# EXHIBIT A: SCHOOL LUNCH AND BREAKFAST <br> WHOLE GRAIN-RICH OUNCE EQUIVALENCY (OZ EQ) REQUIREMENTS FOR SCHOOL MEAL PROGRAMS ${ }^{1,2}$ 

## OZ EQ FOR GROUP A

| 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. |

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## GROUP $B$

- Bagels
- Batter type coating
- Biscuits
- Breads (sliced whole wheat, French, Italian)
- Buns (hamburger and hot dog)
- Sweet Crackers 4 (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)


## GROUP C

- Cookies ${ }^{3}$ (plain - includes vanilla wafers)
- Cornbread
- Corn muffins
- Croissants
- Pancakes
- Pie crust (dessert pies 3, cobbler 3, fruit turnovers 4, and meat/meat alternate pies)
- Waffles
- Tact
$1 \mathrm{oz} \mathrm{eq}=22 \mathrm{gm}$ or 0.8 oz
$3 / 4 \mathrm{oz} \mathrm{eq}=17 \mathrm{gm}$ or 0.6 oz
$1 / 2 \mathrm{oz} \mathrm{eq}=11 \mathrm{gm}$ or 0.4 oz
$1 / 4 \mathrm{oz} \mathrm{eq}=6 \mathrm{gm}$ or 0.2 oz


## OZ EQ FOR CROUP C

$1 \mathrm{oz} \mathrm{eq}=34 \mathrm{gm}$ or 1.2 oz
$3 / 4 \mathrm{oz} \mathrm{eq}=26 \mathrm{gm}$ or 0.9 oz
$1 / 2 \mathrm{oz} \mathrm{eq} \mathrm{=} 17 \mathrm{gm}$ or 0.6 oz $1 / 4 \mathrm{oz} \mathrm{eq}=9 \mathrm{gm}$ 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.
${ }^{3}$ Allowed only as dessert at lunch as specified in \$210.10.
4 Allowed for desserts at lunch as specified in $\$ \mathbf{2 1 0 . 1 0}$, and for breakfasts served under the SBP.

OZ EA FOR CROUP D

- Doughnuts 4 (cake and yeast raised, unfrosted)
- Cereal bars, breakfast bars, granola bars ${ }^{4}$ (plain)
- Muffins (all, except com)
- Sweet roll 4 (unfrosted)
- Toaster pastry ${ }^{4}$ (unfrosted)
$1 \mathrm{oz} \mathrm{eq}=55 \mathrm{gm}$ or 2.0 oz
$3 / 4 \mathrm{oz} \mathrm{eq}=42 \mathrm{gm}$ or 1.5 oz
$1 / 2 \mathrm{oz} \mathrm{eq}=28 \mathrm{gm}$ or 1.0 oz
$1 / 4 \mathrm{oz} \mathrm{eq}=14 \mathrm{gm}$ or 0.5 oz


## 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)
cROUP F
- Cake ${ }^{3}$ (plain, unfrosted)
- Coffee cake 4


## OZ EQ FOR CROUP F

$1 \mathrm{oz} \mathrm{eq}=82 \mathrm{gm}$ or 2.9 oz
$3 / 4 \mathrm{oz} \mathrm{eq}=62 \mathrm{gm}$ or 2.2 oz
$1 / 2 \mathrm{oz}$ eq = 41 gm or 1.5 oz
$1 / 4 \mathrm{oz} \mathrm{eq}=21 \mathrm{gm}$ or 0.7 oz

- Brownies ${ }^{3}$ (plain)
- Cake ${ }^{3}$ (all varieties, frosted)
- Cereal Grains (barley, quinoa, etc)
- Breakfast cereals (cooked) 5, 6
- Bulgur or cracked wheat
- Macaroni (all shapes)
- Noodles (all varieties)
- Pasta (all shapes)
- Ravioli (noodle only)
- Rice (enriched white or brown)


## GROUP I

- Ready to eat breakfast cereal (cold, dry) 5,6


## OZ EQ FOR GROUP E

$1 \mathrm{oz} \mathrm{eq}=69 \mathrm{gm}$ or 2.4 oz
$3 / 4 \mathrm{oz} \mathrm{eq}=52 \mathrm{gm}$ or 1.8 oz
$1 / 2 \mathrm{oz} \mathrm{eq}=35 \mathrm{gm}$ or 1.2 oz
$1 / 4 \mathrm{oz} \mathrm{eq}=18 \mathrm{gm}$ or 0.6 oz

## OZ En FOR CROUP C

## GROUP H

GROUP G
$1 \mathrm{oz} \mathrm{eq}=125 \mathrm{gm}$ or 4.4 oz $3 / 4 \mathrm{oz} \mathrm{eq}=94 \mathrm{gm}$ or 3.3 oz $1 / 2 \mathrm{oz}$ өq $=63 \mathrm{gm}$ or 2.2 oz $1 / 4 \mathrm{oz} \mathrm{eq}=32 \mathrm{gm}$ or 1.1 oz

## OZEQ FOR GROUP H

$1 \mathrm{oz} \mathrm{eq}=1 / 2$ cup cooked or
1 ounce (28 g) dry

| croup I | OZ En For croup I |
| :---: | :---: |
| - Ready to eat breakfast cereal (cold, dry) 5,6 | $1 \mathrm{oz} \mathrm{eq}=1$ cup or 1 ounce for flakes and rounds <br> $1 \mathrm{oz} \mathrm{eq}=1.25$ cups or 1 ounce for puffed cereal <br> $1 \mathrm{oz} \mathrm{eq}=1 / 4$ cup or 1 ounce for granola |

5 Refer to program regulations for the appropriate serving size for supplements served to children aged 1 through 5 in the NSLP; and meals served to children ages 1 through 5 and adult participants in the CACFP. 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.

## Exhibit A Ranges

## Group A

$2 \mathrm{oz} \mathrm{eq}=44-49 \mathrm{gm}$
$13 / 4$ oz eq $=39-43 \mathrm{gm}$
$11 / 2$ oz eq $=33-38 \mathrm{gm}$
$11 / 4 \mathrm{oz} \mathrm{eq}=28-32 \mathrm{gm}$
$1 \mathrm{oz} \mathrm{eq}=\mathbf{2 2 - 2 7} \mathrm{gm}$
$3 / \mathrm{ozeq}^{\mathrm{oz}} \mathbf{1 7 - 2 1 \mathrm { gm }}$
$1 / 20 z$ eq $=11-16 \mathrm{gm}$
$1 / 40 z$ eq $=6-10 \mathrm{gm}$
Don't count $\leq \mathbf{5} \mathrm{gm}$
Group B
$3 \mathrm{oz} \mathrm{eq}=84-90 \mathrm{gm}$
$23 / 40 z$ eq $=77-83 \mathrm{gm}$
$21 / 20 z$ eq $=70-76 \mathrm{gm}$
$21 / 40 z$ eq $=63-69 \mathrm{gm}$
$2 \mathrm{oz} \mathrm{eq}=56-62 \mathrm{gm}$
$13 / 4 \mathrm{oz} \mathrm{eq}=49-55 \mathrm{gm}$
$11 / 2 \mathrm{oz} \mathrm{eq}=42-48 \mathrm{gm}$
$11 / 40 z$ eq $=35-41 \mathrm{gm}$
1 oz eq $=28-34 \mathrm{gm}$
$3 / 40 z$ eq $=21-27 \mathrm{gm}$
$1 / 2 \mathrm{oz} \mathrm{eq}=14-20 \mathrm{gm}$
$1 / 40 z$ eq $=7-13 \mathrm{gm}$
Don't count $\leq \mathbf{6 g m}$
Group C
$3 \mathrm{oz} \mathrm{eq}=102-111 \mathrm{gm}$
$23 / 4 \mathrm{oz} \mathrm{eq}=94-101 \mathrm{gm}$
$21 / 20 z$ eq $=85-93 \mathrm{gm}$
$21 / 40 z$ eq $=77-84 \mathrm{gm}$
2 oz өq $=68-76 \mathrm{gm}$
$13 / 0 z$ eq $=60-67 \mathrm{gm}$
$11 / 20 z$ eq $=51-59 \mathrm{gm}$
$11 / 40 z$ eq $=43-50 \mathrm{gm}$
$1 \mathrm{oz} \mathrm{eq}=34-42 \mathrm{gm}$
$3 / 4 \mathrm{oz} \mathrm{eq}=26-33 \mathrm{gm}$
$1 / 2 \mathrm{oz} \mathrm{eq}=17-25 \mathrm{gm}$
$1 / 40 z$ eq $=9-16 \mathrm{gm}$
Don't count $\leq \mathbf{8} \mathbf{g m}$

Group D
2 oz eq $=110-123 \mathrm{gm}$
$13 / 4 \mathrm{oz}$ eq $=97-109 \mathrm{gm}$
$11 / 20 z$ eq $=83-96 \mathrm{gm}$
$11 / 4 \mathrm{oz} \mathrm{eq}=69-82 \mathrm{gm}$
$1 \mathrm{oz} \mathrm{eq}=55-68 \mathrm{gm}$
$3 / 40 z$ eq $=42-54 \mathrm{gm}$
$1 / 2 \mathrm{oz} \mathrm{eq}=28-41 \mathrm{gm}$
$1 / 4 \mathrm{oz} \mathrm{eq}=14-27 \mathrm{gm}$
Don't count $\leq \mathbf{1 3} \mathbf{g m}$
Group $E$
$2 \mathrm{oz} \mathrm{eq}=138-155 \mathrm{gm}$
$13 / 0 z$ eq $=121-137 \mathrm{gm}$
$11 / 20 z$ eq $=104-120 \mathrm{gm}$
$11 / 4 \mathrm{oz} \mathrm{eq}=87-103 \mathrm{gm}$
$1 \mathrm{oz} \mathrm{eq}=69-86 \mathrm{gm}$
$3 / 4 \mathrm{oz}$ eq $=52-68 \mathrm{gm}$
$1 / 2 \mathrm{oz} \mathrm{eq}=35-51 \mathrm{gm}$
$1 / 4 \mathrm{oz} \mathrm{eq}=18-34 \mathrm{gm}$
Don't count $\leq 17 \mathrm{gm}$
Group $F$
$1 \mathrm{ozeq}=82-102 \mathrm{gm}$
$3 / \mathrm{oz} \mathrm{eq}=62-81 \mathrm{gm}$
$1 / 20 z$ eq $=41-61 \mathrm{gm}$
$1 / 4 o z$ eq $=21-40 \mathrm{gm}$
Don't count $\leq \mathbf{2 0} \mathbf{g m}$
Group G
$1 \mathrm{oz} \mathrm{eq}=125-156 \mathrm{gm}$
$3 / 4 \mathrm{oz} \mathrm{eq}=94-124 \mathrm{gm}$
$1 / 2 \mathrm{oz} \mathrm{eq}=63-93 \mathrm{gm}$
$1 / 4 \mathrm{oz} \mathrm{eq}=32-62 \mathrm{gm}$
Don't count $\leq \mathbf{3 1} \mathbf{~ g m}$

## Measurement References

## Volume Equivalents

| sp | 3 tsp | $z$ |
| :---: | :---: | :---: |
| 1/r cup | 2 Tbsp | $=1 \mathrm{fl} \mathrm{oz}$ |
| $1 / 4$ cup | 4 Tbsp | $=2 \mathrm{fl} \mathrm{oz}$ |
| $1 / 3$ cup | 5 Tbsp + 1 tsp | 2.65 fl oz |
| 3/8 cup | 6 Tbsp | $=3 \mathrm{fl} \mathrm{oz}$ |
| $1 / 2 \operatorname{cup}=$ | 8 Tbsp | 4 fl oz |
| \% cup $=$ | 10 Tbsp | $=5 \mathrm{fl} \mathrm{oz}$ |
| $3 / 3 \mathrm{cup}=$ | 10 Tbsp + 2 t | 5.3 fl oz |
| $3 / 4 \mathrm{cup}=$ | 12 Tbsp | $=6 \mathrm{fl} \mathrm{oz}$ |
| 7/8 cup = | 14 Tbsp | $=7 \mathrm{fl} \mathrm{oz}$ |
| 1 cup = | 16 Tbsp | 8 fl oz |
| 1 pint = | 2 cups | 16 fl oz |
| 1 quar | 2 pints | $=32 \mathrm{fl} \mathrm{oz}$ |
|  | 4 quarts | 128 fl |

## Equivalent Weights

$$
\begin{aligned}
& 16 \mathrm{oz}=1 \mathrm{lb}=1.000 \mathrm{lb} \\
& 12 \mathrm{oz}=3 / 4 \mathrm{lb}=0.750 \mathrm{lb} \\
& 8 \mathrm{oz}=1 / 2 \mathrm{lb}=0.500 \mathrm{lb} \\
& 4 \mathrm{oz}=1 / 4 \mathrm{lb}=0.250 \mathrm{lb} \\
& 1 \mathrm{oz}=1 / 16 \mathrm{lb}=0.063 \mathrm{lb}
\end{aligned}
$$

## Metric Conversion

| To Change | To | Multiply By |
| :--- | :--- | :--- |
| Ounces (oz) | Grams (g) | 28.35 |
| Pounds (lb) | Kilograms (kg) | 0.45 |
| Fluid ounces | Milliliters (ml) | 29.58 |
| Cups (c) | Liters (I) | 0.24 |

## Metric Equivalents

by Weight

```
1 oz = 28.35 gm
4 oz = 113.4 gm
8 oz = 226.8 gm
16 oz = 453.6 gm
    1 lb = 453.6 gm
2.2 lb = 1 kg
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Scoop Sizes

$$
\begin{aligned}
6 & =3 / 3 \operatorname{cup} \\
8 & =1 / 2 \operatorname{cup} \\
10 & =3 / 6 \operatorname{cup} \\
12 & =1 / 3 \operatorname{cup} \\
16 & =1 / 4 \operatorname{cup}
\end{aligned}
$$



## Fraction to Decimal Equivalents

$$
\begin{aligned}
& 1 / 3=0.125 \\
& 1 / 4=0.250 \\
& 1 / 3=0.333 \\
& 3 / 8=0.375 \\
& 1 / 2=0.500 \\
& 5 / 2=0.625 \\
& 2 / 3=0.666 \\
& 3 / 4=0.750 \\
& 1 / 8=0.875
\end{aligned}
$$

