Nutrition Labeling – FSIS Regulated Foods

The following is a comprehensive presentation on the essential requirements for nutrition labeling on meat, poultry, and egg products.

If at the end of the presentation, the reader has questions, he/she may contact the Labeling and Consumer Protection Staff

or

FSIS.labeling@fsis.usda.gov

Nutrition Labeling -FSIS Regulated Foods



Nutrition Facts

Requirements **W**

Definitions

Serving sizes W

Formats 7

Exemptions

Based upon the Nutrition Labeling and Education Act

June 15, 2006

Nutrition Labeling and Education Act

- Requires what nutrients are listed on label, and how they are to be listed
- Defines nutrients
- Establishes reference amounts for determining serving sizes
- Adopts standardized format
- Requires nutrition labeling on most foods that contain more than insignificant amounts of nutrients
- FSIS is not covered by NLEA

Nutrients Listed on Label

Calories

Calories from fat/calories from

saturated fat

Total fat

Saturated fat, stearic acid, polyunsaturated fat,

monounsaturated fat, trans fat

Cholesterol

Sodium

Potassium

Total carbohydrate

Dietary fiber (soluble and insoluble

fiber)

Sugars (sugar alcohols)

Other Carbohydrates

Protein

Vitamins and minerals (for which RDI's

have been established)

Definitions

- Total fat: Total lipid fatty acids expressed as triglycerides [317.309(c)(2), 381.409(c)(2)]
- Saturated fat: The sum of all fatty acids containing no double bonds [317.309(c)(2)(i)]
- Polyunsaturated fat: cis, cis-methyleneinterrupted polyunsaturated fatty acids [317.309(c)(2)(ii)]
- Monounsaturated fat: cis-monounsaturated fatty acids [317.309(c)(2)(iii)]

Definitions (contd.)

- Total carbohydrate: Amount calculated by subtraction of the sum of crude protein, total fat, moisture, and ash from the total weight of food [317.309(c)(6)]
- Sugars: The sum of all free mono- and disaccharides [317.309(c)(6)(ii)]
- Other carbohydrate: The difference between total carbohydrate and the sum of dietary fiber, sugars, and, when declared, sugar alcohol [317.309(c)(6)(iv)]

Daily Values (DV)

- Two sets of label reference values
 - reference daily intakes (RDIs)
 - daily reference values (DRVs)
- Applicable to persons 4 or more years of age

Reference Daily Intakes (RDIs)

Vitamin A

Vitamin C

Calcium

Iron

Vitamin D

Vitamin E

Vitamin K

Thiamin

Riboflavin

Niacin

Vitamin B₆

Folate

Vitamin B₁₂

Biotin

Pantothenic acid

Phosphorus

Iodine

Magnesium

Zinc

Selenium

Copper

Manganese

Chromium

Molybdenum

Chloride

Daily Reference Values (DRVs)

Total fat Saturated fat Cholesterol Total carbohydrate **Dietary fiber** Sodium **Potassium Protein**

65 grams*

20 grams*

300 milligrams

300 grams*

25 grams*

2400 milligrams

3500 milligrams

50 grams*

^{*}Based on a 2000 calorie daily diet

Reference Amount Customarily Consumed (RACC)

- Established for 27 red meat categories
- 27 red meat (317.312) 26 poultry (381.412)
- Basis for labeled serving size
- Basis for nutrient "claims"
- Derived from food consumption data
- Developed jointly with FDA
- Petition process to modify RACC

What's Needed?

- Serving size
 - household and metric measure
- Servings per container
- Mandatory nutrients
- Established format

Nutrition Facts

Serving Size 1 cup (228g) Servings Per Container 2

<u>Dietary Fiber</u> Calories per gram:

Amount Per Serv	ing		
Calories 260	Ca	alories from	Fat 120
		% Dail	y Value*
Total Fat 13g			20%
Saturated Fa	ıt 5g		25%
Trans Fat 2g			
Cholesterol:	30mg		10%
Sodium 660m	9		28%
Total Carboh	ydrate :	31g	10%
Dietary Fiber	r 0g		0%
Sugars 5g			
Protein 5g			
Vitamin A 4%	•	Vitam	in C 2%
Calcium 15%	•	Iron 4	%
*Percent Daily Values Your Daily Values your calorie needs:			
	Calories:	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Leas than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g

Carbohydrate 4

Serving Size

- As packaged
- In household measures
 - cups, tablespoons, teaspoons: fl oz for beverages
 - pieces, slices, fractions, etc.
 - ounces (appropriate visual unit is optional)
- Based on Reference Amount

- Required: household and metric measure
 - 1 cup (___g)
 - 1 slice (___g)
 - 1 dinner (___g)
 - 2 oz (___g)
- Options: ounce or fluid ounce
 - 1 cup (___g/_fl oz)
 - 1 slice (___g/_oz)

Examples of Acceptable Serving Size Designations

Chili: 1 cup (___g)

Meat pizza: 1/5 pie (___g)

Sliced ham: 4 slices (___g)

Gravy: 1/4 cup (___g)

- Bulk products (e.g., soup, gravy):
 - household measure closest to reference amount
- Discrete large unit (e.g., pizza, quiche):
 - fraction closest to reference amount

- Discrete individual units (e.g., sausage, sliced luncheon meat):
 - * >50% but <200% of RACC= 1 unit
 - <50% RACC = number of units closest to reference amount</p>
 - \star >50 but <67% = 1 or 2

- If contents are <200% RACC</p>
 - declare as one serving
- If RACC is >100 grams and contents are >150 but <200%
 - may be declared as 1 or 2

- Consumer friendly fractions
 - 1/2 1/3 1/4 1/5 1/6 and fractions
 obtained dividing these by 2 or 3
 - (not a consumer friendly fraction)
 - \star 1/2 ÷ 2 = 1/4 1/4 ÷ 3 = 1/12

Label Serving Size Example

- Soup
 - RACC = 245 g Label serving size is in cups
 - measure 245 g (14.5 fl oz)
 - the nearest 1/4 or 1/3 cup = 14 fl oz = 1-3/4 cup
 - serving size: 1-3/4 cup (236 g/14 oz)

Label Serving Size Example

- Jerky
 - ♣ RACC = 30 g
 - if 2 g pieces: number of pieces closest to 30g
 - 15 pieces (30 g)
 - if large piece: size of chunk closest to 30 g
 - 1 piece (25 g)
 - If pieces vary by 100% (10g to 20g)
 - 1 oz (28 g)

Label Serving Size Example

Pizza

- ♣ RACC = 140 g
- weight = 24 oz (1-1/2 lb)
 - $*1.5 \times 454 = 681 \text{ g}$
 - *681/140 = 4.86 pieces (or slices)
 - 4.86 = 5 which is a consumer friendly fraction
 - *681/5 = 136.2 g = 136g
 - serving size: 1/5 pizza (136 g)

Compliance Criteria

- Class I (Nutrients added in fortification or fabrication of food) (NONE for FSIS)
 - Class I vitamin, protein, dietary fiber, or potassium
 100% of declared value
- Class II (naturally occurring nutrients)
 - Class II vitamin, mineral, protein, total carbohydrate, dietary fiber, other carbohydrate, polyunsaturated or monounsaturated fat, or potassium = at least 80% of declared value
 - Calories, total fat, saturated fat, cholesterol, sodium, and sugars = no more than 120% of declared value

Choosing a Format

- Amount of "space available for labeling"
- Amount of continuous vertical space
- Dual declaration "As Packaged" & "As Prepared"
- Dual declaration Combination with another food
- Aggregate declaration Variety of foods
- Bilingual declaration English & another language
- Food represented as food for children

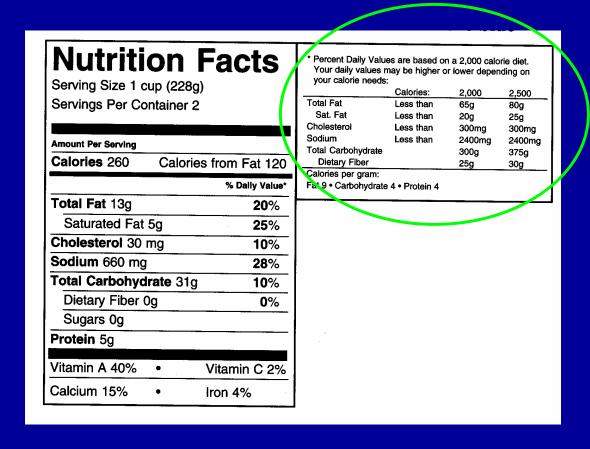
Full Vertical Format

- Package has more than 40 square inches of space available for labeling
- At least 3 continuous vertical inches

Nutri Serving Size 1 Servings Per Co	cup (228g))	cts
Amount Per Serv	Ing		
Calories 260		lories from	Fat 120
			ly Value*
Total Fat 13g			20%
Saturated Fa	ıt 5g		25%
Trans Fat 2g			
Cholesterol			10%
Sodium 660m			28%
Total Carboh	-	110	10%
Dietary Fiber		rig .	0%
	ug		0 70
Sugars 5g			
Protein 5g			
Vitamin A 4%	•	Vitam	in C 2%
Calcium 15%	•	Iron 4	%
* Percent Daily Values Your Daily Values your calorie needs:	may be highe		
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium Total Control of the	Less than	2,400mg	2,400mg
Total Carbohydrate Dietary Fiber		300g 25g	375g 30g
Calories per gram:		200	SUG
Fat 9	Carbohydrai	te 4 *	Protein 4

Side-by-Side

Full vertical format with footnote on the side (information following vitamin and mineral listing)



Full Tabular

- Insufficient vertical space (less the 3 inches)
- Foot note is required

Nutrition	Amount/serving	% Daily Value*	Amount/serving % Daily Value*	* Percent Daily Values are bi diet. Your daily values in	
Facts	Total Fat 1.5g	2%	Total Carbohydrate 26g 9%	depending on your calorie Calories:	needs:
	Saturated Fat 0.5g	3%	Dietary Fiber 2g 8%	Total Fat Less than	85g 80g
Serving Size 2 slices (56g) Servings per container 10	Trans Fat 0.5g		Sugars 1g	Sat Fat Less than Cholesterol Less than	20g 25g 300mg 300mg
Calories 140	Cholesterol 0mg	0%	Protein 4g	Sodium Less than Total Carbohydrate	2,400mg 2,400mg 300g 376g
Calories from Fat 15	Sodium 280mg	12%		Dietary Fiber	25g 30g
		amin C 0% • oflavin 8% •	Calcium 6% • Iron 6% Niacin 10%		

Tabular

(Small and Intermediate-Sized Packages)

- 40 sq. in. or less available for labeling
- * "Nutrition Facts" on any label panel

Nutrition	Amount/serving	%DV*	Amount/serving	%DV*
Facts	Total Fat 2g	3%	Total Carb. 0g	0%
Serving Size 1/3 cup (56g)	Sat. Fat 1g	5%	Fiber 0g	0%
Servings about 3	Trans Fat 0.5g		Sugars 0g	
Calories 90	Cholest. 10mg	3%	Protein 17g	
Fat Cal. 20	Sodium 200mg	8%		
*Percent Daily Values (DV) are based on a 2,000 calorie diet	Vitamin A 0% • Vita	amin C 0	% • Calcium 0% • In	on 6%

May omit footnotes if another asterisk is placed at the bottom of panel with statement "Percent Daily Values are based on a 2,000 calorie diet"

Shortened Vertical

Instead of showing "zeros", allows nutrients present at insignificant levels to be listed as "Not a significant source of

_")

Listed in the order as they would in the regular format
"Insignificant is defined in 9 CFR 317.309(f)(1)

Nutrition Facts

Serving Size 1 cup (245g) Servings Per Container 16

Calories from Fat 10
% Daily Value*
2%
)g 0 %
33%
ate 31g 11%
g 16 %

Protein 2g

Vitamin A 20% • Vitamin C 4% • Iron 2%

Not a significant source of cholesterol, sugars and calcium.

* Percent Daily Values are based on a 2,000 calorie diet. 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	2400mg	2400mg
Total Carbohydrat	ө	300g	375g
Dietary Fiber		25g	30g
Calories per gram			
Fat 9 • Carbohydra	ate 4 • Protein 4		

Simplified Vertical (FSIS)

- 5 core nutrients must always be listed
- When nutrients are added or voluntarily declared,
- Must list "zero" level nutrients, by adding statement "Not a significant source of _____", (Names of nutrients present at insignificant levels)

Nutrition Facts

Serving Size 1 Tbsp (14g) Servings per Container 64

Amount per Serving		
Calories 130	Calories fro	m Fat 130
		% Dally Value*
Total Fat 14g		22%
Saturated Fa	t 2g	10%
Polyunsatura	ated Fat 4g	
Monounsatur	rated Fat 8g	
Sodium 0mg		0%
Total Carbohy	drate 0g	0%
Protein 0g		

Not a significant source of cholesterol, dietary fiber, sugars, vitamn A, vitamin C, calcium, and iron.

* Perceni Daily Values are based on a 2,000 calorie diet.

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USDA-FSIS

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Simplified Vertical (FDA)

- * At least 7 of the designated nutrients are insignificant (calories, total fat, saturated fat, cholesterol, sodium, total carbohydrates, dietary fiber, sugars, protein, vitamin A, vitamin C, calcium, iron)
- Five core nutrients must always appear

Nutrition Fa	acts
Amount per Serving Calories 140	
	% Daily Value*
Total Fat 0g	0%
Sodium 20mg	1%
Total Carbohydrate 36g	12%
Sugars 36g	
Protein 0g	
* Percent Daily Values are based on a 2,00	00 calorie diet.

Simplified Tabular (FDA)

May be used on any size package that qualifies for simplified format, when there is insufficient space for vertical simplified format.

Nutrition	Amount /serving % Daily	/ Value*
Ecoto	Total Fat 0g	0%
Facts	Sodium 190mg	8%
Serving Size 1 oz.	Total Carbohydrate 5g	2%
Serving Size 1 oz. (28g/about 12 slices) Servings Per Container 16 Calories 20	Sugars 5g	
Calories 20	Protein 0g	
* Percent Daily Values are based on a 2,000 calorie diet		

Simplified format 5 core nutrients listed;
 at least 7 insignificant nutrients; voluntarily
 added or listed nutrients

Note - Trans fat content required

Single-serving

- Omit "servings per container" and metric declaration of serving size
- Must be description of container



Prepared Foods

- Vertical format with second column indicating "as consumed"
- Preparation according to package directions
- Quantitative amounts needed only for packaged food
- Omit second column if nutrient values are June 15, 200the same

ion Facts

(44g, about 1/4 cup dry mix)

Servings Per Container 12		
Amount Per Serving	Mix	Baked
Calories	190	280
Calories from Fat	45	140
	% Dally	Value**
Total Fat 5g*	8%	24%
Saturated Fat 2g	10%	13%
Trans Fat 1g		
Cholesterol Omg	0%	23%
Sodium 300mg	13%	13%
Total Carbohydrate 34g	11%	11%
Dietary Fiber 0g	0%	0%
Sugars 18g		
Protein 2g		
Vitamin A	0%	0%
Vitamin C	0%	0%
Calcium	6%	8%
Iron	2%	4%
 Amount in Mix Percent Dally Values are based on Your Daily Values may be higher or your calorie needs: Calories: 		

	Calories:	2,000	2,500
Total Fet	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		259	30g

Combined Foods

- Vertical format with second column indicating nutrients added by combination of foods
- Quantitative amounts needed only for packaged food

Nutrition Facts

Serving Size 1 cup (35g) Servings Per Container 10

Amount Per Serving	Cereal	Cereal with 1/2 cup Skim Milk
Calories	130	170
Calories from Fat	0	0
	% Daily \	/alue**
Total Fat 0g*	0%	0%
Saturated Fat 0g	0%	0%
Cholesterol 0mg	0%	0%
Sodium 200mg	8%	11%
Total		
Carbohydrate 30g	10%	12%
Dietary Fiber 4g	16%	16%
Sugars 18g		
Protein 3g	Z	
Vitamin A	25%	25%
Vitamin C	25%	25%
Calcium	0%	15%
Iron	10%	10%
 Amount in Cereal. One half of additional 40 calories, 65 n 	•	

- carbohydrate (6g sugars), and 4g protein.
- Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on vour 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

Variety Pack

- Vertical format
 with additional
 columns indicating
 nutrients in the
 other foods
- Package contains two or more packaged foods
- Foods are eaten individually
- * Packages used

 June 1 interchangeably

Nutrition	Fact	ts	Wheat Squar Sweetened	res	Corn Flake Not Sweet		Mixed Grai Sweetened	
Serving Size 1 Box Servings Per Conta				(35g) 1		(19g) 1		(27g) 1
Amount Per Serving								
Calories				120		70		100
Calories from Fat				0		0		0
Galdridg Helli Lat			% Daily 1	Value*	% Dalb	Value*	% Dall	y Value*
Total Fat			Og	0%	Og Com	0%	0g	0%
Saturated Fat			0g	0%	0g	0%	0g	0%
Trans Fat			0g		Ogʻ		0g	
Cholesterol			0mg	0%	Omg	0%	0mg	0%
Sodium			0mg	0%	200mg	8%	120mg	5%
Potassium			125mg	4%	25mg	1%	30mg	1%
Total Carbohydi	rate		29g	10%	17g	6%	24g	8%
Dietary Fiber			3g	12%	1g	4%	1g	4%
Sugars			8g		6g	7.0	13g	470
Protein			4g		1g		1g	
FICCUIT			Tg		'g		'g	
* Percent Daily Values are			Vitamin A	0%		10%		10%
calorie diet. Your daily va or lower depending on yo	our calorie	needs:	Vitamin C	0%		15%		90%
	2,000	2,500	Calcium	0%		0%		0%
Total Fat Less than Sat Fat Less than	65g 20a	80g 25a	Iron	10%		6%		20%
Cholesterol Less than	300mg	300mg	Thiamin	30%		15%		20%
	2,400mg 3,500mg	2,400mg 3,500mg	Riboflavin	30%		15%		20%
Total Carbohydrate	300g	375g	Niacin	30%		15%		20%
Dietary Fiber	259	30g	Vitamin Be	30%		15%		20%

Linear

- Tabular display does not fit on small & intermediate sized packages (must prove)
- Package shape cannot accommodate the nutrition information placed in columns

Nutrition Facts Serv. Size: 1 package, Amount Per Serving:
Calories 45, Fat Cal. 10, Total Fat 1g (2% DV), Sat. Fat 0.5g (3% DV), Trans Fat 0.5g,
Cholest. 0mg (0% DV), Sodium 50mg (2% DV), Total Carb. 8g (3% DV), Fiber 1g
(4% DV), Sugars 4g, Protein 1g, Vitamin A (8% DV), Vitamin C (8% DV), Calcium
(0% DV), Iron (2% DV). Percent Daily Values (DV) are based on a 2,000 calorie diet.

Bilingual

- Separate nutrition facts panel may be used, or combined
- Second language following the English text
- Numeric characters identical in both languages need not be repeated
- All required nutrition information must be included
 June 15,20% oth languages

Nutrition Facts/Datos Nutricional Serving Size/Tamano por Racion 1 cup/1 taza (228g) Servings Per Container/Raciones por Envase 2 Amount Per Serving/Cantidad por Racion Calories/Calorias 260 Calories from Fat/Calorias de Grasa 120 % Daily Value*/% Valor Diario* Total Fat/Grasa Total 130 25% Saturated Fat/Grasa Saturada 5g Cholesterol/Colesterol 30mg 10% Sodium/Sodio 660ma 28% Total Carbohydrate/Carbohidrato Total 31g 11% Dietary Fiber/Fibra Dietetica 0g Sugars/Azucares 5g Protein/Proteinas 5a Vitamin/Vitamina C 2% Vitamin∕Vitamina A 4% Calcium/Calcio 15% Iron/Hierro 4% * Percent Daily Values are based on a 2,000 Los valores de los porcentaies Diarios estan calorie diet. Your daily values may be higher or basado en una dieta de 2,000 calorias. Sus lower depending on your calorie needs: valores diarios pueden ser mayor o menor dependiendo de sus necesidades caloricas: Calories/Calorias: 2.000 2.500 Less than/Menos de Total Fat/Grasa Total Less than/Menos de 25g Sat Fat/Grasa Saturada Cholesterol/Colesterol Less than/Menos de 300mg Less than/Menos de 2.400ma 2.400ma Sodium/Sodio Total Carbohydrate/Carbohidrato Total 300g 375g Dietary Fiber/Fibra dietetica

Food for Children

(Less than 2 years old)

- Certain nutrients cannot be listed
- No %DV listed for several nutrients
- Two column format nutrient names & amounts by weight
- * % Daily Value required for protein, vitamins, and minerals

Serving Size 1 ja		Facts
Amount Per Serv		spirotenia de la
Calories 110	ang .	
Total Fat		00
Sodium		10mg
Total Carbohy	drate	270
Dietary Fiber		4
Sugars		18
Protein		0
% Daily Value		o figlio de la
Protein 0%	•	Vitamin A 6%
Vitamin C 45%		Calcium 2%

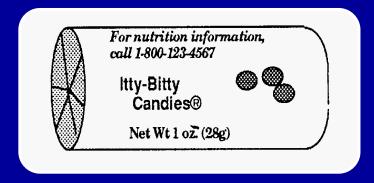
Food for Children (2 years to 4 years old)

- Same as "Children under
- 2 years
- Calories from fat allowed
- Saturated fat allowed
- Cholesterol allowed



"Very Small"

- Less than 12 sq. in. available for labeling
- No nutrient content claims or other nutritional information on label
- Telephone number or address must be stated
- Type size no smaller than
 6pt (uppercase) or not less
 than 1/16 inch



Exemptions and Special Labeling

- Small businesses based on number of employees
- Low volume food products
- Products for further processing
- Products not for sale to consumers
- Products in small packages, less than ½ ounce
- Products custom slaughter
- Products for export

Exemptions and Special Labeling

- Following products prepared and served or sold at retail
- RTE products packaged or portioned at retail
- Multi-ingredient products processed at retail

Exemptions and Special Labeling – Small Business

- Firm with 500 or fewer employees
- Individual product produced at 100,000 pounds or less annually
- All forms of a product are counted toward the 100,000 pounds, e.g., pork sausage, bulk, patties, links, consumer product, HRI product, hot/mild if the same nutrient profile

Exemptions and Special Labeling - Low volume food products

- Applies only to Nutrition Facts panel
- No nutritional claims permitted
- Firms not required to file or file annually for exemption

Differences Between FSIS and FDA

- FSIS is not under NLEA
- Small business exemption & no approval/notification for the exemption
- No required "visual" for serving size declared in ounces
- Use of simplified format with one nutrient, other than core, declared as "0"
- FSIS Permits voluntary declaration of "stearic acid" indented under sat fat
- FSIS has no Class 1 nutrients since we do not permit fortification.