Whole Grains in School Nutrition

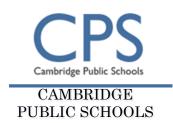
Nourishing the Whole Student Body

Mellissa Honeywood, RD, LDN
Director of Food & Nutrition- Cambridge Public Schools

Samantha Weiss Kimball, MPH, RD
Supervisor of Menu Planning and Special Diets- Boston Public Schools

Areas of Discussion

- Overview of Child Nutrition
- Cambridge Operations
- Boston Operations
- Questions



The Perception of School Food Service



- Poor Customer Service
 - See Media images
 - Compliments of Google image search





The Perception of School Food Service



The Perception of School Food Service

Unhealthy Food

■ Brown & Soggy

Canned Fruit & Vegetables



- Contributing to Obesity
 - □ High in Fat & Sugar





The Reality of School Food Service

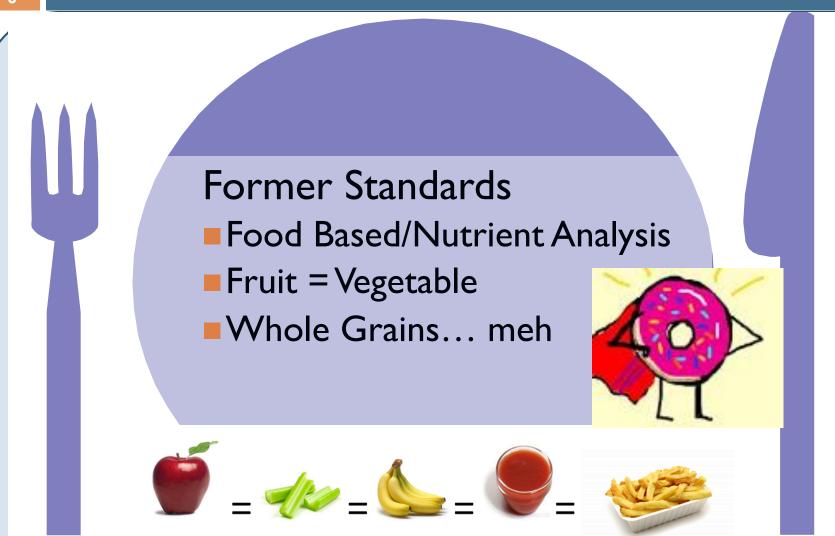




- Most highly regulated food industry
 - Federal funding imposes stringent guidelines
- Large volume food production
 - Meals offered to 6,000 students at 13 locations each school day.
- Low budgets with high expectations
 - Relies heavily on federal reimbursement









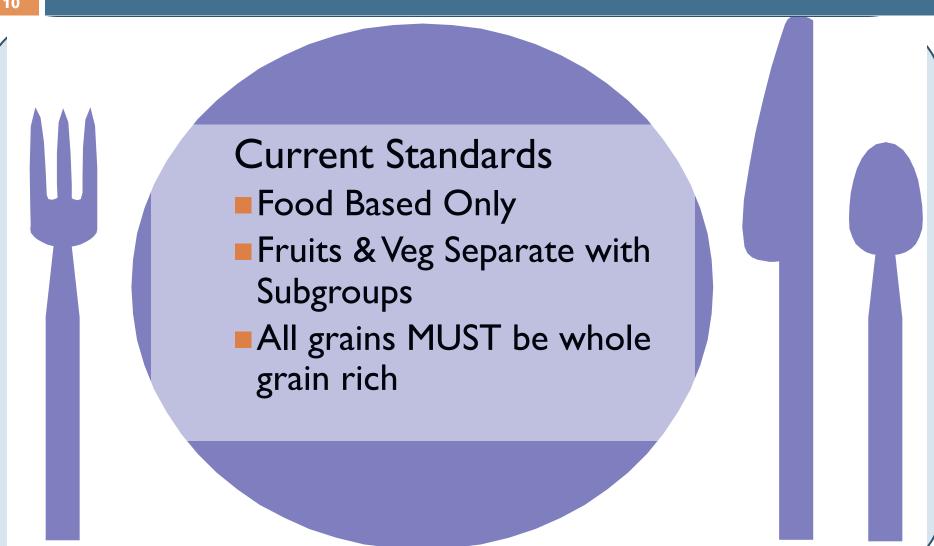












Breakfast



- Grains: Cereal, Toast, Muffin, Bagel, etc
- Meat/Meat Alternate as grain: eggs, yogurt, etc
- All grains MUST be whole grain rich



Grain Requirement					
Grade Level	K-5	6-8	9-12		
Daily	1 oz eq	1 oz eq required	1 oz eq required		
Requirement	required daily	daily	daily		
Weekly	At least 7 oz	At least 8 oz eq/	At least 9 oz eq/		
Requirement	eq/week	week	week		

Regulation THEN and NOW Lunch



- Grains: Rice, Pasta, Tortillas, Breads, etc
- All grains MUST be whole grain rich



Grain Requirement					
Grade Level	K-5	6-8	9-12		
Daily	1 oz eq required	1 oz eq required	2 oz eq required		
Requirement	daily	daily	daily		
Weekly	At least 8 oz eq/	At least 8 oz eq/	At least 10 oz		
Requirement	week	week	eq/week		





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Sample Product 1:

Whole-Grain Bread

- One slice weighs 0.9 oz
- Ingredient statement lists whole-wheat flour first.
 All other grains are enriched.
- Manufacturer documentation states that each slice contains 17 grams of creditable grain and no noncreditable grains

Calculating based on total weight of creditable product:

Because this product contains the required 16 grams of creditable grain per ounce equivalent for Groups A-G of the revised Exhibit A, we may credit it using the Exhibit A weight. The weight of the bread slice is divided by the standard weight listed for Group B products (see page 23).

Calculation: $0.9 \text{ oz} \div 1.0 \text{ oz} = 0.9 \text{ oz}$

0.9 oz rounds down to 0.75 oz eq grains per slice.



Calculating based on grams of creditable grain ingredient:

The same slice of bread may be credited using the amount of creditable grain. Manufacturers must provide documentation on company letterhead (or schools may retain a copy of their standardized recipe). Sample product formulation statements are provided starting on page 25.

For this calculation, divide the grams of creditable grain by the standard of 16 grams per oz equivalent.

Calculation: 17 g + 16 g = 1.06

1.06 rounds down to 1.0 oz eq grains per slice.

Attachment A

Exhibit A: School Lunch and Breakfast

Whole Grain-Rich Ounce Equivalency (Oz Eq) Requirements for School Meal Programs^{1,2}

School Meal Flogranis**	
GROUP A	OZ EQ FOR GROUP A
Bread type coating Bread sticks (hard) Chow mein noodles Savory crackers (saltines and snack crackers) Croutons Pretzels (hard) Stuffing (dry) Note: Weights apply to bread in stuffing.	1 oz eq = 22 g or 0.8 oz 3/4 oz eq = 17 g or 0.6 oz 1/2 oz eq = 11 g or 0.4 oz 1/4 oz eq = 6 g or 0.2 oz
GROUP B	OZ EQ FOR GROUP B
Bagels Batter type coating Biscuits Breads (sliced whole wheat, French, Italian) Buns (hamburger and hot dog) Sweet crackers* (graham crackers - all shapes, animal crackers) Egg roll skins English muffins Pita bread (whole wheat or whole grain-rich) Pizza crust Pretzels (soft) Rolls (whole wheat or whole grain-rich) Tortillas (whole wheat or whole corn) Tortilla chips (whole wheat or whole corn) Taco shells (whole wheat or whole corn)	1 oz eq = 28 g or 1.0 oz 3/4 oz eq = 21 g or 0.75 oz 1/2 oz eq = 14 g or 0.5 oz 1/4 oz eq = 7 g or 0.25 oz
GROUP C	OZ EQ FOR GROUP C
Cookies³ (plain - includes vanilla wafers) Cormbread Corn muffins Croissants Pancakes Pie crust (dessert pies,³ cobbler,³ fruit turnovers,⁴ and meat/ meat alternate pies) Waffles	1 oz eq = 34 g or 1.2 oz 3/4 oz eq = 26 g or 0.9 oz 1/2 oz eq = 17 g or 0.6 oz 1/4 oz eq = 9 g or 0.3 oz

¹ The following food quantities from Groups A-G, must contain at least 16 grams of whole grain or can be made with 8 grams of whole grain and 8 grams of enriched meal and/or enriched flour to be considered whole grain-rich.

² Some of the following grains may contain more sugar, salt, and/or fat than others. This should be a consideration when deciding how often to serve them.

Allowed only as dessert at lunch as specified in §210.10.

⁴ Allowed for desserts at lunch as specified in §210.10, and for breakfasts served under the SBP.

Whole Grain-Rich Ounce Equivalency (Oz Eq) Requirements for School Meal Programs^{1,2} (continued)

GROUP D	OZ EQ FOR GROUP D
Doughnuts*(cake and yeast raised, unfrosted) Cereal bars, breakfast bars, granola bars* (plain) Muffins (all, except corn) Sweet roll* (unfrosted) Toaster pastry* (unfrosted)	1 oz eq = 55 g or 2.0 oz 3/4 oz eq = 42 g or 1.5 oz 1/2 oz eq = 28 g or 1.0 oz 1/4 oz eq = 14 g or 0.5 oz
GROUP E	OZ EQ FOR GROUP E
Cereal bars, breakfast bars, granola bars ⁴ (with nuts, dried fruit, and/or chocolate pieces) Cookies ³ (with nuts, raisins, chocolate pieces and/or fruit purees) Doughnuts ⁴ (cake and yeast raised, frosted or glazed) French toast Sweet rolls ⁴ (frosted) Toaster pastry ⁴ (frosted)	1 oz eq = 69 g or 2.4 oz 3/4 oz eq = 52 g or 1.8 oz 1/2 oz eq = 35 g or 1.2 oz 1/4 oz eq = 18 g or 0.6 oz
GROUP F	OZ EQ FOR GROUP F
Cake³ (plain, unfrosted) Coffee cake⁴	1 oz eq = 82 g or 2.9 oz 3/4 oz eq = 62 g or 2.2 oz 1/2 oz eq = 41 g or 1.5 oz 1/4 oz eq = 21 g or 0.7 oz
GROUP G	OZ EQ FOR GROUP G
Brownies³ (plain) Cake³ (all varieties, frosted)	1 oz eq = 125 g or 4.4 oz 3/4 oz eq = 94 g or 3.3 oz 1/2 oz eq = 63 g or 2.2 oz 1/4 oz eq = 32 g or 1.1 oz
GROUP H	OZ EQ FOR GROUP H
Cereal grains (barley, quinoa, etc) Breakfast cereals (cooked) ^{s, s} Bulgur or cracked wheat Macaroni (all shapes) Noodles (all varieties) Pasta (all shapes) Ravioli (noodle only) Rice (enriched white or brown)	1 oz eq = 1/2 cup cooked or 1 ounce (28 g) dry
GROUP I	OZ EQ FOR GROUP I
Ready-to-eat breakfast cereal (cold, dry) s, s	1 oz eq = 1 cup or 1 ounce for flakes and rounds 1 oz eq = 1.25 cups or 1 ounce for puffed cereal 1 oz eq = 1/4 cup or 1 ounce for granola

Series of Program regulations for the appropriate serving size for supplements served to children ages 1 through 5 in the National School Lunch Program; and meals served to children ages 1 through 5 and adult participants in the Child and Adult Care Food Program. Breakfast cereals are traditionally served as a breakfast menu item but may be served in meals other than breakfast.

⁶ Cereals must be whole grain, or whole grain and enriched or fortified cereal.

Cambridge Operations



- District by the Numbers
 - □ 13 Kitchens, 6,000 students
 - Around 45% of students qualify for Free/Reduced Meals

Cambridge Operations

- District Assets
 - **□** Fully Equipped Kitchens
 - Increased Cooking Capabilities
 - Partnership with City Health Department
 - Early Implementation
 - □ Garden at Every School
 - Increased student awareness



PUBLIC SCHOOLS

Cambridge Operations





















- District by the Numbers
 - □ 128 Schools, over57,000 students
 - 93 CACFP Supper Programs
 - 44 Full Preparation Kitchens, 84 satellite kitchens
 - 31 Fresh Fruit & Vegetable Program Sites
 - Community Eligibility Provisions



- Orchard Gardens
 - 44 Full Preparation Kitchens, 84 satellite kitchens





- Orchard Gardens
 - 44 Full Preparation Kitchens, 84 satellite kitchens





- Henderson Inclusion Uppers
 - 44 Full Preparation Kitchens, 84 satellite kitchens





- Henderson Inclusion Uppers
 - 44 Full Preparation Kitchens, 84 satellite kitchens







- Perry School
 - 44 Full Preparation Kitchens, 84 satellite kitchens







- Perry School
 - 44 Full Preparation Kitchens, 84 satellite kitchens



Thank You So Much

Samantha Weiss Kimball, MPH, RD
Boston Public Schools
sweiss@bostonpublicschools.org

Mellissa Honeywood, RD
Cambridge Public Schools
Mhoneywood@cpsd.us



The Reality of School Food Service

PUBLIC SCHOOLS







Questions?

Samantha Weiss Kimball, MPH, RD Boston Mellissa Honeywood, RD

Cambridge

Coleen Donnelly

Moderator