Carbohydrates: Dietary Guidelines for Americans

Carbohydrates

- 1. Sugars
- 2. Starch (complex)
- 3. Fiber (complex)

Total Carb = Sugars + Starch + Fiber

	Classi DDH CATO Fac	SPOOT SIZE®
		+ Cereal with
Amount Per Serving	Cereal Fal	1/2 cu Free Mil
Calories	170	210
Calories from Fat	10	10
THE REAL PROPERTY AND ADDRESS OF THE REAL PROPERTY ADDRESS	1102	
and the second second	% Daily	value*
Total Fat 1g*	% Daily 2%	
Total Fat 1g* Saturated Fat 0g		2%
	2%	2%
Saturated Fat Og	2% 0%	2%
Saturated Fat Og Trans Fat Og	2% 0% 0.5g	2% 0%
Saturated Fat Og Trans Fat Og Polyunsaturated Fat	2% 0% 0.5g	2% 0%
Saturated Fat Og Trans Fat Og Polyunsaturated Fat Monounsaturated Fa	2% 0% 0.5g at 0g	2%
Saturated Fat 0g Trans Fat 0g Polyunsaturated Fat Monounsaturated Fa Cholesterol 0mg	2% 0% 0.5g at 0g 0%	2% 0% 0%
Saturated Fat Og Trans Fat Og Polyunsaturated Fat Monounsaturated Fa Cholesterol Omg Sodium Omg	2% 0% 0.5g at 0g 0% 0% 5%	2% 0% 0% 3% 11%
Saturated Fat Og Trans Fat Og Polyunsaturated Fat Monounsaturated Fa Cholesterol Omg Sodium Omg Potassium 190mg	2% 0% 0.5g at 0g 0% 0% 5%	2% 0% 0% 3% 11% 15%
Saturated Fat Og Trans Fat Og Polyunsaturated Fat Monounsaturated Fat Cholesterol Omg Sodium Omg Potassium 190mg Total Carbohydrate 4	2% 0% 0.5g at 0g 0% 0% 5% 0g 13%	2% 0% 0% 3% 11% 15%
Saturated Fat 0g Trans Fat 0g Polyunsaturated Fat Monounsaturated Fat Cholesterol 0mg Sodium 0mg Potassium 190mg Total Carbohydrate 4 Dietary Fiber 6g	2% 0% 0.5g at 0g 0% 0% 5% 0g 13%	2% 0% 0% 3%
Saturated Fat 0g Trans Fat 0g Polyunsaturated Fat Monounsaturated Fat Cholesterol 0mg Sodium 0mg Potassium 190mg Total Carbohydrate 4 Dietary Fiber 6g Soluble Fiber 1g	2% 0% 0.5g at 0g 0% 0% 5% 0g 13%	2% 0% 0% 3% 11% 15%

Total Carbohydrate 40g	13%	15%
Dietary Fiber 6g	24%	24%
Soluble Fiber 1g		
Insoluble Fiber 5g		
Sugars Og		
Other Carbohydrate 34	g	- 14



Institute of Medicine Recommended % Calories- Adults

<u>Carbohydrates</u> <u>Protein</u> <u>Fat</u>

45-65% 10-35% 20-35%

Diets <45% Carbs or >35% Protein difficult to stick to, not healthy, no advantage weight loss/maintenance

QUESTION

- How many calories are in **300** grams of carbohydrate?
- 2. What is this number as % of total daily calories*
- *Use reference diet: 2000 calories/day

ANSWER:

300 X **4** calories/gram = **1200** calories

1200/2000 = 0.6 X 100 = **60%**

Carbs as % of total calories

- Varies depending upon your energy needs (activity)
- Flexible: acceptable range:

45-65% of total calories

Dietary Guidelines Recommendations

Fiber

25-28 grams/day

Fiber: Good Sources

- Whole grain foods
- Fruits
- Vegetables
- Peas
- Beans

Fruit Juices (OJ)Not much fiber

 Some OK = beneficial nutrients/minerals

 Best: eat whole fruit (fresh, frozen, canned, dried)

Another way to look at carbs:

Natural Carbohydrate



Added Sugars

Natural: Fruits **Vegetables** Whole Grains Milk Products (low fat) **Advantages:** Energy + Nutrients (vitamins, minerals) calories

Added Sugars: "added" by food manufacturer, cooks, or you

Examples: soft drinks, candy, cakes, cookies, pies, fruit drinks, ice cream, sweetened yogurt, sweetened milk, cinnamon toast, honey nut waffles





Fruit Yogurt

Plain Yogurt - contains no added sugars

INGREDIENTS: CULTURED PASTEURIZED GRADE A NONFAT MILK, WHEY PROTEIN CONCENTRATE, PECTIN, CARRAGEENAN.

Fruit Yogurt - contains added sugars

INCREDIENTS: CULTURED GRADE A REDUCED FAT MILK, APPLES, HIGH FRUCTOSE CORN SYRUP, CINNAMON, NUTMEG, NATURAL FLAVORS, AND PECTIN. CONTAINS ACTIVE YOGURT AND L. ACIDOPHILUS CULTURES.

Added sugars: 3 strikes 1. Cavities: sugary food (mouth) tooth enamel ← acid ← bacteria decay

- Calories: but few nutrients (children cheated of nutrients)
- 3. Weight gain: † added sugars

weight

Liquid Calories Americans: 22% of total calories = Beverages

Many have **"added"** sugars Read ingredients Many people don't "count" liquid calories Framingham Osteoporosis Study: Women drinking 3 cans or more of cola/week: lower hip bone density



Problem with **food labels Sugars = Natural + Added** (not separated)

Quick Guide to %DV:

% Daily Valu	
Total Fat 12g	18%
Saturated Fat 3g	15%
Trans Fat 3g	
Cholesterol 30mg	10%
Sodium 470mg	20%
Total Carbohydrate 31g	10%
Dietary Fiber 0g	0%
Sugars 5g	
Protein 5g	
Vitamin A	4%
Vitamin C	2%
Calcium	20%
Iron	4%

How to find **"added"** sugar: **READ INGREDIENTS**

Food Label Key Words:

[other words for "added" sugar] brown sugar, corn sweetener, corn syrup, dextrose, fructose, fruit juice concentrates, glucose, high-fructose corn syrup, honey, invert sugar, lactose, maltose, malt syrup, molasses, raw sugar, sucrose, sugar, syrup



Whole grain wheat

INGREDIENTS: WHOLE GRAIN WHEAT. TO PRESERVE THE NATURAL WHEAT FLAVOR, BHT IS ADDED TO THE PACKAGING MATERIAL.

KRAFT FOODS GLOBAL, INC. NORTHFIELD, IL 60093-2753 USA

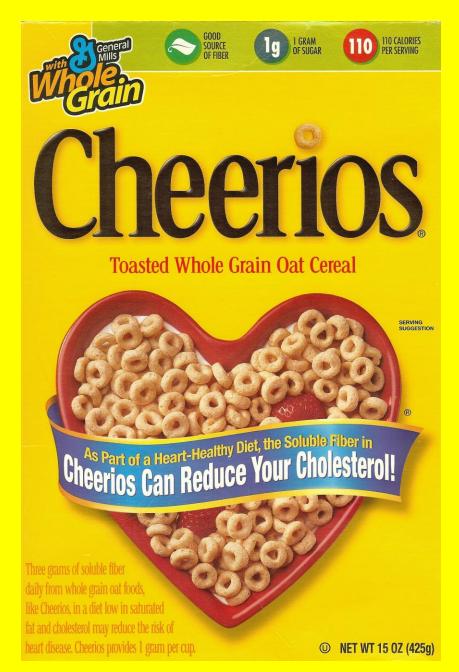




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EXCHANGE: 2-1/2 Starch. Dietary Exchanges based on *Exchange Lists for Meal Planning* © 2003 by the American Diabetes Association and the American Dietetic Association.



Corn starch Sugar

INGREDIENTS: WHOLE GRAIN SATS, MODIFIED CORN STARCH, CORN STARCH, SUGAR, SALT, CALCIUM CARBONATE, OAT FIBER, TRIPOTASSIUM PHOSPHATE, WHEAT STARCH. VITAMIN E (MIXED TOCOPHEROLS) ADDED TO PRESERVE FRESHNESS.

VITAMINS AND MINERALS: IRON AND ZINC (MINERAL NUTRIENTS), VITAMIN C (SODIUM ASCORBATE), A B VITAMIN (NIACINAMIDE), VITAMIN B6 (PYRIDOXINE HYDROCHLORIDE), VITAMIN B2 (RIBOFLAVIN), VITAMIN B1 (THIAMIN MONONITRATE), VITAMIN A (PALMITATE), A B VITAMIN (FOLIC ACID), VITAMIN B12, VITAMIN D.

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Exchange: 11/2 Starch

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fat and cholesterol may reduce the risk of this disease.

High fructose corn syrup Sugar

INGREDIENTS: MILLEY CORN, SUGAR, MALT FLAVOR-ING, HIGH FRUCTOSE CORN SYRUP, SALT, VITAMINS AND IRON: IRON, NIACINAMIDE, SODIUM AS-CORBATE AND ASCORBIC ACID (VITAMIN C), PYRIDOX-INE HYDROCHLORIDE (VITAMIN B₆), RIBOFLAVIN (VITA-MIN B₂), THIAMIN HYDROCHLORIDE (VITAMIN B₁), VITAMIN A PALMITATE, FOLIC ACID, VITAMIN B₁₂ AND VITAMIN D. TO MAINTAIN QUALITY, BHT HAS BEEN ADDED TO THE PACKAGING.

CORN USED IN THIS PRODUCT CONTAINS TRACES OF SOYBEANS.



Dietary Guidelines Recommendations **Get most of your CARBS from:** Whole Fruits Veggies Whole Grains Low-fat milk products **Limit: added sugars**