



Meal Pattern : Grains - Ounce Equivalents

CACFP Annual Mandatory Training
Program Year 2022



**Hawaii
Child
Nutrition
Programs**



Contents

- ▶ Introduce 'Ounce Equivalent' Terminology
- ▶ Available Resources
- ▶ Examples
- ▶ Q&A

In a Nutshell...



- ▶ Grain crediting change to ounce equivalents (oz. eq.)
- ▶ New requirement: Starting October 1, 2021
 - ▶ Production Records!

What are Ounce Equivalents?

- ▶ **Defined: A method of measuring grains and meat/meat alternate components in the child nutrition programs**
 - ▶ Abbreviation: Oz. Eq.
- ▶ Grains Ounce Equivalents already used in NSLP
 - ▶ Aligns CNPs

Grain Items Vary!

- Standardized method of measuring grain in various grain items

Bread Roll
100% Grain
38 grams/roll



Waffle
?? % Grain
45 grams each



Waffle
?? % Grain
86 grams each



Old vs New Method



- ▶ Old: 1 slice/serving of grain
- ▶ New: 1 slice/serving of grain = 1 oz. equivalent
- ▶ Example: Grains serving size for a 4-year-old was $\frac{1}{2}$ slice. Now, serving size is $\frac{1}{2}$ oz. eq.



Grains Serving Sizes in CACFP

Child Meal Pattern: Grains Component Minimum Serving Sizes by Age Group

Meals	Ages 1-2	Ages 3-5	Ages 6-12	Ages 13-18
Breakfast	½ oz eq	½ oz eq	1 oz eq	1 oz eq
Snack	½ oz eq	½ oz eq	1 oz eq	1 oz eq
Lunch/Supper	½ oz eq	½ oz eq	1 oz eq	1 oz eq

Adult Meal Pattern: Grains Component Minimum Serving Sizes

Meals	Minimum Portion Sizes
Breakfast	2 oz eq
Snack	1 oz eq
Lunch/Supper	2 oz eq



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Resources

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Using Ounce Equivalents for Grains in the Child and Adult Care Food Program

Grains are an important part of meals in the Child and Adult Care Food Program (CACFP). To make sure children and adults get enough grains at CACFP meals and snacks, required amounts for the grains component are listed in the meal pattern as ounce equivalents (oz. eq.). Ounce equivalents tell you the amount of grain in a portion of food.

How Much Is 1 Ounce Equivalent?

20 cheese crackers (1" by 1" = 1 oz. eq.)
12 thin wheat crackers (1 1/2" by 1 1/2" = 1 oz. eq.)
5 woven whole-wheat crackers (1 1/2" by 1 1/2" = 1 oz. eq.)

Using the Grains Measuring Chart

The Grains Measuring Chart on pages 2-4 tells you how much of a grain item you need to serve to meet CACFP meal pattern requirements. To use this chart:

- Find the grain you want to serve under the "Grain Item and Size" column.
- Check if the chart lists a size or weight by the name of the grain. If the chart:
- Lets a weight for the grain, such as at least 56 grams, then use the Nutrition Facts label for the item you want to serve to make sure it weighs the same, or more than, the grain on the chart. See page 5.
- Does not list a weight or size for the grain, then you do not need to check the size or weight of the product before using the chart.
- Lets a size for the grain, such as about 7 1/2" by 1 1/2", then check if the item is the same size, or larger than, this amount. See page 6.

Find the column for the age of your participants and the meal or snack you are serving. This column lists the amount of a grain you will need to serve to meet the meal pattern requirement for grains.

Grain Item and Size

- 1 through 8-year-olds at Breakfast, Lunch, Supper, Snack
- 9 years and older at Breakfast, Lunch, Supper, Snack
- 10 cups or 14 grams
- 1 1/2 cups or 14 grams
- 7 whole or 11 grams

Pin Bread/Pan (about 8 1/2" by 10" or 10" by 10")

Pretzel, Hard, Mini-Tort (about 1 1/2" by 1 1/2")

More training, menu planning, and nutrition education materials for the CACFP can be found at <https://teamnutrition.usda.gov>.

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Crediting Single-Serving Packages of Grains in the Child and Adult Care Food Program

Child and Adult Care Food Program (CACFP) operators may serve single-serving or snack-sized packages of grain items, such as breakfast cereals or whole grain crackers to meet grains requirements at snacks and meals.

In the CACFP the minimum required amounts for grains are listed in the meal pattern as ounce equivalents (oz. eq.). Ounce equivalents tell you the amount of grains in a portion of food.

How Much Is 1 Ounce Equivalent?

0.8 ounce (22 grams) of Cheese Crackers
1 ounce (28 grams) of Toasted O's Cereal
2 ounces (55 grams) of Blueberry Muffin

CHEEZY'S
Net Wt. 0.8 oz (22g)

TOASTED O'S CEREAL
Net Wt. 1 oz (28g)

BLUEBERRY MUFFIN
Net Wt. 2 oz (55g)

1 oz. eq. of grains
1 oz. eq. of grains
1 oz. eq. of grains

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Feeding Infants Using Ounce Equivalents for Grains in the Child and Adult Care Food Program

Grains in the form of bread/bread-like items, crackers, iron-fortified infant cereal, or ready-to-eat cereals are an important part of meals and snacks in the Child and Adult Care Food Program (CACFP). To make sure infants get enough grains, required amounts of grain items are listed in the infant meal pattern as ounce equivalents (oz. eq.). Ounce equivalents tell you the amount of grain in a portion of food.

As a reminder, iron-fortified infant cereal is the only grain that may count toward a reimbursable breakfast, lunch, or supper in the CACFP infant meal pattern. You may serve bread/bread-like items, crackers, iron-fortified infant cereal, or ready-to-eat cereals as part of a reimbursable snack.

Reminder!
Infant cereals and ready-to-eat cereals must be iron-fortified. Ready-to-eat cereals must contain no more than 6 grams of sugar per dry ounce. All grains served must be enriched, fortified, or whole grain-rich.

For more information on the CACFP infant meal pattern, see the "Feeding Infants in the Child and Adult Care Food Program" guide at [TeamNutrition.USDA.gov](https://teamnutrition.usda.gov).

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Breakfast/Lunch/Supper	
Grain Item	Requirements
Iron-Fortified Infant Cereal, or meals/meat alternatives, or both	0-1/5 oz. eq.

Snack (choose at least one item below)	
Grain Item	Requirements
Bread/Bread-like Items, or Crackers, or Iron-Fortified Infant Cereal, or Ready-to-Eat Cereal	0-1/5 oz. eq.

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Calculating Ounce Equivalents of Grains in the Child and Adult Care Food Program

Grains are an important part of meals in the Child and Adult Care Food Program (CACFP). To make sure children and adults get enough grains at CACFP meals and snacks, minimum required amounts for grains are listed in the meal pattern as ounce equivalents (oz. eq.). Ounce equivalents tell you the amount of grain in a portion of food.

Below are three ways you can determine how much of an item you need to serve at CACFP meals and snacks:

- Grains Measuring Chart for the CACFP:** This chart shows the amount of common grain items equal to a 1/2 ounce equivalent, 1 ounce equivalent, and 2 ounce equivalents. Find the chart in the "Using Ounce Equivalents for Grains in the Child and Adult Care Food Program" worksheet at teamnutrition.usda.gov.
- Food Buying Guide for Child Nutrition Programs (FBG):** Use this application's "Exhibit A: Grains Tool" to enter information from the Nutrition Facts label of the grain product. It will calculate how many ounce equivalents are in one serving. Use the application's "Recipe Analysis Worksheet" to determine the ounce equivalents of grains in a serving of a standardized recipe. The FBG is available at foodbuyingguide.fns.usda.gov.
- Calculation Method:** Use the information on the item's Nutrition Facts label, and follow the steps for "Calculating Ounce Equivalents for Grains" beginning on page 2 of this worksheet.

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Exhibit A: Grain Requirements for Child Nutrition Programs^{1,2}
See key: 1 ounce = 2.04 ounces (oz. eq.)

Group	Grain Equivalent (oz. eq.) for Group	Minimum Serving Size for Group
Group 1		
Breakfast cereal	1 oz. eq. = 22 gm or 0.8 oz.	1 serving = 20 gm or 0.7 oz.
Bread (1 slice)	28 oz. eq. = 79 gm or 2.8 oz.	28 oz. eq. = 79 gm or 2.8 oz.
Whole wheat	12 oz. eq. = 34 gm or 1.2 oz.	12 oz. eq. = 34 gm or 1.2 oz.
Savory crackers (patented and snack crackers)	14 oz. eq. = 40 gm or 1.4 oz.	14 oz. eq. = 40 gm or 1.4 oz.
Cereals		
Protein (1 oz.)		
Grain (1 oz.)		
Group 2		
Breakfast cereal	1 oz. eq. = 22 gm or 0.8 oz.	1 serving = 20 gm or 0.7 oz.
Bread (1 slice)	28 oz. eq. = 79 gm or 2.8 oz.	28 oz. eq. = 79 gm or 2.8 oz.
Whole wheat	12 oz. eq. = 34 gm or 1.2 oz.	12 oz. eq. = 34 gm or 1.2 oz.
Savory crackers (patented and snack crackers)	14 oz. eq. = 40 gm or 1.4 oz.	14 oz. eq. = 40 gm or 1.4 oz.
Cereals		
Protein (1 oz.)		
Grain (1 oz.)		
Group 3		
Breakfast cereal	1 oz. eq. = 22 gm or 0.8 oz.	1 serving = 20 gm or 0.7 oz.
Bread (1 slice)	28 oz. eq. = 79 gm or 2.8 oz.	28 oz. eq. = 79 gm or 2.8 oz.
Whole wheat	12 oz. eq. = 34 gm or 1.2 oz.	12 oz. eq. = 34 gm or 1.2 oz.
Savory crackers (patented and snack crackers)	14 oz. eq. = 40 gm or 1.4 oz.	14 oz. eq. = 40 gm or 1.4 oz.
Cereals		
Protein (1 oz.)		
Grain (1 oz.)		
Group 4		
Breakfast cereal	1 oz. eq. = 22 gm or 0.8 oz.	1 serving = 20 gm or 0.7 oz.
Bread (1 slice)	28 oz. eq. = 79 gm or 2.8 oz.	28 oz. eq. = 79 gm or 2.8 oz.
Whole wheat	12 oz. eq. = 34 gm or 1.2 oz.	12 oz. eq. = 34 gm or 1.2 oz.
Savory crackers (patented and snack crackers)	14 oz. eq. = 40 gm or 1.4 oz.	14 oz. eq. = 40 gm or 1.4 oz.
Cereals		
Protein (1 oz.)		
Grain (1 oz.)		



Exhibit A

Exhibit A: Grain Requirements For Child Nutrition Programs^{1,2}

Color Key: Footnote 5 = Blue, Footnote 3 or 4 = Red

Group A	Ounce Equivalent (oz eq) for Group A	Minimum Serving Size for Group A
Bread type coating Bread sticks (hard) Chow Mein noodles Savory Crackers (saltines and snack crackers) Croutons Pretzels (hard) Stuffing (dry) <i>Note: weights apply to bread in stuffing</i>	1 oz eq = 22 gm or 0.8 oz 3/4 oz eq = 17 gm or 0.6 oz 1/2 oz eq = 11 gm or 0.4 oz 1/4 oz eq = 6 gm or 0.2 oz	1 serving = 20 gm or 0.7 oz 3/4 serving = 15 gm or 0.5 oz 1/2 serving = 10 gm or 0.4 oz 1/4 serving = 5 gm or 0.2 oz
Group B	Ounce Equivalent (oz eq) for Group B	Minimum Serving Size for Group B
Bagels Batter type coating Biscuits Breads - all (for example sliced, French, Italian) Buns (hamburger and hot dog) Sweet Crackers ⁵ (graham crackers - all shapes, animal crackers) Egg roll skins English muffins Pita bread Pizza crust Pretzels (soft) Rolls Tortillas Tortilla chips Taco shells	1 oz eq = 28 gm or 1.0 oz 3/4 oz eq = 21 gm or 0.75 oz 1/2 oz eq = 14 gm or 0.5 oz 1/4 oz eq = 7 gm or 0.25	1 serving = 25 gm or 0.9 oz 3/4 serving = 19 gm or 0.7 oz 1/2 serving = 13 gm or 0.5 oz 1/4 serving = 6 gm or 0.2 oz



Cereal!



Group I	Ounce Equivalent (oz eq) for Group I	Minimum Serving Size for Group I
Ready to eat breakfast cereal (cold, dry) ^{6,7}	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	1 serving = 3/4 cup or 1 oz, whichever is less

Question!

You want to serve corn flakes to your 4-year-old students at breakfast. How many cups does each child need?

Meals	Ages 1-2	Ages 3-5	Ages 6-12	Ages 13-18
Breakfast	½ oz eq	½ oz eq	1 oz eq	1 oz eq
Snack	½ oz eq	½ oz eq	1 oz eq	1 oz eq
Lunch/Supper	½ oz eq	½ oz eq	1 oz eq	1 oz eq



Question!

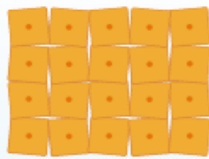
Group I	Ounce Equivalent (oz eq) for Group I	Minimum Serving Size for Group I
Ready to eat breakfast cereal (cold, dry) ^{6,7}	1 oz eq = 1 cup or 1 ounce for flakes and rounds 1 oz eq = 1.25 cups or 1 ounce for puffed cereal 1 oz eq = 1/4 cup or 1 ounce for granola	1 serving = 3/4 cup or 1 oz, whichever is less



Using Ounce Equivalents for Grains in the Child and Adult Care Food Program

Grains are an important part of meals in the Child and Adult Care Food Program (CACFP). To make sure children and adults get enough grains at CACFP meals and snacks, required amounts for the grains component are listed in the meal pattern as ounce equivalents (oz. eq.). Ounce equivalents tell you the amount of grain in a portion of food.

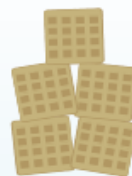
How Much Is 1 Ounce Equivalent?



20 cheese crackers
(1" by 1") = 1 oz. eq.



12 thin wheat crackers
(1 ¼" by 1 ¼") = 1 oz. eq.



5 woven whole-wheat crackers
(1 ½" by 1 ½") = 1 oz. eq.

Using the Grains Measuring Chart


The Grains Measuring Chart on pages 2-4 tells you how much of a grain item you need to serve to meet CACFP meal pattern requirements. To use this chart:

- 1 Find the grain you want to serve under the "Grain Item and Size" column.
- 2 Check if the chart lists a size or weight by the name of the grain. If the chart:
- 3 Find the column for the age of your participants and the meal or snack you are serving. This column lists the amount of a grain you will need to serve to meet the meal pattern requirement for grains.

Lists a weight for the grain, such as *at least 56 grams*, then use the Nutrition Facts label for the item you want to serve to make sure it weighs the same, or more than, the grain on the chart. See page 5.

Does not list a weight or size for the grain, then you do not need to check the size or weight of the product before using the chart.

Lists a size for the grain, such as *about 1 ¼" by 1 ½"*, then check if the item is the same size, or larger than, this amount. See page 6.

 Grain Item and Size		1- through 5-year-olds at Breakfast, Lunch, Supper, Snack
Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*		Serve at Least ½ oz. eq., which equals about...
		¼ pita or 14 grams
		1 ½ cups or 14 grams
Popcorn		1 ½ cups or 14 grams
Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**		7 twists or 11 grams






Hawaii Child Nutrition Programs


Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Bagel (entire bagel) at least 56 grams*	¼ bagel or 14 grams	½ bagel or 28 grams	1 bagel or 56 grams
Bagel, Mini (entire bagel) at least 28 grams*	½ bagel or 14 grams	1 bagel or 28 grams	2 bagels or 56 grams
Biscuit at least 28 grams*	½ biscuit or 14 grams	1 biscuit or 28 grams	2 biscuits or 56 grams
Bread (whole grain-rich or enriched) at least 28 grams*	½ slice or 14 grams	1 slice or 28 grams	2 slices or 56 grams
Bun or Roll (entire bun or roll) at least 28 grams*	½ bun/roll or 14 grams	1 bun/roll or 28 grams	2 buns/rolls or 56 grams
Cereal Grains (barley, bulgur, quinoa, etc.)	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Cereal, Ready-to-Eat: Flakes or Rounds	½ cup or 14 grams	1 cup or 28 grams	2 cups or 56 grams
Cereal, Ready-to-Eat: Granola	⅓ cup or 14 grams	⅔ cup or 28 grams	½ cup or 56 grams
Cereal, Ready-to-Eat: Puffed	¾ cup or 14 grams	1 ¼ cup or 28 grams	2 ½ cups or 56 grams
Corn Muffin at least 34 grams*	½ muffin or 17 grams	1 muffin or 34 grams	2 muffins or 68 grams
Cracker, Animal (about 1 ½" by 1")**	8 crackers or 14 grams	15 crackers or 28 grams	30 crackers (~1 cup) or 56 grams
Cracker, Bear-Shaped, Sweet (about 1" by ½")**	12 crackers (~¼ cup) or 14 grams	24 crackers (~½ cup) or 28 grams	48 crackers (~1 cup) or 56 grams
Cracker, Cheese, Square, Savory (about 1" by 1")**	10 crackers or 11 grams	20 crackers (~⅓ cup) or 22 grams	40 crackers (~⅔ cup) or 44 grams
Cracker, Fish-Shaped or Similar, Savory (about ¾" by ½")**	21 crackers (~¼ cup) or 11 grams	41 crackers (~½ cup) or 22 grams	81 crackers (~1 cup) or 44 grams

Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Cracker, Graham (about 5" by 2 ½")**	1 cracker or 14 grams	2 crackers or 28 grams	4 crackers or 56 grams
Cracker, Round, Savory (about 1 ¾" across)**	4 crackers or 11 grams	7 crackers or 22 grams	14 crackers or 44 grams
Cracker, Saltine (about 2" by 2")**	4 crackers or 11 grams	8 crackers or 22 grams	16 crackers or 44 grams
Cracker, Thin Wheat, Square, Savory (about 1 ¼" by 1 ¼")**	6 crackers or 11 grams	12 crackers or 22 grams	23 crackers or 44 grams
Cracker, Woven Whole- Wheat, Square, Savory (about 1 ½" by 1 ½")**	3 crackers or 11 grams	5 crackers or 22 grams	10 crackers or 44 grams
Croissant at least 34 grams*	½ croissant or 17 grams	1 croissant or 34 grams	2 croissants or 68 grams
English Muffin (top and bottom) at least 56 grams*	¼ muffin or 14 grams	½ muffin or 28 grams	1 muffin or 56 grams
French Toast Stick at least 18 grams*	2 sticks or 35 grams	4 sticks or 69 grams	8 sticks or 138 grams
Grits	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Melba Toast (about 3 ½" by 1 ½")**	2 pieces or 11 grams	5 pieces or 22 grams	8 pieces or 44 grams
Muffin and Quick Bread (banana, etc.) at least 55 grams*	½ muffin/slice or 28 grams	1 muffin/slice or 55 grams	2 muffins/slices or 110 grams
Oatmeal	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Pancake at least 34 grams*	½ pancake or 17 grams	1 pancake or 34 grams	2 pancakes or 68 grams

Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Pasta (whole grain-rich or enriched, all shapes)	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*	¼ pita or 14 grams	½ pita or 28 grams	1 pita or 56 grams
Popcorn	1 ½ cups or 14 grams	3 cups or 28 grams	6 cups or 56 grams
Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**	7 twists (~⅓ cup) or 11 grams	14 twists (~⅔ cup) or 22 grams	27 twists (~1 cup) or 44 grams
Pretzel, Hard, Thin Stick (about 2 ½" long)**	16 sticks or 11 grams	31 sticks or 22 grams	62 sticks or 44 grams
Pretzel, Soft at least 56 grams*	¼ pretzel or 14 grams	½ pretzel or 28 grams	1 pretzel or 56 grams
Rice (all types)	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Rice Cake at least 8 grams*	1 ½ cakes or 11 grams	3 cakes or 22 grams	5 ½ cakes or 44 grams
Rice Cake, Mini (about 1 ¾" across)**	7 cakes or 11 grams	13 cakes or 22 grams	25 cakes or 44 grams
Taco or Tostada Shell, Hard at least 14 grams*	1 shell or 14 grams	2 shells or 28 grams	4 shells or 56 grams
Tortilla, Soft, Corn (about 5 ½")**	¾ tortilla or 14 grams	1 ¼ tortillas or 28 grams	2 ½ tortillas or 56 grams
Tortilla, Soft, Flour (about 6")**	½ tortilla or 14 grams	1 tortilla or 28 grams	2 tortillas or 56 grams
Tortilla, Soft, Flour (about 8")**	¼ tortilla or 14 grams	½ tortilla or 28 grams	1 tortilla or 56 grams
Waffle at least 34 grams*	½ waffle or 17 grams	1 waffle or 34 grams	2 waffles or 68 grams

! *Check that the item you want to serve weighs this amount, or more. See "Using the Nutrition Facts Label" on page 5 for more information.

**Check that the item you want to serve is about this size or larger. See "Grains Measuring Tools" on page 6 for more information.



Using the Grains Measuring Chart

The Grains Measuring Chart on pages 2-4 tells you how much of a grain item you need to serve to meet CACFP meal pattern requirements. To use this chart:

1 Find the grain you want to serve under the “Grain Item and Size” column.


2 Check if the chart lists a size or weight by the name of the grain. If the chart:

Lists a weight for the grain, such as *at least 56 grams*, then use the Nutrition Facts label for the item you want to serve to make sure it weighs the same, or more than, the grain on the chart. See page 5.

Does not list a weight or size for the grain, then you do not need to check the size or weight of the product before using the chart.


Lists a size for the grain, such as *about 1 ¼" by 1 ½"*, then check if the item is the same size, or larger than, this amount. See page 6.

3 Find the column for the age of your participants and the meal or snack you are serving. This column lists the amount of a grain you will need to serve to meet the meal pattern requirement for grains.

 Grain Item and Size	
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack
Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*	Serve at Least ½ oz. eq., which equals about...
Popcorn	¼ pita or 14 grams
Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**	1 ½ cups or 14 grams
	7 twists or 11 grams



Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Pasta (whole grain-rich or enriched, all shapes)	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*	¼ pita or 14 grams	½ pita or 28 grams	1 pita or 56 grams
Popcorn	1 ½ cups or 14 grams	3 cups or 28 grams	6 cups or 56 grams
Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**	7 twists (~⅓ cup) or 11 grams	14 twists (~⅔ cup) or 22 grams	27 twists (~1 cup) or 44 grams
Pretzel, Hard, Thin Stick (about 2 ½" long)**	16 sticks or 11 grams	31 sticks or 22 grams	62 sticks or 44 grams
Pretzel, Soft at least 56 grams*	¼ pretzel or 14 grams	½ pretzel or 28 grams	1 pretzel or 56 grams





Using the Grains Measuring Chart

The Grains Measuring Chart on pages 2-4 tells you how much of a grain item you need to serve to meet CACFP meal pattern requirements. To use this chart:

1 Find the grain you want to serve under the “Grain Item and Size” column.


2 Check if the chart lists a size or weight by the name of the grain. If the chart:

Lists a weight for the grain, such as *at least 56 grams*, then use the Nutrition Facts label for the item you want to serve to make sure it weighs the same, or more than, the grain on the chart. See page 5.

Does not list a weight or size for the grain, then you do not need to check the size or weight of the product before using the chart.


Lists a size for the grain, such as *about 1 ¼" by 1 ½"*, then check if the item is the same size, or larger than, this amount. See page 6.

3 Find the column for the age of your participants and the meal or snack you are serving. This column lists the amount of a grain you will need to serve to meet the meal pattern requirement for grains.

 Grain Item and Size	
1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	Serve at Least ½ oz. eq., which equals about...
	Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*
	¼ pita or 14 grams
	Popcorn
1 ½ cups or 14 grams	Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**
	7 twists or 11 grams



Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Pasta (whole grain-rich or enriched, all shapes)	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*	¼ pita or 14 grams	½ pita or 28 grams	1 pita or 56 grams
Popcorn	1 ½ cups or 14 grams	3 cups or 28 grams	6 cups or 56 grams
Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**	7 twists (~⅓ cup) or 11 grams	14 twists (~⅔ cup) or 22 grams	27 twists (~1 cup) or 44 grams
Pretzel, Hard, Thin Stick (about 2 ½" long)**	16 sticks or 11 grams	31 sticks or 22 grams	62 sticks or 44 grams
Pretzel, Soft at least 56 grams*	¼ pretzel or 14 grams	½ pretzel or 28 grams	1 pretzel or 56 grams





Using the Grains Measuring Chart

The Grains Measuring Chart on pages 2-4 tells you how much of a grain item you need to serve to meet CACFP meal pattern requirements. To use this chart:


- 1 Find the grain you want to serve under the "Grain Item and Size" column.
- 2 Check if the chart lists a size or weight by the name of the grain. If the chart:

Lists a weight for the grain, such as *at least 56 grams*, then use the Nutrition Facts label for the item you want to serve to make sure it weighs the same, or more than, the grain on the chart. See page 5.

Does not list a weight or size for the grain, then you do not need to check the size or weight of the product before using the chart.


Lists a size for the grain, such as *about 1 ¼" by 1 ½"*, then check if the item is the same size, or larger than, this amount. See page 6.

- 3 Find the column for the age of your participants and the meal or snack you are serving. This column lists the amount of a grain you will need to serve to meet the meal pattern requirement for grains.

 Grain Item and Size	
Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack
	Serve at Least ½ oz. eq., which equals about...
	¼ pita or 14 grams
	1 ½ cups or 14 grams
Popcorn	
Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**	7 twists or 11 grams




Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Pasta (whole grain-rich or enriched, all shapes)	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*	¼ pita or 14 grams	½ pita or 28 grams	1 pita or 56 grams
Popcorn	1 ½ cups or 14 grams	3 cups or 28 grams	6 cups or 56 grams
Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**	7 twists (~⅓ cup) or 11 grams	14 twists (~⅔ cup) or 22 grams	27 twists (~1 cup) or 44 grams
Pretzel, Hard, Thin Stick (about 2 ½" long)**	16 sticks or 11 grams	31 sticks or 22 grams	62 sticks or 44 grams
Pretzel, Soft at least 56 grams*	¼ pretzel or 14 grams	½ pretzel or 28 grams	1 pretzel or 56 grams


Question!

How much oatmeal do you need to serve a 6-year old for breakfast?

Grains Measuring Chart for the Child and Adult Care Food Program			
 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Grits	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Melba Toast (about 3 ½" by 1 ½")**	2 pieces or 11 grams	5 pieces or 22 grams	8 pieces or 44 grams
Muffin and Quick Bread (banana, etc.) at least 55 grams*	½ muffin/slice or 28 grams	1 muffin/slice or 55 grams	2 muffins/slices or 110 grams
Oatmeal	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Pancake at least 34 grams*	½ pancake or 17 grams	1 pancake or 34 grams	2 pancakes or 68 grams




Answer: ½ cup cooked

Grains Measuring Chart for the Child and Adult Care Food Program			
 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Grits	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Melba Toast (about 3 ½" by 1 ½")**	2 pieces or 11 grams	5 pieces or 22 grams	8 pieces or 44 grams
Muffin and Quick Bread (banana, etc.) at least 55 grams*	½ muffin/slice or 28 grams	1 muffin/slice or 55 grams	2 muffins/slices or 110 grams
Oatmeal	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry
Pancake at least 34 grams*	½ pancake or 17 grams	1 pancake or 34 grams	2 pancakes or 68 grams



Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Bagel (entire bagel) at least 56 grams*	¼ bagel or 14 grams	½ bagel or 28 grams	1 bagel or 56 grams
Bagel, Mini (entire bagel) at least 28 grams*	½ bagel or 14 grams	1 bagel or 28 grams	2 bagels or 56 grams
Biscuit at least 28 grams*	½ biscuit or 14 grams	1 biscuit or 28 grams	2 biscuits or 56 grams
Bread (whole grain rich or enriched) at least 28 grams*	½ slice or 14 grams	1 slice or 28 grams	2 slices or 56 grams
Bun or Roll (entire bun or roll) at least 28 grams*	½ bun/roll or 14 grams	1 bun/roll or 28 grams	2 buns/rolls or 56 grams
Cereal Grains (barley, bulgur, quinoa, etc.)	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry



Using the Grains Measuring Chart

The Grains Measuring Chart on pages 2-4 tells you how much of a grain item you need to serve to meet CACFP meal pattern requirements. To use this chart:

1

Find the grain you want to serve under the “Grain Item and Size” column.

2

Check if the chart lists a size or weight by the name of the grain. If the chart:

Lists a weight for the grain, such as *at least 56 grams*, then use the Nutrition Facts label for the item you want to serve to make sure it weighs the same, or more than, the grain on the chart. See page 5.

Does not list a weight or size for the grain, then you do not need to check the size or weight of the product before using the chart.

Lists a size for the grain, such as *about 1 ¼" by 1 ½"*, then check if the item is the same size, or larger than, this amount. See page 6.

3

Find the column for the age of your participants and the meal or snack you are serving. This column lists the amount of a grain you will need to serve to meet the meal pattern requirement for grains.



Grain Item and Size

Pita Bread/Round
(whole grain-rich or enriched)
at least 56 grams*

Popcorn

Pretzel, Hard, Mini-Twist
(about 1 ¼" by 1 ½")**

1- through 5-year-olds
at Breakfast, Lunch,
Supper, Snack

Serve at Least
½ oz. eq., which equals
about...


¼ pita or 14 grams

1 ½ cups or 14 grams

7 twists or 11 grams





Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Bagel (entire bagel) at least 56 grams*	¼ bagel or 14 grams	½ bagel or 28 grams	1 bagel or 56 grams
Bagel, Mini (entire bagel) at least 28 grams*	½ bagel or 14 grams	1 bagel or 28 grams	2 bagels or 56 grams
Biscuit at least 28 grams*	½ biscuit or 14 grams	1 biscuit or 28 grams	2 biscuits or 56 grams
Bread (whole grain-rich or enriched) at least 28 grams*	½ slice or 14 grams	1 slice or 28 grams	2 slices or 56 grams
Bun or Roll (entire bun or roll) at least 28 grams*	½ bun/roll or 14 grams	1 bun/roll or 28 grams	2 buns/rolls or 56 grams
Cereal Grains (barley, bulgur, quinoa, etc.)	¼ cup cooked or 14 grams dry	½ cup cooked or 28 grams dry	1 cup cooked or 56 grams dry



Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
 Cracker, Graham (about 5" by 2 ½")**	1 cracker or 14 grams	2 crackers or 28 grams	4 crackers or 56 grams
Cracker, Round, Savory (about 1 ¾" across)**	4 crackers or 11 grams	7 crackers or 22 grams	14 crackers or 44 grams
Cracker, Saltine (about 2" by 2")**	4 crackers or 11 grams	8 crackers or 22 grams	16 crackers or 44 grams
Cracker, Thin Wheat, Square, Savory (about 1 ¼" by 1 ¼")**	6 crackers or 11 grams	12 crackers or 22 grams	23 crackers or 44 grams



Using the Grains Measuring Chart

The Grains Measuring Chart on pages 2-4 tells you how much of a grain item you need to serve to meet CACFP meal pattern requirements. To use this chart:


- 1 Find the grain you want to serve under the “Grain Item and Size” column.
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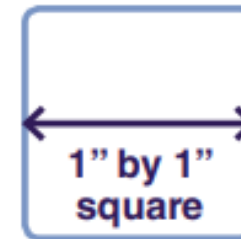
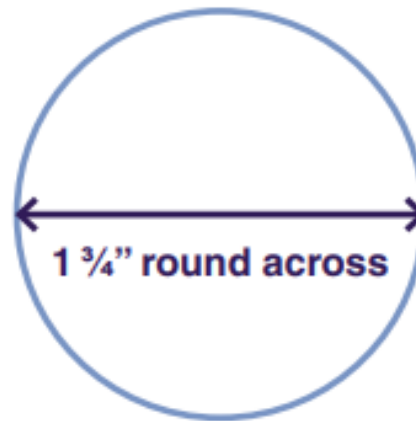
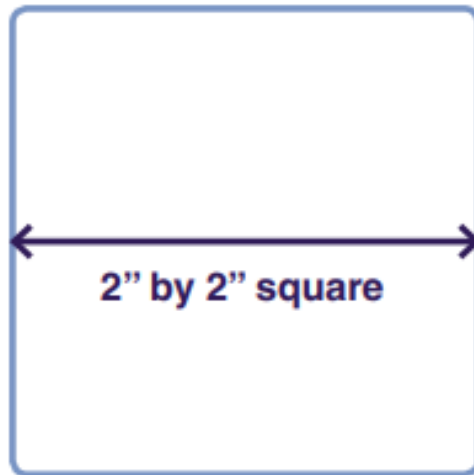
 Grain Item and Size	
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack
	Serve at Least ½ oz. eq., which equals about...
Pita Bread/Round (whole grain-rich or enriched) at least 56 grams*	¼ pita or 14 grams
Popcorn	1 ½ cups or 14 grams
Pretzel, Hard, Mini-Twist (about 1 ¼" by 1 ½")**	7 twists or 11 grams



Grains Measuring Tools


Compare your food to the guides below to see if it is the same size or larger than the item listed on the Grains Measuring Chart.

Guides appear as actual size when this worksheet is printed at 100% on standard 8 ½" by 11" paper.





Grains Measuring Chart for the Child and Adult Care Food Program

 Grain Item and Size	Age Group and Meal		
	1- through 5-year-olds at Breakfast, Lunch, Supper, Snack	6- through 18-year-olds at Breakfast, Lunch, Supper, Snack Adults at Snack only	Adults at Breakfast, Lunch, Supper
	Serve at Least ½ oz. eq., which equals about...	Serve at Least 1 oz. eq., which equals about...	Serve at Least 2 oz. eq., which equals about...
Cracker, Graham (about 5" by 2 ½")**	1 cracker or 14 grams	2 crackers or 28 grams	4 crackers or 56 grams
Cracker, Round, Savory (about 1 ¾" across)**	4 crackers or 11 grams	7 crackers or 22 grams	14 crackers or 44 grams
Cracker, Saltine (about 2" by 2")**	4 crackers or 11 grams	8 crackers or 22 grams	16 crackers or 44 grams
Cracker, Thin Wheat, Square, Savory (about 1 ¼" by 1 ¼")**	6 crackers or 11 grams	12 crackers or 22 grams	23 crackers or 44 grams

Recap

- ▶ Ounce Equivalent (Oz. Eq.) for grains began October 1, 2021
 - ▶ Production Records and Menus
- ▶ Serving sizes of grains are not significantly changing
- ▶ Use the provided tools and resources to help you with crediting

More Resources!

- ▶ Institute for Child Nutrition
- ▶ Recorded Grains Oz. Eq. Webinar
 - ▶ <https://www.youtube.com/watch?v=e1wFMNqtGOM>
 - ▶ <https://www.youtube.com/watch?v=GQXrmNLKIGM&t=3036s>
 - ▶ <https://www.fns.usda.gov/tn/exhibit-grains-tool-rescue>



**Hawaii
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mail: U.S. Department of Agriculture Office of the Assistant Secretary for Civil Rights 1400 Independence Avenue, SW Washington, D.C. 20250-9410; or

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