

# **Defining a New Narrative**

Food labels are the must-read material of the millennium, but how valid is the information on food labels and is it effective?

uring the halcyon days of bookstores and libraries, dozens of patrons would stand in the aisles between multiple rows of bookshelves with their shoulders hunched and heads bowed, studying the covers and contents of books in an effort to decide whether a book was worth purchasing or borrowing for further reading at home. But these days, bookstores and libraries are rapidly disappearing from the American landscape, leaving consumers with only a few places where it is acceptable to stand in aisles and read. Oddly, an unlikely place is emerging as a prime location for in-the-aisle reading: the supermarket. Despite the digital trend to reduce reading to as few words, characters, and details as possible, modern food labels for packaged foods are accommodating more words and information than ever. In fact, thanks to the abundance of descriptive information on food labels, supermarkets are becoming like bookstores and packaged foods, like books. Which parts of these new reading materials are required and which aren't? That is, what are the new regulatory changes/additions to food labels and what are industry trends?

Prior to the 1970s, a label on packaged foods was fairly modest; it contained the brand name, a simple description of the type of food in the package, the ingredients, and sometimes, the location of the manufacturer. Since the advent of the new millennium, the food label has become prime real estate for all sorts of descriptive monikers: organic, all-natural, free-range, gluten-free, GMO-free, vegan, doctor-recommended, and so on. And that's not all: many food labels are filled with short narratives painting an idyllic scene. For

example, the package for Eden Dried Cranberries reads, "Organically grown and infused with Eden apple juice concentrate, slowly dried and misted with organic sunflower oil to prevent clumping. Their tangy sweetness is pleasing as they deliver healthy antioxidants." Similarly, the label for Bob's Red Mill Natural Granola states, "A scrumptious and easy way to enjoy the goodness of whole grains. Our wholesome granola is perfect to eat as a hot or cold cereal, with yogurt or straight out of the bag. The crunchy clusters and delicate, lightly sweet flavor of this granola will keep you reaching for more. With just a hint of vanilla, No Fat Added Natural Granola uses whole grain oats, crunchy puffed rice and wonderful flavors to create a granola truly worthy of the name." While these descriptive narratives may make for interesting reading—and might even make a product more popular with consumers - they are clearly not part of the information that is mandated on labels.

### Food Labeling Requirements

The U.S. Food and Drug Administration (FDA) is responsible for ensuring that foods sold in the United States are safe and properly labeled. The agency therefore designates what components of a food label are mandatory; however, the FDA does not preapprove food labels. The principal display panel (PDP) of a food label (i.e., the front of the label) must contain the statement of identity, which is the name of a food, and the net quantity of the product. The net quantity should be expressed in both the imperial system of measurement (ounces, pounds, gallons) and the metric system (grams, kilograms, liters). Immediately to

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the right of the PDP is where the information panel should appear. The information panel should contain 1) the name and address of the manufacturer, packer, or distributor; 2) the list of ingredients; and 3) if applicable, any required allergen information. Under the Food Allergen Labeling and Consumer Protection Act (FALCPA), enacted in 2004, the label of any food that contains a major food allergen, or the protein thereof, must declare the presence of the allergen in the manner described by the law. According to the FALCPA, the major food allergens are milk, eggs, fish, crustacean shellfish (i.e., crab, lobster, or shrimp), tree nuts, peanuts, wheat, and soybeans. Even though more than 160 foods have been identified as allergenic, the major food allergens account for 90% of all food allergies, which is why allergen labeling requirements apply to only those eight food groups. The FALCPA's labeling requirements apply to prepackaged foods at retail or foodservice

...utrition Facts

establishments but do not apply to fresh fruits and vegetables, highly refined oils derived from one of the major food allergens, and foods that are wrapped or otherwise packaged in response to a consumer's order.

The fourth requirement on the information panel is the Nutrition Facts label. This label was not mandatory on packaged foods until after passage of the Nutrition Labeling and Education Act (NLEA) in 1990. Before this law, including nutrition information on labels was voluntary and the information would vary from product to product. Often described as the most significant food labeling legislation in five decades, the NLEA was developed to reduce consumer confusion about labels, help consumers make better food choices, and encourage food manufacturers to improve the nutrition profiles of foods. The law not only mandated a standardized format of nutrition labeling on most packaged foods but also specified the nutrients to be listed on the nutrition label, required that

nutrients be presented in the context of a daily diet and serving sizes. and set specific requirements for nutrient content claims and acceptable topics for health claims. The NLEA applies only to food products over which the FDA has authority. Labels for meat and poultry products are under the authority of the U.S. Dept. of Agriculture (USDA), and labels for alcoholic beverages are under the authority of the U.S. Alcohol and Tobacco Tax and Trade Bureau. However, the USDA's Food Safety and Inspection Service collaborated with the FDA to ensure that Nutrition Facts labeling was consistent on meats and poultry.

### Changes to the Nutrition Facts Panel

Since the implementation of the NLEA and Nutrition Facts labels, new research has emerged in nutrition and health science, including more evidence detailing the effects of nutrition on obesity and chronic disease. These new developments have prompted the FDA to propose changes to the Nutrition Facts label. "The Nutrition Facts label had not really been updated in about 20 years," says Susan Mayne, director of FDA's Center for Food Safety and Nutrition. "The only real significant change that's occurred over the last 20 years is that FDA required that trans fat [content] be added to the food label; that happened in 2006. In our country today, chronic diseases account for the primary causes of death. And food and nutrition are some of the modifiable levers we have to reduce the incidence of these chronic diseases." As a consequence, the proposed changes address factors such as nutrient recommendations, public health concerns, and the need to make nutritional information on food labels more clear and useful.

In March 2014 the FDA issued two proposed rules that would update the Nutrition Facts label. The first rule, "Food Labeling: Revision of the Nutrition and Supplement Facts Label," would

# Nutrition Facts Serving Size 2/3 cup (55g)

Serving Size 2/3 cup (55g) Servings Per Container About 8

Servings Per Co	ontainer Ab	outo	
Amount Per Servi	ing		
Calories 230	Ca	lories fron	n Fat 72
		% Dail	y Value*
Total Fat 8g			12%
Saturated Fa	t 1g		5%
Trans Fat 0g			
Cholesterol 0	mg		0%
Sodium 160mg	3		7%
Total Carboh	ydrate 37	7g	12%
Dietary Fiber	4g		16%
Sugars 1g			
Protein 3g			
Vitamin A			10%
Vitamin C			8%
Calcium			20%
Iron			45%
*Percent Daily Value Your daily value may your calorie needs.			
Total Fat	Less than	65g	80g
Sat Fat Cholesterol Sodium Total Carbohydrate	Less than Less than Less than	20g 300mg 2,400mg	25g 300mg 2,400mg
Dietary Fiber		300g 25g	375g

	size 2/3 cup (55g)		
	ories 2/3 cup		
% DV*			
12%	Total Fat 8g		
5%	Saturated Fat 1g		
	Trans Fat 0g		
0%	Cholesterol 0mg		
7%	Sodium 160mg		
12%	Total Carbs 37g		
14%	Dietary Fiber 4g		
	Sugars 1g		
	Added Sugars 0g		
	Protein 3g		
10%	Vitamin D 2mcg		
	Calcium 260 mg		
	Iron 8mg		
5%	Potassium 235mg		

The current Nutrition Facts
Panel is on the left; the
proposed version is on the
right. Photos courtesy of U.S.
Dept. of Food and Drug
Administration.

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eliminate the requirement to specify the calories from fat. This is because current science indicates that the type of fat is more relevant than overall total fat and because the disclosure of fat-calorie information did not help consumers determine whether a product was healthy or not. Second, this proposed rule would require manufacturers to designate the amount of added sugars in the Nutrition Facts label. "Added sugars could include ... cane sugar, beet sugar, brown sugar, dextrose, glucose and lactose; syrups, such as high fructose corn syrup, crystalline fructose, and maple syrup; naturally occurring sugars that are isolated from a whole food and concentrated so that sugar is the primary component, such as fruit juice concentrates; and other caloric sweeteners, including honey, molasses, and table sugar," says nutrition chemist Roger Legg, co-founder of RL Food Testing Laboratory, Westlake Village, Calif. Many health and nutrition experts advise consuming fewer calories from added sugar because not doing so often results in the decreased consumption of nutrient-rich foods. "In terms of added sugars, the science has been growing for a long time both in terms of direct effects on health ... and in terms of the role of excess calories," Mayne explains. "It becomes pretty clear that excess intake of added sugars means you're either going to be consuming too many calories or not taking in the nutrient-dense foods that you need to meet the dietary guidelines' requirements." Information on added sugars may also help consumers better implement the recommendations in the U.S. Dietary Guidelines for Americans.

changing the list of vitamins and minerals of public health significance. The current/original Nutrition Facts label requires the percent daily values of vitamin A, vitamin C, calcium, and iron. After reviewing data from the National Health and Nutrition Examination Survey and other biomarkers, the FDA determined that consumer intakes of vitamins A and C were no longer inadequate but consumer intakes of vitamin D and potassium are. The rule therefore proposes requiring the declaration of the percent daily value for vitamin D, potassium, calcium, and iron on the Nutrition Facts label, "Iron is a nutrient of public health significance, [especially] in younger women. Conversely, in older populations—specifically males-iron is not a nutrient of public health significance," Mayne says. "Vitamin D is an interesting one because if you look specifically at intake data, it looks like our population is very, very low in terms of the intake of vitamin D. When you look at blood data, however, you get somewhat of a different story." The declaration of daily value percentages of vitamins A and C would be voluntary, not required. In addition, the reference values used to determine the percent daily values would be changed to reflect updated information on quantitative intakes of nutrients and their association with chronic diseases and other health parameters. This will include lowering the current reference value of sodium from 2,400 mg to 2,300 mg.

vutrition Facts

The first proposed rule would also increase the prominence of calorie information, enlarging the font size of the word "calories" and its accompanying numeric value. The font size of the words "servings"

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The first rule proposes

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per container" and its accompanying numeric value would also be increased. Other proposed changes to the appearance of the Nutrition Facts label are moving the percent daily value (% DV) to the left side of the label and removing the required footnote table listing the reference values for certain nutrients for 2,000-calorie and

vutrition Facts



This package of Nature Valley Crunchy Granola Bars illustrates the natural-label 2,500-calorie diets.

The second proposed rule, "Serving Sizes of Foods That Can Reasonably Be Consumed at One-Eating Occasion; Dual-Column Labeling; Updating, Modifying, and Establishing Certain Reference Amounts Customarily Consumed; Serving Size for Breath Mints; and Technical Amendments," addresses, among other things, serving size requirements and criteria for labeling according to package size. Because container sizes can influence the amount of food people consume, people are likely to eat an entire container in one sitting. The FDA thus proposes that any container that may be consumed in a single-eating occasion be labeled a single-serving container—even if the container holds a product that has up to 199% of the reference amount customarily consumed. Any container for a product that may be consumed in one or more

sittings would have a dual-column Nutrition Facts label featuring a column that lists the quantitative amounts and percent daily values for the entire container as well as a column listing those amounts and percentages per serving. The FDA also proposes changing some of the values of the reference amounts customarily consumed. In addition, the rule recommends technical amendments that clarify serving-size regulations.

In July 2015 the FDA issued a proposed rule revising some aspects of the rule "Food Labeling: Revision of the Nutrition and Supplement Facts Label." The FDA is proposing, among other things, to include the percent daily value for added sugars on the Nutrition Facts label of packaged foods. The agency reasons that this will provide consumers with the type of information they already see on the labels for nutrients such as sodium and certain fats. The percent daily value of added sugars would be based on the recommendation that a daily intake of calories from added sugars should not exceed 10% of total calories. The effective date for these proposed rules would be 60 days after publishing of the final rules in the Federal Register, and all food labels would need to be in compliance two years after the effective date.

The FDA says the benefits of both rules would far outweigh the costs, but some industry players disagree, particularly with respect to added sugars. In comments submitted to the FDA, the Grocery Manufacturers Association (GMA) expresses that most of its members do not believe a mandatory declaration of added sugars will help customers maintain healthful dietary practices. The organization is concerned that the declaration could lead to consumer confusion—especially since scientific research indicates that controlling obesity requires balancing calories consumed and calories expended: "Consumers need calorie

information, not added sugar information," GMA states in its comments. Legg provides context for the GMA's position: "From a formulation perspective, there is no difference between sugars and added sugars, and there is no laboratory test that can differentiate between a naturally occurring sugar and an added sugar." And in response to the FDA's assessment that the proposed rules would result in a one-time cost of \$2.3 billion to industry for label redesign, product reformulation, and initial recordkeeping, GMA believes the agency's cost assessment is understated.

### Labeling Requirements for Menus and Vending Machines

Supermarket food aisles are not the only retail food establishments with extra reading material, and the NLEA is not the only law governing food labeling. The Patient Protection and Affordable Care Act was signed into law in March 2010, and section 4205 of the act specifies requirements for nutrition labeling on restaurant menus. The purpose of the law's requirements is to provide accurate and consistent nutrition information that enables consumers to make healthful dietary choices. The requirements apply to restaurants or retail food establishments serving restauranttype food (for example, bakeries, cafeterias, coffee shops, convenience stores, and so on, but not schools) with 20 or more locations doing business under the same name and vending machine operators that manage 20 or more vending machines. Restaurants and vending machine operations that fall within this category must disclose calorie and other nutrition information for standard menu items. Foodservice operations that are not subject to this requirement (i.e., those with less than 20 locations or less than 20 vending machines) may elect to become subject to the law's requirements by voluntarily registering with the FDA every other year. »»



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In December 2014 the FDA issued a final rule for implementation of menu labeling. The final rule indicates that the food and beverages subject to nutrition labeling requirements are standard menu items, not daily specials, temporary menu items, or custom orders and that the calories of such foods must be declared on menus and menu boards. Among other things, the rule also specifies that menus and menu boards must display a succinct statement of the suggested daily caloric intake and that nutrition information must be available in written form for consumers who request it. The written nutrition information must encompass values for calories, calories from fat, total fat, saturated fat, trans fat, cholesterol, sodium, total carbohydrate, dietary fiber, sugars, and protein, and there should be

a reasonable basis (e.g., nutrient databases and laboratory analyses) for the determination of nutrient values. The final rule also explains specific nutrition labeling requirements for self-service food and beverages. The effective date of the menu-labeling rule is December 1, 2015, and food establishments must be in compliance with the rule by December 1, 2016.

The FDA also issued in December 2014 a final rule for implementation of calorie labeling of food in vending machines. Among other things, the final rule defines a vending machine operator as a person or entity that controls or directs the function of a vending machine and indicates that the calorie declaration of foods within a vending machine must be clear and prominently placed. The goal of these requirements as well as those



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Many food manufacturers are removing artificial ingredients from their products. © Fuse/Thinkstock

consumer decisions. "We're interested in labeling foods in a way that consumers can have the information

to make appropriate health choices," says Mayne. Hopefully other interested parties can say the same. FT

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Nutrition

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