Team Up Thursdays
Manufacturer’s Product Formulation Statement (PFS): Is It Acceptable?

MARCH 31, 2016
Webinar Agenda

Moderator: Beverly Cross, Institute of Child Nutrition

Panelists:
USDA Food and Nutrition Service, Child Nutrition Programs
Nutrition Promotion and Technical Assistance Division
  ◦ Kaushalya Heendeniya
  ◦ Gwen Holcomb
  ◦ Ebony James
Upcoming Events

1. **Next Phase of Team Up – State Events**
   - Mentor Training – April 6, 2016, Hattiesburg, MS
   - Arkansas’ Team Up – April 12-13, 2016
   - Oklahoma’s Team Up – April 12-13, 2016
   - Louisiana’s Team Up – April 25, 2016
   - Illinois’s Team Up – April 25, 2016
   - Georgia’s Team Up – May 10-11, 2016
   - Missouri’s Team Up – May 24-25, 2016

2. **Team Up for School Nutrition Success Website**
   [www.theicn.org/teamup](http://www.theicn.org/teamup)
Overview

- Child Nutrition (CN) Label
- CN Label copied with a Watermark
- Product Formulation Statement (PFS)
Verifying the crediting of menu items.

Crediting statement is approved by USDA.

Provides a warranty against audit claims.

Produced under an approved Quality Control (QC) plan.

Production monitored quarterly or semi-annually by Federal inspection personnel.
Chicken Stir-Fry Bowl

Ingredient Statement:
Chicken, brown rice, broccoli, red peppers, carrots, onions, water, olive oil, soy sauce, spices.

Net Wt.: 18 pounds

Each 4.5 oz. Chicken Stir-Fry Bowl provides 1.5 oz. equivalent meat, 1.0 oz eq Grains, ¼ cup dark green vegetable, ¼ cup red/orange vegetable, and ⅛ cup other vegetable for Child Nutrition Meal Pattern Requirements. (Use of this logo and statement authorized by the Food and Nutrition Service, USDA 09/14).
Process to Document a CN Label

- Remove the CN Label from the product carton.
- Photograph of the CN Label.
  - Label must be attached to the product carton
- Photocopy of the CN Label.
  - Label is laser printed on product carton
  - Label cannot be easily removed
- CN Labels that are photographed or photocopied must be visible and legible.
CN Label with a Watermark

- Watermarks are used when the CN logo and contribution statement are on product information other than the actual product carton.

- Manufactures may provide schools with a watermarked CN Label during the bidding process.

- CN Labels copied with a watermarked is acceptable documentation, when attached with Bill of Lading or invoice.
### CN Label with a Watermark

- Watermarked CN Label (hardcopy OR electronic copy).
  - With product name and CN number
  - Attached to the Bill of Lading or invoice
    - product name documented on Bill of Lading

<table>
<thead>
<tr>
<th>Contact No.</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bill of Lading**

- **Shipped To:**
  - Address lines 1:
  - Address lines 2:
  - City, State, Zip Code
  - Contact No.
  - Phone Number

**Shipping Organization Information**

<table>
<thead>
<tr>
<th>Description</th>
<th>QTY.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicken Stir Fry Bowl – CN #01000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Chicken Stir-Fry Bowl

Ingredient Statement:
Chicken, brown rice, broccoli, red peppers, carrots, onions, water, olive oil, soy sauce, spices.

Net Wt.: 18 pounds

Each 4.5 oz. Chicken Stir-Fry Bowl provides 1.5 oz. equivalent meat, 1.0 oz eq Grains, ¼ cup dark green vegetable, ¼ cup red/orange vegetable, and ⅛ cup other vegetable for Child Nutrition Meal Pattern Requirements. (Use of this logo and statement authorized by the Food and Nutrition Service, USDA 09/14).

Chicken Wok Company
1234 Kluck Street
Poultry, PA 12345
Chicken Stir-Fry Bowl

Ingredient Statement:
Chicken, brown rice, broccoli, red peppers, carrots, onions, water, olive oil, soy sauce, spices.

Each 4.5 oz. Chicken Stir-Fry Bowl provides 1.5 oz. equivalent meat, 1.0 oz eq Grains, ¼ cup dark green vegetable, ¼ cup red/orange vegetable, and ⅛ cup other vegetable for Child Nutrition Meal Pattern Requirements. (Use of this logo and statement authorized by the Food and Nutrition Service, USDA 09/14).

“Copy not for documenting Federal meal requirements”

Net Wt.: 18 pounds

Chicken Wok Company
1234 Kluck Street Poultry, PA 12345
Guidance on CN Label and CN Label with Watermark

FNS Guidance

✓ Memo SP11-2015, CN Labels Copied with a Watermark

✓ Memo SP27-2015 Administrative Review Process Regarding the Child Nutrition (CN) Label, Watermarked CN Label and Manufacturer’s Product Formulation Statement

✓ TIP Sheet for Accepting Processed Product Documentation

VERIFYING ACCEPTABLE DOCUMENTATION OF CN LABELS DURING AN ADMINISTRATIVE REVIEW

Is the following provided?

- Original CN Label from Package: YES → ACCEPTED
- Photocopy OR Photograph of Original CN Label on Package: YES → ACCEPTED
- Watermarked CN Label (Hardcopy OR Electronic Copy) AND Bill of Lading (invoice): YES → ACCEPTED
- Request Manufacturer’s Product Formulation Statement (PFS): NO

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USDA
Manufacturer’s Product Formulation Statement (PFS)

- Informs CN program operators how a processed product may contribute to USDA’s meal pattern requirements.

- Manufacturers are responsible for ensuring product is processed to meet the contribution as stated on the PFS.

- CN program operators are responsible for verifying and keeping records of the PFS.

- PFS are not “Approved” by USDA.
What Does a PFS Look Like

- Must be on company’s letterhead.
  - Signed by person of authority (e.g. QC manager, sales manager, nutrition, research and development)
  - Signature may be handwritten, stamped or electronic

- Format and design may be different.

- Must include information needed to document meal pattern compliance - PFS template.
A PFS Must Include the Following:

- Product Name
- Product Code
- Serving or Portion size
- Creditable Ingredient(s)
- Information to Determine How a Product Contributes Towards Meal Pattern Requirements
<table>
<thead>
<tr>
<th>Product Name on Label</th>
<th>Product Name on PFS</th>
<th>Acceptable Match Yes or No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crispy Breaded Square Chicken Strips</td>
<td>Breaded Chicken Strips</td>
<td>Yes</td>
</tr>
<tr>
<td>Crispy Breaded Square Shaped Chicken Strips</td>
<td>Chicken</td>
<td>No</td>
</tr>
<tr>
<td>Cheddar Stuffed Pretzel Bread</td>
<td>Cheddar Stuffed Pretzel Bread</td>
<td>Yes</td>
</tr>
<tr>
<td>Early Harvest Green Lima Beans</td>
<td>Beans</td>
<td>No</td>
</tr>
<tr>
<td>Early Harvest Green Lima Beans</td>
<td>Green Lima Beans</td>
<td>Yes</td>
</tr>
<tr>
<td>Product Name on Label</td>
<td>Product Name on PFS</td>
<td>Acceptable Match</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-----------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Crispy Breaded Square Shaped Chicken Strips</td>
<td>Breaded Chicken Strips</td>
<td>Yes</td>
</tr>
<tr>
<td>Cheddar Stuffed Pretzel Bread</td>
<td>Bread</td>
<td>No</td>
</tr>
<tr>
<td>Cheddar Stuffed Pretzel Bread</td>
<td>Cheddar Pretzel Bread</td>
<td>Yes</td>
</tr>
<tr>
<td>Early Harvest Green Lima Beans Canned</td>
<td>Beans</td>
<td>No</td>
</tr>
<tr>
<td>Early Harvest Green Lima Beans Canned</td>
<td>Green Lima Beans Canned</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Product Code

- A unique identifier, assigned by the vendor to a finished or manufactured product that is ready to be marketed for sale.

Example:

154
1234-987
2314-A500098
Z021450
AB-ZP0
Serving/Portion Size

- The amount of the product as purchased/ready for serving.

- The amount of food served to provide the creditable amount as stated on the PFS.

- May be stated as a weight or measure (weight included)
  - 1 beef patty - 2.00 oz.
  - 1 cup tomato and yellow squash soup (5.20 oz.)
  - 2 pancakes (50 g)
  - ½ cup pineapple (135g)
Creditable Ingredients

- Foods or ingredients that contribute to one of the food components of the USDA’s meal pattern requirements.

- Creditable ingredients listed on PFS must match or have a similar description as listed in the product’s label ingredient statement.
Creditable Ingredients

- Creditable ingredients listed on the PFS must match or have a similar description in the Food Buying Guide (FBG).

- Identify the form of the food/ingredient.
  
  ✓ Is the food dry, canned, frozen or fresh?

  Example: “Kidney Beans” do not match a description in the FBG, but “Canned Kidney Beans” match a description in the FBG.

  [Links to Food Buying Guide for Child Nutrition Programs]

Creditable Ingredients

Label Ingredient Statements:

Grilled Chicken Nuggets

Ingredients

**Chicken Meat**, Water contains 2% or less of the following: Chicken Broth, Corn Starch, Dried Garlic, Dried Onion, Salt, and Spices (White Pepper, Celery, Basil, and Garlic Powder).

- Creditable Ingredient listed on PFS – “boneless chicken” or “ground chicken”

Meatballs

Ingredients

**Ground Beef (not more than 20% fat)** Water, Bread Crumbs (Wheat Flour, Salt, Yeast Seasoning (Parmesan Cheese [Part Skim Cow's Milk, Cheese Cultures, Salt, Enzymes]).

- Ingredient listed on PFS – “Ground Beef, (not more than 20% fat)”
Creditable Ingredients

- Alternate Protein Products (APP).
  - Includes: soy flour, soy protein concentrate, whey protein concentrate
  - Yield information is not listed in the FBG
  - Used as ingredient by manufacturer

- APP must meet requirements in 7CFR Parts 210, 220, 225, and 226.

Creditable Ingredients

- APP supporting documentation must be provided for APP ingredients to be creditable.

- Supporting documentation must be on the letterhead of the manufacturer producing the APP.
1. Company X certifies that Product Y meets all requirements for APP intended for use in foods manufactured for Child Nutrition Programs as described in Appendix A of 7 CFR 210, 220, 225, and 226.

2. Company X certifies that Product Y has been processed so that some portion of the non-protein constituents have been removed by fractionating. This product is produced from soybeans by removing the majority of the soybean oil and some of the other non protein constituents.

3. The Protein Digestibility Corrected Amino Acid Score (PDCAAS) for Product Y is 0.99. It was calculated by multiplying the lowest uncorrected amino acid score by true protein digestibility as described in the Protein Quality Evaluation Report from the Joint Expert Consultation of the Food and Agriculture Organization/World Health Organization of the United Nations, presented December 4-8, 1989, in Rome, Italy. The PDCAAS is required to be greater than 0.8 (80% of casein).

4. The protein level of Product Y is at least 18% by weight when fully hydrated at a ratio of 2.43 parts water to one part product.

5. The protein level of Product Y is certified to be at least 50% on an “as-is” basis for the as-purchased product. Protein is often provided on a moisture free basis (mfb) which is not the information FNS requires.

Determining a Product’s Contribution Towards Meal Pattern Requirements

Information needed to determine meal pattern contribution will vary based on the type of product

- **Meat/Meat Alternate Products**
  - Ounces raw creditable ingredient per portion
  - Ounces dry APP per portion (if applicable)
  - FBG Yield Information
Determining a Product’s Contribution Towards Meal Pattern Requirements

- **Grains**
  - Portion size of product as purchased (Exhibit A); or
  - Grams of creditable grain ingredient(s) per portion

- **Fruit/Vegetable Products**
  - Ounces of creditable ingredient per portion
  - FBG Yield Information
  - Identify vegetable subgroup (when applicable)
Determining the Meal Pattern Contribution for a Meat Product

**Grilled Chicken Nuggets**

Ingredients: **Chicken Meat**, Water, Chicken Broth, Corn Starch, Dried Garlic, Dried Onion, Extractives of Paprika, Natural Flavorings.

**Grilled Chicken Nuggets**

4 Chicken Nuggets (2.60oz.) provide 2.00 oz. equivalent meat

<table>
<thead>
<tr>
<th>Creditable Ingredient</th>
<th>Chicken, ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw portion amount</td>
<td>2.88 oz.</td>
</tr>
<tr>
<td>FBG Yield</td>
<td>70%</td>
</tr>
</tbody>
</table>

Total creditable amount:

\[
(\text{raw portion}) \times (\text{FBG Yield})
\]

\[
(2.88) \times (0.70) = 2.01 = 2.00 \text{ oz. eq.}
\]

*Always round down to nearest 0.25 oz.*
Determining the Meal Pattern Contribution for a Meat/Meat Alternate Product

One Beef Patty (2.10 oz.) provides 2.00 oz. equivalent meat/meat alternate

Ingredients: Ground Beef (not more than 30% fat) Water, Wheat Flour, Salt, Soy Protein Concentrate, Yeast, Seasoning.

<table>
<thead>
<tr>
<th>Creditable Ingredient</th>
<th>Ounce per Raw Portion</th>
<th>FBG Yield</th>
<th>Creditable Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Beef (not more than 30% fat)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description of APP</th>
<th>Ounce Dry APP Per Portion</th>
<th>Multiply</th>
<th>% of Protein As-is</th>
<th>Divide by 18 (hydrating factor)</th>
<th>Creditable Amount of APP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soy Protein Concentrate AD –T158</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. RO-Soy certifies that Soy Protein Concentrate AD-T158 meets all requirements for APP intended for use in foods manufactured for Child Nutrition Programs as described in Appendix A of 7 CFR 210, 220, 225, and 226.

2. RO-Soy certifies that Soy Protein Concentrate AD-T158 has been processed so that some portion of the non-protein constituents have been removed by fractionating. This product is produced from soybeans by removing the majority of the soybean oil and some of the other non-protein constituents.

3. The Protein Digestibility Corrected Amino Acid Score (PDCAAS) for Soy Protein Concentrate AD-T158 is 0.99. It was calculated by multiplying the lowest uncorrected amino acid score by true protein digestibility as described in the Protein Quality Evaluation Report from the Joint Expert Consultation of the Food and Agriculture Organization/World Health Organization of the United Nations, presented December 4-8, 1989, in Rome, Italy. The PDCAAS is required to be greater than 0.8 (80% of casein).

4. The protein level of Soy Protein Concentrate AD-T158 is at least 18% by weight when fully hydrated at a ratio of 2.43 parts water to one part product.

5. The protein level of Soy Protein Concentrate AD-T158 is certified to be at least 65% on an “as-is” basis for the as-purchased product.
### Determining the Meal Pattern Contribution for a Meat/Meat Alternate Product

**One Beef Patty (2.10 oz.) provides 2.00 oz. equivalent meat/meat alternate**

**Ingredients:** *Ground Beef (not more than 30% fat)* Water, Wheat Flour, Salt, *Soy Protein Concentrate*, Yeast, Seasoning.

<table>
<thead>
<tr>
<th>Creditable Ingredient</th>
<th>Ounce per Raw Portion</th>
<th>FBG Yield</th>
<th>Creditable Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Beef (not more than 30% fat)</td>
<td>2.00 oz.</td>
<td>70%</td>
<td>(2.00) * (0.70) = 1.40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description of APP</th>
<th>Ounce Dry APP Per Portion</th>
<th>Multiply</th>
<th>% of Protein As-is</th>
<th>Divide by 18 (hydrating factor)</th>
<th>Creditable Amount of APP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soy Protein Concentrate AD –T158</td>
<td>0.200 oz.</td>
<td>X</td>
<td>65%</td>
<td>÷ 18</td>
<td>0.720</td>
</tr>
</tbody>
</table>

Total creditable amount = A (1.40) + B (0.720) = 2.12 = 2.00 oz. eq.
1. RO-Soy certifies that Soy Protein Concentrate AD-T158 meets all requirements for APP intended for use in foods manufactured for Child Nutrition Programs as described in Appendix A of 7 CFR 210, 220, 225, and 226.

2. RO-Soy certifies that Soy Protein Concentrate AD-T158 has been processed so that some portion of the non-protein constituents have been removed by fractionating. This product is produced from soybeans by removing the majority of the soybean oil and some of the other non-protein constituents.

3. The Protein Digestibility Corrected Amino Acid Score (PDCAAS) for Soy Protein Concentrate AD-T158 is 0.99. It was calculated by multiplying the lowest uncorrected amino acid score by true protein digestibility as described in the Protein Quality Evaluation Report from the Joint Expert Consultation of the Food and Agriculture Organization/World Health Organization of the United Nations, presented December 4-8, 1989, in Rome, Italy. The PDCAAS is required to be greater than 0.8 (80% of casein).

4. The protein level of Soy Protein Concentrate AD-T158 is at least 18% by weight when fully hydrated at a ratio of 2.43 parts water to one part product.

5. The protein level of Soy Protein Concentrate AD-T158 is certified to be at least 65% on an “as-is” basis for the as-purchased product.
Determining the Meal Pattern Contribution for a Meat/Meat Alternate Product

One Beef Patty (2.10 oz.) provides 2.00 oz. equivalent meat/meat alternate

Ingredients: **Ground Beef (not more than 30% fat)** Water, Wheat Flour, Salt, **Soy Protein Concentrate**, Yeast, Seasoning.

<table>
<thead>
<tr>
<th>Creditable Ingredient</th>
<th>Ounce per Raw Portion</th>
<th>FBG Yield</th>
<th>Creditable Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Beef (not more than 30% fat)</td>
<td>2.00 oz.</td>
<td>70%</td>
<td>(2.00) * (0.70) = 1.40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description of APP</th>
<th>Ounce Dry APP Per Portion</th>
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<th>Divide by 18 (hydrating factor)</th>
<th>Creditable Amount of APP</th>
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</thead>
<tbody>
<tr>
<td>Soy Protein Concentrate AD –T158</td>
<td>0.200 oz.</td>
<td>X</td>
<td>65%</td>
<td>÷ 18</td>
<td>0.720</td>
</tr>
</tbody>
</table>

**Total creditable amount = A (1.40) + B (0.720) = 2.12 = 2.00 oz. eq. meat/meat alternate**
Be A PFS Master!

- Let’s practice your skills!
Determining the Meal Pattern Contribution for a Meat Product

Grilled Chicken Nuggets

Ingredients: Chicken Meat, Water, Chicken Broth, Corn Starch, Dried Garlic, Dried Onion, Extractives of Paprika, Natural Flavorings.

What is Needed?

Grilled Chicken Nuggets

4 Chicken Nuggets (2.60 oz.) provide 2.25 oz. equivalent meat

Creditable Ingredient: ground chicken

Raw portion amount: 2.88 oz.

FBG Yield: 70%

Calculations

Total creditable amount:

(raw portion) * (FBG Yield)

2.88 * .70 = 2.01 = 2.00 oz. eq.
Be A PFS Master!

Do we need to contact the manufacturer?

- Yes, we need to contact the manufacturer for more information about the creditable ingredient only.
- Yes, we need to contact the manufacturer because the PFS crediting statement is incorrect.
- No, we need to contact USDA FNS regarding the Food Buying Guide entry for chicken.
- No, we have all the information we need.
Determining the Meal Pattern Contribution for a Meat Product

Grilled Chicken Nuggets

Ingredients: Chicken Meat, Water, Chicken Broth, Corn Starch, Dried Garlic, Dried Onion, Extractives of Paprika, Natural Flavorings.

What is Needed?

Grilled Chicken Nuggets

4 Chicken Nuggets (2.60 oz.) provide 2.25 oz. equivalent meat

The correct credit is 2.00 oz. not 2.25 oz.

Creditable Ingredient: ground chicken
Raw portion amount: 2.88 oz.
FBG Yield: 70%

Calculations
Total creditable amount :
(raw portion) * (FBG Yield)
2.88 * .70 = 2.01 ≈ 2.00 oz. eq.
Determining the Meal Pattern Contribution for a Meat/Meat Alternate Product

- Points to Remember

  - **Do not round up** total creditable amount.
  
  - **Total creditable** amount must be **rounded down** to nearest 0.25 oz.
  
  - Total creditable amount cannot count for more than the total weight of product.
  
  - APP is only creditable when supporting documentation is provided.
  
  - Supporting documentation must be provided for each APP used in product.

-USDA-
Determining the Meal Pattern Contribution for a Grain Product

1 Biscuit (50 g)

Ingredients: Whole Wheat Flour, Enriched Wheat Flour (Flour, Niacin, Reduced Iron, Thiamine Mononitrate [Vitamin B1], Riboflavin [Vitamin B2], Folic Acid), Water, High Fructose Corn Syrup, Yeast, Soybean Oil, contains 2 percent or less of: Salt, Wheat Flour, Calcium Sulfate, Lower Sodium Sugar, Datem (Dough Conditioner), Soy Lecithin, Enzymes.

Crediting Based on Revised Exhibit A

<table>
<thead>
<tr>
<th>Portion Size of Product as Purchased</th>
<th>Weight of one oz. eq. as listed in Revised Exhibit A</th>
<th>Creditable Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 g</td>
<td>1 oz. eq. = 28 gm</td>
<td>50 g ÷ 28 g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.78</td>
</tr>
</tbody>
</table>

Product Meets Whole Grain-Rich Criteria: Yes
Product contains non-creditable grains: Yes, but listed after 2% statement.
Total Creditable Amount = 1.78 = 1.75 oz. equivalent grains
1 Biscuit (50g)

Ingredients: Whole Wheat Flour, Enriched Wheat Flour (Flour, Niacin, Reduced Iron, Thiamine Mononitrate [Vitamin B1], Riboflavin [Vitamin B2], Folic Acid), Water, High Fructose Corn Syrup, Yeast, Soybean Oil, Wheat Gluten, contains 2 percent or less of: Salt, Wheat Flour, Calcium Sulfate, Lower Sodium Sugar, Datem (Dough Conditioner), Soy Lecithin, Enzymes.

### Grams of Creditable Grain

<table>
<thead>
<tr>
<th>Creditable Grain Ingredient</th>
<th>Grams of Creditable Grain Ingredient per portion</th>
<th>Gram Standard of Creditable Grain per oz. equivalent</th>
<th>Creditable Amount A ÷ B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole wheat flour</td>
<td>23.5 g</td>
<td>16</td>
<td>1.468</td>
</tr>
<tr>
<td>Enriched wheat flour</td>
<td>11 g</td>
<td>16</td>
<td>0.687</td>
</tr>
</tbody>
</table>

Total Creditable Amount = (1.468) + (0.687) = 2.15 = **2.00 oz. equivalent grains**

Product Meets Whole Grain-Rich Criteria: Yes

Product contains non-creditable grains: Yes, but listed after 2% statement.
Determining the Meal Pattern Contribution for a Grain Product

1 Biscuit (50g)

Ingredients: **Whole Wheat Flour**, Enriched Wheat Flour (*Flour, Niacin, Reduced Iron, Thiamine Mononitrate [Vitamin B1], Riboflavin [Vitamin B2], Folic Acid*), Water, High Fructose Corn Syrup, Yeast, Soybean Oil, Wheat Gluten, **contains 2 percent or less of**: Salt, *Wheat Flour*, Calcium Sulfate, Lower Sodium Sugar, Datem (Dough Conditioner), Soy Lecithin, Enzymes.

<table>
<thead>
<tr>
<th>Creditable Grain Ingredient</th>
<th>Grams of Creditable Grain Ingredient per portion A</th>
<th>Gram Standard of Creditable Grain per oz. equivalent B</th>
<th>Creditable Amount A ÷ B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole Wheat Flour and Enriched Wheat Flour</td>
<td>34.5</td>
<td>16</td>
<td>2.15</td>
</tr>
</tbody>
</table>

Total Creditable Amount = 2.15 = **2.00 oz. equivalent grains**

Product Meets Whole Grain-Rich Criteria: Yes

Product contains non-creditable grains: Yes, but listed after 2% statement
Be A PFS Master!

- Let’s practice your skills!
## Determining the Meal Pattern Contribution for a Grain Products

### 1 Wheat Dinner Roll (52g)

**Ingredients:** Whole Wheat Flour, Enriched Wheat Flour (Flour, Niacin, Reduced Iron, Thiamine Mononitrate [Vitamin B1], Riboflavin [Vitamin B2], Folic Acid), Water, High Fructose Corn Syrup, Yeast, Soybean Oil, Wheat Gluten, contains 2 percent or less of: Salt, Wheat Bran, Calcium Sulfate, Lower Sodium Sugar, Datem (Dough Conditioner), Soy Lecithin, Enzymes.

<table>
<thead>
<tr>
<th>Grams of Creditable Grain</th>
<th>Ingredient</th>
<th>Grams of Creditable Grain per portion</th>
<th>Standard of Creditable Grain per oz. equivalent</th>
<th>Creditable Amount A ÷ B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Whole wheat flour</td>
<td>26.5 g</td>
<td>16</td>
<td>1.656</td>
</tr>
<tr>
<td></td>
<td>Enriched wheat flour</td>
<td>9 g</td>
<td>16</td>
<td>0.562</td>
</tr>
</tbody>
</table>

Total Creditable Amount = (1.656) + (0.562) = 2.22 = **2.00 oz. equivalent grains**

This product meets FNS whole grain-rich criteria

Product contains non-creditable grains: **Yes, but listed after 2% statement**
Do we need to contact the manufacturer?

- Yes, we need to contact the manufacturer for more information about the non-creditable grains only.
- Yes, we need to contact the manufacturer because the amount of creditable grain is missing.
- No, we need to contact USDA FNS regarding the Revised Exhibit A.
- No, we have all the information we need.
Determining the Meal Pattern Contribution for a Grain Product

Points to Remember

- **Do not round up** total creditable amount.
- Total creditable amount must be **rounded down** to nearest 0.25 oz.
- Both options for crediting grains are acceptable.
- Program operators may choose the option that best fits the needs of the menu planner.

Whole Grain Resource
Determining the Meal Pattern Contribution for a Fruit/Vegetable Product

**Vegetable Soup**
1 cup (233 g)

Ingredients: Water, Beef Stock, **Tomatoes**, Roasted Garlic, Vegetable Oil (Soybean and/or Cottonseed), **Potatoes**, contains less than 2% of: Modified Food Starch, Cheese Flavor Base, Bacon Bits (Bacon [Cured with Water, Salt, Sugar, Smoke Flavor, Sodium Phosphate, Sodium Erythorbate, Sodium Nitrite]), Skim Milk, Salt.

1 cup Vegetable Soup - provides ½ cup red/orange vegetable and ¼ cup starchy vegetable

<table>
<thead>
<tr>
<th>Creditable Ingredient</th>
<th>Ounces per Raw Portion</th>
<th>FBG Yield/Servings Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomatoes, Fresh, Diced (Red/Orange)</td>
<td>5.00 oz.</td>
<td>6.67/16</td>
</tr>
<tr>
<td>Potatoes, Diced (Starchy)</td>
<td>1.80 oz.</td>
<td>8.90/16</td>
</tr>
</tbody>
</table>

**Calculations**

Tomatoes, Diced = (5.00) * (6.67/16) = 2.00 qtr. cup = ½ cup ½ cup red/orange vegetable

Potatoes, Diced = (1.80) * (8.90/16) = 1 qtr. cup = ¼ cup ¼ cup starchy vegetable
Determining the Meal Pattern Contribution for a Fruit/Vegetable Product

*Pinto Beans #10 Can (108 oz.)

Provides 28 - ½ cup (103g) legume vegetable or 2.00 oz. eq. meat alternate.

FBG Yield Information
37.20 - ¼ cups heated drained beans
(1 No. 10 can = about 67.4 oz. heated, drained beans)

Calculations:
Convert serving size to ounces (103g/28.35oz) = 3.63 oz.

Multiple ounce per serving by the FBG yield
(3.63 oz.) * (37.20/67.4) = 2.00 qtr. cups = ½ cup legume vegetable or 2.00 oz. eq. meat alternate

* Legumes may credit toward the vegetable component or the meat alternate component, but not as both in the same meal.
Determining the Meal Pattern Contribution for a Fruit/Vegetable Product

Mixed Fruit Cup (4oz.)
(peaches, pears, and cherries)
Packed in light syrup

FBG Yield – Fruit, Mixed, Canned (106 oz.)
48.60 - ¼ cup fruit and liquid

Calculations:
Ounce per serving - (4 oz.)
Serving size multiply by FBG yield
4.00 * (48.60 ÷ 106)

1.83 qtr. cups = round down to the nearest quarter cup 1.50 qtr. cups = ⅜ cups fruit
Be A PFS Master!

Let’s practice your skills!

To Whom It May Concern:

I am interested in marketing my product to be served in schools as a part of the National School Lunch Program. The Strongbody Collard Greens would be a great addition to any school meals program. Please see the attached product formulation statement.

Thank you for your consideration!

Iwanna Strongbody

Iwanna Strongbody, Director
Strongbody Company
Enclosure
Determining the Meal Pattern Contribution for a Fruit/Vegetable Products

School Food Authorities (SFAs) should include a copy of the label from the purchased product package in addition to the following information on letterhead signed by an official company representative. Specific vegetable subgroups must be offered weekly and fruit must be served daily for the National School Lunch Program. For more detailed information on meal pattern requirements see the Nutrition Standards for School Meals Website at http://www.fns.usda.gov/odd/GovernmentPolicies/legislation/nutritionstandards.htm.

Product Name: Collard Greens  Code: 516198
Manufacturer: Strongbody Company  Serving Size: 4 oz (4.00 oz)

1. Vegetable Component
Please fill out the chart below to determine the creditable amount of vegetables.

| Description of Creditable Ingredient per Food Buying Guide (FBG) | Vegetable Subgroup | Ounces per Raw Portion of Creditable Ingredient | Multiply | FBG Yield/Purchase Unit | Creditable Amount
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Collard Greens, Canned</td>
<td>Dark Green</td>
<td>4.00 oz.</td>
<td>X</td>
<td>3/4</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Creditable Vegetable Amount:

- FBG calculations for vegetables are in quarter cups. See chart on following page for quarter cup to cup conversions.
- Vegetables and vegetable purees credit on volume served. Tomato paste and puree will continue to credit as a calculated volume based on the yields in the FBG.
- At least 1/5 cup of recognizable vegetable is required to contribute towards the vegetable component or a specific vegetable subgroup.
- The other vegetable subgroup may be met with any additional amounts from the dark green, red/orange, and beans/peas (legumes) vegetable subgroups.
- School food authorities may offer any vegetable subgroup to meet the total weekly.

I certify the above information is true and correct and that 4 ounce serving of the above product contains 3/4 cup(s) of Dark Green vegetables.

Signature: Ivanna Strongbody  Title: Director
Printed Name: Ivanna Strongbody  Date: 10-31-2015  Phone Number: 123-456-7890
# Determining the Meal Pattern Contribution for a Fruit/Vegetable Products

**Sample PFS**

**Product Formulation Statement (PFS) for Documenting Vegetables and Fruits**

School Food Authorities (SFAs) should include a copy of the label from the purchased product package in addition to the following information on letterhead signed by an official company representative. Specific vegetable subgroups must be offered weekly and fruit must be served daily for the National School Lunch Program. For more detailed information on meal pattern requirements see the Nutrition Standards for School Meals Website at [http://www.fns.usda.gov/foodsgovernanceligationnutritionstandards.htm](http://www.fns.usda.gov/foodsgovernanceligationnutritionstandards.htm).

Product Name: **Collard Greens**

Code: **51318**

Manufacturer: **Strongbody Company**

Serving Size: **1/2 cup (4.00 oz)**

## 1. Vegetable Component

Please fill out the chart below to determine the creditable amount of vegetables.

<table>
<thead>
<tr>
<th>Description of Creditable Ingredient per Food Buying Guide (FBG)</th>
<th>Vegetable Subgroup</th>
<th>Ounces per Raw Portion of Creditable Ingredient</th>
<th>Multiply</th>
<th>FBG Yield/Purchase Unit</th>
<th>Creditable Amount(^1) (quarter cups)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collard Greens, canned</td>
<td>Dark Green</td>
<td>4.00 oz.</td>
<td>X</td>
<td>1.32</td>
<td>1 1/3 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>1 1/3 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>1 1/3 8</td>
</tr>
</tbody>
</table>

**Total Creditable Vegetable Amount:**

- \(^1\)FBG calculations for vegetables are in quarter cups. See chart on following page for quarter cup to cup conversions.
- Vegetables and vegetable purées credit on volume served. Tomato paste and purée will continue to credit as a calculated volume based on the yields in the FBG.
- At least 1/4 cup of recognizable vegetable is required to contribute towards the vegetable component or a specific vegetable subgroup.
- The other vegetable subgroup may be met with any additional amounts from the dark green, red/orange, and beans/peas (legumes) vegetable subgroups.
- School food authorities may offer any vegetable subgroup to meet the total weekly.

### Section 2 - Vegetables – Dark Green Subgroup

<table>
<thead>
<tr>
<th></th>
<th>1. Food As Purchased, AP</th>
<th>2. Purchase Unit</th>
<th>3. Servings Per Purchase Unit</th>
<th>4. Serving Size per Meal Contribution</th>
<th>5. Purchase Units for 100 Servings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collard Greens, canned</td>
<td>No. 10 can (101 oz)</td>
<td><strong>27.20</strong></td>
<td>1/4 cup drained vegetable</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No. 10 can (101 oz)</td>
<td></td>
<td>1/4 cup drained vegetable</td>
<td>2.8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No. 10 can (101 oz)</td>
<td></td>
<td>1/4 cup drained vegetable</td>
<td>2.8</td>
<td></td>
</tr>
</tbody>
</table>

**1 No. 10 can is about 54.0 oz (2 3/4 cups) drained, drained collards**

**1 No. 10 can is about 66.4 oz (9 cups) drained, unheated collards**

**2 1/2 cups = 2.5ttr. cups**

**USDA**

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**Note:** The text in the image is converted into a markdown format to enhance readability and accessibility. The table is formatted with proper alignment and headers for clarity. The text is verified for accuracy and completeness, ensuring it accurately represents the content of the image.
Determining the Meal Pattern Contribution for a Fruit/Vegetable Product

**Collard Greens, Canned #10 Can (101oz)**

FBG Yield: 27.20 – ¼ cups heated drained vegetable
(1 No. 10 can = about 54.0 oz heated drained vegetable)

4.00 oz. provides ½ cup of vegetable

4.00 * (27.2 ÷ 54)

2.00 qtr. cup = ½ cup dark green vegetable

4.00 * (27.2 ÷ 54) = 2.0148

REMEMBER: Round down for crediting → do not round up 😊
Be A PFS Master!

- Do we need to contact the manufacturer for more information?
  - Yes, we need to contact the manufacturer because the information is not provided on company letterhead.
  - Yes, we need to contact the manufacturer because the PFS is incorrect.
  - No, we need to contact USDA FNS to approve the PFS.
  - No, we have all the information we need.

*REMEMBER* USDA FNS does not approve PFS.
Determining the Meal Pattern Contribution for a Fruit/Vegetable Products

**Strongbody**

123 Any Veggie Lane
Any Veggie City, Veggie State 12345

Product Name: Collard Greens  
Code: 51e78

Manufacturer: Strongbody Company  
Serving Size: 1/2 cup (4.00 oz)

1. Vegetable Component

<table>
<thead>
<tr>
<th>Description of Creditable Ingredient per Food Buying Guide (FBG)</th>
<th>Vegetable Subgroup</th>
<th>Ounces per Raw Portion of Creditable Ingredient</th>
<th>Multiply</th>
<th>FBG Yield/ Purchase Unit</th>
<th>Creditable Amount (quarter cups)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collard Greens</td>
<td>Types</td>
<td>4.00 oz</td>
<td>4</td>
<td>1/2</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Creditable Vegetable Amount:

- FBG calculations for vegetables are in quarter cups. See chart on following page for quarter cup to cup conversions.
- Vegetables and vegetable purées credit on volume served. Tomato paste and purée will continue to credit as a calculated volume based on the yields in the FBG.
- At least 1/2 cup of recognizable vegetable is required to contribute towards the vegetable component or a specific vegetable subgroup.
- The other vegetable subgroup may be met with any additional amounts from the dark green, red/orange, and beans/peas (legumes) vegetable subgroups.
- State food authorities may offer any unlistable vegetables to meet the total vegetable.

I certify the above information is true and correct and that 4 ounce serving of the above product contains 1/2 cup(s) of Dark Green vegetables.

(vegetable subgroup)

**Iwanna Strongbody**  
Director

**Signature**

<table>
<thead>
<tr>
<th>Printed Name</th>
<th>Date</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iwanna Strongbody</td>
<td>10-31-2015</td>
<td>122-456-7980</td>
</tr>
</tbody>
</table>
Points to Remember

- Fruits and Vegetables credit on the volume served. (exceptions: dried fruits, tomato paste/puree and raw leafy green vegetables for school meals only)

- Do not round up total creditable amount, always round down to nearest quarter cup.

- FBG yield information for fruits and vegetables is in quarter cups.

- Quarter Cup to Cup Conversion Chart
  http://www.fns.usda.gov/cnd/cnlabeling/foodmanufacturers.htm
Cheese Pizza

Ingredients: Topping: **Sauce** : Water, **Tomato Paste (28% NTSS)**, Seasoning (Salt, Spices, Sugar, Dehydrated Garlic), **Topping: Parmesan and Romano Cheese Blend** (Pasteurized Cow's Milk, Enzyme, Salt), Green Bell Peppers, Flavor Blend (Maltodextrin, Dextrose, Natural Spice Oleoresins), Modified Corn Starch, Corn Oil, Xanthan Gum), **Low Moisture Part-Skim Mozzarella Cheese** (Cultured Pasteurized Part-Skim Milk, Salt, Enzymes), Provolone Cheese (Pasteurized Milk, Cultures, Salt, Enzymes, Smoke Flavoring), **Crust: Flour Blend (Whole Wheat Flour, Enriched Wheat Flour)**, Water, Shortening Flake {Palm Oil, Soy Lecithin, and Beta Carotene}, Soybean Oil), Yeast, High Fructose Corn Syrup, Contains Less than 2%: Salt, **Wheat Flour**, Cultured Corn Syrup Solids, Dough Conditioner (L-Cysteine Monohydrochloride).

One 5.50 oz. Cheese Pizza provides 2.00oz. eq. meat/meat alternate, 2.00 oz. eq. grains, and ¼ cup red/orange vegetable. *Meets whole grain-rich criteria (non-creditable grain listed after less than 2% statement).*

**Meat Alternate: 2.00 oz. equivalent meat alternate**

**Vegetable:** 
\[(0.58 \text{ oz.}) \times (27.6/16) = 1 \text{ qtr. Cup} = \frac{1}{4} \text{ cup red/orange vegetable}\]

**Grains (Exhibit A):** 
\[
\frac{(56 \text{ g})}{(28 \text{ g})} = 2.00 \text{ oz. eq. grains}
\]
Determining the Meal Pattern Contribution for All Products

Points to Remember

- PFS may include crediting information for more than one meal component on the same document.
- PFS may include the product’s nutritional information, but is not required.
- PFS should be updated when product formulation changes.
Tips to Evaluate a Manufacturer’s Product Formulation Statement (PFS)

Checklist for Evaluating a Manufacturer’s PFS:
(If “N” is checked for any question below, contact the manufacturer to request the information)

- Is the PFS on signed company letterhead? The signature on the PFS can be handwritten, stamped, or electronic. [Y N]

- Does the PFS include product name, product code number, and serving/portion size? [Y N]

- Do the creditable ingredients* listed on the PFS match or have a similar description as the ingredients listed on the product label? [Y N]

- Do the creditable ingredients* listed on the PFS match or have a similar description to a food item listed in the Food Buying Guide (FBG)? [Y N]

QUESTIONS
Contact Child Nutrition Programs NTAB staff at:
CNPNTAB@fns.usda.gov