4)$ 85.7 $1.2 (2.8)$ Grains ^c $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODSSecond StateSecond State Breads ^d $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETS Second StateSecond State Savory snacks $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGESSecond StateSecond State Suice $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	78	8.2		2.1 (4.4)		3.3 (3.5)
Mexican $2.0 (1.4)$ 75.6 $2.0 (1.7)$ Frozen dinners/entrees $5.9 (7.3)$ 74.2 $2.7 (2.6)$ Other mixed dishes $4.9 (6.4)$ 71.4 $2.0 (2.2)$ GRAINSSS $71.4 (2.5)$ 17.2 Crereals ^b $8.3 (5.4)$ 85.7 $1.2 (2.8)$ Grains ^c $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODSBBB Breads ^d $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETSSS $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 $*$ Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGESUUU 97.6 53.2 Urice $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	98	8.5		*		3.5 (2.2)
Frozen dinners/entrees $5.9(7.3)$ 74.2 $2.7(2.6)$ Other mixed dishes $4.9(6.4)$ 71.4 $2.0(2.2)$ GRAINSS 71.4 $2.0(2.2)$ GRAINSS 71.4 $2.0(2.2)$ GRAINSS 71.4 $2.0(2.2)$ Grains ^c $1.4(2.5)$ 17.2 $1.2(2.8)$ Grains ^c $1.4(2.5)$ 17.2 $1.2(2.4)$ BAKED GOODSBBB Breads ^d $2.2(2.6)$ 70.6 $0.8(1.5)$ SNACKS & SWEETSS $1.0(2.7)$ Grackers $1.7(2.6)$ 68.9 $0.5(1.3)$ Shack/meal bars $10.3(3.8)$ 99.4 *Sweet bakery products $14.1(9.0)$ 97.7 $2.0(3.7)$ Candy $18.1(9.0)$ 97.6 $6.0(8.6)$ Other desserts $14.9(7.3)$ 96.3 $3.1(4.6)$ BEVERAGES uice $22.0(10.6)$ 79.3 $15.9(12.0)$ Op/Soda, Iced teas $26.5(18.0)$ 76.8 $0.5(3.2)$ Sports drinks, energy drinks, $21.4(18.0)$ 78.1 $3.5(7.5)$	75	5.6		2.0 (1.7)		2.0 (1.3)
Other mixed dishes $4.9 (6.4)$ 71.4 $2.0 (2.2)$ GRAINSS $3.3 (5.4)$ 85.7 $1.2 (2.8)$ Grains ^c $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODSBakeD GOODSBakeD GOODS Breads ^d $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETSS $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Breads divers $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Clandy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Cop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	74	4.2		2.7 (2.6)		7.1 (8.1)
GRAINSCereals ^b $8.3 (5.4)$ 85.7 $1.2 (2.8)$ Grains ^c $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODSBreads ^d $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SACKS & SWEETSSavory snacks $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Shack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGESuice $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Cop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	71	1.4		2.0 (2.2)		6.0 (7.1)
Cerealsb $8.3 (5.4)$ 85.7 $1.2 (2.8)$ Grainsc $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODS $2.2 (2.6)$ 70.6 $0.8 (1.5)$ Breadsd $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETS $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 $*$ Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$						~ /
Grains ^c $1.4 (2.5)$ 17.2 $1.2 (2.4)$ BAKED GOODSBreads^d $2.2 (2.6)$ 70.6 $0.8 (1.5)$ Breads^d $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETS $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Grackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Grack/meal bars $10.3 (3.8)$ 99.4 $*$ Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Cop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	85	5.7		1.2 (2.8)		9.5 (4.8)
BAKED GOODS Breads ^d $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETSSavory snacks $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Crackers $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES uice $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Cop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Soports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	17	7.2		1.2 (2.4)		2.5 (2.9)
Breads $2.2 (2.6)$ 70.6 $0.8 (1.5)$ Breadsd $2.2 (2.6)$ 70.6 $0.8 (1.5)$ SNACKS & SWEETS $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 $*$ Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Cop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$						
And (20)And (20)And (20)And (20)And (20)And (20)SNACKS & SWEETSSavory snacks $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGESGuice $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Soports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	7(0.6		0.8(1.5)		2.8(2.8)
Savory snacks $2.6 (4.7)$ 53.5 $1.0 (2.7)$ Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES uice $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$						
Crackers $1.7 (2.6)$ 68.9 $0.5 (1.3)$ Snack/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGESJuice $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	53	3.5		1.0(2.7)		3.9 (5.5)
Since/meal bars $10.3 (3.8)$ 99.4 *Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	68	8.9		0.5(1.3)		2.3 (2.8)
Sweet bakery products $14.1 (9.0)$ 97.7 $2.0 (3.7)$ Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	90	9.4		*		10.4 (3.8)
Candy $18.1 (9.0)$ 97.6 $6.0 (8.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	97	77		20(37)		14 4 (8 9)
Definition $10.1 (9.6)$ 91.6 $0.6 (0.6)$ Other desserts $14.9 (7.3)$ 96.3 $3.1 (4.6)$ BEVERAGES $22.0 (10.6)$ 79.3 $15.9 (12.0)$ Pop/Soda, Iced teas $26.5 (18.0)$ 76.8 $0.5 (3.2)$ Sports drinks, energy drinks, $21.4 (18.0)$ 78.1 $3.5 (7.5)$	97	76		60(86)		184(88)
BEVERAGES Juice 22.0 (10.6) 79.3 15.9 (12.0) Pop/Soda, Iced teas 26.5 (18.0) 76.8 0.5 (3.2) Sports drinks, energy drinks, 21.4 (18.0) 78.1 3.5 (7.5)	96	63		31(46)		154(70)
Juice 22.0 (10.6) 79.3 15.9 (12.0) Pop/Soda, Iced teas 26.5 (18.0) 76.8 0.5 (3.2) Sports drinks, energy drinks, 21.4 (18.0) 78.1 3.5 (7.5)	Λ			5.1 (1.0)		
Pop/Soda, Iced teas 26.5 (18.0) 76.8 0.5 (3.2) Sports drinks, energy drinks, 21.4 (18.0) 78.1 3.5 (7.5)	70	93		159(120)		236(96)
Sports drinks, energy drinks, 21.4 (18.0) 78.1 3.5 (7.5)	76	5.5 6.8		05(32)	2	43(12.4)
$\frac{1}{2} \frac{1}{2} \frac{1}$	79	8.0 8.1		35(3.2)	נ ר	
	/ 0	0.1		5.5 (1.5)	2	0.5 (10.7)
$\frac{170(44)}{250} = \frac{170(44)}{250} = \frac{170}{2}$	04	50		*		17 4 (4 0)
$\mathbf{CONDIMENTE} \in \mathbf{AUCES} \in \mathbf{SDDEADS}$	93	5.0		-4-		17.4 (4.0)

Infant formula & baby food	6.9 (6.0)	47.7	5.8 (5.7)	8.0 (6.1)	2.2
FRUITS & VEGETABLES					
Fruits & vegetables ^f	9.6 (13.4)	34.8	7.6 (14.4)	13.2 (10.2)	5.6
(Packaged/Processed)					

AS, Added Sugar; TS, Total Sugar.

- *Categories contain a negligible total (≤ 5 food products)
- ^a Includes beans, peas, legumes, nuts, seeds, and processed soy products.
- ^b Includes all hot and cold cereals.
- ^c Includes products such as pasta and rice.
- 15³⁶⁴ 16³⁶⁵ ^d Includes all varieties of bread products such as rolls, wraps and pitas.
- ^e Includes a wide variety of products such as jams, syrups, toppings, honey, gravy and salsa.
- ^f Includes only packaged or processed fruit and vegetable products, such as canned fruits and vegetables, dried
- 20³⁶⁸ packaged fruits, and applesauce-type fruit snacks.

2 369 4 Table 2. Frequency of Different Added Sugars (N=40,829)

5				% Products
ნ 7		Total Number	% All	with added
8	Added Sugar	of products	Products	sugar
9	Sugar (all other)	21869	54%	81%
10	Dextrose	4892	12%	18%
11	Glucose	3847	9%	14%
12 13	Glucose-Fructose	3555	9%	13%
14	Corn Syrup	3181	8%	12%
15	Maltodextrin	3015	7%	11%
16	Fruit Juice Concentrate	2278	6%	9%
17 10	Honey	1596	4%	6%
10 19	Molasses	1486	1%	6%
20	Syrup (all other)	1177	30/2	1%
21	Lactose	885	2%	/0 30/2
22	Fruetose	742	270	370
23	Cone Ivice	742	270	370 20/
24 25	Calle Juice	/00	270 10/	370 20/
26	Mait/Barley Mait	400	1%0	2%
27	High-Fructose Corn Syrup	361	1%	1%
28	Caramel	302	1%	1%
29 20	Agave	190	1%	1%
30 31	Sucrose	125	<1%	1%
32	Date Paste	40	<1%	<1%
33	Maltose	27	<1%	<1%
34	Carob	10	<1%	<1%
35	Treacle	7	<1%	<1%
30 37	Ethyl Maltol	6	<1%	<1%
38	Corn Sweetener	4	<1%	<1%
39	Nectar (other than agave)	4	<1%	<1%
40	Dextran	0	0%	0%
41	Diatase	0	0%	0%
4∠ ∕/3	Florida Crystals	0	0%	0%
44	Galactose	0	0%	0%
45	Panocha	ů 0	0%	0%
16		÷	0/0	0,0

47</sub>370

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