

# Benefits of Cereal











Cheerios

## TABLE OF CONTENTS

Cereal and breakfast	1
About breakfast	1
Kids and breakfast	1
Breakfast and weight loss	1
Whole grain	2
Cereal and nutrition	4
Cereal promotes milk and nutrient consumption	4
Cheerios and heart health	5
Simplifying nutrition information	5
Cereal, weight and health	6
Cereal eaters have healthier body weights	6
Cereal and calories	7
Calories per serving	7
Cereal and sugar	8
Sources of total sugar	9
Sweetened cereals and weight	9
Lowering sugar	10
References	12

# Cereal & breakfast

## Cereal is one of the healthiest breakfast choices you can make. Ready-to-eat cereal has fewer calories than almost any other common breakfast option.

Cereal is also nutrient-dense. Ready-to-eat cereals pack in vitamins, minerals and key essential nutrients – without packing on calories.

Cereal eaters consume less fat, less cholesterol and more fiber than noncereal eaters.<sup>1</sup>

Today's cereals are more nutritious than ever. Many leading cereals are made with whole grain, calcium and vitamin D, while reducing sugar and limiting calories.

And cereal is affordable, convenient and tastes good.

### Eating breakfast is associated with higher nutrient intakes and weight loss maintenance.<sup>1-5</sup>

### About breakfast

- Breakfast eaters tend to have better nutrient intakes.<sup>1-4</sup>
- On average, breakfast contributes less than 20 percent of daily calories, while delivering more than 30 percent of needed calcium, iron and B vitamins.<sup>6</sup>
- People who eat breakfast tend to consume less fat, less cholesterol and more fiber over the course of their day.<sup>3,7,8</sup>
- Nutrients missed at breakfast, namely calcium, fiber, and certain

vitamins and minerals, are rarely made up for during the day.<sup>7-9</sup>

 Kids who eat breakfast tend to perform better in school and have fewer disciplinary problems. Breakfast also tends to help kids stay alert.<sup>10-12</sup>

### Kids and breakfast

Compared to children who skip breakfast, a study showed that children who ate breakfast:<sup>10</sup>

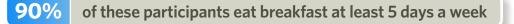






### **Breakfast and weight loss**

Dieters who successfully maintained weight loss of 30 pounds or more confirm that **eating breakfast maximizes the likelihood of maintaining weight loss**, according to National Weight Control Registry data.<sup>5</sup>



### 80% eat cereal and fruit for breakfast

## Whole grain

Ninety-five percent of Americans still aren't eating enough whole grain.<sup>13</sup> But General Mills is working to change that.

In 2005, we converted our entire line of Big G cereals to include at least 8 grams of whole grain per serving (at least 48 grams recommended daily). This was the single biggest health-driven product improvement in our history.

Today all Big G cereals have at least 9 grams of whole grain per serving, and more than 20 have at least 16 grams.

Beginning in 2012, all Big G cereals will contain more whole grain than any other single ingredient – a continuation of our efforts to help consumers get whole grain in their diets.

General Mills delivers 38 million whole grain servings per day – a 50 percent increase in whole grain servings since 2004.

Big G cereals are America's No. 1 source of whole grain at breakfast.

All Big G cereals now have more whole grain than any other single ingredient – which means whole grain is the first ingredient listed.

Big G cereals show how many grams of whole grain are in each serving of cereal on the side panel of every box.

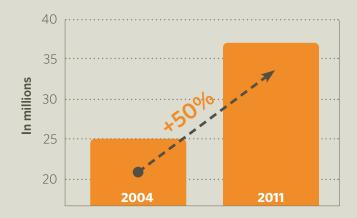




\*As compared to any single ingredient.

Every General Mills Big G cereal contains at least 9 grams of whole grain per serving, and more than 20 General Mills cereals deliver 16 grams or more (at least 48 grams recommended daily).

## Big G cereals are delivering millions of servings of whole grain every day.



Whole grain servings delivered by Big G cereals per day 16 grams of whole grain = 1 serving of whole grain



## Extensive research has been done on the health benefits of whole grain. The science shows that eating whole grains as part of a healthy diet may help with:

#### Heart health

Studies show whole grains may reduce the risk of coronary heart disease.<sup>14</sup>

#### Weight

management People who choose more whole grains have healthier body weights and gain less weight over time.<sup>15-17</sup>

#### **Certain cancers** Studies suggest that whole grains may be especially effective in reducing the risk of cancers of the stomach and colon.<sup>18-21</sup>

#### Diabetes management Whole grains may help manage healthy blood glucose and insulin levels.<sup>22-30</sup>

#### More than half of whole grains are eaten at breakfast.<sup>31</sup>

Why are whole grains so good? They contain **vitamins**, **minerals** and hundreds of other **phytonutrients**.<sup>32</sup> They also contain fiber. Each individual nutrient offers important benefits, but together they perform in even more powerful ways than they do individually.<sup>32-33</sup> For these reasons and more, the 2010 Dietary Guidelines for Americans advise that people:

- Eat at least half of all grains as whole grains.<sup>13</sup>
- Choose products that name a whole grain ingredient first on the label.<sup>13</sup>

One recent study found that people who ate several servings of whole grain each day, instead of refined grains, had less "belly fat" – the type of fat linked to higher risk for certain chronic diseases.<sup>34</sup>

In a 12-year study of more than 70,000 nurses, those who ate more whole grain weighed less than those who ate less whole grain.<sup>15</sup>

#### BRAN

The coarse outer layer of the grain that protects the seed. It contains fiber, B vitamins, phytonutrients and trace minerals.

#### GERM

The small, nutrient rich core of the grain kernel. It contains antioxidants, vitamin E, B vitamins and healthy fats.

#### **ENDOSPERM**

The middle layer that contains carbohydrates and proteins. This is the source of energy for the growing plant.



Ready-to-eat cereal is the leading whole grain source for Americans, including children.<sup>35-37</sup>

## Cereal & nutrition

Many fortified cereals provide more iron, folic acid, zinc, B vitamins and fiber than conventional noncereal breakfast choices. Many fortified cereals also add vitamin A, thiamin, niacin, calcium, phosphorous, magnesium and/or potassium. When combined with fortified milk, the levels of healthful micronutrients and macronutrients in cereals provide for a nutrient-dense breakfast.

### Cereal provides key nutrients for children<sup>6</sup>

Percent of selected nutrients provided by ready-to-eat cereal, children aged 4-12





cereal is an especially important source of nutrients

for children who do not have enough food to eat.

For these children, ready-

to-eat cereal helps provide

iron, B vitamins and milk.40

### **Cereal promotes milk and nutrient consumption**

Eating cereal also has the added benefit of promoting milk consumption in children. Forty-one percent of the milk consumed by 6- to 12-yearolds is consumed with cereal.<sup>7</sup> The figure is even higher for African-American and Hispanic children.<sup>6</sup>

About half of the milk in African-American and Hispanic kids' diets is consumed with cereal.<sup>6</sup>

Milk contains nutrients like calcium and vitamin D that are critical for developing strong, healthy bones. Research estimates that only one in 10 American kids gets enough vitamin D, and about six out of 10 kids don't get the recommended amounts of calcium.<sup>6, 38</sup>

New studies also show that vitamin D may reduce the risk of a number of chronic diseases, including cardiovascular disease and diabetes.<sup>39</sup>

Vitamin D occurs naturally in many foods such as salmon, beef liver and eggs. But it can be difficult to get enough of these foods, especially for kids.

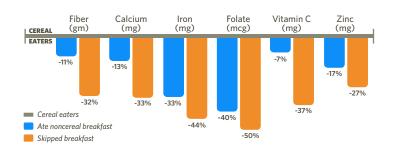
That's where fortified foods can help. General Mills fortifies its entire line of kid cereals with calcium and vitamin D.

For children aged 4 to 12, ready-to-eat cereal with milk delivers 11 percent of their calcium and 24 percent of their vitamin D intakes each day<sup>6</sup>.

In addition, new research shows that ready-to-eat

### Nutrient gap

People whose breakfast includes ready-to-eat cereal take in more nutrients daily than noncereal breakfast eaters or people who skip breakfast.<sup>6</sup> This graph shows how many fewer nutrients noncereal breakfast eaters and breakfast skippers get compared to people who eat cereal.





## Cheerios & heart health

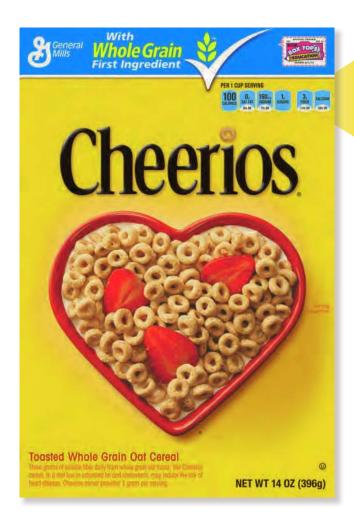
High blood cholesterol is a major risk factor for coronary heart disease. Cheerios can help.

Cheerios is the only leading ready-to-eat cereal clinically proven to help lower "bad" cholesterol (LDL) when eaten as part of a diet low in saturated fat and cholesterol. In 1997, the U.S. Food and Drug Administration (FDA) approved a health claim linking the soluble fiber from oats – like that found in Cheerios – to a reduced risk of coronary heart disease.<sup>41</sup>

In 1998, a peer-reviewed clinical study showed that eating three cups of Cheerios daily as part of a diet low in saturated fat and cholesterol can help reduce bad cholesterol levels.<sup>42</sup>

Whole grain oats are a major ingredient in Cheerios. Cheerios has 1 gram of soluble fiber from oats per serving. And eating 3 grams of soluble fiber daily from whole grain oat foods – like Cheerios – along with a diet that's low in saturated fat and cholesterol, may reduce the risk of heart disease.

# Simplifying nutrition information



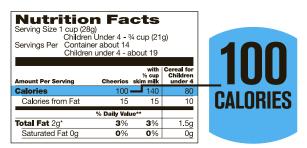


### **Nutrition Keys**

The **Nutrition Keys** icons, also known as "Facts Up Front," on each Big G cereal box help consumers quickly view the per serving information about calories, sugar, sodium and saturated fat – as well as key nutrients from the Nutrition Facts panel.

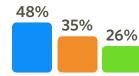
### **Nutrition Facts**

The **Nutrition Facts** panel provides a detailed nutrition breakdown of the cereal inside. It provides another way to see and compare how a particular food might fit into one's diet.





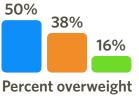
### Cereal eaters have healthier body weights<sup>3,44</sup>



#### Percent overweight AGES 4-6

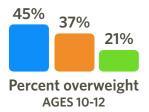
Data published in the Journal of the American Dietetic Association found that:<sup>43</sup>

 Frequent cereal eaters tend to have healthier body weights overall – including kids.



AGES 7-9

 Kids who eat four to seven servings of cereal over a 14-day period are less likely to be overweight than kids who eat fewer than four servings of cereal.



Kids who eat cereal more frequently, or more than seven times in 14 days, are even less likely to be overweight than kids who eat cereal less frequently. This is true for all age groups studied.

### **Cereal servings**

Fewer than 4 servings in 14 days
4 to 7 servings in 14 days
More than 7 servings in 14 days

## Cereal, weight & health

## People who eat cereal regularly tend to have healthier body weights, lower cholesterol and higher nutrient intakes

Studies show that cereal consumption is correlated with health benefits for men, women, kids and people of various ethnicities.

- Children and adolescents who eat a ready-to-eat breakfast have a lower Body Mass Index (BMI) and waist circumference than those who don't eat cereal at breakfast or who skip breakfast.<sup>1,3,43,45,46</sup>
- People who eat cereal may benefit from positive health benefits related to satiety,

body weight and the risk for chronic disease.<sup>1, 3, 7, 45, 47-50</sup>

- People who eat cereal have lower levels of both total blood cholesterol and "bad" cholesterol (LDL) than people who eat cereal less often or not at all.<sup>47</sup>
- Cereal eaten with low-fat fortified milk at breakfast promotes increased intake of calcium, which is associated with healthier body weights.<sup>51</sup>
- Eating cereal regularly may protect against

cardiovascular disease risk.<sup>32, 45, 52</sup>

- Adolescents who eat a healthy breakfast also tend to exercise daily. There's an association between people who eat cereal for breakfast and people who get higher levels of physical activity.<sup>45</sup>
- Girls who eat cereal are less likely to become overweight as young adults than noncereal eaters.<sup>3</sup>
- Frequent cereal eaters tend to have healthier body weights.<sup>43,44</sup>

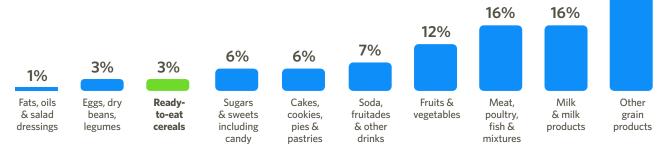
A serving of cereal with milk costs about 50 cents on average.



30%

### **Cereal and calories**

Source of calories, on average, in diets of children aged 4 to 12°



### General Mills has more than 30 nutritious cereals with 130 calories or less per serving.

**Calories per serving** (standard serving sizes for example products)<sup>33</sup>



Ready-to-eat cereals account for about 3 percent of total caloric intake, while delivering much higher proportions of a number of important nutrients.<sup>6</sup>

# Cereal & sugar

# Ready-to-eat cereals account for a relatively small amount of a child's daily sugar intake. On average, cereals – including sweetened cereals – provide only 4 percent of children's daily sugar intake.<sup>6</sup>

Some cereals are sweetened and some are not. Let's look at a couple of cereals side-by-side.

#### Cheerios

Cheerios has 100 calories, and 1 gram of sugar per serving. It's low in fat, and naturally cholesterol free. Its No. 1 ingredient is whole grain oats. It delivers 14 vitamins and minerals, including calcium and vitamin D.



Nutrition Facts					
Children Under 4 - ¾ cup (21g)					
Servings Per Container about 14 Children under 4 - about 19					
Officient		ibout 15			
Amount Per Serving	Cheerios	with ½ cup skim milk	Cereal for Children under 4		
Calories	100	140	80		
Calories from Fat	15	15	10		
	% Daily Valu	le**			
Total Fat 2g*	3%	3%	1.5g		
Saturated Fat 0g	0%	0%	0g		
Trans Fat 0g	•/0	•/0	0g		
Polyunsaturated Fat 0	50		0g 0q		
Monounsaturated Fat			0g		
Cholesterol Omg	0.0g 0%	1%	0mg		
Sodium 160mg	7%	9%	120mg		
Potassium 170mg	5%	11%	130mg		
Total Carbohydrate 2		9%	15g		
Dietary Fiber 3g	11%	11%	2g		
Soluble Fiber 1g	1170	11/0	0g		
Sugars 1g			1g		
Other Carbohydrate 1	20		12g		
Protein 3g	Jy		2g		
Proteinisg			29		
			% Daily Value**		
Protein	-	-	9%		
Vitamin A	10%	15%	10%		
Vitamin C	10%	10%	10%		
Calcium	10%	25%	8%		
Iron	45%	45%	50%		
Vitamin D	10%	25%	6%		
Thiamin	25%	30%	35%		
Riboflavin	25%	35%	35%		
Niacin	25%	25%	35%		
Vitamin B6	25%	25%	45%		
Folic Acid	50%	50%	60%		
Vitamin B12	25%	35%	30%		
Phosphorus	10%	25%	8%		
Magnesium	10%	10%	10%		
Zinc	25%	30%	30%		

Both cereals are lower in calories than most other breakfast options. Both are low in fat.

Both deliver key vitamins and minerals. Both have at least 9 grams of whole grain per serving. Both products are good breakfast choices from a calorie and nutrition standpoint.

### Trix

Trix is sweetened. It has 120 calories, and 10 grams of sugar per serving. It's low in fat, and naturally cholesterol free. Its No. 1 ingredient is whole grain corn. It delivers 14 vitamins and minerals, including calcium and vitamin D.

Fa	icts				
32g) Dor Ah	out 9				
	Jour 9				
	with ½ cup				
Trix	skim milk				
120	160				
15	15				
% Daily Value**					
2%	2%				
0%	0%				
Trans Fat 0g					
Polyunsaturated Fat 0.5g					
	1%				
	10%				
1%	7%				
Total Carbohydrate 27g 9% 11%					
	11%				
5%	5%				
Sugars 10g					
Other Carbohydrate 16g Protein 1g					
10%	15%				
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	329) her Ab 120 15 <b>% Dail</b> 2% 0% at 0.5 6 <b>%</b> 7% 1% <b>9%</b> 5% <b>9%</b> 5% <b>9%</b> 5% <b>10%</b> 10% 10% 10% 10% 25% 25% 25% 25% 6%				



Eating cereal, including sweetened cereal, is also associated with improved nutrient intake for children.  $^{\rm 54,\,55}$ 

And regardless of sweetness level, children who eat cereal have healthier body weights than those who don't eat cereal.  $^{\rm 54,55}$ 

### Sources of total sugar<sup>®</sup>

National Health and Nutrition Examination Survey Children aged 4 to 12

Carbonated beverages and fruit drinks **24%** 

Milk & milk products 22%

Fruits and vegetables 19%

Miscellaneous 1%

Meat, poultry & fish 2%

Ready-to-eat cereals 4%

Other grains 7%

Desserts 9%

Candy & sweets 12%

### Sweetened cereals and weight

Recent studies of children show that **regardless of sweetness level, cereal eaters have healthier body weights than those who don't eat cereal.** And they also have significantly higher intakes of fiber, whole grain, folate, calcium, iron, zinc and several other nutrients.<sup>54, 55</sup>

### Children who eat ready-to-eat cereal - regardless of sweetness level have a lower Body Mass Index<sup>\*\*</sup>

Children aged 6 to 18



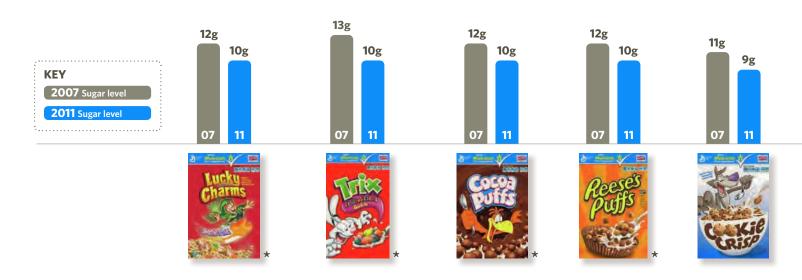
\* Cereal with more than 33 grams of sugar per 100 grams \*\* Cereal with 33 grams or less of sugar per 100 grams

### Lowering sugar

We listen to our consumers, and we've been working for years to lower sugar levels in our cereals advertised to children under age 12<sup>\*</sup>.

- Since 2007, we've lowered sugar levels in our Big G kid cereals by more than 14 percent, on average.
- In 2009, we strengthened our commitment by pledging to reduce all of our cereals advertised to children under 12 to single-digit grams of sugar per serving.
- Today, all of our Big G kid cereals are at 10 grams of sugar or less per serving. And we've reduced sugar in many of our other cereals as well.

### Progress on reducing sugar



### Cereals at single-digit sugar levels

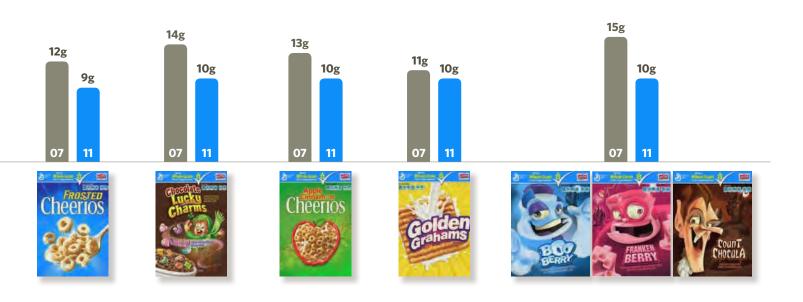


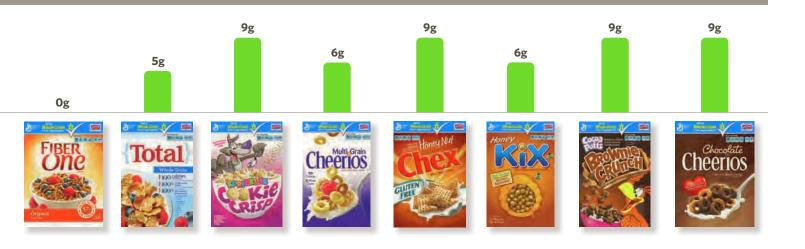
### Additional cereals at single-digit grams include:

Wheat Chex (5g), Fiber One Honey Clusters (6g), Dora the Explorer (6g), Chocolate Chex (8g), Cinnamon Chex (8g), Cinnamon Crunch Total (9g), Yogurt Burst Cheerios – Strawberry (9g).

General Mills strives to be the health leader in every food category in which we compete – and we're committed to continuing to lead the cereal category. Our research teams are working hard to trim sugar in our cereals while maintaining great taste.

All Big G cereals advertised to kids under age 12 now have 10 grams of sugar or less per serving.





\* Cereals advertised to children: Cinnamon Toast Crunch, Cocoa Puffs, Frosted Toast Crunch, Honey Nut Cheerios, Lucky Charms, Reese's Puffs, Trix.

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