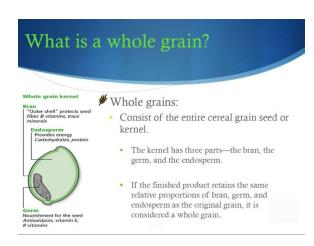


Agenda Whole Grains 101 • New Grain Requirements for School Lunch · Serving Size Criteria · Daily and Weekly Requirements • Whole Grain-Rich Requirements

Whole Grains 101



Common Whole Grains

Wheat:

- Wheat berries
- Whole-grain wheat
- Cracked wheat
- Whole-wheat flour
- Graham flour Whole durum flour
- Sprouted wheat
- Bulgur
- White whole wheat flour



- Whole rye
- Rve berries Whole-rye flour
- Whole-rye flakes

Rice:

- Brown rice flour

Wild Rice flour







Common Whole Grains, continued

Oats:

- Whole oats
- Oat groats
- Oatmeal or rolled oats
- Whole-oat flour

Corn:

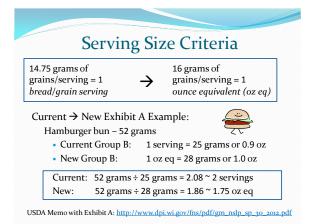
- Whole corn
- Whole-corn flour
- Whole-grain corn flour Whole-grain cornmeal
- Whole cornmeal

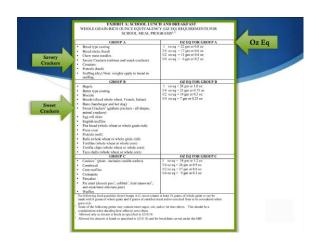


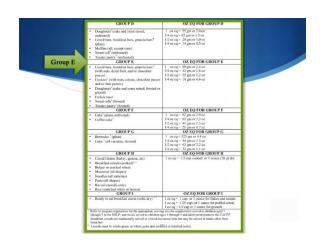
- Whole barley
- Whole-grain barley Whole-barley flakes
- Whole-barley flour
- Whole-grain barley flour

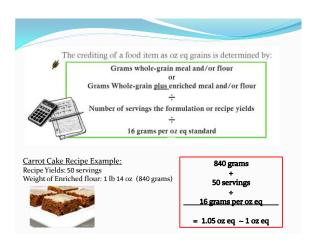












Daily and Weekly Requirements

Per Grade Group:

- Schools must offer minimum grain ounce equivalents per day
- Total grains offered per week must fall within the minimum and maximum range

Lunch Meal Pattern - Grains

	Grades K-5	Grades 6-8	Grades 9-12
Minimum (oz eq) /day	1	1	2
Weekly range (oz eq)	8-9	8-10	10-12

• All grains offered must be counted toward meeting these minimum and maximum requirements using the ounce equivalent or "bread" or "bread alternate" serving criteria in the interim

Minimum Daily Requirements

- If the minimum daily requirement for grains is 1 oz eq, this minimum can be met by offering multiple food items
 - For example: You could serve crackers, that provide 0.5 oz eq, with chicken noodle soup that also provides 0.5 oz eq to meet the minimum daily requirement



Can the student take the soup without the crackers?



Maximum Weekly Requirements

If there are multiple serving lines in one cafeteria the minimum and maximum requirements must be met by each serving line

•Example: Sub sandwich line, Pizza line, Hot lunch line would all have to meet the requirements

Grain Based Desserts

- Only 2.0 ounce equivalencies of grain-based desserts are allowed at lunch per school week for all grades
- · These items are a major source of solid fats and added sugars per DGA 2010

Battered or Breaded Products Timeline





Grain Requirement Timeline Lunch

Starting July 1, 2012	Starting July 1, 2013
14.75 grams/ serving Or 16 grams/oz eq	ı6grams/oz eq
Minimum/Maxim	num weekly ranges must be met



Grade	Meal	Daily Grains Minimum/day (oz eq)	Weekly Grains Range (oz eq)
K-5 th	Lunch	1	8-9

4-	tario	. 2- 1	ces.	dare	

Day	Option 1	Option 2	Maximum Grains Offered (oz eq)	Minimum Grains Offered (oz eq)
Monday	2 meatballs = 0.5 oz eq ½ cup enriched rice = 1 oz eq	1 sup enriched noodles = 2 oz eq		
Tuesday	5 chicken nuggets = 1 oz eq 4 graham crackers* = 1 oz eq	56 gram wheat tortilla = 2_oz eq		
Wednesday	56 gram hamburger bun = 2 oz eq	Grilled Cheese Sandwich 28 gram sandwich bread (2 slices) = _2_ oz eq		
Thursday	28 gram dinner roll = 1 oz eq			
Friday	Pepperoni pizza slice = 2 oz eq	<u>Cheese pizza slice</u> = <u>2</u> oz eq		
Is the Daily of Is the Week ? Is the Week ?	the following questions after you have c Grains Minimum met for each day? Y Fotal Maximum within the Weekly G Fotal Minimum within the Weekly G cotal grain-based desserts 2.0 oz eq g	Yes/No rains Range? Yes/No rains Range? Yes/No	Week Total Maximum(oz eq)	Week Total Minimum(oz eq)

Grade	Meal	Daily Grains Minimum/day (oz eq)	Weekly Grains Range (oz eq)
K-5 th	Lunch	1	8-9

Day	Option 1	Option 2	Maximum Grains Offered (oz eq)	Minimum Grains Offered (oz eq)
Monday	2 meatballs = 0.5 oz eq ½ cup enriched rice = 1 oz eq	1 cup enriched noodles_ = 2 oz eq	2	1.5
Tuesday	5 chicken nuggets = 1 oz eq 4 graham crackers* = 1 oz eq	56 gram wheat tortilla = 2_oz eq		
Wednesday	56 gram hamburger bun = 2 oz eq	Grilled Cheese Sandwich 28 gram sandwich bread (2 slices) = 2 oz eq		
Thursday	28 gram dinner roll = 1 oz eq	4 saltine crackers = 0.5 oz eq 1/4 cup noodles (soup) = 0.5 oz eq		
Friday	Pepperoni pizza slice_ = _2_oz eq	<u>Cheese pizza slice</u> = <u>2</u> oz eq		
Is the Daily (Is the Week i Is the Week i	the following questions after you have of Grains Minimum met for each day? Yotal Maximum within the Weekly G Total Minimum within the Weekly G otal grain-based desserts 2.0 oz eq g	Yes/No rains Range? Yes/No rains Range? Yes/No	Week Total Maximum(oz eq)	Week Total Minimum(oz eq)

Grade	Meal	Daily Grains Minimum/day (oz eq)	Weekly Grains Range (oz eq)
K-5 th	Lunch	1	8-9

Day	Option 1	Option 2	Maximum Grains Offered (oz eq)	Minimum Grain Offered (oz eq)
Monday	2 meatballs = 0.5 oz eq ½ cup enriched rice = 1 oz eq	1 cup enriched noodles_ = 2 oz eq	2	1.5
Tuesday	5 chicken nuggets = 1 oz eq 4 graham crackers* = 1 oz eq	56 gram wheat tortilla = 2 oz eq	2	2
Wednesday	56 gram hamburger bun = 2 oz eq	Grilled Cheese Sandwich 28 gram sandwich bread (2 slices) = 2 oz eq	2	2
Thursday	28 gram dinner roll = 1 oz eq		1	1
Friday	Pepperoni pizza slice = 2 oz eq	Cheese pizza slice = _2 oz eq	2	2
	the following questions after you have c		Week Total Maximum(oz eq)	Week Total Minimum(oz eq
Is the Week	Grains Minimum met for each day? Fotal Maximum within the Weekly G Fotal Minimum within the Weekly G otal grain-based desserts 2.0 oz eq g	rains Range? <mark>Yes</mark> /No rains Range? <mark>Yes</mark> /No	9	8.5



Whole Grain-Rich Implementation Process



- New rule requires all grains to be whole grain-rich by school year (SY) 2014-2015
- Requirement for whole grain-rich products will be phased in for lunch and breakfast over the next two school years

Grain Requirement Timeline Lunch

Starting July 1, 2012	Starting July 1, 2014
Half of the grains offered per week must be whole grain-rich	All grains offered per week must be whole grain-rich



Half the Grains Whole-Grain Rich

Monday	Tuesday	Wednesday	Thursday	Friday
Meatballs (0.5 oz eq)	Chicken nuggets	Grilled Cheese	Chili w/ beans	Pepperoni pizza
w/ Rice (1 oz eq)	(1 oz eq)	Sandwich	Dinner Roll	(2 oz eq)
Steamed Broccoli	Sweet Potato Fries	(2 oz eq)	(1 oz eq)	Bean & Corn Fiesta
Fresh Orange Slices	Grapes	Spinach & Lettuce	Baby Carrots	Salad
Choice of Milk	Graham Crackers	Salad	Watermelon	Kiwi
	(.05 oz eq) Choice of Milk	Apple Slices Choice of Milk	Choice of Milk	Choice of Milk

Whole Grain Rich Products are highlighted

Total Grains Offered: 8 oz eq Whole Grain-Rich: 4 oz eq

Whole Grain-Rich Criteria

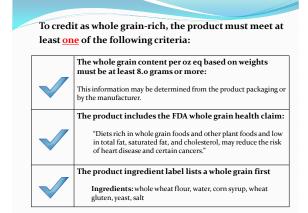
Whole grain-rich products must contain:



- Foods that contain 100% whole grain
- Foods that contain a blend of whole grain meal and/or flour and enriched meal and/or flour

NOTE: Whole grain-rich products must contain at least 50% whole grains and the remaining grain content must be enriched.

Whole Grain-Rich Criteria Whole Grain-Rich Whole Grain 50% Whole Grain 0% Whole Grain



Whole Grain-Rich Criteria

The product ingredient statement lists whole grains first, specifically:

Non Mixed Dishes

- Breads
- Cereals

Mixed Dishes

- Pizza
- Corn dogs





Whole Grain-Rich Criteria

Non-Mixed Dishes

- Whole grains must be the primary ingredient by weight
- When the whole grain content comes from multiple ingredients, the combined whole grain ingredients can be the primary ingredient by weight even though a whole grain is not listed as the first ingredient

Whole Grain-Rich Criteria

Non-Mixed Dishes Example:

A bread item may be made with three grain ingredients:

Ingredients: Enriched wheat flour, whole wheat flour, whole oats...

- · Enriched wheat flour (40% of grain)
- Whole wheat flour (30% of grain)
- Whole oats (30% of grain)

Program operators can use manufacturer documentation to determine that whole grains are the primary ingredient by weight.

Whole Grain-Rich Criteria

Mixed dishes

- Whole grains must be the primary grain ingredient by weight
- The weights listed on School-made recipes, help determine whether the total whole grain ingredients exceed the total non-whole grain ingredients

Pizza Ingredients: CHEESE: Low Moisture-Part Skim Mozzarella Cheese (cultured pasteurized part skim milk, salt, enzymes). CRUST: Water, Whole Wheat Flour, Enriched flour (Wheat flour, niacin, iron, thiamine mononitrate, riboflavin, folic acid, enzyme), sugar, palm oil with lecithin, soybean oil, yeast, salt, sodium bicarbonate...



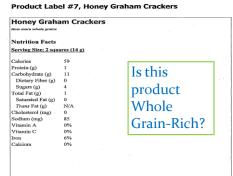
Child Nutrition Label

- Manufacturers may apply for a Child Nutrition (CN) Label for qualifying products (meat/meat alternate entrées containing grains) to indicate the number of oz eq grains that meet the whole grain-rich
- The term "oz eq grains" on the CN Label indicates the product meets the whole grain-rich criteria
- The terms "bread" or "bread alternate" on the CN Label indicates the product meets previous requirements for grains/breads
- Please refer to the CN Labeling Program website for details regarding qualifying products at: www.fns.usda.gov/cnd/cnlabeling

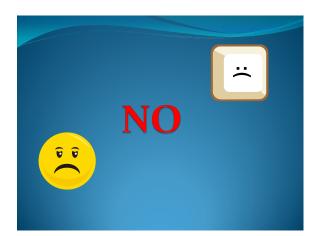
Sample CN Label



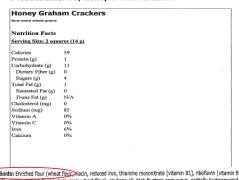
Whole Grain-Rich Activity



Ingredients: Enriched flour (wheat flour, nlacin, reduced iron, thiamine mononitrate [vitamin B1], riboffsvin [vitamin B2], folic acid), supar, graham flour (whole-grain wheat flour), soybean oil, high fructose com syrup, partially hydrogenated cottonseed oil, honey, leavening (baking soda, calcium phosphate), salt, artificial flavor, soy leathin- an emulsifier, comstanch.



Product Label #7, Honey Graham Crackers



Ingredients: Erviched flour (wheat flour_vilacin, reduced iron, thilamine mononitrate [vitamin B1], riboflavin [vitamin B2], folic acid), sugar, graham flour (whole-grain wheat flour), soybean oil, high fructose com syrup, partially hydrogenated cottonseed oil, honey, leavening (baking soda, calcium phosphate), sait, artificial flavor, soy lecithin- an emulsifier, cornstanch.

Handout: Product Label

1. Whole Wheat Bread

Diets rich in whole-grain foods and other plant foods, and low in saturated fat and cholesterol, may help reduce the risk of heart disease. Heets American Heart Association food criterio for saturated fat and cholesterol for healthy people over age 2.

Nutrition Facts Serving Size: 1 slice (28 g)

Serving Size: I silice.

Calories 69
Calories 69
Calories 69
Carbohydrate (g) 12
Dietary Fiber (g) 2
Sugars (g) 2
Total Fat (g) 1
Saturated Fat (g) 0
Cholesterol (mg) 0
Cholesterol (mg) 0
Cholesterol (mg) 0
Vitamin A 0%
Vitamin C 0%
Iron 4%
Calcium 3%

Is this product Whole Grain-Rich?

Ingredients: Whole wheat flour, water, com syrup, wheat gluten, yeast, contains 2% or less of each of the following: honey, partially hydrogenated sopbean oil, salt, dough conditioners (may contain one or more of each of the following: mone- and digbycerids, enlowylated mone- and digbycerids, calcium and sodium stearcyl lactylates, calcium peroxide, calcium carbonate), whey, yeast untrients (mone-ealcium phosphate, calcium sulfate, ammonium sulfate), distilled vinegar, comstatch.



Handout: Product Label

1. Whole Wheat Bread

Diets rich in whole-grain foods and other plant foods, and low in saturated fat and cholesteroir, may help reduce the risk of heart disease.

It was a more than the statement of the control of the con

Nutrition Facts Serving Size: 1 slice (28 g)

Serving Size: I silice
Calories 69
Protein (g) 4
Carbohydrate (g) 12
Dietary Fiber (g) 2
Sugars (g) 2
Total Fat (g) 1
Saturated Fat (g) 0
Cholesterol (mg) 0
Cholesterol (mg) 0
Cholesterol (mg) 132
Vitamin A 0%
Vitamin C 0%
Iron 4%
Calcium 3%

Ingredients: Whole wheat flour, the come syrup, wheat gluten, yeast, contains 2% or less of each of the following honey, partially hydrogenated soybean oil, salt, dough conditioners (may contain one or more of each of the following: mono- and digyleerides, ellowylated mono- and digyleerides, ellowing production and sodium stateogyl leavylates, ealicium perodice, ealerium erohomete, where yeast nutrients (nono-ealerium phosphate, ealerium suffire, ammonium suffire), distilled vinegar, constituers.

Whole Wheat Rolls, Bread Sticks, Buns, 51%

Breads	HACCP: Non-Hazardous/Oth			zardous/Other Healthier Kansas Recipe USDA B-16, mod	
Ingredients	200 Se Weight	ervings Measure	Weight	ervings Measure	Directions
Flour, White Whole Wheat Flour, All-purpose, enriched Dry Milk, instant, nonfat* Sugar, gramulated Yeast, instant, dry Salt	3 lbs + 12 oz 3 lbs + 8 oz 7 oz 11.5 oz 3 oz 1.75 oz	1¾ cup 1¼ cup + 3 Tbsp ½ cup 2 Tbsp + 2 tsp			Place flour, dry milk, sugar, yeast and salt in mixer bowl. Blend with dough hook for approximately 2 minutes on low speed.
Vegetable Oil	13 oz	1º/, cup			Add oil and blend for approximately 2 minutes on io speed.
Water*		2 qt + 14 cup			Add first amount of water to the dry ingredients. If

Serving Size	1 Serving Provid		Yield	
K-12: 1 each	1 oz equivalent gra		200 rolls – Approximately 13 lbs 8 oz of dough	
Nutrients Per Serving Calories 80 Protein 2.01 gm Carbohydrate 14.03 gm Fat 2.06 gm Saturated Fat 0.31 gm	Vitamin A 4.8 IU Vitamin C 1.15 mg Fiber 1.20 gm % Fat 23.15 % Saturated Fat 3.55 %	Iron Calcium Cholesterol Sodium	.84 mg 8.54 mg 0 mg 96 mg	



Whole Wheat Rolls, Bread Sticks, Buns, 51%

	Ingredients	200 Servings		Servings		Directions	
		Weight	Measure	Weight	Measure	Directions	
_	Flour, White Whole Wheat Flour, All-purpose, enriched Dry Milk, instant, nonfat Sugar, granulated Yeast, instant, dry Salt	3 lbs + 12 oz 3 lbs + 8 oz 7 oz 11.5 oz 3 oz 1.75 oz	1½ cup 1½ cup ½ cup 2 Tbsp + 2 tsp			Place flour, dry milk, sugar, yeast and salt in mixer bowl. Blend with dough hook for approximately 2 minutes on low speed.	
	Vegetable Oil	13 oz	1º/2 cup			Add oil and blend for approximately 2 minutes on los speed.	
	Water*		2 qt + 14 cup			4. Add first amount of water to the dry ingredients. If	

K-12: 1 each	1 oz equivalent gra	ains/bread	Yield 200 rolls – Approximately 13 lbs 8 oz of dough
Nutrients Per Serving Calories 8 Protein 2.01 gr	0 Vitamin A 4.8 IU	Iron	84 mg
	m Vitamin C 1.15 mg	Calcium	8.54 mg
	m Fiber 1.20 gm	Cholesterol	0 mg
	m % Fat 23.15 %	Sodium	96 mg

C522 CHICKEN NUGGETS WITH WHOLE GRAIN BREADING TYSON

Servings per Case: 144

Portion Size: 5 nuggets (@ .60 oz each) equal a 2 oz. meat/meat alternate and 1 bread serving.



C522 CHICKEN NUGGETS WITH WHOLE GRAIN BREADING TYSON

Servings per Case: 144

Portion Size: 5 nuggets (@ .60 oz each) equal a 2 oz. meat/meat alternate and 1 bread serving.

STORAGE

Resources for Whole Grains

- USDA Memo SP 30-2012:
- http://www.dpi.wi.gov/fns/pdf/gm_nslp_sp_30_2012.pdf
- http://www.fns.usda.gov/tn/Resources/foodbuyingguide.html
- http://nfsmi.org/ResourceOverview.aspx?ID=425
- http://www.dpi.wi.gov/fns/index.html







Thank you! In accordance with Federal Law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, or disability. To file a complaint of discrimination, write USDA, Director, Office of Adjudication, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410 or call toll free (866) 632-9992 (Voice). Individuals who are hearing impaired or have speech disabilities may contact USDA through the Federal Relay Service at (800) 877-8339; or (800) 845-6136 (Spanish). USDA is an equal opportunity provider and employer.