

# In the News

## Whole Grains

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January 25, 2012

# Overview

- In the News
- Definition of whole grain
- Health benefits
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## Whole Grain Fiber, Colorectal Cancer Risk Linked

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By John Gever, Senior Editor, MedPage Today

Published: November 10, 2011

Reviewed by [Dori F. Zaleznik, MD](#); Associate Clinical Professor of  
Medicine, Harvard Medical School, Boston and  
Dorothy Caputo, MA, RN, BC-ADM, CDE, Nurse Planner



FEEDBACK

Individuals eating three daily servings of whole grains had a significantly, though modestly, lower risk of colorectal cancer, according to pooled data from nearly 800,000 individuals -- perhaps the largest and strongest analysis ever conducted.

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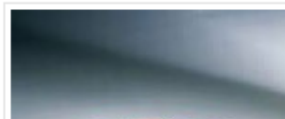
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## Antioxidants Abound in Cereals, Popcorn, Whole-Grain Snacks


August 19, 2009

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TUESDAY, Aug. 18 (HealthDay News) — Eating a bowl of your favorite cereal every day is a great source of natural [antioxidants](#), new research shows.

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2 cups = 2 servings of Vegetables!

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## Sifting through the facts about whole grains

What does 'cracked wheat' mean? Is your cereal really the best source of whole grains? Nutritionist Joy Bauer breaks down the food labels

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Last year the USDA recommended we eat six servings of grains a day, three of whic...

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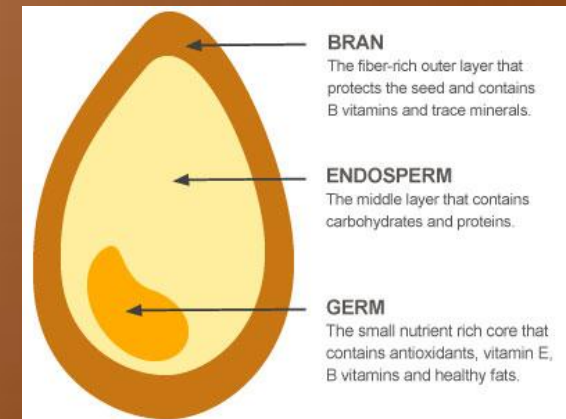
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# What is a whole grain?



- Whole grains are the entire seed of the grain plant
- This seed (or kernel) is made up of 3 parts:
  - **Bran:** Tough outer layer that contains fiber, antioxidants, and B vitamins
  - **Germ:** Core of the kernel that contains B vitamins, protein, healthy fat (oils), antioxidants, and fiber
  - **Endosperm:** Starchy middle layer that provides mostly carbohydrate and some protein



# Refined Grains



- Refined grains and products usually have the **bran** and **germ** removed
  - This means refined grains usually contain only the endosperm
- Refined grains are commonly finer in texture than whole grains
- Removing the germ and bran also removes most of the fiber, B vitamins, minerals, antioxidants, and healthy fats
- Sources of refined grains: white pasta, white bread, white rice, snack cakes, many crackers

# Enriched Grains

- Most refined grains are enriched
  - B vitamins (folic acid, niacin, riboflavin, and thiamin) and iron are added back
  - Fiber and phytochemicals are not added to enriched, refined grain products



**INGREDIENTS:** ENRICHED BLEACHED WHEAT FLOUR (NIACIN, REDUCED IRON, THIAMINE MONONITRATE, RIBOFLAVIN, FOLIC ACID), MALTED BARLEY FLOUR.

**CONTAINS: WHEAT**

# Health Benefits: Cardiovascular Disease

- Eating whole instead of refined grain products substantially lowers total and LDL (bad) cholesterol, triglycerides, blood pressure and insulin levels
- Observational studies (cause/effect cannot be established)
  - Nurse's Health Study
    - Women who ate 2-3 whole grain servings daily were 30% less likely to have a heart attack or die from heart disease over a 10-year period than women who ate less than 1 serving per week
  - Meta-analysis of seven major studies
    - CVD 21% less likely in those who ate 2.5 servings of whole grain foods daily than those who ate less than 2 servings per week

# Reasons for Cardiovascular Benefits

- Not fully understood
- Possible mechanisms:
  - Soluble fiber in whole grains can help lower cholesterol
  - Fiber may also help activate the body's natural anticoagulants and help prevent small blood clots that can lead to stroke and heart attack
  - Antioxidants can help prevent oxidation of LDL (which leads to plaque buildup in arteries)

# Health Benefits: Type 2 Diabetes

- Whole grains play a role in reducing the risk of Type 2 diabetes and maintenance of blood glucose levels
  - Study of more than 160,000 women followed for up to 18 years found those who averaged 2-3 servings of whole grains per day were 30% less likely to develop Type 2 diabetes than those who rarely ate whole grains
  - Swapping white rice for whole grains can lower your diabetes risk:
    - Those who ate the most white rice (5 or more servings per week) had a 17% higher risk of developing diabetes than those who ate white rice less than one time per month
    - Those who ate the most brown rice (2 or more servings per week) had 11% lower risk of diabetes than those who rarely ate brown rice

# Reasons for Diabetes Benefits

- Whole grain components are believed to contribute to lower Type 2 diabetes risk and blood glucose control
  - Fiber
  - Magnesium
  - Selenium
  - Copper
  - Manganese

# Health Benefits: Cancer

- Studies on cancer risk and whole grain consumption have been mixed (some show a benefit, some do not)
  - The NIH-AARP Diet and Health Study looked at 500,000 men and women over a 5-year period
    - Higher whole grain consumption lowered the risk of developing colorectal cancer

# Reasons for Cancer Benefits

- Variety of proposed mechanism:
  - Fiber and resistant starch ferment in the colon, increasing beneficial bacteria and decreasing transit time
  - Antioxidants help protect against oxidative damage
  - Phytoestrogens may help protect against some cancers (hormone-dependent)

# Health Benefits: Weight Management

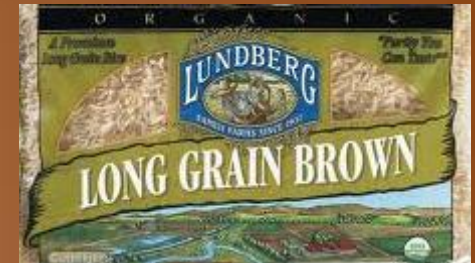
- Research suggests that eating whole grains can contribute to achieving and maintaining a healthy weight
  - A 12-year study in the *American Journal of Clinical Nutrition* found that women who consumed more whole grains consistently weighed less than women who consumed fewer whole grains
  - In men, whole grain and bran intake were independently linked to less weight gain

# Reasons for Weight Benefits

- Fiber in whole grains promotes:
  - Increased satiety with lower calorie intake
  - Prolonged gastric emptying
    - Feel full longer
    - Reduce glucose response and insulin demand

# Common Sources of Whole Grains

- Whole wheat flour
- Brown rice
- Wild Rice
- Quinoa
- Oats
- Corn (and popcorn)
- Barley
- Rye
- Amaranth



# How to Identify Whole Grain Products

- Read food labels and check **ingredient lists**
- One of the first ingredients should be “whole” grain (wheat, rye, barley, etc) or oats
- The following terms are NOT necessarily whole grain
  - Wheat flour
  - Cracked wheat
  - Multigrain
  - Stone-ground wheat

# Does this product provide a good source of whole grains?

## Oroweat Winter Wheat Bread



# NO

Nutrition Facts	
Amount Per Serving	% Daily Value*
<b>Total Fat</b> 2g	3%
Saturated Fat 0g	0%
Trans Fat 0g	
<b>Polyunsaturated Fat</b> 1.5g	
Monounsaturated Fat 0g	
<b>Cholesterol</b> 0mg	0%
<b>Sodium</b> 115mg	5%
<b>Total Carbohydrate</b> 15g	5%
Dietary Fiber 2g	8%
Sugars 3g	
<b>Protein</b> 3g	

\*Percent Daily Values are based on a diet of other people's secrets. Your daily values may be higher or lower depending on your calorie needs. Calories: 2,000 2,500

Total Fat Less than 65g 80g  
Sat Fat Less than 20g 25g  
Cholesterol Less than 300mg 300mg  
Sodium Less than 2,400mg 2,400mg  
Total Carbohydrate 300g 375g  
Dietary Fiber 25g 30g

Calories per gram: Fat 9 • Carbohydrate 4 • Protein 4

**INGREDIENTS:** CRACKED WHEAT, WATER, BROWN SUGAR, WHEAT GLUTEN, SUNFLOWER SEEDS, YEAST, SOYBEAN OIL, WALNUTS, RYE, SALT, YELLOW CORN GRITS, CULTURED DEXTROSE AND MALTODEXTRIN, MALT EXTRACT (BARLEY AND CORN), MONOGLYCERIDES, SOY LECITHIN, BROWN RICE, DATES, DATEM, TRITICALE, BARLEY, FLAXSEED, MILLET, CITRIC ACID, CALCIUM SULFATE.

MADE IN A FACILITY THAT USES WHEAT, SOY, MILK, EGGS, HAZELNUTS (FILBERTS), ALMONDS AND WALNUTS.

BIMBO BAKERIES USA, INC., HORSHAM, PA 19044 www.oroweat.com © All rights reserved.

Ingredients: Cracked wheat, water, brown sugar, wheat gluten...

## Oroweat Nutty Grain



# YES

Nutrition Facts	
Amount Per Serving	% Daily Value*
<b>Total Fat</b> 65g	130%
Sat Fat 20g	40%
Cholesterol 300mg	600%
Sodium 2,400mg	4800%
<b>Total Carbohydrate</b> 300g	600%
Dietary Fiber 25g	50%
<b>Protein</b> 4g	8%

\*Percent Daily Values are based on a diet of other people's secrets. Your daily values may be higher or lower depending on your calorie needs. Calories: 2,000 2,500

Total Fat Less than 65g 80g  
Sat Fat Less than 20g 25g  
Cholesterol Less than 300mg 300mg  
Sodium Less than 2,400mg 2,400mg  
Total Carbohydrate 300g 375g  
Dietary Fiber 25g 30g

Calories per gram: Fat 9 • Carbohydrate 4 • Protein 4

**INGREDIENTS:** WHOLE WHEAT FLOUR, UNBLEACHED ENRICHED WHEAT FLOUR (WITH NIACIN, THIAMIN, RIBOFLAVIN (VITAMIN B2), FOLIC ACID), WATER, WHEAT GLUTEN, INULIN (CHICORY ROOT FIBER), WHEAT FIBER, YEAST, SUGAR, CELLULOSE FIBER, POLYDEXTROSE, MOLASSES, TOASTED SESAME SEEDS, SALT, WHEAT PROTEIN ISOLATE, CRACKED WHEAT, SUNFLOWER SEEDS, CULTURED DEXTROSE AND MALTODEXTRIN, RAISIN JUICE CONCENTRATE, WHEAT FLAKES, FLAXSEED, WHOLE WHEAT, DATEM, OAT FLAKES, BARLEY FLAKES, TRITICALE, MONOGLYCERIDES, CORN GRITS, RYE, AMARANTH, WHEAT GERM, CORNMEAL, CITRIC ACID, CALCIUM SULFATE, GRAIN VINEGAR, STEVIA EXTRACT (A NATURAL SWEETENER), ETHOXYLATED MONO- AND DIGLYCERIDES, SOY LECITHIN, CALCIUM CARBONATE, MONOCALCIUM PHOSPHATE NUTS (WALNUTS AND/OR HAZELNUTS (FILBERTS) AND/OR ALMONDS), RICE PROTEIN WHEY, SOY FLOUR, NONFAT MILK.

R10-32

Ingredients: Whole wheat flour, unbleached enriched wheat flour...

# Does this product provide a good source of whole grains?

Wheat Thins Original



YES

**INGREDIENTS:** WHOLE GRAIN WHEAT FLOUR, SOYBEAN OIL, SUGAR, CORNSTARCH, MALT SYRUP (FROM CORN AND BARLEY), SALT, INVERT SUGAR, LEAVENING (CALCIUM PHOSPHATE AND/OR BAKING SODA), VEGETABLE COLOR (ANNATTO EXTRACT, TURMERIC OLEORESIN).

BHT ADDED TO PACKAGING MATERIAL TO PRESERVE FRESHNESS

**CONTAINS: WHEAT.**

Wheatables Toasted Honey Wheat



NO

**INGREDIENTS:** ENRICHED FLOUR (WHEAT FLOUR, NIACIN, REDUCED IRON, THIAMIN MONONITRATE [VITAMIN B<sub>1</sub>], RIBOFLAVIN [VITAMIN B<sub>2</sub>], FOLIC ACID), PARTIALLY HYDROGENATED SOYBEAN AND/OR COTTONSEED OIL† WITH TBHQ FOR FRESHNESS, STONE GROUND WHOLE WHEAT FLOUR, SUGAR, HONEY, HIGH FRUCTOSE CORN SYRUP, TOASTED WHOLE GRAIN WHEAT, SALT, CONTAINS TWO PERCENT OR LESS OF MALT EXTRACT, NATURAL FLAVOR, LEAVENING (BAKING SODA, SODIUM ACID PYROPHOSPHATE, MONOCALCIUM PHOSPHATE), CARAMEL COLOR, SOY LECITHIN.  
† LESS THAN 0.5g *TRANS* FAT PER SERVING.

**CONTAINS WHEAT AND SOY INGREDIENTS.**

# Recommended Whole Grain Intake

- According to the 2010 Dietary Guidelines for Americans, **at least ½ of your total grain intake should be whole grains**
  - For most adults, this is at least 3-oz equivalents of whole grains daily (at least 48 grams of whole grain)
- Less than 5% of Americans consume the recommended minimum amount of whole grains
- On average, Americans eat less than 1-oz equivalent of whole grains each day

# What counts as 1-oz equivalent of whole grains?

- 1 1-ounce slice of 100% whole grain bread
- ½ cup cooked brown rice, quinoa, or other whole grain
- ½ cup cooked 100% whole grain hot cereal, like oatmeal
- ½ cup cooked 100% whole grain pasta
- 1 6" 100% whole grain (or whole corn) tortilla
- 1 ounce ready to eat 100% whole grain cereal
- 1 5" 100% whole grain pancake

\*One serving of whole grains = 16 grams of whole grain ingredients

# What about partly whole grain products?

- Some foods contain whole grains, but are not 100% whole grain
  - Crackers, some breads, some cereals, etc
- If a product contains 8 grams of whole grains per serving, it is considered a substantial amount of whole grains
- Look for products that have the first or second ingredient as a whole grain
- But there is not an easy way to determine the grams of whole grain per serving...

# Whole Grain Stamp

- Quick and easy way to identify whole grain products
- Identifies foods that have at least 8 grams of whole grains per serving
- One full serving of whole grains is 16 grams
  - If the stamp says 100% whole grain, it contains 16 grams per serving



# Using the Whole Grain Stamp

- Eat three servings of foods with the 100% whole grain stamp each day
  - 1 slice Oroweat 100% Whole Wheat
  - 2 Kashi 7 Grain Waffles
  - 1 cup Cheerios
- Eat six servings of foods with ANY whole grains stamp
  - 1 slice Oroweat Health full Nutty Grain
  - 1 Cascadian Farm Chewy Chocolate Chip Granola Bar
  - $\frac{3}{4}$  cup Barbara's Hole n' Oats Cereal

# Recommendations for Customers

- We carry a large variety of whole grain products at Harmons
- Help customers with questions about whole grains
  - Help identify whole grains (brown rice, quinoa, etc)
  - Help locate partly whole grain foods (bread, crackers, etc)
  - Help educate about Whole Grain Stamps and what they mean
- For more specific questions about individual whole grain needs, please direct to Jessica or Jonnell
  - [jessicalaroche@harmonsgrocery.com](mailto:jessicalaroche@harmonsgrocery.com)
  - [jonnellmasson@harmonsgrocery.com](mailto:jonnellmasson@harmonsgrocery.com)



**Thank you!**

**Questions??**

Jessica LaRoche

801-928-2634