3 — Meal Components

Each component of the NSLP and SBP meal patterns has specific criteria for determining how foods credit toward reimbursable meals. All foods (including commercial products, foods prepared from scratch, and foods prepared by vendors) must meet these requirements to credit toward the meal pattern components of reimbursable meals.

The menu planning guidance in this section assists SFAs with meeting the crediting requirements for the five components of the NSLP and SBP meal pattern for grades K-12. These components include milk, meat/meat alternates, vegetables, fruits, and grains. For additional guidance on crediting foods, visit the CSDE’s Crediting Foods in School Nutrition Programs webpage.

Creditable Foods

Creditable foods are foods and beverages that count toward the meal pattern requirements for reimbursable meals in the USDA’s Child Nutrition Programs. The USDA considers the following factors when determining if a food credits in school meals:

- nutrient content;
- function in a meal;
- regulations concerning the USDA’s Child Nutrition Programs (quantity requirements and definition);
- FDA standards of identity;
- USDA’s standards for meat and meat products; and
- administrative policy decisions on the crediting of particular foods.

Minimum creditable amounts

Each component requires a minimum amount to credit toward the meal patterns. A food item must include at least the minimum creditable amount. Food items that contain less than the minimum amount do not credit

- **Milk component**: The minimum creditable amount is the full serving (1 cup) of fluid milk. For smoothies only, the minimum creditable amount is ¼ cup. If the amount of
milk in a smoothie is less than the full serving, the meal must include the additional amount of milk required to provide the full serving for each grade group. SFAs must offer a variety of milk. For more information, refer to “Crediting Milk in Smoothies” and “Milk Variety” in the “Milk Component” section.

- **Meat/meat alternates component:** The minimum creditable amount is ¼ ounce equivalent. At lunch, the meat/meat alternates component must be served in a main dish, or in a main dish and one other food item. For more information, refer to “Main Dish Requirement for Lunch” in the “Meat/Meat Alternates Component” section.

- **Vegetables component:** The minimum creditable amount is ⅛ cup. Smaller amounts of vegetables used for flavorings or garnishes do not credit. The meal may include more than one food item to meet the full serving of the vegetable component for each grade group, as long as each food item contains at least ⅛ cup of vegetable.

- **Fruits component:** The minimum creditable amount is ⅛ cup. Smaller amounts of fruits used for flavorings or garnishes do not credit. The meal may include more than one food item to meet the full serving of the fruits component for each grade group, as long as each food item contains at least ⅛ cup of fruit.

- **Grains component:** The minimum creditable amount is ¼ ounce equivalent. The meal may include more than one food item to meet the full serving of the grains component for each grade group, as long as each food item contains at least ¼ ounce equivalent.

If a food provides at least the minimum creditable amount of a component, but less than the full serving, the meal must include additional foods from that component to provide the full serving for each grade group. For example, the lunch meal pattern for grades K-5 requires ¾ cup of the vegetables component. If a food item provides ½ cup of vegetables, the lunch menu must include another food item with ¼ cup of vegetables to provide the full vegetables component.

Menu items that contain less than the minimum creditable amount still count toward the weekly dietary specifications. They must contain zero trans fat and their inclusion cannot cause the menu to exceed the weekly limits for calories, saturated fats, and sodium. For more information, refer to “Dietary Specifications” in section 1.
Requirement for visible components

The USDA requires that foods must be visible (recognizable) to credit toward the NSLP and SBP meal patterns for grades K-12. For example, SFAs cannot credit peanut butter in smoothies; pureed tofu in soups; applesauce in muffins; or pureed fruits and vegetables in entrees and other foods.

The intent for this requirement is to ensure that children can easily identify the foods in school menus. The nutrition education aspect of the Child Nutrition Programs includes the goal of helping children recognize the food groups that contribute to healthy meals and snacks.

The USDA allows some exceptions to this requirement, including yogurt blended in fruit or vegetable smoothies, pureed fruits and vegetables in smoothies, and pasta made with 100 percent vegetable flours. For more information, refer to “Yogurt in smoothies” and “Crediting Legume Flour Pasta Products as Meat/Meat Alternates” in the “Meat/Meat Alternates Component” section; “Crediting Fruit and Vegetable Smoothies” and “Unrecognizable pureed fruits” in the “Fruits Component” section; and “Unrecognizable pureed vegetables” and “Crediting Pasta Products Made of Vegetable Flour” in the “Vegetables Component” section.
Resources for creditable foods

The websites and resources below address the requirements for crediting foods in the NSLP and SBP meal patterns for grades K-12. For a list of resources with guidance on meeting the NSLP and SBP meal pattern and crediting requirements, refer to the CSDE’s Resources for the School Meal Patterns for Grades K-12.

- CSDE Operational Memos for School Nutrition Programs: https://portal.ct.gov/SDE/Lists/Operational-Memoranda-for-School-Nutrition-Programs
- USDA FNS Instructions for Child Nutrition Programs: https://portal.ct.gov/SDE/Nutrition/FNS-Instructions-for-Child-Nutrition-Programs
- USDA Policy Memos: https://www.fns.usda.gov/resources

For additional guidance on the USDA’s requirements for the NSLP and SBP, visit the CSDE’s Laws and Regulations for Child Nutrition Programs webpage.
Noncreditable Foods

Noncreditable foods are foods and beverages that cannot credit toward the NSLP and SBP meal patterns. They include foods and beverages in amounts too small to credit (refer to “Minimum creditable amounts” in this section), and foods and beverages that do not belong to the meal pattern components. Examples include potato chips, pudding, ice cream, gelatin, cream cheese, bacon, condiments (e.g., syrup, jam, ketchup, mustard, mayonnaise, and butter), and water. Noncreditable foods are listed for each meal pattern component in Section 3. For more examples, refer to the CSDE’s resource, Noncreditable Foods for Grades K-12 in the NSLP and SBP.

SFAs may serve noncreditable foods in addition to the meal components to add variety, help improve acceptability in the meal, and satisfy appetites. Some examples include maple syrup on pancakes, salad dressing on tossed greens, and condiments such as ketchup or mustard on sandwiches and other entrees.

To ensure that meals meet children’s nutritional needs, the CSDE encourages SFAs to use discretion when serving noncreditable foods. Noncreditable foods typically contain few nutrients and are higher in added sugars, saturated fats, and sodium. Menu planners should read labels, be aware of the ingredients in foods, and limit the frequency and amount of less nutritious choices.

Noncreditable foods offered as part of reimbursable meals for grades K-12 must fit within the weekly dietary specifications. They must contain zero trans fat and their inclusion cannot cause the menu to exceed the average weekly limits for calories, saturated fat, and sodium. For information on the dietary specifications for each grade group, refer to the meal patterns in section 1. For information on planning school meals to meet the dietary specifications, refer to section 6.
Meal Components

Federal and state requirements prohibit sales of some noncreditable foods, such as candy, soda, coffee, tea, and sports drinks. For more information, refer to the CSDE’s competitive foods guides (Guide to Competitive Foods in HFC Public Schools, Guide to Competitive Foods in Non-HFC Public Schools, and Guide to Competitive Foods in Private Schools and Residential Child Care Institutions) and visit the CSDE’s Competitive Foods webpage and Beverage Requirements webpage.
Milk Component

Milk must be pasteurized, meet all state and local requirements, and contain vitamins A and D at levels specified by the FDA. Fluid milk is required at breakfast and lunch. Meals with breakfast cereals may include fluid milk as a beverage, on cereal, or both.

Required Daily and Weekly Servings

The lunch and breakfast meal patterns require daily and weekly servings (cups) of the milk component. Table 3-1 summarizes the required servings of the milk component for each grade group.

| Grades | Lunch | | Breakfast |
|---|---|---|---|---|---|---|
| | Five-day week | Seven-day week | Five-day week | Seven-day week |
| K-5 | 1 cup | 5 cups | 1 cup | 7 cups | 1 cup | 5 cups | 1 cup | 7 cups |
| 6-8 | 1 cup | 5 cups | 1 cup | 7 cups | 1 cup | 5 cups | 1 cup | 7 cups |
| 9-12 | 1 cup | 5 cups | 1 cup | 7 cups | 1 cup | 5 cups | 1 cup | 7 cups |

Allowable Types of Milk

The meal patterns for grades K-12 allow unflavored low-fat (1%) milk and unflavored or flavored fat-free milk. Other allowable types of low-fat and fat-free milk include pasteurized:

- lactose-reduced and lactose-free milk;
- acidified milk;
- cultured milk;
- cultured buttermilk; and
- Ultra High Temperature (UHT) milk.

SFAs may serve any of these types of milk, as long as they meet the fat content and flavor restrictions. SFAs cannot serve milk that does not meet the required fat content. For example,
whole milk, reduced-fat (2%) milk, and flavored low-fat milk do not credit in reimbursable meals.

If a child has a disability that requires milk with a fat content that is different from the NSLP and SBP meal patterns for grades K-12, the SFA must make the substitution prescribed in the medical statement signed by a recognized medical authority. For more information, refer to “Meal Modifications for Children with Special Dietary Needs” in section 1.

**Change to flavored milk requirement for school year 2021-22**

In 2018, the USDA issued the final rule, *Child Nutrition Programs: Flexibilities for Milk, Whole Grains, and Sodium Requirements* (83 FR 63775), which allowed SFAs to offer flavored low-fat milk in school meals. On August 21, 2020, the USDA released information about a decision in April 2020 by the U.S. District Court for the District of Maryland that cancelled this final rule. As a result, flavored milk must be fat-free to credit as the milk component during school year 2020-21. For more information, refer to question 7 in USDA Memo SP 24-2020, CACFP 13-2020 and SFSP 13-2020: Questions and Answers for the Child Nutrition Programs during School Year 2020-21 – #5.

In November 2020, the USDA issued a proposed rule, *Restoration of Milk, Whole Grains, and Sodium Flexibilities* (85 FR 75241), to permanently allow flavored low-fat milk. Until a final rule is approved, the current prohibition of flavored low-fat milk still applies.

However, in Section 789 of Division A of the Consolidated Appropriations Act, 2021, Congress (PL 116-20) provided that none of the funds made available by the Appropriations Act or any other act may be used to restrict the offering of low-fat (1% fat) flavored milk in the NSLP and SBP as long as such milk is not inconsistent with the most recent Dietary Guidelines.

Due to recent Congressional action, this flexibility allowing low-fat flavored milk in the NSLP and SBP is now effective through December 3, 2021. This provides additional flexibility in planning school breakfast and lunch menus but does not require schools to make any menu changes.

For more information, refer to USDA Memo SP 11-2021, CACFP 10-2021 and SFSP 06-2021: *Consolidated Appropriations Act, 2021: Effect on Child Nutrition Programs* - REVISED. **Note:** While the expiration date for these provisions is listed as September 30, 2021 in the memo,
they have both been extended to December 3, 2021. USDA will provide additional guidance if these provisions are further extended.

**Waiver for flavored milk during COVID-19**

During the current COVID public health emergency, the USDA is allowing several flexibilities for the NSLP and SBP meal patterns, including a waiver of the requirement that low-fat milk must be unflavored. SFAs that cannot meet the requirement that flavored milk must be fat-free may request a waiver from the CSDE to serve flavored low-fat milk through June 30, 2022. For more information, refer to “Meal Pattern Flexibilities during COVID-19” in section 1.

**Milk Variety**

SFAs must offer at least two different choices of milk at both lunch and breakfast. Choices may include unflavored low-fat milk, unflavored fat-free milk, and flavored fat-free milk. At least one choice must be unflavored.

**Milk variety exemption for RCCIs**

RCCIs that are juvenile detention centers or correctional facilities may meet the milk variety requirement over the week, rather than daily, if there are potential legitimate safety concerns about offering different types of milk to students. For example, a RCCI may offer all students flavored fat-free milk on some days of the week and unflavored low-fat milk on other days.

This provision also applies to other RCCIs that can demonstrate operational limitations to separating the grade groups and can show legitimate safety concerns if students are served different portions. To implement this provision, the RCCI must submit a waiver request to the CSDE. For more information, refer to “Exception for grade groups in correctional facilities” in section 1.

**Waiver for milk variety during COVID-19**

During the current COVID public health emergency, the USDA is allowing several flexibilities for the NSLP and SBP meal patterns, including a waiver of the requirement that menus must offer a variety (at least two different options) of fluid milk. SFAs that cannot meet the milk variety requirement may request a waiver from the CSDE. If approved by the CSDE, this waiver is in effect through June 30, 2022. For more information, refer to “Meal Pattern Flexibilities during COVID-19” in section 1.
Additional Milk Requirements for Public Schools

Public schools must meet additional state requirements for the milk component. Milk sold anywhere on school premises in Connecticut public schools must comply with the state beverage requirements of Section 10-221q of the Connecticut General Statutes (C.G.S.). The state beverage requirements apply to milk sold as part of, and separately from, reimbursable meals and snacks. The state beverage statute does not apply to private schools or RCCIs.

The state beverage statute requires that milk cannot contain more than 4 grams of sugars per ounce. Products that meet the federal and state requirements for milk are in list 16 on the CSDE’s List of Acceptable Foods and Beverages webpage, which includes brand-specific lists of foods that meet the Connecticut Nutrition Standards and beverages that meet the requirements of the state beverage statute. For more information on the state beverage statute, visit the CSDE’s Beverage Requirements webpage.

Milk Substitutes for Children without Disabilities

SFAs may choose, but are not required, to offer allowable milk substitutes for children whose special dietary needs do not constitute a disability. The two types of allowable milk substitutes for children without disabilities include:

- nondairy milk substitutes that meet the USDA’s nutrition standards for fluid milk substitutes (refer to table 3-2); and
- lactose-reduced or lactose-free milk with the appropriate fat content, i.e., unflavored low-fat milk, unflavored fat-free milk, and flavored fat-free milk.

SFAs cannot offer any other beverages (including water and juice) as a choice instead of milk with reimbursable meals. Juice and water are never allowable milk substitutes for children without a disability.

Parents or guardians must submit a written request for a nondairy milk substitute for their child. A medical statement signed by a recognized medical authority is not required. For more information, refer to the CSDE’s resource, Allowable Milk Substitutes for Children without Disabilities in School Nutrition Programs, and the CSDE’s guide, Accommodating Special Diets in School Nutrition Programs.

A written request is not required for lactose-reduced or lactose-free milk. SFAs may offer lactose-free and lactose-reduced milk as a substitute for regular milk at any time. For more information, refer to “Lactose-reduced and lactose-free milk” in this section.
Milk substitutes offered as part of reimbursable meals must fit within the weekly dietary specifications. For information on the dietary specifications for each grade group, refer to the meal patterns in section 1. For information on planning school meals to meet the dietary specifications, refer to section 6.

**USDA’s nutrition standards for fluid milk substitutes**

SFAs that choose to offer a milk substitute as part of reimbursable meals for children without disabilities must use products that meet the USDA’s nutrition standards for fluid milk substitutes (refer to table 3-2). SFAs cannot offer other nondairy milk substitutes.

Menu planners cannot determine if a product meets the USDA’s nutrition standards for fluid milk substitutes by reading the product’s packaging. The Nutrition Facts label lists only a few of the nine nutrients required by the USDA for allowable fluid milk substitutes. To determine if a product meets the USDA’s nutrition standards, SFAs must obtain documentation from the manufacturer that includes the nutrition information for the nine required nutrients.

<table>
<thead>
<tr>
<th>Minimum nutrients per cup (8 fluid ounces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
</tr>
<tr>
<td>276 milligrams (mg) or 30% Daily Value (DV)</td>
</tr>
<tr>
<td>Protein</td>
</tr>
<tr>
<td>8 grams (g)</td>
</tr>
<tr>
<td>Vitamin A</td>
</tr>
<tr>
<td>500 international units (IU) or 10% DV</td>
</tr>
<tr>
<td>Vitamin D</td>
</tr>
<tr>
<td>100 IU or 25% DV</td>
</tr>
<tr>
<td>Magnesium</td>
</tr>
<tr>
<td>24 mg or 6% DV</td>
</tr>
<tr>
<td>Phosphorus</td>
</tr>
<tr>
<td>222 mg or 20% DV</td>
</tr>
<tr>
<td>Potassium</td>
</tr>
<tr>
<td>349 mg or 10% DV</td>
</tr>
<tr>
<td>Riboflavin</td>
</tr>
<tr>
<td>0.44 mg or 25% DV</td>
</tr>
<tr>
<td>Vitamin B12</td>
</tr>
<tr>
<td>1.1 micrograms (mcg) or 20% DV</td>
</tr>
</tbody>
</table>

² The FDA labeling laws require manufacturers to round nutrition values to the nearest 5 percent. The unrounded minimum DV is 27.6% for calcium, 22.2% for phosphorus, 9.97% for potassium, 25.88% for riboflavin, and 18.33% for vitamin B12. Source: *How to Determine if a Soy-Based Beverage Meets the Nutrient Requirements to Qualify as an Authorized Milk Substitute in WIC*, USDA Food and Nutrition Services (FNS) Office of Research, Nutrition, and Analysis (ORNA), 2006.
Additional nondairy milk substitute requirements for public schools

Public schools must meet additional state requirements for nondairy milk substitutes. The state beverage statute does not apply to private schools or RCCIs.

Nondairy milk substitutes sold anywhere on school premises in Connecticut public schools must comply with the state beverage requirements of C.G.S. Section 10-221q. The state beverage requirements apply to nondairy milk substitutes sold as part of, and separately from, reimbursable meals and snacks. Nondairy milk substitutes cannot contain artificial sweeteners, and cannot exceed 4 grams of sugar per ounce; 35 percent of calories from fat; and 10 percent of calories from saturated fats.

Products that meet the federal and state requirements for nondairy milk substitutes are in list 17 on the CSDE’s List of Acceptable Foods and Beverages webpage. For more information, refer to the CSDE’s resource, Allowable Milk Substitutes for Children without Disabilities in School Nutrition Programs, and the CSDE’s guide, Accommodating Special Diets in School Nutrition Programs.

Lactose-reduced and lactose-free milk

Children who cannot digest the lactose found in regular milk may be able to drink lactose-free (e.g., Lactaid) or lactose-reduced milk. These types of milk are regular fluid milk modified by the addition of lactase enzymes to reduce or eliminate the lactose (milk sugar). Lactose-reduced milk has part of the lactose removed, while lactose-free milk has all of the lactose removed.

Lactose-free and lactose-reduced milk credits the same as regular milk. SFAs may substitute unflavored low-fat or unflavored/flavored fat-free lactose-reduced or lactose-free milk for regular milk.

A written request from parents/guardians is not required for lactose-reduced or lactose-free milk. The CSDE encourages SFAs to make lactose-reduced or lactose-free milk available to children as needed.

In addition to meeting the meal patterns, lactose-reduced and lactose-free milk sold in in Connecticut public schools must comply with the sugar limit of the state beverage requirements of the state beverage requirements (C.G.S. Section 10-221q.) List 16 of the CSDE’s List of Acceptable Foods and Beverages webpage includes lactose-reduced and lactose-free milk that meets the federal and state requirements. SFAs cannot sell lactose-reduced and lactose-free milk that does not meet the state requirements, either as part of
Milk

reimbursable meals or a la carte. For more information, refer to “Additional Milk Requirements for Public Schools” in this section.

Crediting Milk in Smoothies

Unflavored low-fat milk or fat-free milk served in smoothies credits as the milk component. For smoothies only, the minimum creditable amount of milk is ¼ cup. If a smoothie contains less than the full 1-cup serving of milk, the lunch or breakfast menu must include the additional amount of milk to provide the full milk component. For more information on crediting smoothies, refer to “Crediting Smoothies” in the “Fruits Component” section.

Crediting an amount of milk that is less than the required 1-cup serving applies only to smoothies.

When smoothies include milk, SFAs must also offer a variety of fluid milk on the serving line to meet the USDA's requirement to offer a variety of milk options. For more information, refer to “Serving Milk” in this section.

Milk in Prepared Foods

Only fluid milk meets the USDA’s definition for milk and the FDA’s standard of identity for milk. The breakfast and lunch meal patterns require fluid milk as a beverage. Meals with breakfast cereals may include fluid milk as a beverage, on cereal, or both.

Milk does not credit when cooked in cereals, puddings, cream sauces, or other foods. For example, milk does not credit when used to make quiche or macaroni and cheese.

Foods made from milk (such as cheese, yogurt, and ice cream) cannot credit as the milk component. For information on crediting cheese and yogurt as meat/meat alternates, refer to the “Meat/Meat Alternates Component” section.
3 | Meal Components

**Serving Milk from Coolers**

Milk coolers cannot contain any beverages other than milk. For example, schools cannot sell water and juice from the milk cooler. SFAs cannot promote or offer water, juice, or any other beverage as an alternative selection to fluid milk throughout the food service area.

**Keeping Milk Cold**

Implementing procedures to keep milk cold is important for food safety and helps make milk more appealing to children. Milk must be kept at 40°F or below, but tastes best at 35°F. SFAs should develop procedures to maintain milk at 35°F during all points of the meal service (receiving, storing, and serving).

New England Dairy’s Keep Milk Cold webpage contains resources to help staff serve cold milk. The U.S. Dairy has a Milk Quality Checklist that helps programs evaluate their current practices and implement procedures for keeping milk cold.

**Noncreditable Foods in the Milk Component**

Examples of foods that do not credit as the milk component include, but are not limited to:

- flavored low-fat milk;
- reduced fat (2%) milk, unflavored or flavored;
- whole milk, unflavored or flavored;
- nondairy milk substitutes that do not meet the USDA’s nutrition standards for fluid milk substitutes, e.g., rice milk, almond milk, and cashew milk;
- milk that is cooked or baked in prepared foods, such as cereals, puddings, and cream sauces;
- nutrition supplement beverages, such as Abbott’s Pediasure;
- powdered milk beverages, such as Nestle’s NIDO; and
- for public schools only, milk and nondairy milk substitutes that do not meet the state beverage requirements of Connecticut General Statute Section 10-221q.

For more information, refer to “Noncreditable Foods” at the beginning of section 3, and the CSDE’s resource, Noncreditable Foods for Grades K-12 in the NSLP and SBP.
Common Compliance Issues for the Milk Component

School menus must comply with the USDA’s requirements for the milk component. The common compliance issues indicated below are based on the CSDE’s Administrative Review of the school nutrition programs. SFAs must plan menus to avoid these compliance issues.

- **No milk variety:** Lunch and breakfast menus must always offer at least two types of milk with all meals, one of which must be unflavored. A lack of milk variety occurs most often when serving breakfast in the classroom. For more information, refer to “Milk Variety” in this section.

- **Incorrect milk substitutes:** The USDA allows only two substitutions for fluid milk: 1) lactose-reduced and lactose-free milk; and 2) nondairy milk products that meet the USDA’s nutrition standards for milk substitutes. SFAs cannot offer any other beverages as milk substitutes, such as juice and water. For more information, refer to “Milk Substitutes for Children without Disabilities” in this section.

- **Other beverages such as water and juice in milk cooler:** Milk coolers must contain only milk. SFAs cannot promote or offer water, juice, or any other beverages as an alternative selection to fluid milk throughout the food service area. For more information, refer to “Milk Variety” in this section.

For more information, refer to CSDE Operational Memorandum No. 06-19: *Summary of Federal and State Milk Requirements for the NSLP, SBP, SSO of the NSLP, ASP of the NSLP, and Special Milk Program (SMP)*, and the CSDE’s resource, *Comparison of Meal Pattern Requirements for the Milk Component in School Nutrition Programs*.

Resources for Crediting Milk

The resources below assist menu planners with crediting the milk component in the breakfast and lunch meal patterns for grades K-12.

- Allowable Milk Substitutes for Children without Disabilities in School Nutrition Programs (CSDE):
3 | Meal Components

- Comparison of Meal Pattern Requirements for the Milk Component in School Nutrition Programs (CSDE):
  https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/ComparisonMilkRequirementsSNP.pdf

- CSDE Operational Memorandum No. 06-19: Summary of Federal and State Milk Requirements for the National School Lunch Program (NSLP), School Breakfast Program (SBP), Seamless Summer Option (SSO) of the NSLP, Afterschool Snack Program (ASP) of the NSLP, and Special Milk Program (SMP):

- Food Buying Guide Section 5: Overview of Crediting Requirements for the Milk Component (USDA):
  https://foodbuyingguide.fns.usda.gov/Content/TablesFBG/USDA_FBG_Section5_Milk.pdf

- Food Buying Guide Section 5: Yield Table for Milk (USDA):
  https://foodbuyingguide.fns.usda.gov/files/Reports/USDA_FBG_Section5_MilkYieldTable.pdf

- Milk Component for Grades K-12 (CSDE's Crediting Foods in School Nutrition Programs webpage):

- USDA Memo SP 07-2010, CACFP 04-2010 and SFSP 05-2010: Questions and Answers: Fluid Milk Substitutions:

- USDA Memo SP 39-2019: Clarification on the Milk and Water Requirements in the School Meal Program:

- USDA Memo SP 40-2019, CACFP 17-2019 and SFSP 17-2019: Smoothies Offered in the Child Nutrition Programs:
  https://www.fns.usda.gov/cn/smoothies-offered-child-nutrition-programs

For additional crediting resources, visit the “Milk Component for Grades K-12” section of the CSDE’s Crediting Foods in School Nutrition Programs webpage.
Meat/Meat Alternates Component

Meats include cooked lean meat, poultry, and fish. Meat alternates are foods that provide a similar protein content to meat, such as alternate protein products (APPs), cheese, eggs, cooked dry beans or peas (legumes), nuts and seeds and their butters, yogurt, soy yogurt, tofu, and tempeh. Legumes credit as the vegetables component or the meat/meat alternates component, but not both in the same meal.

Meat/Meat Alternates versus Protein

It is important to note that the NSLP and SBP meal patterns require a specific amount of the meat/meat alternates component, not a specific amount of protein. The terms “protein” and “meat/meat alternates” are often used interchangeably, but they are not the same. “Meat/meat alternates” refers to the meal component of the USDA meal patterns for the Child Nutrition Programs. “Protein” refers to one of the key nutrients found in meats and meat alternates.

Except for commercial tofu and tofu products, protein content is not an indicator that a commercial product credits as the meat/meat alternates component because the grams of protein listed on the product’s Nutrition Facts label do not correspond to the ounces of the meat/meat alternates component contained in the product. A serving of meat or meat alternate contains other components in addition to protein, such as water, fat, vitamins, and minerals. Protein is also found in varying amounts in other ingredients (such as cereals, grains, and many vegetables) that may be part of a commercial meat or meat alternate product.

Menu planners cannot use the Nutrition Facts label or ingredients statement to determine the amount of the meat/meat alternates component in a commercial product. The only exception is commercial tofu and tofu products, which must contain at least 5 grams of protein in a 2.2-ounce serving by weight. For more information, refer to “Crediting Commercial Tofu and Tofu Products” in this section.
To credit as the meat/meat alternates component, commercial products that are processed or contain added ingredients (such as pizza, chicken nuggets, veggie burgers, and cheese ravioli) require a CN label or PFS to document the amount of the meat/meat alternates component per serving. For more information, refer to “Crediting Meat/Meat Alternates in Commercial Products” in this section.

**Required Daily and Weekly Servings**

The lunch meal pattern requires daily and weekly servings (ounce equivalents) of the meat/meat alternates component. Table 3-3 summarizes the required ounce equivalents of the meat/meat alternates component for each grade group.

The meat/meat alternates component is not required at breakfast. However, SFAs may substitute meat/meat alternates for the grains component after offering 1 ounce equivalent of grains. For more information, refer to “Meat/Meat Alternates at Breakfast” in this section.

<table>
<thead>
<tr>
<th>Grades</th>
<th>Five-day week</th>
<th>Seven-day week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Daily</td>
<td>Weekly ¹</td>
</tr>
<tr>
<td>K-5</td>
<td>1</td>
<td>8-10</td>
</tr>
<tr>
<td>6-8</td>
<td>1</td>
<td>9-10</td>
</tr>
<tr>
<td>9-12</td>
<td>2</td>
<td>10-12</td>
</tr>
</tbody>
</table>

¹ SFAs cannot offer less than the minimum weekly serving. The maximum weekly serving is not required, but provides a guide for planning age-appropriate meals that meet the weekly limits for calories, saturated fats, and sodium. For information on planning school meals to meet the dietary specifications, refer to section 6.

**Daily servings of meat/meat alternates**

Lunch menus for grades K-5 or 6-8 must offer more than the minimum daily serving (1 ounce equivalent) on some days to meet the minimum weekly requirement. Offering only the minimum daily 1 ounce equivalent does not meet the minimum weekly requirement for grades K-5 and 6-8. However, lunch menus for grades 9-12 that offer the minimum daily serving (2 ounce equivalents) each day meet the minimum weekly requirement.
Weekly servings of meat/meat alternates at lunch

Menu planners must calculate the weekly servings of the meat/meat alternates component for all lunch menus. The weekly servings of the meat/meat alternates component are the sum of the daily meat/meat alternate servings. For example, a five-day lunch menu that offers 1¼ ounce equivalents of the meat/meat alternates component each day provides a weekly total of 8¼ ounce equivalents of the meat/meat alternates component. This meets the weekly requirement for grades K-5 but does not meet the weekly requirement for grades 6-8 or 9-12.

When lunch menus offer multiple meat/meat alternate choices on an individual day, the menu planner must use the daily item with the smallest ounce equivalents to count toward the weekly requirement. For example, if the daily lunch menu for grades 6-8 offers a 1½-ounce equivalent item and a 2-ounce equivalent item, the menu planner must count the 1½-ounce equivalent item toward the weekly requirement.

If the lunch menu includes different serving sizes of the meat/meat alternates component each day or over the week, SFAs must pay careful attention to the combinations of daily choices. SFAs must review all weekly meat/meat alternate choices to determine compliance with the weekly meal pattern requirements.

For more information on meeting the weekly servings for the meat/meat alternates component, refer to “Weekly Grains and Meat/Meat Alternates at Lunch” in section 4.

Minimum creditable amount for meat/meat alternates

The minimum creditable amount of meat/meat alternates is ¼ ounce equivalent. Meat/meat alternates offered in amounts less than ¼ ounce equivalent are not included in the calculation of the daily and weekly meat/meat alternate servings, but count toward the weekly dietary specifications. For more information, refer to “Minimum creditable amounts” in the beginning of section 3 and “Dietary Specifications” in section 1.

When crediting menu items toward the meat/meat alternates component, menu planners must round down to the nearest ¼ ounce. For example, a standardized recipe or commercial product that contains 0.9 ounces of cooked chicken per serving credits as 0.75 ounces of the meat/meat alternates component.
Serving Size for Meat/Meat Alternates

Menu planners should consult the USDA’s FBG to determine the crediting information for foods in the meat/meat alternates component (refer to “Food Buying Guide for Child Nutrition Programs” in section 2). One ounce equivalent of meat/meat alternates equals:

- 1 ounce of lean meat, poultry, or fish;
- 1 ounce of cheese (low-fat recommended);
- 2 ounces of cottage or ricotta cheese, cheese food/spread, or cheese substitute (low-fat recommended);
- ¼ cup of cooked beans and peas (legumes), e.g., kidney beans, chickpeas (garbanzo beans), lentils, and split peas;
- ½ large egg;
- 2 tablespoons of nut or seed butters, e.g., peanut butter, almond butter, cashew butter, and sunflower seed butter;
- 1 ounce of nuts or seeds, e.g., almonds, Brazil nuts, cashews, filberts, macadamia nuts, peanuts, pecans, pine nuts, pistachios, soy nuts, and walnuts;
- ¼ cup (2.2 ounces) of commercial tofu containing at least 5 grams of protein;
- 1 ounce of tempeh that contains specific ingredients (refer to “Crediting Tempeh” in this section);
- 3 ounces of surimi;
- ½ cup of yogurt or soy yogurt; and
- 1 ounce of APP that meets the USDA’s APP requirements (refer to “Crediting Alternate Protein Products (APPs)” in this section).

The amounts in the meat/meat alternates component refer to the edible portion of cooked lean meat, poultry, or fish, e.g., cooked lean meat without bone, breading, binders, extenders, or other ingredients. The Dietary Guidelines for Americans indicates that lean meat and poultry contains less than 10 grams of fat, no more than 4.5 grams of saturated fat, and less than 95 milligrams of cholesterol per 100 grams and per labeled serving size, based on the USDA’s definitions for food label use. Examples include 95 percent lean cooked ground beef, beef top round steak or roast, beef tenderloin, pork top loin chop or roast, pork tenderloin, ham or turkey deli slices, skinless chicken breast, and skinless turkey breast.

The serving must contain the appropriate edible portion of meat/meat alternates, not including added ingredients. For example, 2 ounces of tuna fish does not credit as 2 ounce equivalents of the meat/meat alternates component. The serving must contain 2 ounces of tuna fish before added ingredients such as mayonnaise, celery, and seasonings.
SFAs must obtain crediting documentation for commercial products that are processed or contain added ingredients, such as pizza, chicken nuggets, and cheese ravioli. This documentation must state the amount of the meat/meat alternates component per serving. For example, to credit a commercially prepared cheese pizza as 2 ounce equivalents of the meat/meat alternates component, the product’s CN label or PFS must indicate that the serving contains 2 ounces of cheese. For more information, refer to “Documentation for Commercial Products” in section 2 and the CSDE’s resource, Accepting Processed Product Documentation in the NSLP and SBP.

**Required signage to identify meat/meat alternate servings for students**

SFAs must use meal identification signage to instruct students on how much food to select from each component daily for a reimbursable meal, based on the planned serving sizes for each grade group.

- Example: A high school allows students to select two ½-cup containers of yogurt to meet the minimum daily 2 ounce equivalents of the meat/meat alternates component for grades 9-12. The cafeteria signage must clearly communicate that students are allowed to select two containers of yogurt with each meal. This signage must be at or near the beginning of the serving line and located where the food component is available.

For more information, refer to “Meal Identification Signage” in section 5.
Main Dish Requirement for Lunch

SFAs must serve the daily meat/meat alternates component at lunch in a main dish, or in a main dish and one other food item. The main dish is generally considered the main food item in the menu, which is complemented by the other food items.

For example, a lunch menu for grades 9-12 could provide the required 2 ounces of the meat/meat alternates component from a sandwich containing 2 ounces of tuna; or a sandwich containing 1 ounce of tuna (1 ounce equivalent of meat/meat alternates) served with soup that contains ¼ cup of legumes (1 ounce equivalent of meat/meat alternates).

SFAs cannot serve the daily meat/meat alternates component for lunch in more than two food items.

SFAs must consider how these menu-planning decisions affect students’ selection of reimbursable meals when implementing OVS. For example, when a lunch menu provides the daily meat/meat alternates component as two separate food items, students must select both items to credit as the full component for OVS. For information on OVS, refer to the CSDE’s Offer versus Serve Guide for School Meals.

Requirement for recognizable main dish

Foods that are not a recognizable main dish do not credit toward the meat/meat alternates component. For example, SFAs cannot credit peanut butter in a muffin or smoothie, pureed beans in a spice cake, or blended soft tofu in soup. The USDA’s intent for this requirement is to ensure that school menus offer meat/meat alternates in a form that is recognizable to children. For more information, refer to “Requirement for visible components” at the beginning of section 3.

The USDA allows two exceptions to the requirement for a recognizable main dish: yogurt blended in fruit or vegetable smoothies and pasta made with 100 percent legume flours.

- Yogurt blended in fruit or vegetable smoothies credits as the meat/meat alternates component. Other meat/meat alternates (such as peanut butter) served in smoothies do not credit. For more information, refer to “Yogurt in smoothies” in this section and “Crediting Smoothies” in the “Fruits Component” section.
• Pasta made with 100 percent legume flours may credit as the meat/meat alternates component if the menu also includes an additional meat or meat alternate, such as tofu, cheese, or meat. For more information, refer to “Crediting Legume Flour Pasta Products as Meat/Meat Alternates” in this section.

### Meat/Meat Alternates at Breakfast

The meat/meat alternates component is not required at breakfast. SFAs may choose to offer a food from the meat/meat alternates component in place of the grains component, after offering at least 1 ounce equivalent of the grains component. For example, a breakfast menu that includes a 1-ounce slice of whole-grain toast (1 ounce equivalent of the grains component) may also include 1 ounce of low-fat cheese (1 ounce equivalent of the meat/meat alternates component) as a grain substitution.

When determining the daily and weekly requirements, meat/meat alternates offered as grain substitutions credit as the grains component.

SFAs cannot serve meat/meat alternates in place of grains if the breakfast menu does not include at least 1 ounce equivalent of the grains component. Table 3-4 shows two breakfast menus that offer a meat/meat alternate substitution. Menu 1 meets the SBP meal pattern requirements because it includes 1 ounce equivalent of the grains component (toast). Menu 2 does not meet the SBP meal pattern requirements because it does not include at least 1 ounce equivalent of the grains component.

| Table 3-4. Examples of breakfast menus with meat/meat alternate substitutions |
|--------------------------|--------------------------|
| **Acceptable** | **Not acceptable** |  
| Menu 1 | Menu 2 |
| Scrambled eggs (1 egg) | Scrambled eggs (1 egg) |
| Whole-grain toast (1 ounce) | Cantaloupe (½ cup) |
| Cantaloupe (½ cup) | Blueberries (½ cup) |
| Blueberries (½ cup) | Milk choice (1 cup) |
| Milk choice (1 cup) |  |

1 SFAs may offer a serving of the meat/meat alternates component in place of a serving of the grains component only after offering the minimum daily 1 ounce equivalent of grains.
Meat/meat alternates used as grain substitutions credit on an ounce-per-ounce basis. For example, 1 ounce equivalent of the meat/meat alternates component credits as 1 ounce equivalent of the grains component. For information on the serving sizes for meat/meat alternates, refer to “Serving Size for Meat/Meat Alternates” in this section.

Options for crediting meat/meat alternates at breakfast

For all grade groups, breakfast must include at least 1 ounce equivalent of the grains component before serving a meat/meat alternate as a grain substitute. SFAs may choose from two options for crediting meat/meat alternates at breakfast.

- **Option 1:** Offer a serving of the meat/meat alternates component in place of a serving of the grains component, and count the meat/meat alternates toward the weekly servings of the grains component. Meat/meat alternates offered in place of the grains component credit as grain food items for OVS.

- **Option 2:** Offer a serving of the meat/meat alternates component as an extra food that does not count toward the weekly servings of the grains component. Meat/meat alternates offered as extra foods do not credit as food items for OVS. For more information, refer to “Extra Foods” in section 1.

The USDA allows these options to offer additional menu planning flexibility for SFAs. For both options, meat/meat alternates substituted for grains must count toward the weekly dietary specifications. They must contain zero trans fats and their inclusion cannot cause the breakfast menu to exceed the weekly limits for calories, saturated fats, and sodium. For information on planning school meals to meet the dietary specifications, refer to section 6.

SFAs must consider how each option affects students’ selection of reimbursable meals when implementing OVs. For examples of OVS with these options, review section 3 of the CSDE’s *Offer versus Serve Guide for School Meals.*
Crediting Alternate Protein Products (APPs)

APPs are generally single ingredient powders (such as soy flours, soy concentrates, soy isolates, whey protein concentrate, whey protein isolates, and casein) that are added to foods. Examples of foods that might contain added APPs include beef patties, beef crumbles, pizza topping, meat loaf, meat sauce, taco filling, burritos, and tuna salad.

APPs must meet the USDA’s requirements specified in appendix A of the NSLP regulations (7 CFR 210). SFAs must have documentation on file to indicate that APPs comply with these requirements. Acceptable documentation includes a CN label, PFS, or a signed letter from a company official attesting that the APP meets the USDA’s requirements. For more information on crediting APPs, refer to the CSDE’s resource, Requirements for Alternate Protein Products in the NSLP and SBP, and the USDA’s resource, Questions and Answers on Alternate Protein Products.

Crediting Cheeses

The USDA recommends serving only low-fat or reduced-fat cheeses (for ages 2 and older) and choosing natural cheeses. Natural cheeses are produced directly from milk, such as cheddar, Colby, Monterey Jack, mozzarella, Muenster, provolone, Swiss, feta, and brie. Natural cheeses also include pasteurized blended cheeses made by blending one or more different kinds of natural cheeses.

Natural cheeses do not include pasteurized process cheeses such as American cheese, pasteurized process cheese food, pasteurized process cheese spread, and pasteurized process cheese products. Imitation cheese and cheese products do not credit as the meat/meat alternates component.

For commercial products that contain cheese (such as lasagna and macaroni and cheese), SFAs must document the serving size with a CN label or PFS. For more information, refer to “Child Nutrition (CN)” labels and “Product formulation statements” in section 2.
Table 3-5 shows the amount of different types of cheeses required to credit as 1 ounce of the meat/meat alternates component.

<table>
<thead>
<tr>
<th>Type of cheese</th>
<th>1 ounce equivalent of meat/meat alternates =</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural cheese, e.g., cheddar and Swiss</td>
<td>1 ounce</td>
</tr>
<tr>
<td>Grated cheese, e.g., Parmesan or Romano</td>
<td>1 ounce (⅜ cup)</td>
</tr>
<tr>
<td>Process cheese, e.g., American</td>
<td>1 ounce</td>
</tr>
<tr>
<td>Cottage or ricotta cheese</td>
<td>¼ cup</td>
</tr>
<tr>
<td>Process cheese food</td>
<td>2 ounces</td>
</tr>
<tr>
<td>Process cheese spread</td>
<td>2 ounces</td>
</tr>
<tr>
<td>Process cheese substitute, cheese food substitute, or process cheese spread substitute</td>
<td>2 ounces</td>
</tr>
</tbody>
</table>

1 Cheese substitutes include reduced fat, low fat, nonfat, and lite versions of cheese substitute, cheese food substitute, and cheese spread substitute. These foods must meet the FDA’s standard of identity for substitute foods and must be labeled as “cheese substitute,” “cheese food substitute,” or “cheese spread substitute.” The FDA’s standard of identity requires that a cheese substitute is not nutritionally inferior to the standardized cheese for which it is substituting.
Crediting Deli Meats, Hot Dogs, and Sausage

SFAs must ensure that the serving of a commercial meat product provides the amount of the meat/meat alternates component being credited. The amount that provides 1 ounce equivalent of the meat/meat alternates component depends on the product’s ingredients.

- **100 percent meat**: Products that are 100 percent meat without added liquids (such as water or broth), binders, or extenders credit on an ounce-per-ounce basis (actual serving weight). For example, 1 ounce of deli meat that is 100 percent meat credits as 1 ounce of the meat/meat alternates component.

- **Added liquids, binders, and extenders**: Products with added liquids, binders, and extenders credit based on the percentage of meat in the product formula. A 1-ounce serving of these products does not credit as 1 ounce equivalent of the meat/meat alternates component. Crediting depends on the amount of meat per serving, excluding added ingredients. For example, to credit as 1 ounce equivalent of the meat/meat alternates component, one brand of deli meat might require 1.6 ounces, while another brand might require 2.3 ounces.

SFAs must obtain appropriate crediting documentation for all meats with added liquids, binders, and extenders. Acceptable documentation includes a CN label or a manufacturer’s PFS stating the amount of the meat/meat alternates component contained in one serving of the product. The USDA’s Authorized Labels and Manufacturers webpage lists approved CN-labeled products and manufacturers. For more information, refer to “Child Nutrition (CN) Labels” and “Product Formulation Statements” in section 2.

Products with added liquids, binders, and extenders cannot credit as the meat/meat alternates component without a CN label or PFS stating the amount of the meat/meat alternates component per serving. Menu planners must review product labels and ingredients to determine if commercial products contain added liquids, binders, and extenders.
Liquids, binders, and extenders

Table 3-6 lists examples of ingredients that are binders and extenders. The ingredients statements below show examples of turkey breast products that contain added liquid, binders, and extenders.

- Ingredients: Turkey breast, *water, modified cornstarch*, contains less than 2% of sodium lactate, salt, sugar, sodium phosphates, *carrageenan*, natural flavor, sodium diacetate, potassium chloride, sodium ascorbate, sodium nitrite, caramel color.

- Ingredients: Turkey breast meat, *turkey broth*, contains 2% or less salt, sugar, *carrageenan*, sodium phosphate, sodium acetate, sodium diacetate, flavoring.

<table>
<thead>
<tr>
<th>Table 3-6. Examples of binders and extenders ¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agar-agar</td>
</tr>
<tr>
<td>Algin (a mixture of sodium alginate, calcium carbonate and calcium gluconate/lactic acid)</td>
</tr>
<tr>
<td>Bread</td>
</tr>
<tr>
<td>Calcium-reduced dried skim milk</td>
</tr>
<tr>
<td>Carrageenan</td>
</tr>
<tr>
<td>Carboxymethyl cellulose (cellulose gum)</td>
</tr>
<tr>
<td>Cereal</td>
</tr>
<tr>
<td>Dried milk</td>
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</tbody>
</table>

¹ Binders and extenders are defined by the USDA’s regulations for the Food Safety and Inspection Service (FSIS) (9 CFR 318.7).

² Products may contain these ingredients if they meet the USDA’s APP requirements. For more information, refer to “Crediting Alternate Protein Products (APPs)” in this section.

For more information, refer to “Documentation for Commercial Products” in section 2, and the CSDE’s resources, *Crediting Deli Meats in the NSLP and SBP, Crediting Commercial Meat/Meat Alternate Products in the NSLP and SBP, CN Labeling Program*, and *Product Formulation Statements*. 
Developing recipes for deli meats

Different brands and types of deli meat credit differently. To ensure proper crediting, SFAs should develop standardized recipes for menu items that contain deli meats, such as sandwiches and other entrees.

The SFA’s standardized recipes should indicate the deli meat’s contribution to the meat/meat alternates component based on a specific weight of a specific brand. For ease of portioning, round up the weight of the deli meat in the standardized recipe to the nearest measure. For example, the standardized recipe should list 1.2 ounces as 1.25 ounces, and 1.6 ounces as 1.75 ounces.

If a SFA makes the same food item using different brands of deli meats that credit differently, the recipe should include the specific weight of each brand. For example, if a school makes a turkey sandwich using either ABC brand turkey breast or XYZ brand turkey breast, the recipe should include the required weight of ABC brand and the required weight of XYZ brand. Alternatively, the school could develop a separate turkey sandwich recipe for each brand of deli meat.

For information on standardized recipes, refer to “Standardized Recipes” in section 2.
Crediting Dried Meat, Poultry, and Seafood Products

Shelf-stable, dried and semi-dried meat, poultry, and seafood (such as jerky or summer sausage) credit as the meat/meat alternates component. The USDA indicates that these products are most useful in meals served off-site, such as during field trips or picnics. However, SFAs may also credit these products in meals served on site.

Crediting of dried meat, poultry, and seafood products must follow the same crediting principles used for all other products made from meat, poultry, or seafood. SFAs must obtain a CN label or manufacturer’s PFS to document the product’s meal pattern contribution. The FBG does not include crediting information for dried meat, poultry, or seafood products because industry production standards for these products vary widely.

Menu planners must evaluate the dried meat product’s PFS to ensure that it complies with the USDA's crediting principles below.

1. The creditable meat ingredient listed on the product’s PFS must match or have a similar description as the ingredient listed in the product’s ingredients statement. For example, the dried beef stick below lists “Ground beef (not more than 30% fat)” as the first ingredient. This product’s PFS must also list the crediting information for “Ground beef (not more than 30% fat).”
   - Ingredients: *Ground beef (not more than 30% fat)*, water, salt, less than 2% brown sugar, spices, monosodium glutamate, sugar, flavorings, sodium nitrate.

2. The creditable meat ingredient listed on the product’s PFS must have a similar description to a food item in the FBG. For the example above, “Ground beef (not more than 30% fat” matches the description for “Beef, Ground, fresh or frozen, Market Style, no more than 30% fat (Like IMPS #136), cooked lean meat” on page 1-17 of the FBG.

3. The creditable amount cannot exceed the finished weight of the product, i.e., the cooked weight ready for serving. For example, a 1-ounce serving of beef jerky cannot credit for more than 1 ounce equivalent of the meat/meat alternates component.

Ground pork and beef ingredients must include the percent fat because the fat content has a direct correlation to the cooking yield. To credit in Child Nutrition Programs, the fat content of ground beef or ground pork in dried meat products cannot exceed 30 percent. Products that do not indicate the fat percentage do not credit.
Meat/Meat Alternates

For example, the dried pork stick below does not credit as the meat/meal alternates component because the creditable ingredients (pork) does not list the fat percentage, and does not match a description in the FBG.

- **Ingredients:** *Pork*, cane sugar, garlic (garlic, citric acid, ascorbic acid), contains 2% or less of: Spanish smoked paprika (paprika, rosemary extract), sea salt, natural flavors, sherry wine vinegar, red pepper chili flakes, celery powder, in collagen casing.

For information on CN labels and PFS forms, refer to “Documentation for Commercial Products” in section 2. The requirements for crediting dried meat are summarized in USDA Memo SP 21-2019, CACFP 08-2019 and SFSP 07-2019: Crediting Shelf-Stable, Dried and Semi-Dried Meat, Poultry, and Seafood Products in the Child Nutrition Programs. For additional guidance on crediting dried meat products, watch the USDA’s webinar, Moving Forward: Update on Food Crediting in Child Nutrition Programs with Guidance for Dried Meat Products.

### Crediting Eggs

Only whole eggs are creditable. Half of a large egg credits as 1 ounce equivalent of the meat/meat alternates component. Liquid egg substitutes are not whole eggs and are not creditable. Egg whites do not credit if served without the yolks.

### Crediting Legumes as Meat/Meat Alternates

Legumes include cooked dry beans and peas, such as black beans, black-eyed peas (mature, dry), edamame (soybeans), garbanzo beans (chickpeas), kidney beans, lentils, navy beans, soybeans, split peas, and white beans. Legumes may credit as either the meat/meat alternates component or the vegetables component, but one serving cannot credit as both components in the same meal. Menu planners must determine in advance how to credit legumes in a meal.

Legumes may credit as either component in different meals. For example, refried beans may credit as the meat/meat alternates component at one lunch and as the vegetables component at another lunch. If a meal includes two servings of legumes, the menu planner may choose to credit one serving as the meat/meat alternates component and one serving as the vegetables component. For example, a lunch menu includes chili with kidney beans and a salad with garbanzo beans. The menu planner may credit the garbanzo beans as the vegetables component and the kidney beans as the meat/meat alternates component.

Legumes credit as the meat/meat alternates component based on volume. A ¼-cup serving (4 tablespoons) of legumes credits as 1 ounce of the meat/meat alternates component. The minimum creditable amount of legumes is 1 tablespoon.
The serving size refers to the amount of cooked legumes excluding other ingredients, such as the sauce and pork fat in baked beans. For example, to credit baked beans as 1 ounce equivalent of the meat/meat alternates component, the serving must contain ¼ cup of beans, not including the sauce and pork fat. For guidance on how to calculate the contribution of legumes in a recipe, refer to the CSDE’s resource, *Crediting Legumes in the NSLP and SBP*.

Table 3-7 shows the meat/meat alternates contribution (ounce equivalents) for different amounts of cooked legumes.

<table>
<thead>
<tr>
<th>Serving size</th>
<th>Meat/meat alternates contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 tablespoon</td>
<td>¼ ounce equivalent (minimum creditable amount)</td>
</tr>
<tr>
<td>2 tablespoons (⅛ cup)</td>
<td>½ ounce equivalent</td>
</tr>
<tr>
<td>3 tablespoons</td>
<td>¾ ounce equivalent</td>
</tr>
<tr>
<td>4 tablespoons (¼ cup)</td>
<td>1 ounce equivalent</td>
</tr>
<tr>
<td>5 tablespoons</td>
<td>1¼ ounce equivalents</td>
</tr>
<tr>
<td>6 tablespoons (⅜ cup)</td>
<td>1½ ounce equivalents</td>
</tr>
<tr>
<td>7 tablespoons</td>
<td>1¾ ounce equivalents</td>
</tr>
<tr>
<td>8 tablespoons (½ cup)</td>
<td>2 ounce equivalents</td>
</tr>
</tbody>
</table>

For information on crediting legumes as vegetables, refer to “Crediting Legumes as Vegetables” in the “Vegetables Component” section.
Crediting roasted or dried legumes as meat/meat alternates

Roasted or dried legumes (such as roasted soybeans or roasted chickpeas) credit as the meat/meat alternates component the same as nuts and seeds. A 1-ounce serving of roasted or dried legumes credits as 1 ounce equivalent of the meat/meat alternates component.

At lunch, roasted or dried legumes cannot credit for more than half of the meat/meat alternates component; they must be combined with another food from the meat/meat alternates component to meet the full serving for each grade group. For more information, refer to “Main Dish Requirement for Lunch,” “Minimum creditable amounts,” and “Crediting Nuts and Seeds” in this section.

For information on crediting roasted or dried legumes as the vegetables component, refer to “Crediting Roasted or Dried Legumes as Vegetables” in the “Vegetables Component” section.

Resources for legumes

The recipes and resources below assist SFAs with incorporating legumes into school meals.

- Beans and Peas are Unique Foods (USDA):
  https://www.choosemyplate.gov/eathealthy/vegetables/vegetables-beans-and-peas

- Recipes for Healthy Kids Cookbook for Schools (USDA):

- Pulses in Schools (USDA Pulses):
  https://www.usapulses.org/schools/school-nutrition

For additional resources, refer to “Recipe Resources” in section 2 and “Legumes (Dried Beans and Peas)” in the CSDE’s Resource List for Menu Planning and Food Production in Child Nutrition Programs.
Crediting Legume Flour Pasta Products as Meat/Meat Alternates

Pasta products made of 100 percent legume flours (such as chickpea flour or lentil flour) credit as the meat/meat alternates component. However, the legume flour pasta must be offered with an additional meat/meat alternate, such as tofu, cheese, or meat. The USDA’s intent for this requirement is to ensure that school menus offer meat/meat alternates in a form that is recognizable to children. For more information, refer to “Requirement for visible components” at the beginning of section 3.

Table 3-8 shows the meat/meat alternates contribution (ounce equivalents) for different amounts of 100 percent legume pasta. A ¼-cup serving of cooked legume flour pasta credits as 1 ounce equivalent of the meat/meat alternates component.

<table>
<thead>
<tr>
<th>Serving size</th>
<th>Meat/meat alternates contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 tablespoon</td>
<td>¼ ounce equivalent (minimum creditable amount)</td>
</tr>
<tr>
<td>¼ cup</td>
<td>½ ounce equivalent</td>
</tr>
<tr>
<td>⅜ cup</td>
<td>¾ ounce equivalents</td>
</tr>
<tr>
<td>¼ cup</td>
<td>1 ounce equivalent</td>
</tr>
<tr>
<td>½ cup</td>
<td>2 ounce equivalents</td>
</tr>
</tbody>
</table>

Alternatively, SFAs may credit legume flour pasta using the bean flour yield information on page C-1 of the FBG’s Appendix C, or with appropriate documentation on the manufacturer’s PFS. For more information, refer to “Product Formulation Statements” in section 2 and the USDA’s resources, *Product Formulation Statement (Product Analysis) for Meat/Meat Alternate (M/MA) Products in Child Nutrition Programs* and *Tips for Evaluating a Manufacturer’s PFS*.

Pasta made of 100 percent legumes may also credit as the vegetables component, but cannot credit as both the vegetables component and meat/meat alternates component in the same meal. For more information, refer to “100 percent vegetable flours crediting as a vegetable” in the Vegetables section.
The requirements for crediting pasta products made of vegetable flours are summarized in USDA Memo SP 26-2019, CACFP 13-2019 and SFSP 12-2019: Crediting Pasta Products Made of Vegetable Flour in the Child Nutrition Programs.

Crediting Meat/Meat Alternates in Combination Entrees

Combination entrees (such as tacos, lasagna, and chicken stir-fry) contain more than one food component. For example, beef lasagna contains the grains component (pasta), the meat/meat alternates component (ground beef and cheese), and the vegetables component (tomato sauce). Most combination entrees cannot be separated (such as pizza or a burrito) or are not intended to be separated (such as hamburger on a bun or turkey sandwich).

For foods made from scratch, SFAs must have a standardized recipe that documents the amount of meat/meat alternates per serving, based on the yields listed in the FBG. For more information, refer to “Standardized Recipes” and “Food Buying Guide for Child Nutrition Programs” in section 2.

For commercial products, SFAs must obtain a CN label (if available) or a PFS stating the amount of the meat/meat alternates component per serving. SFAs are responsible for checking the manufacturer’s PFS for accuracy prior to including the combination entree in school meals. For more information, refer to “Documentation for Commercial Products” in section 2.

Considerations for OVS

If the components of a combination entree can be separated, SFAs may choose whether to allow students to select the individual food components for OVS. For example, if the menu includes a turkey sandwich on a WGR roll, the SFA could allow students to select only the WGR roll or only the turkey. This option works best with made-to-order foods such as sandwiches from a deli bar. It may not be practical for assembled foods such as pre-made sandwiches. These menu-planning decisions affect students’ selection of reimbursable meals when implementing OVS. For more information, refer to the CSDE’s Offer versus Serve Guide for School Meals.
Crediting Meat/Meat Alternates in Commercial Products

To credit as the meat/meat alternates component, commercial products that are processed or contain added ingredients (such as pizza, chicken nuggets, and cheese ravioli) require documentation stating the amount of the meat/meat alternates component per serving. For example, to credit a commercial breaded chicken patty as 1½ ounces of the meat/meat alternates component, the product’s CN label or PFS must state that one serving of the product contains 1½ ounces of cooked chicken. Commercial products cannot credit as the meat/meat alternates component without this documentation.

SFAs must have a CN label or manufacturer’s PFS to document the meal pattern contribution of all commercial meat/meat alternate products used in preschool menus. Commercial products without this documentation cannot credit in preschool meals and snacks. For more information, refer to “Documentation for Commercial Products” in section 2.

The CSDE’s resource, *Crediting Commercial Meat/Meat Alternate Products in the NSLP and SBP*, summarizes the requirements for crediting commercial meat/meat alternates in school menus.
Crediting Nut and Seed Butters

Creditable nut and seed butters include almond butter, cashew nut butter, peanut butter, sesame seed butter, soy nut butter, and sunflower seed butter. Reduced-fat peanut butter credits if it meets the FDA’s standards of identity for peanut butter (21 CFR 164.150), which requires that products contain at least 90 percent peanuts.

The serving for nut and seed butters is based on volume (tablespoons). Two tablespoons of a nut or seed butter credit as 1 ounce of the meat/meat alternates component. Table 3-9 shows the meat/meat alternates contribution for different amounts of nut and seed butters.

<table>
<thead>
<tr>
<th>Serving size</th>
<th>Meat/meat alternates contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 tablespoon</td>
<td>¼ ounce equivalent (minimum creditable amount)</td>
</tr>
<tr>
<td>2 tablespoons (⅛ cup)</td>
<td>¾ ounce equivalent</td>
</tr>
<tr>
<td>3 tablespoons</td>
<td>½ ounce equivalent</td>
</tr>
<tr>
<td>4 tablespoons (¼ cup)</td>
<td>1 ounce equivalent</td>
</tr>
<tr>
<td>5 tablespoons</td>
<td>1½ ounce equivalents</td>
</tr>
<tr>
<td>6 tablespoons (⅜ cup)</td>
<td>2 ounce equivalents</td>
</tr>
</tbody>
</table>

Note: A 1-ounce serving (weight) of a nut or seed butter does not provide 1 ounce equivalent of the meat/meat alternates component. To portion nut and seed butters by weight, food service staff must use the appropriate weight conversion listed in the FBG. The FBG indicates that 1.1 ounces of a nut or seed butter credits as 1 ounce equivalent of the meat/meat alternates component. For more information, refer to “Volume versus weight” in section 2.

Considerations for serving size of nut and seed butters

Menu planners should consider the appropriateness of the serving size for nut and seed butters. It may be unreasonable to provide the full serving of a nut or seed butter in one menu item, such as a peanut butter sandwich. For example, the lunch meal pattern for grades 9-12 requires 4 tablespoons (¼ cup) of peanut butter, which is a large amount for two slices of bread.
The CSDE recommends providing a smaller portion of peanut butter and supplementing with another food from the meat/meat alternates component to provide the full serving. For example, the lunch menu could provide 2 ounce equivalents of meat/meat alternates from:

- a sandwich made with 2 tablespoons of peanut butter (1 ounce equivalent of meat/meat alternates) served with ½ cup of yogurt (1 ounce equivalent of meat/meat alternates); or
- three half-sandwiches (made from three 1-ounce slices of WGR bread) that each contain 4 teaspoons of peanut butter (4 tablespoons total).

For more information on crediting nut and seed butters, refer to the CSDE’s resource, *Crediting Nuts and Seeds in the NSLP and SBP*.

**Crediting Nuts and Seeds**

Creditable nuts and seeds include almonds, Brazil nuts, cashews, filberts, macadamia nuts, peanuts, pecans, walnuts, pine nuts, pistachios, pumpkin seeds, soy nuts, and sunflower seeds. Acorns, chestnuts, and coconuts do not credit. A 1-ounce serving of nuts and seeds credits as 1 ounce equivalent of the meat/meat alternates component.

Roasted or dried soybeans credit the same as soy nuts. However, fresh soybeans (edamame) credit only as the vegetables component (legumes subgroup). For more information, refer to “Vegetable Subgroups at Lunch” in the “Vegetables Component” section.

**Limit for nuts and seeds at lunch**

Nuts and seeds cannot credit for more than half of the meat/meat alternates component at lunch. Menu planners must combine nuts and seeds with another food from the meat/meat alternates component to meet the full requirement. The example below illustrates this requirement.

- The lunch meal pattern for grades 9-12 requires 2 ounce equivalents of the meat/meat alternates component. A lunch for this grade group cannot contain more than 1 ounce of nuts or seeds. The menu must also include 1 ounce of another meat/meat alternate, such as ½ cup of yogurt, 1 ounce of cooked lean meat, 1 ounce of cheese, ¼ cup of cottage cheese, ¼ cup of cooked legumes, or half of a large egg.

For more information, refer to “Minimum creditable amounts” in the beginning of section 3 and the CSDE’s resource, *Crediting Nuts and Seeds in the NSLP and SBP*.
Crediting Surimi Seafood

Surimi seafood is a pasteurized, ready-to-eat, restructured seafood product usually made from pollock (fish). Surimi seafood is available in many forms and shapes, including chunks, shredded, and flaked. It does not require additional preparation. Surimi seafood can be incorporated into a variety of menu items, such as seafood salads, sushi-style rolls, sandwiches, tacos, and ramen.

The amount of fish in surimi varies depending on the manufacturer and product. Surimi seafood may contain as little as one-third seafood ingredient, and may include other creditable food ingredients. A 3-ounce serving of surimi credits as 1 ounce equivalent of the meat/meat alternates component. Table 3-10 shows the meat/meat alternates contribution (ounce equivalents) for different amounts of surimi seafood.

<table>
<thead>
<tr>
<th>Serving size</th>
<th>Meat/meat alternates contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 ounce</td>
<td>¼ ounce equivalent</td>
</tr>
<tr>
<td>2.0 ounces</td>
<td>½ ounce equivalent</td>
</tr>
<tr>
<td><strong>3.0 ounces</strong></td>
<td><strong>1 ounce equivalent</strong></td>
</tr>
<tr>
<td>4.4 ounces</td>
<td>1½ ounce equivalents</td>
</tr>
<tr>
<td>6.0 ounces</td>
<td>2 ounce equivalents</td>
</tr>
</tbody>
</table>

The crediting ratio for surimi seafood differs based on portion size due to USDA rounding rules that require rounding down to the nearest 0.25 ounce.

To credit surimi seafood differently from the amounts in table 3-10, SFAs must obtain a CN label or manufacturer’s PFS that documents how the crediting is determined. For example, a manufacturer’s PFS might document that 1 ounce of a surimi seafood product credits as ½ ounce equivalent of the meat/meat alternates component. For more information, refer to “Documentation for Commercial Products” in section 2.

The requirements for crediting surimi are summarized in USDA Memo SP 24-2019, CACFP 11-2019 and SFSP 10-2019: Crediting Surimi Seafood in the Child Nutrition Programs. For additional guidance on crediting surimi, watch the USDA’s webinar, Additional Meat/Meat Alternate Options for CNPs: Crediting Tempeh and Surimi.
Crediting Tempeh

Tempeh is a highly nutritious fermented soybean cake traditionally made from whole soybeans. Tempeh may be used as a meat alternate in a variety of recipes, including stir-fries, sandwiches, and salads.

A 1-ounce serving of tempeh credits as 1 ounce equivalent of the meat/meat alternates component. This method of crediting applies only to tempeh products whose ingredients are limited to soybeans (or other legumes), water, tempeh culture, and for some varieties, vinegar, seasonings, and herbs. If a tempeh product contains other ingredients, SFAs must obtain a CN label or PFS to document crediting. For more information, refer to “Documentation for Commercial Products” in section 2.

Varieties of tempeh that include other creditable foods as ingredients (such as brown rice, sunflower seeds, sesame seeds, flax seed, and vegetables) may also credit as the meat/meat alternates component, grains component, and vegetables component. To credit in the NSLP and SBP meal patterns for grades K-12, a product must provide the minimum creditable quantities, i.e., ¼ ounce equivalent of meat/meat alternates, ¼ serving of grains, and ¼ cup of vegetables. SFAs must obtain a CN label or manufacturer’s PFS to document how much tempeh and other creditable foods these products contain.

The requirements for crediting tempeh are summarized in USDA Memo SP 25-2019, CACFP 12-2019 and SFSP 11-2019: Crediting Tempeh in the Child Nutrition Programs. For additional guidance on crediting tempeh, refer to the USDA’s webinar, Additional Meat/Meat Alternate Options for CNPs: Crediting Tempeh and Surimi.
Crediting Tofu and Tofu Products

Commercial tofu and tofu products must meet the two criteria below to credit as the meat/meat alternates component.

1. The product must be easily recognizable as a meat substitute. Examples include tofu burgers and tofu sausage. For more information, refer to “Requirement for visible components” at the beginning of section 3.

2. The tofu ingredient must contain at least 5 grams of protein in a 2.2-ounce serving by weight (¼ cup volume equivalent).

SFAs must maintain documentation on file to indicate that tofu products comply with these requirements. For information on how to calculate the grams of protein per serving, refer to the CSDE’s resource, *Crediting Tofu and Tofu Products in the NSLP and SBP.*
Crediting Yogurt and Soy Yogurt

Commercial yogurt and soy yogurt credit as the meat/meat alternates component. Yogurt may be unflavored or flavored; sweetened or unsweetened; whole-fat, low-fat, or nonfat; and may contain added fruit, either blended or on the bottom. Yogurt must meet the Food and Drug Administration’s (FDA) standard of identity for yogurt (21 CFR 131.200), low-fat yogurt (21 CFR 131.203), or nonfat yogurt (21 CFR 131.206).

Serving size for yogurt

The serving size for yogurt is based on volume (cups) or weight (ounces) and is the same for all types, flavors, and fat contents. A ½-cup serving (volume) or 4 ounces (weight) credits as 1 ounce equivalent of the meat/meat alternates component in the NSLP and SBP meal patterns for grades K-12. Table 3-11 shows the meat/meat alternates contribution for different amounts of yogurt.

<table>
<thead>
<tr>
<th>Serving size</th>
<th>Meat/meat alternates contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>⅛ cup or 1 ounce</td>
<td>¼ ounce equivalent (minimum creditable amount)</td>
</tr>
<tr>
<td>¼ cup or 2 ounces</td>
<td>½ ounce equivalent</td>
</tr>
<tr>
<td>½ cup or 4 ounces</td>
<td>1 ounce equivalent</td>
</tr>
<tr>
<td>¾ cup or 6 ounces</td>
<td>1½ ounce equivalents</td>
</tr>
<tr>
<td>1 cup or 8 ounces</td>
<td>2 ounce equivalents</td>
</tr>
</tbody>
</table>

Yogurt in Smoothies

Yogurt or soy yogurt that meets the sugar limit may credit as the meat/meat alternates component when used as an ingredient in a smoothie. A ½-cup serving of yogurt credits as 1 ounce of the meat/meat alternates component. SFAs must document the amount of yogurt per serving with a standardized recipe for smoothies made on site, and a CN label or PFS for commercial products. For more information, refer to “Standardized Recipes” and “Documentation for Commercial Products” in section 2.

The addition of yogurt to a smoothie is not a substitution for fluid milk. Fluid milk must be offered at breakfast and lunch to meet the milk component requirement of the NSLP and
SBP meal patterns. For more information on smoothies, refer to “Crediting Fruit and Vegetable Smoothies” in the “Fruits Component” section.

**Noncreditable yogurt**

Drinkable or squeezable yogurt and frozen yogurt do not credit in the NSLP and SBP meal patterns. The FDA’s definition and standard of identity requires that yogurt must be “coagulated,” not liquid. The FDA does not have a standard of identity for frozen yogurt.

Homemade yogurt does not credit for food safety reasons. Yogurt-flavored products (such as yogurt bars and yogurt-covered fruit or nuts) do not meet the FDA’s definition and standard of identity for yogurt, and do not credit.

**Serving the same yogurt to grades K-12 and preschoolers**

The meal patterns for grades K-12 do not limit sugars in yogurt and soy yogurt. However, the meal patterns for preschoolers require that yogurt and soy yogurt cannot exceed 23 grams of total sugars per 6 ounces (no more than 3.83 grams per ounce).

When SFAs serve the same types of yogurt or soy yogurt to grades K-12 and preschoolers, these foods must comply with the preschool sugar limit for yogurt. The only exception is when preschoolers and grades K-5 eat in the same service area at the same time, and the SFA chooses to follow the K-5 meal pattern for both grade groups. For more information, refer to “Serving the same foods to grades K-12 and preschoolers” and “Preschoolers and grades K-5 eating together” in section 1, and the CSDE’s resource, *Crediting Yogurt for Preschoolers in the NSLP and SBP*.

For additional guidance on the preschool meal patterns, refer to the CSDE’s *Menu Planning Guide for Preschoolers in the NSLP and SBP*. For information on the differences between the two grade groups, refer to the CSDE’s resource, *Comparison of Meal Pattern Requirements for Preschoolers and Grades K-12 in the NSLP and SBP*.

**Resources for crediting yogurt**

The resources below assist menu planners with crediting yogurt as the meat/meat alternates component in the NSLP and SBP meal patterns for grades K-12.

- Crediting Smoothies for Grades K-12 in the NSLP and SBP in the NSLP and SBP (CSDE):
  https://portal.ct.gov/~/media/SDE/Nutrition/NSLP/Crediting/CreditSmoothiesSNP.pdf
3 | Meal Components


Noncreditable Foods in the Meat/Meat Alternates Component

Examples of foods that do not credit as the meat/meat alternates component include, but are not limited to:

- bacon;
- commercial canned soups, e.g., beef barley, beef noodle, turkey or chicken noodle, and turkey or chicken rice;
- cream cheese;
- drinkable yogurt;
- egg whites;
- frozen yogurt;
- imitation cheese;
- products made with tofu that are not easily recognized as meat substitutes;
- sour cream;
- tofu that contains less than 5 grams of protein in 2.2-ounce serving by weight; and

For more information, refer to “Noncreditable Foods” at the beginning of section 3, and the CSDE’s resource, Noncreditable Foods for Grades K-12 in the NSLP and SBP.

Menu planners should use the FBG to identify foods that credit as the meat/meat alternates component. For more information, refer to “Food Buying Guide for Child Nutrition Programs” in this section.
Common Compliance Issues for the Meat/Meat Alternates Component

School menus must comply with the USDA’s requirements for the meat/meat alternates component. The common compliance issues indicated below are based on the CSDE’s Administrative Review of the school nutrition programs. SFAs must plan menus to avoid these compliance issues.

- **Incorrect crediting of commercial combination foods**: SFAs must use a CN label or PFS to determine the crediting information for commercial combination foods, such as chicken nuggets and pizza. Commercial products without appropriate crediting documentation cannot credit in school meals. For more information, refer to “Crediting Meat/Meat Alternates in Commercial Products” in this section.

- **Incorrect crediting of deli meats**: SFAs cannot credit commercial meat products (such as deli meats and hotdogs) based on weight. Commercial meat products credit based on the specified serving weight in the product’s CN label or PFS. For more information, refer to “Crediting Deli Meats, Hot Dogs, and Sausage” and “Crediting Meat/Meat Alternates in Commercial Products” in this section.

- **Incorrect crediting of peanut butter**: The meal pattern serving size for peanut butter is based on volume (tablespoons) not weight (ounces). A 1-ounce serving (weight) of peanut butter does not provide 1 ounce equivalent of the meat/meat alternates component. SFAs must serve 2 tablespoons of peanut butter (1.1 ounces) to credit as 1 ounce equivalent of the meat/meat alternates component. For more information, refer to “Crediting Nut and Seed Butters” in this section.

- **Crediting bacon and cream cheese**: Bacon and cream cheese are high in fat and low in protein and do not contribute to the meat/meat alternates component. **Note**: Some types of turkey bacon might credit, depending on the product’s CN label or PFS. For more information, refer to “Noncreditable Meat/Meat Alternates,” “Crediting Deli Meats, Hot Dogs, and Sausage” and “Crediting Meat/Meat Alternates in Commercial Products” in this section.

- **Using the wrong standardized recipe**: The recipe that the menu planner uses to determine crediting information must be the same recipe that kitchen staff use to prepare the food. Crediting errors can occur when kitchen staff use a different recipe. SFAs must maintain accurate standardized recipes on file that reflect the foods being prepared in the kitchen. For more information, refer to “Standardized Recipes” in section 2.
Resources for Crediting Meat/Meat Alternates

The resources below assist menu planners with crediting foods as the meat/meat alternates component in the NSLP and SBP meal patterns.

- Food Buying Guide Section 1: Yield Table for Meat/Meat Alternates (USDA): https://foodbuyingguide.fns.usda.gov/files/Reports/USDA_FBG_Section1_MeatsAndMeatAlternatesYieldTable.pdf
• Questions and Answers on Alternate Protein Products (USDA):

• Requirements for Alternate Protein Products in the NSLP and SBP (CSDE):
  https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/
  APPRequirementsSNP.pdf

• Tips for Evaluating a Manufacturer’s Product Formulation Statement (USDA):
  https://fns-prod.azureedge.net/sites/default/files/resource-files/
  manufacturerPFStipsheet.pdf

• USDA Memo SP 21-2019, CACFP 08-2019 and SFSP 07-2019: Crediting Shelf-Stable,
  Dried and Semi-Dried Meat, Poultry, and Seafood Products in the Child Nutrition
  Programs:
  and-seafood-products-child-nutrition

• USDA Memo SP 24-2019, CACFP 11-2019 and SFSP 10-2019: Crediting Surimi
  Seafood in the Child Nutrition Programs:

• USDA Memo SP 25-2019, CACFP 12-2019 and SFSP 11-2019: Crediting Tempeh in
  the Child Nutrition Programs:
  https://www.fns.usda.gov/cn/crediting-tempeh-child-nutrition-programs

• USDA Memo SP 26-2019, CACFP 13-2019 and SFSP 12-2019: Crediting Pasta
  Products Made of Vegetable Flour in the Child Nutrition Programs:
  https://www.fns.usda.gov/crediting-pasta-products-made-vegetable-flour-child-
  nutrition-programs

• USDA Memo SP 53-2016 and CACFP 21-2016: Crediting Tofu and Soy Yogurt
  Products in the School Meal Programs and the CACFP:
  https://www.fns.usda.gov/crediting-tofu-and-soy-yogurt-products-school-meal-
  programs-and-cacfp

• USDA Webinar: Moving Forward: Update on Food Crediting in Child Nutrition
  Programs with Guidance for Dried Meat Products:
  https://www.fns.usda.gov/tn/moving-forward-update-food-crediting-dried-meat-
  products

For additional crediting resources, visit the “Meat/Meat Alternates Component for Grades
K-12” section of the CSDE’s Crediting Foods in School Nutrition Programs webpage.
Vegetables Component

The vegetables component includes fresh, frozen, canned, and rehydrated dried vegetables; and pasteurized full-strength vegetable juice. Legumes credit as the vegetables component or the meat/meat alternates component, but not both in the same meal.

Required Daily and Weekly Servings at Lunch

The lunch meal pattern requires a daily serving of the vegetables component and weekly servings of five vegetable subgroups. Table 3-12 summarizes the required servings of the vegetables component for each grade group.

The vegetables component is not required at breakfast. However, SFAs may substitute vegetables for the fruits component at any breakfast. For more information, refer to “Vegetables at Breakfast” in this section.

<table>
<thead>
<tr>
<th>Grades</th>
<th>Five-day week</th>
<th>Seven-day week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Daily</td>
<td>Weekly</td>
</tr>
<tr>
<td>K-5</td>
<td>¾ cup</td>
<td>3¼ cups</td>
</tr>
<tr>
<td>6-8</td>
<td>¾ cup</td>
<td>3¼ cups</td>
</tr>
<tr>
<td>9-12</td>
<td>1 cup</td>
<td>5 cups</td>
</tr>
</tbody>
</table>

1 The weekly amounts include minimum servings of five vegetable subgroups. For more information, refer to “Vegetable Subgroups at Lunch” in this section.
Daily servings of vegetables

SFAs may choose to serve a combination of several vegetables to meet the daily requirement, as long as each serving contains at least ⅛ cup of vegetables (refer to “Minimum creditable amounts” in the beginning of section 3). For example, a lunch menu for grades K-5 could meet the required ¼-cup serving of the vegetables component with ½ cup of broccoli and ¼ cup of carrots. Servings that contain less than ⅛ cup of vegetables do not credit.

Weekly servings of vegetables

The NSLP meal pattern requires minimum weekly servings of the five vegetable subgroups: dark green; red/orange; beans and peas (legumes); starchy; and “other.” For more information, refer to “Vegetable Subgroups at Lunch” in this section.

Serving Size for Vegetables

The amounts for the vegetables component refer to the edible portion after any applicable preparation techniques, such as peeling, trimming, and cooking. All vegetables credit based on volume (cups) with the exceptions below.

- Raw leafy greens credit as half the volume served (refer to “Crediting Raw Leafy Greens” in this section).
- Dried or dehydrated vegetables (such as potato flakes and dried soup mix) credit based on the amount of vegetables per serving in the rehydrated volume (refer to “Crediting Dried Vegetables” in this section).

Menu planners should consult the USDA’s FBG to determine the number of servings provided by a specific quantity of vegetables. For more information, refer to “Food Buying Guide for Child Nutrition Programs” in section 2.
Meeting the required vegetable servings

If a menu item contains less than the full serving of the vegetables component, the meal must include additional vegetables to meet the full serving for each grade group. For example, the daily lunch meal pattern for grades K-5 requires ¾ cup of the vegetables component. If a menu item contains ¼ cup of vegetables, the menu planner must include another menu item with at least ½ cup of vegetables to provide the full serving.

Vegetables offered in amounts less than ⅛ cup are not included in the calculation of the daily and weekly vegetable servings, but count toward the weekly dietary specifications. For more information, refer to “Minimum creditable amounts” in the beginning of section 3 and “Dietary Specifications” in section 1.

Required signage to identify vegetable servings for students

SFAs must use meal identification signage to instruct students on how much food to select from each component daily for a reimbursable meal, based on the planned serving sizes for each grade group. For example, if a high school allows students to select two ½-cup servings of vegetables to meet the minimum daily 1-cup serving for grades 9-12, the cafeteria signage must clearly communicate that students may select up to two servings of vegetables with each meal. This signage must be on the serving line where the vegetable selections are located. For more information, refer to “Meal Identification Signage” in section 5.
Vegetables at Breakfast

Per Section 743, Division A of the Consolidated Appropriations Act, 2021 (Public Law 116-260), SFAs may substitute any vegetables (including potatoes and other starchy vegetables) for the fruits component at any breakfast, without including vegetables from other subgroups in the weekly menu. This flexibility is in effect for school year 2021-22.

History of USDA’s vegetable substitution requirements

The SBP regulations (7 CFR 220.8 (c)) do not allow starchy vegetables to substitute for the fruits component unless the weekly breakfast menu also includes at least 2 cups of nonstarchy vegetables, e.g., vegetables from the dark green, red/orange, beans and peas (legumes), or “other” vegetable subgroups. The USDA has issued several memos to change this requirement.

On March 18, 2019, USDA Memo SP 16-2019 indicated that SFAs could substitute any vegetables (including starchy vegetables) for the required 1 cup of the fruits component through September 30, 2019. The CSDE provided guidance on this requirement in CSDE Operational Memorandum No. 13-19: Substitution of Vegetables for the Fruits Component in the School Breakfast Program (SBP) for Grades K-12.

On December 3, 2019, the USDA notified state agencies that the short-term continuing resolution that funds federal agencies, Further Continuing Appropriations Act, 2020, and Further Health Extenders Act of 2019 (P.L. 116-69), enacted November 21, 2019, extended this flexibility through December 20, 2019.

On January 22, 2020, the USDA issued USDA Memo SP 06-2020, which superseded the December 20, 2019, deadline in USDA Memo SP 16-2019, and extended the flexibility to offer any vegetables for the fruits component through June 30, 2021.

On May 14, 2021, the USDA issued USDA Memo SP 11-2021, CACFP 10-2021 and SFSP 06-2021: Consolidated Appropriations Act 2021: Effect on Child Nutrition Programs – REVISED. This memo summarizes Section 743, Division A of the Consolidated Appropriations Act, 2021 (Public Law 116-260), which specifies that SFAs participating in the SBP may credit any vegetable offered, including potatoes and other starchy vegetables, in place of fruit without including vegetables from other subgroups in the weekly menus. This flexibility is effective for school year 2021-22.
**Vegetable Subgroups at Lunch**

The lunch meal pattern requires weekly servings of the five vegetable subgroups based on the recommendations of the *Dietary Guidelines for Americans* and the vegetables group in Choose MyPlate. The five vegetable subgroups include:

- **dark green** such as bok choy, broccoli, collard greens, dark green leafy lettuce, kale, mesclun, mustard greens, romaine lettuce, spinach, turnip greens, and watercress;

- **red/orange** such as acorn squash, butternut squash, carrots, pumpkin, tomatoes, tomato juice, and sweet potatoes;

- **beans/peas (legumes)** such as black beans, black-eyed peas (mature, dry), garbanzo beans (chickpeas), kidney beans, lentils, navy beans, soybeans, split peas, and white beans;

- **starchy** such as black-eyed peas (not dry), corn, cassava, green bananas, green peas, green lima beans, whole hominy (canned, drained), jicama, parsnips, plantains, taro, water chestnuts, and white potatoes; and

- **other**, a distinct grouping of food items classified by the *Dietary Guidelines for Americans*, including all other vegetables such as artichokes, asparagus, avocado, cooked bean sprouts (raw sprouts cannot be served for food safety reasons), beets, Brussels sprouts, cabbage, cauliflower, celery, cucumbers, eggplant, green beans, green peppers, iceberg lettuce, mushrooms, okra, onions, turnips, wax beans, and zucchini. SFAs may meet the “other” vegetables requirement with any additional amounts from the dark green, red/orange, and beans/peas (legumes) vegetable subgroups but not the starchy subgroup.

SFAs may offer the vegetable subgroups in any order and amount throughout the week, as long as the lunch menu meets the minimum weekly requirements. There is no daily requirement for the vegetable subgroups. SFAs may choose to break up the subgroup requirements throughout the week and offer the same vegetable subgroup several different times during the week if:

- the weekly menu meets the full vegetable subgroup requirements; and
- each day’s lunch includes the minimum serving of vegetables.

For example, for a five-day menu, SFAs can meet the weekly ½-cup requirement for legumes by offering a black bean salsa on Monday that provides ¼ cup of beans and a bean burrito on
Thursday that provides ¼ cup of beans. The menu must also include additional vegetable servings so that each meal meets the minimum daily vegetables for each grade group (¼ cup for grades K-5 and 6-8, and 1 cup for grades 9-12).

All students must have access to the appropriate quantities of all vegetable subgroups each week. If a school has multiple serving lines, each serving line must offer all vegetable subgroups on a weekly basis, in at least the minimum required amounts. For more information, refer to “Avoiding Vegetable Subgroup Conflicts” in this section.

For information on the vegetable subgroups, refer to the CSDE’s resource, *Vegetable Subgroups in the NSLP*. For guidance and examples of how to use the FBG to determine purchasing and crediting information for vegetables, review chapter 2 of the USDA’s guide, *Menu Planner for School Meals*.

**Waiver for vegetable subgroups during COVID-19**

During the current COVID public health emergency, the USDA is allowing several flexibilities for the NSLP and SBP meal patterns, including a waiver of the requirement that menus must offer a variety of vegetables from the vegetable subgroups at lunch. SFAs that cannot meet the vegetable subgroups requirement may request a waiver from the CSDE. If approved by the CSDE, this waiver is in effect through June 30, 2022. For more information, refer to “Meal Pattern Flexibilities during COVID-19” in section 1.

**Additional Vegetables**

In addition to the five subgroups, the lunch meal pattern includes another category of “additional” vegetables that are required to meet the minimum weekly amounts of vegetables for each grade group. The serving sizes for the five subgroups do not add up to the total weekly vegetables requirement for lunch. The additional vegetables category makes up the difference.

Table 3-13 shows the weekly lunch meal pattern requirements for the vegetable subgroups and the amount of additional vegetables needed for each grade group. For example, the vegetable subgroups in the five-day meal pattern for grades K-5 and 6-8 add up to 2¼ cups per week. Since both grade groups require 3¼ cups of vegetables per week, SFAs must provide 1 cup of additional vegetables to meet the minimum weekly total. These additional vegetables can come from any of the five subgroups.
**Table 3-13. Weekly vegetable subgroups and additional vegetables at lunch**

<table>
<thead>
<tr>
<th>Vegetables (cups)</th>
<th>Five-day week</th>
<th>Seven-day week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Grades K-5</td>
<td>Grades 9-12</td>
</tr>
<tr>
<td></td>
<td>and 6-8</td>
<td>and 6-8</td>
</tr>
<tr>
<td>Dark green</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Red/orange</td>
<td>¾</td>
<td>1¼</td>
</tr>
<tr>
<td>Beans/peas (legumes)</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Starchy</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Other</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>2¾</td>
<td>3½</td>
</tr>
<tr>
<td><strong>Additional vegetables</strong></td>
<td><strong>1</strong></td>
<td><strong>1½</strong></td>
</tr>
<tr>
<td><strong>required for weekly total</strong></td>
<td><strong>1½</strong></td>
<td><strong>2½</strong></td>
</tr>
<tr>
<td><strong>Total weekly vegetables</strong></td>
<td><strong>3½</strong></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>

Additional vegetables may be from any of the five subgroups (dark green, red/orange, legumes, starchy, and other).
Ensuring Compliance with the Vegetable Subgroups

SFA's must ensure that lunch menus offer students access to the required amounts of the vegetable subgroups each week. The guidance below helps SFA's meet this requirement.

Offering vegetable subgroups on multiple serving lines

When SFA's have multiple serving lines or offer a variety of meals, the USDA requires that all food components must be available to all students on every serving line, in at least the minimum required amounts. For example, when schools have multiple serving lines with different menu items, each serving line must offer all of the vegetable subgroups during the week, and provide the minimum weekly servings of the grains and meat/meat alternates components.

For the purposes of meeting the NLSP meal pattern requirements, menu planners should think of each serving line as its own entity. The daily and weekly requirements must be in place for each serving line.

The example below shows how this requirement applies to the weekly vegetable subgroups.

A school has three different lunch lines, including a hot lunch line, a deli line, and a grill line. Monday’s hot lunch menu features baked beans (legumes subgroup) as the daily vegetables. To meet the weekly vegetable subgroups requirement, baked beans (or another vegetable from the legumes subgroup) must also be available on the other two serving lines. For example, Monday’s menu for the deli line and grill line must include baked beans or another legume, such as garbanzo beans or lentils. It is not acceptable for the SFA to post signs on the deli line and grill line directing students to select the vegetable subgroup choice from a different serving line. Each serving line must offer the full meal, including all vegetable subgroups on a weekly basis.

A best practice to ensure that school lunch menus meet the weekly vegetable subgroups is for each serving line to offer a daily vegetable subgroup “rainbow” tray that contains a vegetable from each subgroup, such as carrots (red/orange), broccoli (dark green), corn (starchy), sliced cucumbers (other), and kidney beans (legumes). Offering a daily rainbow tray on each serving line meets the NSLP meal pattern requirements for the weekly vegetable subgroups.
Offering vegetable subgroups on one serving line with multiple meal choices

When SFAs offer a variety of meals on the same serving line, the USDA requires that all food components must be available to all students for every meal, in at least the minimum required amounts. Each lunch choice on the serving line must offer students access to the same daily vegetable subgroups, unless the school offers that subgroup again later in the week or offers a daily rainbow tray.

For example, a school offers a hot lunch choice and cold lunch choice on the same lunch line. Tuesday’s menu offers corn (starchy subgroup) as the daily vegetables component for the hot lunch menu and baby carrots (red/orange subgroup) as the daily vegetables component for the cold lunch menu. If the cold lunch menu does not offer corn (or another starchy vegetable) later in the week, it must offer corn (or another starchy vegetable) on Tuesday. Otherwise, the students selecting cold lunch on Tuesday do not have access to all of the required weekly vegetable subgroups.

As with multiple serving lines, offering a daily rainbow tray is a best practice to meet the NSLP meal pattern requirements for the weekly vegetable subgroups.

Avoiding vegetable subgroup conflicts

School menus must meet the vegetable subgroup requirements on a weekly basis. The vegetable subgroup requirements do not apply to each individual day. Menu planners may choose what combinations of vegetable subgroups to offer each day. Each subgroup must be available to all students in at least the minimum quantities during the week.

The lunch menu cannot require students to choose one subgroup over another on a single day if these subgroups are not offered again during the week. If the daily lunch menu requires students to choose between two different subgroups, there is a vegetable subgroup conflict. To resolve this conflict, the SFA must make these subgroups available for student selection on another day that week. Table 3-14 shows an example of a vegetable subgroup conflict.
Table 3-14. Example of vegetable subgroup conflict

<table>
<thead>
<tr>
<th>Entree item (student chooses one)</th>
<th>Portion size</th>
<th>Subgroup contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chili con carne with beans</td>
<td>1 cup (contains 1/2 cup of kidney beans)</td>
<td>1/2 cup of legumes</td>
</tr>
</tbody>
</table>
| Chicken Caesar salad             | 2 cups of romaine lettuce 2 ounce equivalents of grilled chicken| 1 cup of dark green vegetables | ¹

¹ Raw leafy greens credit as half the volume served, e.g., 1 cup of romaine lettuce credits as 1/2 cup of the vegetables component (dark green subgroup).

In this example, the lunch menu offers a choice of two entrees with different vegetable subgroups on the same day. The dark green vegetable subgroup (romaine lettuce) is offered in one entree item (chicken Caesar salad) and the beans/peas subgroup (kidney beans) is offered in another entree item (chili con carne). Since students may choose only one entree, this lunch menu has a vegetable subgroup conflict. To resolve this conflict, the lunch menu must provide another opportunity later in the week for students to select either dark green vegetables or legumes. The lunch menu will meet the vegetable subgroup requirement if the SFA:

- serves a legume and a dark green vegetable on another day (not as part of the entree); or
- chooses to credit the kidney beans (legumes) as the meat/meat alternates component and serves legumes on another day as the vegetables component.

SFAs should review all lunch menus to ensure that each serving line offers the minimum weekly amount of each vegetable subgroup. For more information, refer to “Vegetable Subgroups at Lunch” in this section.

**Vegetable subgroup substitutions**

SFAs must train school food service staff on how to make appropriate substitutions within each vegetable subgroup. Substitutions must be from the same vegetable subgroup, unless the SFA offers a daily rainbow tray that contains all five subgroups. For example, if the kitchen runs out of broccoli, school food service staff must substitute another vegetable from the dark green vegetables subgroup. If the SFA does not offer all vegetable subgroups each day, a
vegetable substitution from a different subgroup could cause the menu to be noncompliant with the weekly vegetable subgroups requirement.

Menu Planning Tips for Vegetable Subgroups

The simplest strategy to ensure that menus meet the weekly vegetable subgroups requirement is to develop a vegetable subgroup cycle menu. SFAs may offer the weekly vegetable subgroup choices in a variety of ways, such as:

- one choice from a different vegetable subgroup each day;
- more than one choice from a different vegetable subgroup each day;
- one choice from each of the five subgroups every day;
- more than one choice from each of the five subgroups every day.

SFAs may also choose to offer the same foods from a particular subgroup each week. For example, the red/orange subgroup could be carrots and sweet potatoes every week. However, the USDA encourages schools to include a variety of choices from the vegetable subgroups for best nutrition.

The following examples show how SFAs could develop a vegetable subgroup cycle menu that meets the weekly vegetable subgroups. Table 3-15 shows a sample cycle menu that includes two daily choices from a different subgroup each day. SFAs could also decide to offer only one daily choice or more than one daily choice. Another option is to allow the kitchen manager the flexibility to select the daily vegetable choice or choices for that day’s specified subgroup. This allows for more flexibility based on the planned menu items, and the cost, seasonality, and availability of the vegetables within the daily subgroup.

The disadvantages of serving vegetables from only one subgroup each day include less variety and less colorful meals. Since colorful meals are more attractive and eye appealing to students, SFAs may want to offer choices from at least two different vegetable subgroups each day.
Table 3-15. Sample cycle menu 1: Daily vegetable subgroups

<table>
<thead>
<tr>
<th>Week</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dark green</td>
<td>Red/orange</td>
<td>Legumes</td>
<td>Starchy</td>
<td>Other</td>
</tr>
<tr>
<td></td>
<td>Broccoli</td>
<td>Carrots</td>
<td>Chickpeas</td>
<td>Corn</td>
<td>Cucumbers</td>
</tr>
<tr>
<td></td>
<td>Red leaf lettuce</td>
<td>Sweet potato</td>
<td>Edamame</td>
<td>Peas</td>
<td>Green beans</td>
</tr>
<tr>
<td>2</td>
<td>Red/orange</td>
<td>Legumes</td>
<td>Starchy</td>
<td>Other</td>
<td>Dark green</td>
</tr>
<tr>
<td></td>
<td>Orange peppers</td>
<td>Lentils</td>
<td>Water chestnuts</td>
<td>Cauliflower</td>
<td>Spinach</td>
</tr>
<tr>
<td></td>
<td>Butternut squash</td>
<td>Kidney beans</td>
<td>Red potatoes</td>
<td>Cabbage</td>
<td>Romaine lettuce</td>
</tr>
<tr>
<td>3</td>
<td>Legumes</td>
<td>Starchy</td>
<td>Other</td>
<td>Dark green</td>
<td>Red/orange</td>
</tr>
<tr>
<td></td>
<td>Split peas</td>
<td>Corn</td>
<td>Celery</td>
<td>Boston lettuce</td>
<td>Acorn squash</td>
</tr>
<tr>
<td></td>
<td>Black beans</td>
<td>Potatoes</td>
<td>Green peppers</td>
<td>Kale</td>
<td>Tomatoes</td>
</tr>
<tr>
<td>4</td>
<td>Starchy</td>
<td>Other</td>
<td>Dark green</td>
<td>Red/orange</td>
<td>Legumes</td>
</tr>
<tr>
<td></td>
<td>Peas</td>
<td>Beets</td>
<td>Broccoli</td>
<td>Carrots</td>
<td>Split peas</td>
</tr>
<tr>
<td></td>
<td>Lima beans</td>
<td>Zucchini</td>
<td>Mesclun</td>
<td>Tomatoes</td>
<td>Navy beans</td>
</tr>
</tbody>
</table>

Table 3-16 shows a sample cycle menu that includes choices from all five subgroups every day. SFAs could choose to do this in a variety of ways that include some or all of the following:

- allowing students to self-serve from a vegetable bar, if a salad bar unit is available;
- allowing students to self-serve from vegetable “rainbow trays” on the serving line that contain pre-portioned vegetables from each subgroup; and
- serving hot vegetable choices to students from the lunch lines.

SFAs can include all required subgroups every day or throughout the week if all students have access to each vegetable subgroup on a weekly basis. These options provide extensive variety and more colorful and attractive meals.

As with the previous example, SFAs could also decide to offer only one daily choice or more than one daily choice, and allow the kitchen manager the flexibility to select the daily vegetable choice or choices.
### Meal Components

#### Vegetables

<table>
<thead>
<tr>
<th>Vegetable subgroup</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dark green</td>
<td>Broccoli</td>
<td>Spinach</td>
<td>Boston lettuce</td>
<td>Broccoli</td>
<td>Bok choy</td>
</tr>
<tr>
<td></td>
<td>Red leaf lettuce</td>
<td>Romaine lettuce</td>
<td>Kale</td>
<td>Mesclun</td>
<td>Green leaf lettuce</td>
</tr>
<tr>
<td>Red/orange</td>
<td>Carrots</td>
<td>Orange peppers</td>
<td>Acorn squash</td>
<td>Carrots</td>
<td>Red peppers</td>
</tr>
<tr>
<td></td>
<td>Sweet potato</td>
<td>Butternut squash</td>
<td>Tomatoes</td>
<td>Tomatoes</td>
<td>Sweet potato</td>
</tr>
<tr>
<td>Legumes</td>
<td>Chickpeas</td>
<td>Lentils</td>
<td>Split peas</td>
<td>Pinto beans</td>
<td>Garbanzo beans</td>
</tr>
<tr>
<td></td>
<td>Edamame</td>
<td>Kidney beans</td>
<td>Navy beans</td>
<td>Black beans</td>
<td>Kidney beans</td>
</tr>
<tr>
<td>Starchy</td>
<td>Corn</td>
<td>Water chestnuts</td>
<td>Jicama</td>
<td>Peas</td>
<td>Plantains</td>
</tr>
<tr>
<td></td>
<td>Peas</td>
<td>Red potatoes</td>
<td>Potatoes</td>
<td>Lima beans</td>
<td>Cassava</td>
</tr>
<tr>
<td>Other</td>
<td>Cucumbers</td>
<td>Cauliflower</td>
<td>Celery</td>
<td>Beets</td>
<td>Snow peas</td>
</tr>
<tr>
<td></td>
<td>Green beans</td>
<td>Cabbage</td>
<td>Green peppers</td>
<td>Zucchini</td>
<td>Summer squash</td>
</tr>
</tbody>
</table>

### Salad Bars

The USDA encourages the use of salad bars in school nutrition programs. SFAs can use a daily salad bar line to meet the weekly vegetable subgroups requirement if the salad bar is available to all students each day and offers all required subgroups every day or over the week.

### Point of service (POS) positioning

Students must select all of the components for a reimbursable meal, including the vegetable subgroups, from the regular lunch lines before the point of service (POS). The POS is the point in the food service operation where staff can accurately determine that a reimbursable free, reduced-price, or paid lunch has been served to an eligible child. To ensure that each student’s selections from the salad bar meet the required portions for a reimbursable meal, the salad bar must be stationed **before** the POS.
If a school is not able to position the salad bar in a location before the POS, the SFA may request that the CSDE authorize an alternative to the POS lunch counts. When fruits and vegetables are located in an approved location beyond the POS, the SFA must have procedures in place to ensure that each reimbursable meal meets the OVS requirement for at least ½ cup of fruits or vegetables.

The SFA must submit a written request to the CSDE and receive approval before using any salad bars positioned after the POS. This request must describe the specific procedures the school will use to ensure that all reimbursable meals include at least ½ cup of fruits or vegetables.

Without CSDE approval, foods served on an unmonitored salad bar after the POS are considered “extras” that are not part of the reimbursable meal, but count toward the dietary specifications. These foods must contain zero trans fats and their inclusion cannot cause the menu to exceed the weekly limits for calories, saturated fats, and sodium. For more information, refer to “Extra Foods” in section 1.

**OVS with salad bars**

If a school implements OVS, salad bars must follow the OVS requirements. Schools may pre-portion foods to ensure that students take the minimum required portion sizes from a salad bar and to allow staff to quickly identify if the student has a reimbursable meal under OVS. Without pre-portioning, SFAs must train cashiers to accurately judge the quantities of self-serve items on student trays to determine if food items credit toward a reimbursable meal. For information on implementing OVS, refer to the CSDE’s *Offer versus Serve Guide for School Meals.*
Vegetable subgroups and salad bars

Vegetable subgroups offered on a daily salad bar must be itemized on the school’s production records. The NSLP regulations (210.10(a)(3)) require that production records and menu records show how the meals offered contribute to the required food components and food quantities. For more information, refer to “Menus” and “Production Records” in section 2. For additional guidance on implementing salad bars in schools, review USDA Memo SP 31-2013: Salad Bars in the National School Lunch Program and the USDA’s Fruits & Vegetables Galore: Helping Kids Eat More.

For guidance and resources on salad bars for the school nutrition programs, visit the “Salad Bars” section of the CSDE’s Menu Planning for Child Nutrition Programs webpage.

Produce Safety

SFAs must ensure that all food service personnel understand how to prepare produce safely. The ICN’s Produce Safety Resources webpage includes resources that describe best practices for receiving, storing, handling, and purchasing fresh and fresh-cut produce. The USDA’s Best Practices for Handling Fresh Produce in Schools summarizes the steps food service personnel can take to ensure that produce is prepared safely. For additional resources, refer to the CSDE’s Resource List for Food Safety in Child Nutrition Programs, and visit the CSDE’s Food Safety for Child Nutrition Programs and Resources for Child Nutrition Programs webpages.

SFAs must ensure that salad bars comply with Hazard Analysis and Critical Control Point (HACCP). The SFA’s standard operating procedures (SOP) for salad bars must include appropriate food safety procedures to ensure that foods stay at proper temperatures and are safe from contamination. For examples of SOPs, refer to the ICN’s sample SOPs, Preventing Contamination at Food Bars, and the ICN’s Standard Operating Procedures webpage.
Crediting Canned Vegetables

Canned vegetables must be drained. A serving of canned vegetables cannot include the packing liquid, such as water or sauce. For example, to credit as ½ cup of the vegetables component, a ½-cup serving of canned peas cannot include the water in which it is packed, and a ½-cup serving of baked beans cannot include the sauce in which it is packed. The serving must contain ½ cup of vegetables before any added liquid.

Many canned vegetables are high in sodium. To help school menus comply with the weekly sodium limits, menu planners should read product labels and purchase varieties of canned vegetables that are lower in sodium. For information on the dietary specifications for sodium, refer to “Limiting Sodium” in section 6.

Crediting Dried Vegetables

Dried or dehydrated vegetables (such as potato flakes and dried soup mix) credit as the vegetables component based on their rehydrated volume. Dried vegetables used for seasonings (such as dried onion and dried parsley) do not credit in the preschool meal patterns.

The FBG lists yields for some dehydrated vegetables, such as pinto beans, refried beans, onions, bell peppers, potatoes, seaweed, and sweet potatoes. Dried vegetables not listed in the FBG require a PFS to determine crediting information. The PFS must provide specific documentation on the amount of vegetables per serving in the rehydrated volume. Menu planners should check the accuracy of the PFS prior to including foods with dehydrated vegetables in reimbursable meals. For more information, refer to “Documentation for Commercial Products” in section 2.

Determining rehydrated volume for dried vegetables

SFAs can use the procedures below to determine and document the rehydrated volume of dehydrated vegetable products.

1. Rehydrate (add water or liquid to) a purchase unit of the dehydrated vegetable according to the manufacturer’s directions. If the container does not include directions, request rehydration directions from the manufacturer.
2. Measure the rehydrated volume.

3. Measure the number of ¼-cup servings of rehydrated product that one purchase unit provides.

4. Keep records on file as verification. Records should include information on the size of the purchase unit, the number of ¼-cup servings of rehydrated product per purchase unit, the name of the manufacturer, and the manufacturer’s directions for rehydrating the product.

Since product rehydration volumes often vary from brand to brand, SFAs should use this procedure for each brand of dehydrated product. For more information, refer to “Determining in-house product yields” in section 2.

**Crediting Hominy as Vegetables**

Hominy is a traditional food in Mexican and Native American cultures that is commonly served as a vegetable or milled grain product, e.g., hominy grits. Hominy is made from whole kernels of maize (dried field corn) that have been soaked in an alkaline solution (nixtamalized). This process removes the hull and germ, causes the corn to puff up to about double its normal size, and increases the bioavailability of certain nutrients, such as calcium and niacin.

Hominy is available dried and in a fully cooked canned form. Drained canned hominy or cooked whole hominy (from dried hominy) credits toward the vegetables component as a starchy vegetable. For example, ¼ cup of canned drained hominy credits as ¼ cup of the starchy vegetables subgroup.

For information on crediting hominy as the grains component, refer to “Crediting Hominy as Grains” in the “Grains Component” section.
Crediting Legumes as Vegetables

Legumes credit as the vegetables component or the meat/meat alternates component, but not both in the same meal. The menu planner must determine in advance how to credit legumes in a meal. For information on crediting legumes as the meat/meat alternates component, refer to “Crediting Legumes as Meat/Meat Alternates” in the “Meat/Meat Alternates Component” section.

Legumes credit as the vegetables component based on the volume (cups) served. For example, ½ cup of kidney beans credits as ½ cup of the vegetables component.

A serving of cooked legumes must contain the minimum required amount of beans, excluding other ingredients such as sauce and pork fat. For example, a ½-cup serving of baked beans that contains ¼ cup of sauce and pork fat credits as ¼ cup of the vegetables component. For more information, refer to “Vegetables with Added Ingredients” in this section.

A menu item must provide at least ¼ cup of legumes to credit toward part of the vegetables component. If the amount is less than the full serving, the meal must include additional vegetables to meet the full serving for each grade group. For more information, refer to “Minimum creditable amounts” in the beginning of section 3 and “Serving Size for Vegetables” in this section.

Note: Peanuts are legumes that credit only as the meat/meat alternates component. For more information, refer to “Nuts and Seeds” in the “Meat/Meat Alternates” section.

Crediting roasted or dried legumes as vegetables

Roasted or dried legumes, such as chickpeas and soybeans, credit as the vegetables component based on the volume (cups) served. For example, ¼ cup of roasted or dried legumes credits as ¼ cup of the vegetables component.

The USDA recommends that SFAs use discretion when offering snack-type legumes (such as individually wrapped soy nuts) as part of reimbursable meals, due to their perception as snack foods. While these types of products credit in school meals, they may be better suited for meals served off site, such as bagged lunches for field trips.
For information on crediting roasted or dried legumes as the meat/meat alternates component, refer to “Crediting roasted or dried legumes as meat/meat alternates” in the “Meat/Meat Alternates Component” section.

**Crediting legumes in recipes as vegetables**

A standardized recipe must provide at least \( \frac{1}{8} \) cup of legumes per serving to credit toward the vegetables component. The menu planner must determine the recipe’s crediting information for the vegetables component by dividing the total volume (cups) of beans in the standardized recipe by the number of servings, then rounding down to the nearest \( \frac{1}{8} \) cup. For guidance on how to calculate the contribution of legumes in a recipe, refer to the CSDE’s resource, *Crediting Legumes in the NSLP and SBP*.

**Crediting Mixed Vegetables at Lunch**

The crediting of mixed vegetables (such as carrots, peas, and corn; three-bean salad; and a California mix of broccoli, cauliflower, and carrots) depends on whether the menu planner knows the amount of each type of vegetable in the mixture.

- **Same subgroup:** Vegetable combinations from the same subgroup credit toward that vegetable subgroup. For example, a mixture of carrots and sweet potatoes credits as red/orange vegetables because both are from the red/orange subgroup. A mixture of corn and green peas credits as starchy vegetables because both are from the starchy subgroup.

- **Different subgroup:** Vegetable combinations that contain at least \( \frac{1}{8} \) cup each of different vegetable subgroups credit each vegetable toward the appropriate subgroups. For example, a mixture of \( \frac{1}{4} \) cup of carrots (red/orange) and \( \frac{1}{4} \) cup of corn and peas (starchy) credits as \( \frac{1}{4} \) cup of red/orange vegetables and \( \frac{1}{4} \) cup of starchy vegetables.

- **Unknown quantities:** If the menu planner does not know the quantities of the different vegetables in a mixture such as a frozen vegetable blend of peas, carrots, and corn, it credits as “additional” vegetables.

SFAs can use manufacturer data (such as a PFS) to determine the amount of each type of vegetable in a vegetable mixture. This information must clearly document the ratio of the vegetable mixture in the ingredients. For example, if a vegetable blend provides 25 percent broccoli, 25 percent carrots, and 50 percent cauliflower, a 1-cup serving credits as \( \frac{1}{4} \) cup of broccoli (dark green subgroup), \( \frac{1}{4} \) cup of carrots (red/orange subgroup), and \( \frac{1}{2} \) cup of...
Vegetables

cauliflower (other subgroup). SFAs are not required to monitor that each portion contains the documented ratios.

The SBP meal pattern does not require the vegetable subgroups. If the menu planner chooses to substitute mixed vegetables for the fruits component, they credit based on the amount served. For example, ½ cup of mixed vegetables credits as ½ cup of the fruits component (vegetable substitution) at breakfast. For more information, refer to “Vegetables at Breakfast” in this section.

**Crediting Pasta Products Made of Vegetable Flour**

Pasta products made of vegetable flours credit as the vegetables component if they meet the specific requirements in USDA Memo SP 26-2019, CACFP 13-2019 and SFSP 12-2019: *Crediting Pasta Products Made of Vegetable Flour in the Child Nutrition Programs*. These requirements are summarized below.

Pasta made of 100 percent legumes credits as the meat/meat alternates component, but cannot credit as the vegetables component and the meat/meat alternates component in the same meal or ASP snack. For more information, refer to “Crediting Legume Flour Pasta Products as Meat/Meat Alternates” in the Meat/Meat Alternates section.

**Crediting vegetable flours as vegetables**

Pasta made of one or more 100 percent vegetable flours credits toward the vegetables component, even when it is not served with another recognizable vegetable. These products credit the same as vegetables, e.g., ½ cup of pasta made of 100 percent vegetable flour credits as ½ cup of the vegetables component. The ingredients statements below show examples of pasta products that contain 100 percent vegetable flours.

- Ingredients: *Red lentil flour.*
- Ingredients: *Green lentils, cauliflower, parsnips.*

**Crediting vegetable flours from one vegetable subgroup**

Pasta products made of one or more vegetable flours from one vegetable subgroup may credit toward the appropriate vegetable subgroup. For example, pasta made of 100 percent red lentil flour credits as ½ cup of the legumes subgroup.

Pasta made of 100 percent legumes may also credit as the meat/meat alternates component, but cannot credit as the legumes subgroups and the meat/meat alternates component in the same meal. For more information, refer to “Crediting Legume Flour Pasta Products as Meat/Meat Alternates” in the Meat/Meat Alternates section.
Crediting vegetable flours with other non-vegetable ingredients

Pasta products made of vegetable flour with other non-vegetable ingredients may credit toward the vegetables component (or in the case of 100 percent legume pasta, the meat/meat alternates component) with a PFS that details the actual volume of vegetable flour per serving. This crediting does not apply to grain-based pasta products that contain small amounts of vegetable powder for color, such as spinach pasta or sun-dried tomato pasta. The ingredients statement below shows an example. This product does not credit toward the vegetables component because the amount of dried spinach is too small.

- Ingredients: Semolina (wheat), durum flour (wheat), dried spinach, niacin, ferrous sulfate (iron), thiamin mononitrate, riboflavin, folic acid.

The example below shows an ingredients statement for a vegetable pasta product that contains dried vegetables (carrot, tomato, and spinach) and other non-vegetable ingredients.

- Ingredients: Semolina (wheat), durum flour (wheat), dried carrots, dried tomato, dried spinach, niacin, ferrous sulfate (iron), thiamin mononitrate, riboflavin, folic acid.

This product might credit toward the vegetables component depending on the amount of dried carrots, dried tomato, and dried spinach per serving. The SFA must obtain a PFS from the manufacturer to determine the crediting information for this product.

Signage and staff training for vegetable flour pastas

Nutrition education, including signs in cafeterias and other meal service areas, helps children understand what foods are in their meals and snacks. SFAs must use signs or other nutrition education to indicate that pasta made of vegetable flour is a “vegetable,” and not a grain component of the meal. For example, a 100 percent chickpea flour pasta could be labeled as “chickpea pasta” with a symbol showing it to be part of the vegetables component of the meal.

Menu planners should inform food service staff when meals include pasta made with vegetable flours. Food service staff must understand how the pasta contributes toward the reimbursable meal and be able to identify reimbursable meals with OVS.
Crediting Pureed Vegetables

Pureed vegetables must be visible (recognizable) to credit in the NSLP and SBP meal patterns for grades K-12. Examples include pureed foods made from one vegetable such as tomato sauce, split pea soup, mashed potatoes, mashed sweet potatoes, and pureed butternut squash. For more information, refer to “Requirement for visible components” at the beginning of section 3.

Pureed vegetables credit based on the volume (cups) after pureeing. For example, to determine the volume of pea puree obtained from 1 cup of green peas, food service staff would puree the whole peas and measure the resulting amount of puree. Pureed vegetables typically have a smaller volume than the whole vegetable pieces. For more information, refer to “Determining in-house product yields” in section 2.

SFAs must document the crediting information for pureed vegetables with a standardized recipe or PFS. For more information, refer to “Standardized Recipes” and “Documentation for Commercial Products” in section 2.

Unrecognizable pureed vegetables

Foods made with pureed vegetables that are not visible (such as pureed carrots in macaroni and cheese) cannot credit as the vegetables component unless they also provide at least ⅛ cup of a visible creditable vegetable. For example, a serving of macaroni and cheese that contains ⅛ cup of diced butternut squash (visible) and ⅛ cup of pureed carrots (not visible) credits as ¼ cup of the red/orange vegetables subgroup.

Pureed vegetables that are not recognizable can be from a different subgroup from the visible vegetables. For example, a serving of school-made vegetable soup that contains ⅛ cup of pureed tomatoes (red/orange subgroup) and ⅛ cup of onion pieces (“other” subgroup) credits toward the red/orange and “other” subgroups. As an educational tool for students, the USDA encourages SFAs to make pureed vegetables in a blended dish from the same subgroup as the recognizable vegetables, whenever possible.

Pureed vegetables do not credit when used to improve the nutrient profile of a food. For example, pureed legumes in brownies cannot credit toward the legumes subgroup or the meat/meat alternates component, and pureed sweet potatoes in a spice cake cannot credit toward the red/orange vegetables subgroup. The USDA emphasizes the importance of the nutrition education aspect of school nutrition programs, which includes the goal of helping children easily recognize the key food groups that contribute to a healthy meal.
Crediting Raw Leafy Greens

Raw leafy greens credit as half the volume served. For example, ½ cup of raw leafy greens credits as ¼ cup of the vegetables component. Examples of raw leafy greens include kale, greens (e.g., beet, collard, mustard, and turnip), spinach, arugula, and lettuce such as iceberg, romaine, Boston, Bibb, red leaf, and spring mix.

Cooked leafy greens (such as spinach and kale) and roasted or dried leafy greens (such as roasted kale) credit based on the volume served. For example, ½ cup of cooked spinach or roasted kale credits as ½ cup of the vegetables component.

Crediting Soups

Vegetable soups made from scratch credit based on the amount of each vegetable subgroup contained in one serving. SFAs must document this information with a standardized recipe based on the yields listed in the FBG. For more information, refer to “Standardized Recipes” and “Food Buying Guide for Child Nutrition Programs” in section 2.

Creditable commercial vegetable soups include lentil, pea, and bean (legumes); minestrone; tomato; tomato with other basic components such as rice; vegetable (contains only vegetables); and vegetable with other basic components such as meat or poultry. The FBG indicates that a 1-cup serving of a commercial legume soup credits as ½ cup of the legumes subgroup, and a 1-cup serving of commercial vegetable soup credits as ¼ cup of vegetables. The serving refers to the amount of the cooked soup, e.g., heated canned or frozen ready-to-serve soup, reconstituted dried soup, and reconstituted condensed soup.

Commercial beef barley soup, chicken or turkey noodle soup, chicken or turkey rice soup, and cream vegetable soups (such as cream of broccoli and cream of mushroom) do not credit in the NSLP and SBP meal patterns for grades K-12.

Menu planners should consider the appropriateness of the serving size. The large serving of a commercial soup needed to provide the full vegetables component might be unreasonable, especially for younger children. For example, to provide ½ cup of the vegetables component requires 2 cups of a commercial vegetable soup and 1 cup of a commercial legume soup. For additional guidance, refer to the CSDE’s resource, Crediting Soups in the NSLP and SBP.
Considerations for container size

The served portion of soup (commercial or made from scratch) must be sufficient to provide the amount of each component being credited toward the meal patterns. Menu planners should consider the size of the container used to serve the soup. A 1-cup container (8 fluid ounces) does not provide 1 cup of soup unless it is completely filled to the top, which is impractical.

To avoid spilling and ensure that the served portion meets the meal pattern requirements, the container should be larger than the planned serving size of soup. For example, SFAs could use a 10-fluid ounce bowl to hold 8 fluid ounces (1 cup) of soup and a 6-fluid ounce bowl to hold 4 fluid ounces (½ cup) of soup.

Crediting Vegetable and Fruit Mixtures

Mixtures of vegetables and fruits may credit toward both the vegetables component and fruits component if the serving contains at least ⅛ cup of visible vegetables and at least ⅛ cup of visible fruits.

For example, a carrot-raisin salad that contains ½ cup of carrots and ¼ cup of raisins credits as ½ cup of the vegetables component and ¼ cup of the fruits component. Dried fruits credit as twice the volume served. For more information, refer to “Crediting Dried Fruits” in the “Fruits Component” section.
Crediting Vegetable Juice

Vegetable juice must be pasteurized 100 percent full-strength juice or a combination of vegetable and fruit juices. It can be fresh, frozen, or made from concentrate. The name of the full-strength juice on the label must include one of the following terms: “juice,” “full-strength juice,” “100 percent juice,” “reconstituted juice,” or “juice from concentrate.”

Crediting vegetable juice toward the vegetable subgroups at lunch

Vegetable juice credits toward the vegetable subgroups based on the type of vegetables it contains. For example, tomato juice credits toward the red/orange subgroup. The crediting of juice blends containing two or more different vegetable juices depends on whether the vegetables are from the same or different subgroups.

- **Same subgroup:** Full-strength vegetable juice blends that contain vegetables from the same subgroup contribute toward that vegetable subgroup. For example, a full-strength carrot/tomato vegetable juice blend credits toward the red/orange subgroup because both vegetables are from the red/orange vegetable subgroup.

- **Different subgroup:** Vegetable juice blends containing vegetables from more than one subgroup contribute to the “other” vegetable subgroup. For example, a full-strength vegetable juice blend containing carrots (red/orange), spinach (dark green), tomato (red/orange), and watercress (dark green) credits toward the “other” subgroup.

Vegetable and fruit juice blends credit if they are a combination of full-strength vegetable juices or full-strength vegetable and fruit juices. For information on crediting vegetable and fruit juice blends, refer to “Juice Blends” in the “Fruits Component” section.

Weekly limit for vegetable juice

Vegetable juice cannot exceed half of the weekly amount of the vegetables offered at lunch. Vegetable juice together with fruit juice (including fruit/vegetable juice blends) cannot exceed half of the weekly amount (cups) of the fruits offered at breakfast. For more information, refer to “Weekly Juice Limits at Lunch” and “Weekly Juice Limits at Breakfast” in section 4.
Crediting Vegetables in Combination Foods

Combination foods (such as pizza, lasagna, chili, vegetable egg rolls, hummus, and chicken-vegetable stir-fry) contain more than one food component. For example, cheese pizza contains the grains component (crust), the meat/meat alternates component (cheese), and the vegetables component (tomato sauce).

The visible vegetable portion of a combination food credits based on the amount of vegetables per serving. For more information, refer to “Requirement for visible components” at the beginning of section 3.

For foods made from scratch, SFAs must have a standardized recipe that documents the cups of vegetables per serving, based on the yields listed in the FBG. For more information, refer to “Standardized Recipes” and “Food Buying Guide for Child Nutrition Programs” in section 2.

For commercial products without a CN label, SFAs must obtain a PFS stating the specific contribution of vegetables. SFAs are responsible for checking the manufacturer’s PFS for accuracy prior to including commercial products in school meals. For more information, refer to “Documentation for Commercial Products” in section 2.
Crediting Vegetables in Smoothies

Pureed vegetables in smoothies credit only as juice toward the daily and weekly meal pattern requirements. At lunch, vegetable smoothies that contain one vegetable subgroup or one vegetable juice credit as that subgroup. For example, a smoothie made with pureed carrots or 100 percent carrot juice credits toward the red/orange subgroup.

The crediting of smoothies containing two or more different vegetables or vegetable juices depends on whether the vegetables are from the same or different subgroups.

- **Same subgroup:** Smoothies that contain vegetables or vegetable juices from the same subgroup credit toward that vegetable subgroup. For example, a smoothie containing carrots and tomatoes, or a 100 percent carrot/tomato juice blend, credits toward the red/orange vegetable subgroup because both vegetables are from the red/orange vegetable subgroup.

- **Different subgroup:** Smoothies that contain vegetables or vegetable juices from more than one subgroup credits only toward the “other” vegetable subgroup. For example, a smoothie containing carrots (red/orange), spinach (dark green), tomato (red/orange) and watercress (dark green); or a 100 percent vegetable juice blend containing carrots, spinach, tomato, and watercress; credits toward the “additional” vegetable subgroup.

Smoothies made with pureed fruits and vegetables credit only as juice. SFAs must include smoothies with all other juices when determining if the menu meets the weekly juice limit. For more information, refer to “Weekly Limit for Vegetable Juice” in this section and “Weekly Limit for Fruit Juice” in the “Fruits Component” section.

Smoothies that contain a mix of vegetables and fruits (or that contain 100 percent vegetable and fruit juice blends) contribute toward the fruits component if fruit juice or fruit puree is the predominant ingredient. If vegetable juice or vegetable puree is more predominant than fruit juice or fruit puree, the smoothie contributes toward “additional” vegetables. For more information on crediting smoothies, refer to “Fruit and Vegetable Smoothies” in the “Fruits Component” section.
Crediting Vegetables with Added Ingredients

If a commercial product or standardized recipe contains added ingredients (such as mayonnaise, yogurt, sugar, molasses, salad dressing, or breading), only the vegetable portion credits toward the NSLP and SBP meal patterns for grades K-12. For example, to credit coleslaw as ½ cup of the vegetables component, the serving must contain ½ cup of shredded cabbage and carrots, before added ingredients such as mayonnaise, sugar, and spices. Other examples of vegetables with added ingredients include tossed salad with dressing and croutons; potato salad; sweet potato casserole with marshmallows; mashed potatoes made with butter and milk; baked beans with sauce; carrot-raisin salad; breaded vegetables; and vegetables with cheese.

SFAs must document the amount of vegetables per serving with a standardized recipe for foods made from scratch (based on the vegetable yields listed in the FBG) or a PFS for commercial products. SFAs are responsible for checking the manufacturer’s PFS for accuracy prior to including commercial products in school meals. For more information, refer to “Standardized Recipes,” “Food Buying Guide for Child Nutrition Programs,” and “Documentation for Commercial Products” in section 2.

Noncreditable Foods in the Vegetables Component

Examples of foods that do not credit as the vegetables component include, but are not limited to:

- chili sauce;
- dehydrated vegetables used for seasoning;
- cream vegetable soups, e.g., cream of broccoli and cream of mushroom;
- home-canned products (for food safety reasons);
- ketchup;
- pickle relish; and
- snack-type foods made from vegetables, such as potato chips.

For more information, refer to “Noncreditable Foods” at the beginning of section 3, and the CSDE’s resource, Noncreditable Foods for Grades K-12 in the NSLP and SBP. Menu planners
should use the FBG to identify foods that credit as the vegetables component. For more information, refer to “Food Buying Guide for Child Nutrition Programs” in section 2.

Common Compliance Issues for the Vegetables Component

School menus must comply with the USDA’s requirements for the vegetables component. The common compliance issues indicated below are based on the CSDE’s Administrative Review of the school nutrition programs. SFAs must plan menus to avoid these compliance issues.

- **Insufficient serving of vegetables:** The daily lunch menu must provide the minimum serving of vegetables required for each grade group. For each lunch choice, SFAs must plan and offer at least ¾ cup of vegetables for grades K-5 and 6-8, and at least 1 cup of vegetables for grades 9-12. For more information, refer to “Serving Size for Vegetables” in this section.

- **Not meeting the weekly vegetable subgroups:** Each lunch choice must offer all students the minimum amount of each vegetable subgroup over the week. For more information, refer to “Ensuring Compliance with the Vegetable Subgroups” in this section.

- **Vegetable subgroups are not offered on all serving lines:** When SFAs have multiple serving lines or offer a variety of meals, the vegetable subgroups must be available to all students on every serving line, in at least the minimum required amounts. SFAs cannot require students to access another serving line to get a particular vegetable subgroup. For more information, refer to “Ensuring Compliance with the Vegetable Subgroups” in this section.

- **Incorrect vegetable subgroup substitutions:** Vegetable substitutions must be from the same vegetable subgroup. If the lunch menu does not offer all vegetable subgroups each day, substituting a vegetable from a different subgroup (such as corn instead of broccoli) could result in a menu that does not meet the weekly vegetable subgroups requirement. For more information, refer to “Vegetable subgroup substitutions” in this section.

- **Incorrect crediting of raw leafy greens:** Raw leafy greens credit as half the volume served, e.g., 1 cup equals ½ cup of the vegetables component. For more information, refer to “Crediting Raw Leafy Greens” in this section.
Vegetables

Meal Components | 3

- **Missing or inadequate serving line signage for vegetables**: SFAs must provide appropriate signage on the serving line where the vegetable selections are located. This signage must clearly explain the number of vegetable servings that students may select for a reimbursable meal. For more information, refer to “Identifying vegetable servings for students” in this section, and “Meal Identification Signage” in section 5.

SFAs must plan the vegetables component to avoid these compliance issues. For more information, review [CSDE Operational Memorandum No. 07-19: Compliance Issues with the Vegetables and Fruits Components for Grades K-12 in the NSLP and SBP](https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Memos/OM2019/OM07-19.pdf).

### Resources for Crediting Vegetables

The resources below assist menu planners with crediting foods as the vegetables component in the NSLP and SBP meal patterns for grades K-12.

- **Crediting Juice for Grades K-12 in the NSLP and SBP (CSDE)**:

- **Crediting Legumes in the NSLP and SBP (CSDE)**:
  [https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/CreditLegumesSNP.pdf](https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/CreditLegumesSNP.pdf)

- **Crediting Smoothies for Grades K-12 in the NSLP and SBP (CSDE)**:

- **Crediting Soups in the NSLP and SBP (CSDE)**:

- **CSDE Operational Memorandum No. 07-19: Compliance Issues with the Vegetables and Fruits Components for Grades K-12 in the National School Lunch Program (NSLP) and School Breakfast Program (SBP)**:

- **Food Buying Guide Section 2: Overview of Crediting Requirements for the Vegetables Component (USDA)**:
  [https://foodbuyingguide.fns.usda.gov/Content/TablesFBG/USDA_FBG_Section2_Vegetables.pdf](https://foodbuyingguide.fns.usda.gov/Content/TablesFBG/USDA_FBG_Section2_Vegetables.pdf)

- **Food Buying Guide Section 2: Yield Table for Vegetables (USDA)**:
  [https://foodbuyingguide.fns.usda.gov/files/Reports/USDA_FBG_Section2_VegetablesYieldTable.pdf](https://foodbuyingguide.fns.usda.gov/files/Reports/USDA_FBG_Section2_VegetablesYieldTable.pdf)
3 | Meal Components

Vegetables

- Start with Half a Cup: Fresh Vegetable Portioning Guide for Schools:

- USDA Memo SP 26-2019, CACFP 13-2019 and SFSP 12-2019: Crediting Pasta Products Made of Vegetable Flour in the Child Nutrition Programs:

- USDA Memo SP 40-2019, CACFP 17-2019 and SFSP 17-2019: Smoothies Offered in the Child Nutrition Programs:

- Vegetable Subgroups in the NSLP (CSDE):

- Vegetables Component for Grades K-12 (CSDE’s Crediting Foods in School Nutrition Programs webpage):

- Webinar: Crediting Vegetable Noodles and Coconut in the Child Nutrition Programs (USDA):

For additional crediting resources, visit the “Vegetables Component for Grades K-12” section of the CSDE’s Crediting Foods in School Nutrition Programs webpage.
Fruits Component

The fruits component includes fresh, frozen, canned (in light syrup, water, or fruit juice), and dried fruits; and pasteurized full-strength fruit juice. A serving of canned fruit may include the 100 percent juice in which the fruit is packed, but cannot include water or syrup.

Required Daily and Weekly Servings

The lunch and breakfast meal patterns require daily and weekly serving of the fruits component. Table 3-17 summarizes the required servings of the fruits component for each grade group.

<table>
<thead>
<tr>
<th>Grades</th>
<th>Lunch</th>
<th>Breakfast</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Five-day week</td>
<td>Seven-day week</td>
</tr>
<tr>
<td>K-5</td>
<td>½ cup</td>
<td>2½ cups</td>
</tr>
<tr>
<td>6-8</td>
<td>½ cup</td>
<td>2½ cups</td>
</tr>
<tr>
<td>9-12</td>
<td>1 cup</td>
<td>5 cups</td>
</tr>
</tbody>
</table>

Daily servings of fruits

SFAs may choose to serve a combination of several fruits to meet the daily requirement, as long as each serving contains at least ⅛ cup of fruit (refer to “Minimum creditable amounts” in the beginning of section 3). For example, a lunch menu for grades 9-12 could meet the required 1-cup serving of the fruits component with ½ cup of peaches and ½ cup of applesauce. Servings that contain less than ⅛ cup of fruit do not credit.

These menu-planning decisions affect students’ selection of reimbursable meals when implementing OVS. The CSDE encourages SFAs to offer all fruits in ½-cup servings and allow students to choose two servings; this makes it easier for students to choose a reimbursable meal. For more information, refer to the CSDE’s Offer versus Serve Guide for School Meals.
Weekly servings of fruits

The weekly servings of the fruits component are the sum of the menu’s daily servings. For example, a five-day lunch menu that offers 1 cup of fruit each day provides a weekly total of 4 cups.

Serving Size for Fruits

The amounts for the fruits component refer to the edible portion after any applicable preparation techniques, such as peeling, removing seeds and pits, and cooking. All fruits credit based on volume (cups) except for dried fruits, which credit as twice the volume served. For more information, refer to “Crediting Dried Fruits” in this section.

Menu planners should consult the USDA’s FBG to determine the crediting information for foods in the fruits component. For more information, refer to “Food Buying Guide for Child Nutrition Programs” in section 2.

Meeting the required fruit servings

If a menu item contains less than the full serving of the fruits component, the meal must include additional fruit to meet the full serving for each grade group. For example, the daily lunch meal pattern for grades K-5 requires ½ cup of the fruits component. If a menu item contains ¼ cup of fruit, the menu planner must include another menu item with at least ¼ cup of fruit to provide the full serving.

When crediting fruit toward the daily and weekly meal pattern requirements, menu planners must round down to the nearest ⅛ cup. For example, a standardized recipe or commercial product that contains 2½ tablespoons of strawberries per serving credits as 2 tablespoons (⅛ cup) of the fruits component.

Fruits offered in amounts less than ⅛ cup are not included in the calculation of the daily and weekly fruit servings, but count toward the weekly dietary specifications. For more information, refer to “Minimum creditable amounts” in the beginning of section 3 and “Dietary Specifications” in section 1.
Required signage to identify fruit servings for students

SFAs must use meal identification signage to instruct students on how much food to select from each component daily for a reimbursable meal, based on the planned serving sizes for each grade group. For example, if a high school allows students to select two ½-cup servings of fruit to meet the minimum daily 1-cup serving for grades 9-12 at lunch, the cafeteria signage must clearly communicate that students may select up to two servings of fruit with each meal. This signage must be on the serving line where the fruit selections are located. For more information, refer to “Meal Identification Signage” in section 5.

Crediting Canned Fruits

Canned fruit may be packed in juice, water, or light syrup. The USDA recommends purchasing canned fruit in 100 percent juice or water instead of syrup.

A serving of canned fruit may include the 100 percent juice in which the fruit is packed, but cannot include water or syrup. For example, ½ cup of canned peaches in juice credits as ½ cup of the fruits component. However, ½ cup of canned peaches in syrup does not credit as ½ cup of the fruits component. The menu planner can credit only the amount of peaches without the syrup.

The juice from canned fruit counts toward the weekly juice limit if the menu planner credits the juice toward the fruits component (refer to “Weekly Limit for Fruit Juice” in this section).

Juice from canned fruit does not count toward the juice limit if the menu planner offers the juice as an extra noncreditable food. For example, the juice from canned fruit does not count toward the juice limit if food service personnel portion ½ cup of canned fruit in a 5½-ounce container, and then add the juice after measuring the full ½-cup serving of fruit.

The FBG indicates the total amount of fruit and juice combined in canned fruit, but does not provide information on the volume of juice in canned fruit. SFAs must request this information from the manufacturer. To ensure that the volume measurements provided by manufacturers are accurate, the USDA recommends conducting an on-site yield evaluation by measuring the actual fruit and juice content of each canned fruit item served in school meals. For more information, refer to “Determining In-house Product Yields” in section 2.
Crediting Coconut

Fresh and frozen coconut credit as the fruits component based on the volume served. For example, $\frac{1}{8}$ cup of fresh or frozen coconut credits as $\frac{1}{8}$ cup of the fruits component. Dried coconut credits the same as other dried fruits (twice the volume served). For example, $\frac{1}{8}$ cup of dried coconut credits as $\frac{1}{4}$ cup of the fruits component. For more information, refer to “Crediting Dried Fruits” in this section.

Coconut is high in calories and saturated fat, and should be limited in school menus. Coconut flour, coconut oil, and coconut milk do not credit.

Juices labeled as 100 percent juice, including coconut water, credit toward the fruits component based on the volume served. Menu planners must count coconut water with all other juices toward the weekly juice limit. For more information, refer to “Coconut water” and “Weekly Limit for Fruit Juice” in this section.

The requirements for crediting coconut are summarized in USDA Memo SP 34-2019, CACFP 15-2019 and SFSP 15-2019: Crediting Coconut, Hominy, Corn Masa, and Masa Harina in the Child Nutrition Programs:

Crediting Dried Fruits

Dried fruits (such as raisins, apricots, dried cherries, dried cranberries, dried blueberries, mixed dried fruit, and dried coconut) credits as twice the volume served. For example, $\frac{1}{4}$ cup of raisins credits as $\frac{1}{2}$ cup of the fruits component.

This crediting requirement does not apply to dried fruits in amounts less than $\frac{1}{8}$ cup (the minimum creditable amount). For example, $\frac{1}{16}$ cup (1 tablespoon) of raisins does not credit as $\frac{1}{8}$ cup fruit.

Manufacturers sometimes process dried fruits with added sugar to keep the fruit pieces separated. The CSDE encourages menu planners to read labels and choose dried fruit without added sweeteners, including sugars and nonnutritive sweeteners, e.g., aspartame, acesulfame potassium, sucralose, and stevia. While the USDA allows dried fruit with added sweeteners in school meals, its inclusion cannot cause the breakfast or lunch menus to exceed the average weekly calorie limits. For information on planning school meals to meet the dietary specifications, refer to section 6.
Crediting Fresh Fruits

The crediting contribution of one piece of fresh fruit (whole or cut-up) varies depending on the type and size, and ranges from \( \frac{1}{4} \) cup to \( 1\frac{1}{4} \) cups. For example, the FBG indicates that

- one 60-count plum, one 88-count peach, and one clementine each credit as \( \frac{3}{8} \) cup of fruit;
- one 100-120-count banana, one 150-count pear, one 80-count peach, one 138-count orange, and one 45-count plum each credit as \( \frac{1}{2} \) cup of fruit;
- one 113-count and 125-count orange each credit as \( \frac{7}{8} \) cup of fruit;
- one size 56-64 nectarine, one size 56 peach, and one 120-count pear each credit as \( \frac{3}{4} \) cup of fruit; and
- one 125-138-count apple credits as 1 cup of fruit.

Menu planners must ensure that an individual piece of fresh fruit (whole or cut-up) provides the correct serving for each meal and grade group. If the amount is less than the full serving, the meal or ASP snack must include additional fruit to meet the full serving. The examples below illustrate this requirement.

- The breakfast meal pattern for grades K-12 requires 1 cup of the fruits component. One regular banana (100-120 count) credits as \( \frac{1}{2} \) cup of fruit, which does not provide the full-required 1-cup serving. To credit as the fruits component, the breakfast menu must include an additional \( \frac{1}{2} \) cup of the fruits component.

- The lunch meal pattern for grades K-5 requires \( \frac{1}{2} \) cup of the fruits component. One clementine credits as \( \frac{3}{8} \) cup of fruit, which does not provide the full-required \( \frac{1}{2} \)-cup serving. To credit as the fruits component, the breakfast menu must include an additional \( \frac{1}{8} \) cup of the fruits component.

Table 3-18 lists the FBG’s meal pattern contribution of some fresh fruits, and the additional amount needed to meet the minimum serving for each meal and grade group.
### Table 3-18. Meal pattern contribution of whole fresh fruits

<table>
<thead>
<tr>
<th>Fruit (one piece)</th>
<th>Meal pattern contribution from FBG</th>
<th>Required serving for fruits component</th>
<th>Additional amount (cups) needed for full serving</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Breakfast K-12 (1 cup minimum)</td>
<td>Lunch K-5 and 6-8 (½ cup minimum)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lunch 9-12 (1 cup minimum)</td>
<td></td>
</tr>
<tr>
<td>Apple, 125 to 138 count</td>
<td>1 cup</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Apricot, medium (1 ⅜-inch diameter)</td>
<td>¼ cup</td>
<td>¼ cup</td>
<td>¼ cup</td>
</tr>
<tr>
<td>Banana, 150 count, petite</td>
<td>⅜ cup</td>
<td>⅝ cup</td>
<td>⅛ cup</td>
</tr>
<tr>
<td>Banana, 100-120 count, regular</td>
<td>½ cup</td>
<td>½ cup</td>
<td>0</td>
</tr>
<tr>
<td>Clementine, 1 whole</td>
<td>⅛ cup</td>
<td>⅝ cup</td>
<td>⅛ cup</td>
</tr>
<tr>
<td>Grapefruit, 27-32 count, large</td>
<td>1 cup</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Kiwi, 33-39 count</td>
<td>¼ cup</td>
<td>⅛ cup</td>
<td>⅛ cup</td>
</tr>
<tr>
<td>Nectarine, size 88-96 (2 ¼-inch diameter)</td>
<td>½ cup</td>
<td>½ cup</td>
<td>0</td>
</tr>
<tr>
<td>Nectarine, size 56-64 (2 ¾-inch diameter)</td>
<td>⅛ cup</td>
<td>⅛ cup</td>
<td>⅛ cup</td>
</tr>
<tr>
<td>Orange, Arizona or California, 113 count</td>
<td>⅛ cup</td>
<td>⅛ cup</td>
<td>0</td>
</tr>
<tr>
<td>Orange, Florida or Texas, 125 count</td>
<td>⅛ cup</td>
<td>⅛ cup</td>
<td>0</td>
</tr>
<tr>
<td>Orange, Arizona or California, 138 count</td>
<td>½ cup</td>
<td>½ cup</td>
<td>0</td>
</tr>
</tbody>
</table>

1. Additional amount (cups) needed for full serving is calculated by the difference between the full serving requirement and the meal pattern contribution.
### Table 3-18. Meal pattern contribution of whole fresh fruits, continued

<table>
<thead>
<tr>
<th>Fruit (one piece)</th>
<th>Meal pattern contribution from FBG</th>
<th>Required serving for fruits component</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Breakfast K-12 (1 cup minimum)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lunch K-5 and 6-8 (½ cup minimum)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lunch 9-12 (1 cup minimum)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Additional amount (cups) needed for full serving</td>
<td>---</td>
</tr>
<tr>
<td>Peach, size 88 and 84 (2 ⅛-inch diameter)</td>
<td>⅛ cup</td>
<td>⅝ cup</td>
<td>⅜ cup</td>
</tr>
<tr>
<td>Peach, size 64 and 60 (2 ½-inch diameter)</td>
<td>⅜ cup</td>
<td>⅜ cup</td>
<td>0</td>
</tr>
<tr>
<td>Peach, size 80</td>
<td>⅛ cup</td>
<td>⅝ cup</td>
<td>0</td>
</tr>
<tr>
<td>Peach, size 56</td>
<td>⅜ cup</td>
<td>⅝ cup</td>
<td>0</td>
</tr>
<tr>
<td>Pear, 150 count</td>
<td>⅛ cup</td>
<td>⅝ cup</td>
<td>0</td>
</tr>
<tr>
<td>Pear, 120 count</td>
<td>⅜ cup</td>
<td>⅝ cup</td>
<td>0</td>
</tr>
<tr>
<td>Pear, D’Anjou, Bosc or Bartlett, 100 count</td>
<td>1¼ cups</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Plum, purple, red, or black, size 45 and 50 (2-inch diameter)</td>
<td>⅛ cup</td>
<td>⅝ cup</td>
<td>0</td>
</tr>
<tr>
<td>Plum, Japanese or hybrid, size 60 and 65</td>
<td>⅛ cup</td>
<td>⅝ cup</td>
<td>⅜ cup</td>
</tr>
<tr>
<td>Tangerine, 120 count</td>
<td>⅛ cup</td>
<td>⅝ cup</td>
<td>⅜ cup</td>
</tr>
</tbody>
</table>

*The additional amount may be from the same fruit or a different fruit. At breakfast, the additional amount may also be from vegetables. For more information, refer to “Vegetables at Breakfast” in this section.*
3 | Meal Components  

Fruits

**Crediting Frozen Fruits**

A serving of thawed frozen fruit (such as frozen strawberries) may include the thawed juice. The USDA recommends limiting frozen fruits with added sugars.

**Crediting Fruits in Commercial Products**

Commercial products that contain at least ⅛ cup of one or more visible fruits (such as mixed berries in a yogurt-fruit parfait) credit based on the amount (cups) of fruit per serving. For more information, refer to “Requirement for visible components” in the beginning of section 3 and “Documentation for Commercial Products” in section 2.

To credit in the school meal patterns, commercial products must have a CN label or PFS that documents the amount of fruits per serving. SFAs are responsible for checking the PFS for accuracy prior to including commercial products in school meals. For more information, refer to “Requirement for visible components” in the beginning of section 3 and “Documentation for Commercial Products” in section 2.

**Crediting Fruits in Desserts**

The fruit portion of desserts (such as fruited gelatin, fruit pies, fruit cobblers, and fruit crisps) credits toward the fruits component based on the amount (cups) of fruit per serving. For example, a fruit turnover that contains ½ cup of apples credits as ½ cup of the fruits component. The minimum creditable amount is ¼ cup.

For foods made from scratch, SFAs must have a standardized recipe that documents the cups of fruit per serving, based on the yields listed in the FBG. For commercial products, SFAs must obtain a manufacturer’s PFS stating the amount of fruits per serving. SFAs are responsible for checking the manufacturer’s PFS for accuracy prior to including commercial products in school meals. For more information, refer to “Standardized Recipes,” “Food Buying Guide for Child Nutrition Programs” and “Documentation for Commercial Products” in section 2.

The USDA recommends limiting sweetened fruit to help reduce children’s consumption of added sugars and help children develop a taste preference for unsweetened fruit.
The grain portion of grain-based fruit desserts (such as piecrust and cobbler or crisp topping) may also credit toward the grains component based on the ounce equivalents per serving. The minimum creditable amount is ¼ ounce equivalent. Note: The grain portion of grain-based fruit desserts counts toward the weekly limit for grain-based desserts at lunch. For more information, refer to “Limit for Grain-based Desserts” under “Grains Component” in this section.

Lunches that contain sweetened fruit desserts or grain-based fruit desserts must fit within the weekly dietary specifications. They must contain zero trans fats and their inclusion cannot cause the menu to exceed the weekly limits for calories, saturated fats, and sodium. SFAs should offer these foods in moderation to stay under the weekly limits. For information on planning school meals to meet the dietary specifications, refer to section 6.

**Crediting Fruits in Yogurt**

Fruits in commercial yogurt products (blended, mixed, or on top) do not credit as the fruits component. Menu planners may credit fruits offered as a separate component, such as ½ cup of blueberries in a yogurt-fruit parfait.

**Crediting Fruits with Added Ingredients**

If a commercial product or school recipe contains added ingredients (such as yogurt, mayonnaise, sugar, butter, sauce, or toppings), only the fruit portion credits toward the meal patterns. For example, to credit Waldorf salad as ¼ cup of the fruits component, the serving must contain ¼ cup of fruit (e.g., diced apples, grapes, and raisins), before added ingredients such as mayonnaise, sugar, and spices. Other examples of fruits with added ingredients include yogurt-fruit parfaits; carrot-raisin salad; cottage cheese mixed with crushed pineapple; and baked apples.

SFAs must document the amount of fruits per serving with a standardized recipe for foods made from scratch (based on the yields listed in the FBG) or a PFS for commercial products. SFAs are responsible for checking the manufacturer’s PFS for accuracy prior to including commercial products in preschool meals and snacks. For more information, refer to “Standardized Recipes,” “Food Buying Guide for Child Nutrition Programs” and “Documentation for Commercial Products” in section 2.

Recipes and PFS forms are not required for fruits without added ingredients, such as whole or cut-up fresh fruits; canned fruits in juice, water, or light syrup; frozen fruits; and dried fruits.
Crediting Fruit Juice

Juice must be pasteurized 100 percent full-strength fruit juice or a combination of fruit and vegetable juices. The name of the full-strength fruit juice on the label must include one of the following terms: “juice,” “full-strength juice,” “100 percent juice,” “reconstituted juice,” or “juice from concentrate.” The statements “natural” and “organic” do not indicate that a juice is full strength.

Juice may be fresh, frozen, or made from concentrate; and may be served liquid or frozen, e.g., full-strength frozen juice pops. For more information, refer to the CSDE’s resource, Crediting Juice for Grades K-12 in the NSLP and SBP and Crediting Smoothies for Grades K-12 in the NSLP and SBP.

The USDA recommends serving whole fruits (fresh, frozen, canned, and dried) more often than juice, based on the Dietary Guidelines for Americans. Juice does not provide the same nutritional benefits as whole fruits and vegetables, which contain fiber, fewer calories, and more nutrients. School menus might exceed the weekly calorie limits if SFAs serve juice frequently. For more information, refer to “Weekly Juice Limits at Lunch” and “Weekly Juice Limits at Breakfast” in section 4.

Juice concentrates

Juice concentrates credit only when reconstituted with water to 100 percent full-strength juice and served in the form of juice. Foods made with juice concentrate, such as gelatin or sherbet, do not credit as juice because they are no longer in the form of juice.

Juice made from concentrate is reconstituted with a volume of water that is several times the amount of the juice concentrate. A typical reconstitution ratio might be three parts water to one part concentrate, but this ratio may vary for different juice products.

Commercial juice products made from concentrate will list “water” as the first ingredient, followed by the type of juice concentrate, for example, “water, orange juice concentrate” and “filtered water, grape juice concentrate.” Juice made from concentrate that is labeled “100 percent juice” credits when
the SFA follows the manufacturer’s specific instructions for reconstituting.

**Juice blends**

Juice blends must be a combination of full-strength (100 percent) fruit juices, full-strength vegetable juices, or full-strength fruit and vegetable juices. At lunch, fruit and vegetable juice blends credit based on the first juice ingredient. If the first juice ingredient is fruit juice, the product credits as the fruits component. If the first juice ingredient is vegetable juice, the product credits as the “other” or the “additional” vegetables requirement, depending on the needs of the menu planner. The ingredients statement below shows an example of a vegetable and fruit juice blend.

- Ingredients: Reconstituted vegetable juice blend (water and concentrated juices of sweet potatoes, purple carrots, carrots), reconstituted fruit juices (water and concentrated juices of apples, white grapes, cranberries, blackberries), contains less than 2% of: natural flavoring, citric acid, lemon juice.

This product credits as either the “other” or “additional” vegetables subgroup because the first ingredient is a reconstituted vegetable juice blend. For more information, refer to “Vegetable Subgroups at Lunch” and “Additional Vegetables” under “Vegetables Component” in this section. For information on vegetable juice blends, refer to “Vegetable Juice” under “Vegetables Component” in this section.

**Frozen 100 percent juice products**

Frozen fruit juice (such as full-strength frozen juice pops) credit based on the fluid volume prior to freezing. SFAs must request a PFS from the manufacturer to document this information. For more information, refer to “Product Formulation Statements” in section 2. Frozen fruit juice must meet the same requirements as juice, and counts toward the weekly juice limit. For more information, refer to “Weekly Limit for Fruit Juice” in this section.

**Apple cider**

Apple cider credits as the fruits component if it is pasteurized 100 percent full-strength juice. Pasteurized juice has been heat-treated to kill harmful bacteria. Check labels, as some brands of apple cider are not pasteurized. SFAs cannot serve apple cider (or any other type of juice) that is not pasteurized. Apple cider must meet the same requirements as juice, and counts toward the weekly juice limit. For more information, refer to “Weekly Limit for Fruit Juice” in this section.
Coconut water

Fruit juices labeled as 100 percent juice, including coconut water, credit toward the fruits component based on the volume served. Coconut water must meet the same requirements as juice, and counts toward the weekly juice limit. For more information, refer to “Weekly Limit for Fruit Juice” in this section.

Juice ingredients

All pasteurized 100 percent juices meet the USDA’s requirements for the fruits component, but their ingredients may vary among manufacturers. The FDA’s labeling regulations allow 100 percent juice to contain added ingredients and still be labeled “100% juice.” Therefore, some 100 percent juices contain added ingredients such as artificial flavors, artificial colors (e.g., red 40, blue 1, yellow 5 and 6, and titanium dioxide), preservatives (e.g., sodium benzoate and potassium sorbate), flavor enhancers (e.g., ethyl maltol), and emulsifiers or thickeners (e.g., glycerol esters of wood rosin and xanthan gum). The CSDE encourages menu planners to read product ingredients statements and choose 100 percent juice without these added ingredients.

Weekly limit for fruit juice

Lunch and breakfast menus must meet the weekly juice limit. Fruit juice cannot exceed half of the weekly amount of fruits offered at lunch. For example, if a five-day lunch menu for grades K-5 offers 2½ cups of fruit over the week, it may offer up to 1¼ cups of juice over the week. If SFAs serve larger amounts of fruits and vegetables, the weekly juice limit also increases.

Fruit juice together with vegetable juice and vegetable/fruit juice blends cannot exceed half of the weekly amount (cups) of fruits offered at breakfast. For example, if the breakfast menu offers 5 cups of fruit over the week, it may offer up to 2½ cups of juice over the week.

Menu planners must count all sources of 100 percent juice available to students during the week toward the weekly juice limit, including:

- juice that is fresh, frozen, and made from concentrate (refer to “Crediting fruit Juice” in this section);
- frozen juice pops made from 100 percent juice (refer to “Crediting frozen 100 percent juice products” in this section);
- pureed fruits and vegetables in fruit/vegetable smoothies (refer to “Crediting Smoothies” in this section); and
- juice from canned fruit served in 100 percent juice (refer to “Crediting Canned Fruits” in this section).
Crediting Pureed Fruits

Pureed fruits in foods must be visible (recognizable) to credit in the lunch and breakfast meal patterns. Pureed foods made from one fruit (such as applesauce) are visible creditable fruits. For more information, refer to “Requirement for visible components” at the beginning of section 3.

Foods made with pureed fruits cannot credit as the fruits component unless they also provide an adequate amount of a visible creditable fruit. For example, a fruit sauce on pancakes must contain at least ⅛ cup of visible fruit to credit as the fruits component.

Pureed fruits credit based on the volume (cups) after pureeing. For example, to determine the volume of strawberry puree obtained from 1 cup of strawberries, food service staff would puree the whole strawberries and measure the resulting amount of puree. Pureed fruits typically have a smaller volume than the whole fruit pieces. For more information, refer to “Standardized Recipes,” “Documentation for Commercial Products,” and “Determining in-house product yields” in section 2.

Unrecognizable pureed fruits

Foods made with pureed fruits that are not cannot credit as the fruits component unless they also provide at least ⅛ cup of a visible creditable fruit. Pureed fruits do not credit when they are used to improve the nutrient profile of a food. Examples include pureed prunes in brownies, applesauce in muffins, and pureed bananas in banana bread. The USDA emphasizes the importance of the nutrition education aspect of school nutrition programs, which includes the goal of helping children easily recognize the key food groups that contribute to a healthy meal.
**Crediting Smoothies**

Pureed fruits and vegetables in smoothies credit only as juice toward the vegetables component or fruits component. They must meet the same requirements as juice, and count toward the weekly juice limit. For more information, refer to “Weekly Limit for Fruit Juice” in this section, “Weekly Limit for Vegetable Juice” in the “Vegetables Component” section, and “Weekly Juice Limits at Lunch” and “Weekly Juice Limits at Breakfast” in section 4.

Crediting is based on the volume (cups) of pureed fruits and vegetables per serving. For example, a smoothie that contains ½ cup of pureed strawberries credits as ½ cup of fruit juice. For smoothies made from scratch, SFAs must have a standardized recipe to document the amount of pureed fruits and vegetables (and any other creditable components) per serving. For more information, refer to “Documentation for Commercial Products” in section 2.

> Smoothies that contain a mix of pureed fruits and vegetables, or that contain 100 percent fruit and vegetable juice blends, credit as the fruits component if fruit juice or fruit puree is the predominant ingredient. If vegetable juice or vegetable puree is the predominant ingredient, the smoothie credits as the vegetables component. For more information, refer to “Crediting Vegetables in Smoothies” in the “Vegetables Component” section.

Other creditable smoothie ingredients milk and yogurt. For additional guidance, refer to “Milk in Smoothies” in the “Milk Component” section and “Yogurt and Soy Yogurt” in the “Meat/Meat Alternates Component” section.

**Commercial smoothies**

Commercial smoothies credit the same as smoothies made on site. Product formulation and labeling can vary greatly because commercial smoothies do not have an FDA standard of identity. To credit commercial smoothies in school meals, SFAs must obtain a PFS (or CN label, if available) that states the amount of all creditable ingredients per serving, such as pureed fruits and vegetables, juice, yogurt, and milk.

- **Crediting pureed vegetables/fruits:** Commercial smoothies made with pureed fruits/vegetables credit only as juice toward the fruits and vegetables component. Crediting is based on the volume of fruits/vegetables after pureeing and before
freezing. The product label must include a statement regarding the “percent juice content,” which is required by the Food and Drug Administration (FDA) for beverages made with fruit/vegetable juice or puree. For example, an 8-fluid ounce smoothie made from fruit puree labeled with “contains 50% juice” credits as 4 fluid ounces (½ cup) of juice. SFAs may need to obtain a PFS from the manufacturer to document the amount of pureed fruit in the product.

Concentrated fruit puree and concentrated juice are added sugars. They do not credit in smoothies unless they are reconstituted to full-strength fruit puree or full-strength juice.

- **Crediting milk:** Milk credits as the milk component when used as an ingredient in commercial smoothies. The product documentation must attest that commercial mixes with milk are made using ingredients that meet federal, state, and local definitions for fluid milk.

- **Crediting yogurt:** Yogurt and soy yogurt credit as the meat/meat alternates component when used as an ingredient in commercial smoothies. The product documentation must attest that commercial mixes with yogurt are made in compliance with the federal definition for yogurt.

The addition of yogurt to a smoothie is not a substitution for fluid milk in the NSLP and SBP meal patterns. Fluid milk must be offered in all meals to meet the milk component requirement.

- **Limit for crediting amount:** The total creditable amount in a commercial smoothie cannot exceed the volume served. For example, ½ cup of a commercial smoothie cannot credit as 1 cup of juice.

- **Noncreditable commercial smoothies:** Probiotic dairy drinks, drinkable yogurt, and yogurt drinks are not smoothies, and do not credit in the preschool meal patterns. Commercial smoothies that contain dietary supplements (such as whey protein powder) or herbal supplements (such as gingko biloba, ginseng, and echinacea) do not credit in the preschool meal patterns.
**3 | Meal Components**

SFAs must refer to the product’s PFS to check for 1) volumes of pureed fruits and vegetables prior to freezing; and 2) documentation that milk and yogurt (if included) meet the NSLP and SBP meal pattern requirements.

**Commercial smoothies cannot credit in school meals without a PFS (or a CN label for commercial fruit and vegetable smoothies that contain yogurt). SFAs must review PFS forms for accuracy. For more information, refer to “Documentation for Commercial Products” in section 2.**

**Signage for smoothies**

The USDA’s regulations require school nutrition programs to identify the food components offered to students. SFAs must inform students about the components in a smoothie by listing the type of smoothie on the menu and serving line signage. For example, “peach and milk smoothie” or “strawberry, yogurt, and milk smoothie.” For more information, refer to “Meal Identification Signage” in section 5. For sample signage templates, visit New England Dairy’s Smoothies webpage.
Noncreditable Fruits

Examples of foods that do not credit as the fruits component include, but are not limited to:

- banana chips;
- dried coconut;
- fruit snacks (e.g., fruit roll-ups, fruit leathers, fruit wrinkles, fruit twists, yogurt-covered fruit snacks);
- home-canned products (for food safety reasons);
- jams, jellies, and preserves; and
- juice drinks that are not 100 percent juice such as grape juice drink, orange juice drink, pineapple-grapefruit drink, cranberry juice cocktail, and lemonade.

For more information, refer to “Noncreditable Foods” at the beginning of section 3, and the CSDE’s resource, Noncreditable Foods for Grades K-12 in the NSLP and SBP. Menu planners should use the FBG to identify foods that credit as the fruits component. For more information, refer to “Food Buying Guide for Child Nutrition Programs” in this section.
Common Compliance Issues for the Fruits Component

School menus must comply with the USDA’s requirements for the fruits component. The common compliance issues indicated below are based on the CSDE’s Administrative Review of the school nutrition programs. SFAs must plan menus to avoid these compliance issues.

- **Insufficient serving of fruit**: The daily menu must provide the minimum serving of fruit required for each grade group. For each lunch choice, SFAs must plan and offer at least ½ cup of fruit for grades K-5 and 6-8, and 1 cup for grades 9-12. For each breakfast choice, SFAs must plan and offer at least 1 cup of fruit for all grades. For more information, refer to “Serving Size for Fruits” and “Crediting Fresh Fruit” in this section.

- **Incorrect crediting of dried fruits**: Dried fruits (such as raisins and dried apricots) credit as twice the volume served, e.g., 1 cup of dried fruit equals ½ cup of the fruits component. For more information, refer to “Crediting Dried Fruits” in this section.

- **Incorrect crediting of fresh fruits**: One piece of fresh fruit does not always credit as ½ cup of the fruits component. Some types of fresh fruits provide less than ½ cup in one piece. Fresh fruit credits based on the amount indicated in the FBG. For more information, refer to “Crediting Fresh Fruit” in this section.

- **Missing or inadequate serving line signage for fruits**: SFAs must provide appropriate signage on the serving line where the fruit selections are located. This signage must clearly explain the number of fruit servings that students may select for a reimbursable meal. For more information, refer to “Identifying fruit serving for students” in this section, and “Meal Identification Signage” in section 5.

SFAs must plan the fruits component to avoid these compliance issues. For more information, review CSDE Operational Memorandum No. 07-19: Compliance Issues with the Vegetables and Fruits Components for Grades K-12 in the NSLP and SBP.
Resources for Crediting Fruits

The resources below assist menu planners with crediting foods as the fruits component in the NSLP and SBP meal patterns.

- Accepting Processed Product Documentation in the NSLP and SBP (CSDE):

- Crediting Juice for Grades K-12 in the NSLP and SBP (CSDE):

- Crediting Smoothies for Grades K-12 in the NSLP and SBP (CSDE):
  https://portal.ct.gov/-/media/SDE/Nutrition/NSLP/Crediting/CreditSmoothiesSNP.pdf

- CSDE Operational Memorandum No. 07-19: Compliance Issues with the Vegetables and Fruits Components for Grades K-12 in the National School Lunch Program (NSLP) and School Breakfast Program (SBP):

- Food Buying Guide Section 3: Overview of Crediting Requirements for the Fruits Component (USDA):
  https://foodbuyingguide.fns.usda.gov/Content/TablesFBG/USDA_FBG_Section3_Fruits.pdf

- Food Buying Guide Section 3: Yield Table for Fruits (USDA):
  https://foodbuyingguide.fns.usda.gov/files/Reports/USDA_FBG_Section3_FruitsYieldTable.pdf

- Fruits Component for Grades K-12 (CSDE’s Crediting Foods in School Nutrition Programs webpage):

- Start with Half a Cup: Fresh Fruit Portioning Guide for Schools:

- Start with Half a Cup: Fresh Fruit Portioning Guide for Schools:


For additional crediting resources, visit the “Fruits Component for Grades K-12” section of the CSDE’s Crediting Foods in School Nutrition Programs webpage.
Grains Component

The grains component for the NSLP and SBP meal patterns for grades K-12 includes a wide variety of products, such as:

- breads, biscuits, bagels, rolls, tortillas, and muffins;
- snack products, such as crackers (including animal crackers and graham crackers), hard pretzels, hard bread sticks, tortilla chips, and popcorn;
- certain grain-based desserts, such as cookies, granola bars, cereal bars, cake, and pastries (subject to crediting restrictions);
- cereal grains, such as buckwheat, brown rice, bulgur, and quinoa;
- ready-to-eat (RTE) breakfast cereals;
- cooked breakfast cereals (instant and regular), such as oatmeal;
- bread products used as an ingredient in another menu item, such as combination foods, e.g., breading on fish or poultry and pizza crust in pizza; and
- pasta products, such as macaroni, spaghetti, noodles, orzo, and couscous.

Grain foods must be whole grain-rich (WGR) to credit as the grains component in the NSLP and SBP meal patterns. Products that are 100 percent whole grain, such as whole-wheat bread and brown rice, provide the best nutrition and should be served most often.

Enriched grains credit only as an ingredient in a WGR commercial product or standardized recipe. Examples include a muffin made with 50 percent whole-wheat flour and 50 percent enriched flour; a mixture of ¼ cup of brown rice and ¼ cup of enriched rice; and a sandwich made with one slice of enriched white bread and one slice of whole-grain bread. For more information, refer to the CSDE’s resource, Crediting Enriched Grains in the NSLP and SBP.
History of WGR Requirement

The USDA’s final rule, *Nutrition Standards for the National School Lunch and School Breakfast Programs* (77 FR 4088) defines the current NSLP and SBP meal patterns for grades K-12. This rule required that all grains offered in the NSLP and SBP must be WGR beginning with school year 2014-15.

In 2018, the USDA issued the final rule, *Child Nutrition Programs: Flexibilities for Milk, Whole Grains, and Sodium Requirements* (83 FR 63775), which allowed SFAs to offer enriched grains for up to half of all grains offered at lunch and breakfast. On August 21, 2020, the USDA released information about a decision in April 2020 by the U.S. District Court for the District of Maryland that vacated (canceled) this final rule and eliminated the previously approved meal pattern flexibility for enriched grains. For more information, refer to question 7 in *USDA Memo SP 24-2020, CACFP 13-2020 and SFSP 13-2020: Questions and Answers for the Child Nutrition Programs during School Year 2020-21 – #5.*

As a result, all grains must be WGR to credit as the grains component in the NSLP and SBP. Products that contain only enriched grains (such as enriched crackers, enriched bread, enriched pasta, enriched farina, enriched white rice, and enriched corn grits) do not credit in school meals.

**Waiver for WGR requirement during COVID-19**

During the current COVID public health emergency, the USDA is allowing several flexibilities for the NSLP and SBP meal patterns, including a waiver of the requirement that all grains must be WGR. SFAs that cannot meet the WGR requirement may request a waiver from the CSDE. If approved by the CSDE, this waiver is in effect through June 30, 2022. For more information, refer to “Meal Pattern Flexibilities during COVID-19” in section 1.
Common Compliance Issues for the Grains Component

School menus must comply with the USDA’s requirements for the grains component. The common compliance issues indicated below are based on the CSDE’s Administrative Review of the school nutrition programs. SFAs must plan menus to avoid these compliance issues.

- **Insufficient serving of grains:** The daily lunch menu cannot provide less than the minimum serving of grains required for the grade group. For example, a lunch menu for grades 9-12 that offers a 1½-ounce equivalent WGR roll as the only grain item does not meet the minimum daily 2 ounce equivalents for grades 9-12. For each lunch choice, SFAs must plan and offer at least 1 ounce equivalent of the grains component for grades K-5 and 6-8, and at least 2 ounce equivalents of the grains component for grades 9-12. For each breakfast choice, SFAs must plan and offer at least 1 ounce equivalent of the grains component for all grades. For more information, refer to “Required Daily and Weekly Servings of Grains” in Part A: Crediting Requirements.

- **Not meeting the minimum weekly grains:** For grades K-5 and 6-8 at lunch and all grades at breakfast, SFAs must offer more than the minimum daily amount of the grains component on some days of the week to meet the minimum weekly requirement. If the menu offers a choice of more than one item on an individual day, the menu planner must use the daily item with the smallest ounce equivalents to count toward the weekly requirement. For more information, refer to “Required Daily and Weekly Servings of Grains” in Part C: Serving Size, and “Weekly Grains and Meat/Meat Alternates at Lunch” and “Weekly Grains at Breakfast” in section 4.

- **Incorrect crediting of commercial grain products:** The menu planner must use one of the two allowable methods for determining grain ounce equivalents (USDA’s Exhibit A chart or creditable grains listed in the product’s PFS). Except for bread products in group B, a 1-ounce serving of a commercial grain product does not equal 1 ounce equivalent. For example, blueberry muffins (group D of the USDA’s Exhibit A chart) require 2 ounces to credit as 1 ounce equivalent. For more information, refer to “Determining Ounce Equivalents per Serving” in Part C: Serving Size.

- **Not verifying WGR compliance:** The menu planner must verify that a grain product or standardized recipe meets the WGR criteria for the grains component. All grains must be WGR to credit in school meals. For more information, refer to “Creditable Grains” in Part A: Crediting Requirements.
• **Not obtaining a PFS to credit certain commercial products:** There are some situations when SFAs cannot use the USDA’s Exhibit A chart to determine the ounce equivalents contribution of commercial grain products. A PFS is required when any of the following apply: 1) a non-CN-labeled combination food contains a grain portion; 2) a grain product contains a flour blend of whole and enriched grains as the first ingredient; 3) a grain product does not list a whole grain as the first ingredient, but it contains multiple whole grains; 4) the manufacturer claims that a commercial WGR grain product can provide the minimum creditable grains using a serving that is less than the minimum weight or volume listed in the USDA’s Exhibit A chart; and 5) the product is not listed on the USDA’s Exhibit A chart. For detailed guidance, refer to the CSDE’s resource, *Calculation Methods for Grain Ounce Equivalents for Grades K-12 in the NSLP and SBP*.

• **Exceeding limit for grain-based desserts at lunch:** The total amount of grain-based desserts at lunch cannot exceed 2 ounce equivalents per week. For example, if Monday’s lunch menu includes 2 ounce equivalents of graham crackers as the grains component, grain-based desserts cannot credit at any other lunches that week. For more information, refer to “Limit for grain-based desserts at lunch” in Part A: Crediting Requirements.

SFAs must plan the grains component to avoid these compliance issues.
Part A: Crediting Requirements

This section addresses the crediting requirements for the grains component of the NSLP and SBP meal patterns. All grain items served in school menus must comply with these requirements, including commercial grain products, grain foods made from scratch by the SFA, and grain foods prepared by vendors for school meals.

Creditable Grains

To credit as the grains component, grain menu items must be WGR. WGR foods contain at least 50 percent whole grains, any other grain ingredients must be enriched, and any noncreditable grains must be less than two percent (¼ ounce equivalent) of the product formula. For information on identifying whole and enriched grains, refer to the CSDE’s resources, Crediting Whole Grains in the NSLP and SBP and Crediting Enriched Grains in the NSLP and SBP. For guidance on the WGR criteria, refer to Part B: WGR Criteria.

Crediting Grain-based Desserts

The lunch and breakfast meal patterns allow some grain-based desserts to credit as the grains component. Examples of grain-based desserts include brownies, cookies, cakes, cupcakes, coffee cakes, cinnamon streusel quick breads, piecrusts in sweet pies (e.g., apple, coconut, blueberry, and pecan), cinnamon rolls, doughnuts, cereal bars, granola bars, breakfast bars, sweet rolls, pastries, toaster pastries, sweet scones (e.g., blueberry, raisin, and orange cranberry), rice pudding, and sweet bread pudding.

Not all grain-based desserts credit at both lunch and breakfast. The CSDE’s resource, Grain Ounce Equivalents for Grades K-12 in the NSLP and SBP, identifies creditable grain-based desserts with the footnote 1 (allowed for lunch and breakfast) or the footnote 2 (allowed only for lunch). Table 3-19 summarizes which grain-based desserts credit at each meal.
### Part A: Crediting Requirements

#### Table 3-19. Allowable grain-based desserts for grades K-12 in the NSLP and SBP

<table>
<thead>
<tr>
<th>Food Item (must be WGR)</th>
<th>Credits as grains component?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lunch (^{1,2})</td>
</tr>
<tr>
<td>Animal crackers</td>
<td>Yes</td>
</tr>
<tr>
<td>Breakfast bars, plain or with nuts, dried fruit, chocolate pieces, fruit purees, filling, and frosting</td>
<td>Yes</td>
</tr>
<tr>
<td>Brownies, frosted</td>
<td>No</td>
</tr>
<tr>
<td>Brownies, plain</td>
<td>Yes</td>
</tr>
<tr>
<td>Cakes and cupcakes, plain or frosted</td>
<td>Yes</td>
</tr>
<tr>
<td>Cereal bars, plain or with nuts, dried fruit, chocolate pieces, fruit purees, filling, and frosting</td>
<td>Yes</td>
</tr>
<tr>
<td>Coffee cakes, cinnamon streusel quick breads</td>
<td>Yes</td>
</tr>
<tr>
<td>Cookies, plain or with nuts, dried fruit, chocolate pieces, fruit purees, filling, and frosting</td>
<td>Yes</td>
</tr>
<tr>
<td>Doughnuts, cake and yeast raised, frosted or unfrosted, glazed or unglazed</td>
<td>Yes</td>
</tr>
<tr>
<td>Fruit cobblers (cobbler topping)</td>
<td>Yes</td>
</tr>
<tr>
<td>Fruit crisps (crisp topping)</td>
<td>Yes</td>
</tr>
<tr>
<td>Fruit dessert pies (piecrust)</td>
<td>Yes</td>
</tr>
<tr>
<td>Fruit turnovers</td>
<td>Yes</td>
</tr>
<tr>
<td>Graham crackers</td>
<td>Yes</td>
</tr>
<tr>
<td>Grain-fruit bars, e.g., cereal bars</td>
<td>Yes</td>
</tr>
<tr>
<td>Granola bars, plain or with nuts, dried fruit, chocolate pieces, fruit purees, filling, and frosting</td>
<td>Yes</td>
</tr>
<tr>
<td>Pastries, plain or frosted</td>
<td>Yes</td>
</tr>
<tr>
<td>Sweet rolls, plain or frosted</td>
<td>Yes</td>
</tr>
<tr>
<td>Toaster pastries, plain or frosted</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1. Grain-based desserts cannot cause the menu to exceed the weekly limits for calories, saturated fats, and sodium. For information on the dietary specifications, refer to section 6.
2. Grain-based desserts at lunch cannot exceed 2 ounce equivalents per week.
Grain-based desserts do not include quick breads (such as banana bread and zucchini bread), except for cinnamon streusel, cornbread, pancakes, waffles, French toast, savory scones (such as cheese and herb), and piecrusts in entrees such as quiche, meat pies, and chicken potpie.

Grain-based desserts often contain more solid fats and added sugars than traditional grains. Grain-based desserts cannot cause the menu to exceed the weekly limits for calories, saturated fat, and sodium. The CSDE recommends offering nutrient-dense whole grains instead of grain-based desserts. For information on planning school meals to meet the dietary specifications, refer to section 6.

Limit for grain-based desserts at lunch
Grain-based desserts at lunch cannot exceed 2 ounce equivalents per week. For example, SFAs may offer a 2-ounce equivalent WGR cookie once per week or a ½-ounce equivalent WGR cookie four times per week.

The limit for grain-based desserts also applies to non-WGR grain products offered as extra foods at lunch. For example, if an enriched fortune cookie credits as at least ¼ ounce equivalent, the menu planner must count it toward the weekly limit for grain-based desserts. For more information, refer to “Grain-based desserts served as extra foods” in this section.

Grain-based desserts at breakfast
The breakfast meal pattern does not require a weekly limit for grain-based desserts, but only allows certain types. Examples of allowable grain-based desserts at breakfast include animal crackers and graham crackers, cereal bars, granola bars, doughnuts, fruit turnovers, pastries, and sweet rolls (refer to table 3-20). The CSDE recommends that SFAs limit grain-based desserts at breakfast.

Identifying grain-based desserts
Menu planners should not rely on a product’s name to determine if it is grain-based dessert because cookies and similar grain-based desserts do not have a FDA standard of identity. Manufacturers sometimes use terms in their product names or labels that might be misleading, such as “breakfast rounds” for oatmeal raisin cookies; “breakfast bars” for cereal bars; and “super stars” for doughnut holes. These products often contain higher levels of sugar, fat, and sodium, which could make it difficult for menus to meet the weekly dietary specifications for school meals.
Crediting graham crackers

SFAs must review the ingredients statement to be sure that graham crackers meet the WGR criteria. For graham crackers to credit in school meals, the first ingredient must be graham flour. Some varieties of graham crackers do not meet the WGR criteria because they contain enriched flour as the first ingredient.

Table 3-20 shows examples of creditable and noncreditable graham crackers.

<table>
<thead>
<tr>
<th>Creditable</th>
<th>Not creditable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredients: <em>Graham flour (whole-grain wheat flour), unbleached enriched flour (wheat flour, niacin, reduced iron, thiamine mononitrate (vitamin B1), riboflavin (vitamin B2), folic acid)</em>, sugar, canola oil, honey, baking soda, salt, artificial flavor.</td>
<td>Ingredients: <em>Unbleached enriched flour (wheat flour, niacin, reduced iron, thiamine mononitrate vitamin B1, riboflavin vitamin B2, folic acid), graham flour (whole grain wheat flour)</em>, sugar, soybean and/or canola oil, honey, baking soda, salt, soy lecithin, artificial flavor.</td>
</tr>
</tbody>
</table>

The first ingredient must be graham flour. Graham flour is a whole grain.

Graham crackers are a grain-based dessert and count toward the weekly limit for grain-based desserts.

**Grain-based desserts served with daily alternate lunch choices**

SFAs cannot offer grain-based desserts (such as graham crackers or animal crackers) as the grains component of a daily alternate lunch choice. For example, a high school offers a daily alternate lunch menu that includes 1 cup of yogurt, 1 cup of fresh fruit, 1 cup of fresh vegetables, 1 cup of milk, and 2 ounce equivalents of the grains component. This lunch menu cannot include graham crackers as the grains component each day because this would exceed the weekly limit.
Grain-based desserts served as extra foods

Grain-based desserts served as extra menu items at lunch count toward the minimum daily and weekly servings of the grains component, including the weekly limit for grain-based desserts. Grain-based desserts served as extra menu items at lunch or breakfast must fit within the weekly dietary specifications; their inclusion cannot cause the menu to exceed the average weekly limits for calories, saturated fat, and sodium. For more information, refer to “Creditable extra foods at lunch” in section 1.

Crediting Corn Masa, Masa Harina, Corn Flour, and Cornmeal

Corn ingredients credit as the grains component if they are whole grain, enriched, or nixtamalized. Nixtamalization is the process of soaking and cooked dried corn in an alkaline (slaked lime) solution. This process results in a product with nutrition content similar to whole-grain corn.

Nixtamalized corn is used to make hominy, masa harina (corn flour), corn masa (dough from masa harina), and certain types of cornmeal. Masa harina is used for making corn products such as tortillas, tortilla chips, and tamales.

Methods for identifying nixtamalized corn

SFAs may use the two methods below to identify commercial products made with nixtamalized corn.

1. **Corn is treated with lime:** If the ingredients statement indicates that the corn is treated with lime (such as “ground corn with trace of lime” and “ground corn treated with lime”), the corn ingredient is nixtamalized. The ingredients statements below show examples of commercial nixtamalized corn products. These products credit as 100 percent whole grains.

   - Ingredients: **Corn masa flour**, water, contains 2% or less of: cellulose gum, guar gum, amylase, propionic acid, benzoic acid, and phosphoric acid (to maintain freshness).
   - Ingredients: **Whole-white corn**, vegetable oil (contains soybean, corn, cottonseed, and/or sunflower oil), salt, lime/calcium hydroxide (processing aid).
   - Ingredients: **Limed whole-grain white corn**, palm oil, salt, TBHQ (preservative).
   - Ingredients: **Whole-grain yellow corn**, high oleic canola oil, water, corn flour, salt, hydrated lime.
If the ingredients statement does not provide sufficient information (such as “cornmeal” and “yellow corn flour”), SFAs must obtain a PFS from the manufacturer stating that the ingredients are whole grain, enriched, or nixtamalized. For information on PFS forms, refer to “Product Formulation Statements” in section 2.

2. **Product includes FDA-approved whole grain health claim:** If a commercial product made with corn includes one of two FDA-approved whole grain health claims on its packaging, the corn in the product is nixtamalized and the product provides at least 50 percent whole grain. These health claims are not common.

   - **Low-fat claim:** “Diets rich in whole grain foods and other plant foods and low in total fat, saturated fat, and cholesterol, may reduce the risk of heart disease and certain cancers.”

   - **Moderate-fat claim:** “Diets rich in whole grain foods and other plant foods, and low in saturated fat and cholesterol, may help reduce the risk of heart disease.”

Crediting Hominy as Grains

Hominy is a traditional food in Mexican and Native American cultures that is commonly served as a vegetable or milled grain product, e.g., hominy grits. Hominy is made from whole kernels of maize (dried field corn) that have been soaked in an alkaline solution (nixtamalized). This process removes the hull and germ, causes the corn to puff up to about double its normal size, and increases the bioavailability of certain nutrients, such as calcium and niacin.

Hominy is available dried and in a fully cooked canned form. Dried hominy (such as grits) credits as a whole grain. A ½-cup serving of cooked hominy grits or 1 ounce (28 grams) of dry hominy grits credits as one serving of the grains component.

For information on crediting hominy as the vegetables component, refer to “Crediting Hominy as Vegetables” in the “Vegetables” section.

Crediting Popcorn

Popcorn credits as a whole-grain food. Three cups (1 ounce) serving of plain popped popcorn credit as 1 ounce equivalent of the grains component. The minimum creditable amount is ¾ cup (¼ ounce equivalent). Table 3-21 summarizes the grains contribution of popped popcorn.

<table>
<thead>
<tr>
<th>Cups (popped)</th>
<th>Weight (popped)</th>
<th>Grains contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾ cup</td>
<td>0.25 ounces or 7 grams</td>
<td>¼ ounce equivalent (minimum creditable amount)</td>
</tr>
<tr>
<td>1½ cups</td>
<td>0.5 ounces or 14 grams</td>
<td>½ ounce equivalent</td>
</tr>
<tr>
<td>2¼ cups</td>
<td>0.75 ounces or 21 grams</td>
<td>¾ ounce equivalent</td>
</tr>
<tr>
<td>3 cups</td>
<td>1 ounce or 28 grams</td>
<td>1 ounce equivalent</td>
</tr>
</tbody>
</table>
Crediting considerations for popcorn

Menu planners should consider the crediting requirements below when including popcorn in school meals.

- Consider the appropriateness of the serving size for each grade group. It may be unreasonable to provide the full serving of the grains component from popcorn, due to the large volume required for crediting. The CSDE recommends providing a smaller serving of popcorn and supplementing with another food from the grains component. For example, a snack mix that contains ¾ cup of popcorn (¼ ounce equivalent) mixed with ¼ ounce equivalent of WGR pretzels and ½ ounce equivalent of WGR RTE breakfast cereal credits as 1 ounce equivalent of the grains component.

- Foods that contain popcorn as an ingredient (such as a popcorn snack mix or popcorn balls) require documentation to determine the crediting information. SFAs must obtain a PFS for commercial foods and a standardized recipe for foods prepared from scratch. For more information, refer to “Product Formulation Statements” and “Standardized Recipes” in section 2.

- Popcorn sometimes includes ingredients and toppings such as salt, caramel, cheese, and butter. SFAs must ensure that these ingredients, as well as any oil or fat used to pop the popcorn, are included in the recipe’s nutrient profile. Popcorn products cannot cause the menu to exceed the weekly limits for calories, saturated fats, and sodium. The USDA strongly encourages healthier alternatives, such as seasoning the popcorn with herb blends or serving fresh, plain popcorn.

- Grain-based desserts that contain popcorn count toward the weekly limit of no more than 2 ounce equivalents at lunch. For more information, refer to “Limit for Grain-based Desserts” in this section.

Crediting information for popcorn is summarized in USDA Memo SP 23-2019, CACFP 10-2019 and SFSP 09-2019: Crediting Popcorn in the Child Nutrition Programs.
Noncreditable Foods in the Grains Component

Examples of foods that do not credit as the grains component include, but are not limited to:

- bran, e.g., oat bran, wheat bran, corn bran, rice bran, and rye bran;
- commercial grain products that are not WGR;
- commercial products that exceed the limit for noncreditable grains;
- germ, e.g., wheat germ; and
- standardized recipes that are not WGR.

For more information, refer to “Noncreditable Foods” at the beginning of section 3, and the CSDE’s resource, *Noncreditable Foods for Grades K-12 in the NSLP and SBP*.

Resources for Crediting Grains

The resources below assist menu planners with identifying foods that credit as the grains component in the NSLP and SBP meal patterns.

- Food Buying Guide Section 4: Overview of Crediting Requirements for the Grains Component (USDA): [https://foodbuyingguide.fns.usda.gov/Content/TablesFBG/USDA_FBG_Section4_Grains.pdf](https://foodbuyingguide.fns.usda.gov/Content/TablesFBG/USDA_FBG_Section4_Grains.pdf)
Part A: Crediting Requirements

- Food Buying Guide Section 4: Yield Table for Grains (USDA):
  https://foodbuyingguide.fns.usda.gov/files/Reports/USDA_FBG_Section4_GrainsYieldTable.pdf

- Grains Component for Grades K-12 (CSDE’s Crediting Foods in School Nutrition Programs webpage):

- Product Formulation Statement for Documenting Grains in Child Nutrition Programs (USDA):

- Product Formulation Statement for Documenting Grains in Child Nutrition Programs Completed Sample (USDA):
  https://fns-prod.azureedge.net/sites/default/files/resource-files/PFS_Sample_oz_eq.pdf

- USDA Memo SP 23-2019, CACFP 10-2019 and SFSP 09-2019: Crediting Popcorn in the Child Nutrition Programs:
  https://www.fns.usda.gov/cn/crediting-popcorn-child-nutrition-programs

- USDA Memo SP 30-2012: Grain Requirements for the National School Lunch Program and School Breakfast Program:
  https://www.fns.usda.gov/cn/grain-requirements-national-school-lunch-program-and-school-breakfast-program


For additional crediting resources, visit the “Grains Component for Grades K-12” section of the CSDE’s Crediting Foods in School Nutrition Programs webpage.
Part B: WGR Criteria

All grains offered at lunch and breakfast must be WGR. The WGR criteria are different for commercial products and foods made from scratch. The section provides an overview of these requirements.

For comprehensive guidance, refer to the CSDE’s guide, *Meeting the Whole Grain-rich Requirement for the NSLP and SBP Meal Patterns for Grades K-12*. This document provides detailed information on the WGR requirements, including how to identify noncreditable grains, examples of evaluating commercial grain products and foods made from scratch, how to review PFS forms for accuracy, and common compliance issue with PFS forms for grains.

WGR Criteria for Commercial Products

The WGR criteria are different for commercial grain foods (such as bread, rice, and pasta) and commercial combination foods that contain a grain portion with other food components, such as pizza crust in pizza, noodles in lasagna, tortilla shells in burritos, and breading on chicken nuggets.

- **Commercial grain foods (groups A-H):** Grain products in groups A-G (such as breads, muffins, pancakes, and crackers) and group H (such as rice, pasta, quinoa, and cooked breakfast cereals like oatmeal) are WGR if they meet the following three criteria: 1) the first ingredient (excluding water) is a whole grain; 2) any other creditable grains are enriched; and 3) the combined weight of any noncreditable grains does not exceed the specified limit. Table 3-22 summarizes the WGR criteria for commercial grain products in groups A-H.

- **RTE breakfast cereals (group I):** RTE breakfast cereals are WGR if the first ingredient is a whole grain and the cereal is fortified. The limit for noncreditable grains does not apply to fortified WGR RTE breakfast cereals. Fortification is not required for 100 whole grain cereals. Table 3-23 summarizes the WGR criteria for RTE.
Part B: WGR Criteria

breakfast cereals in group I. For more information, refer to “WGR Criteria for Breakfast Cereals” in this section.

- **Commercial combination foods**: Combination foods that contain a grain portion from groups A-I (such as pizza crust in pizza, noodles in lasagna, and breading on chicken nuggets) are WGR if they meet three criteria: 1) a whole grain is the first grain ingredient (or the first ingredient in the grain portion if the grain portion is listed separately); 2) any other creditable grains in the grain portion are enriched; and 3) the combined weight of any noncreditable grains in the grain portion does not exceed the specified limit. Table 3-24 summarizes the WGR criteria for commercial combination foods that contain a grain portion from groups A-I.

Menu planners must determine if commercial foods meet the WGR criteria by reviewing the product’s ingredients statement, and obtaining a PFS if necessary. If the product meets the WGR criteria, the menu planner must determine the meal pattern contribution (ounce equivalents) based on the required weight for the appropriate grain group in the USDA’s Exhibit A chart or the creditable grains per serving. For more information, refer to “Product formulation statements” in section 2 and “Part C: Serving Size” in this section.

A PFS is not required if the grain is part of a CN-labeled meat/meat alternate product. CN-labeled products credit based on the stated crediting information for WGR ounce equivalents. The USDA’s Authorized Labels and Manufacturers webpage lists approved CN-labeled products and manufacturers. For more information, refer to “Child Nutrition (CN) labels” in section 2.
**Table 3-22. WGR criteria for commercial grain products in groups A-H**

These criteria apply to commercial grain products in groups A-G (such as breads, muffins, pancakes, and crackers) and group H (such as rice, pasta, quinoa, and cooked breakfast cereals, e.g., oatmeal). A product must meet all three criteria to be WGR. For more information, refer to the CSDE’s resource, *Crediting Breakfast Cereals for Grades K-12 in the NSLP and SBP*.

**WGR criterion 1:** The product must contain at least 50 percent whole grains by weight. SFAs may use any one of the methods below to determine if a product meets this criterion.

- **Method 1:** The ingredients statement lists a whole grain as the first ingredient (or water is the first ingredient and a whole grain is the second ingredient), or the product’s PFS indicates that the combined weight of all whole grains is the greatest ingredient by weight. **Note:** Products that list a whole grain first in a flour blend of whole and enriched flour, such as “flour blend (whole-wheat flour, enriched flour),” require a PFS to determine crediting information.

- **Method 2:** The product packaging or manufacturer’s PFS indicates that the serving contains the minimum grain content for 1 ounce equivalent. Groups A-G (baked goods) must contain at least 8 grams of whole grains per ounce equivalent. Group H (cereal grains) must contain at least ¼ cup cooked or 14 grams dry of whole grains per ounce equivalent (½ cup).

- **Method 3:** The product packaging includes one of the FDA’s approved whole grain health claims.

**WGR criterion 2:** Any remaining grain ingredients in the product must be enriched.

**WGR criterion 3:** Any noncreditable grains must be less than 2 percent (¼ ounce equivalent) of the product formula. To comply with this limit, the combined total of all noncreditable grains cannot exceed 3.99 grams per ounce equivalent for groups A-G or 6.99 grams per ounce equivalent for group H. If noncreditable grains exceed these amounts, the product is noncreditable, even if it meets WGR criteria 1 and 2.
Table 3-23. WGR criteria for RTE breakfast cereals in group I

These criteria apply to RTE breakfast cereals in group I, such as puffed cereals, flaked or round cereals, and granola. A product must meet both criteria to be WGR. **Note:** The limit for noncreditable grains does not apply to fortified RTE breakfast cereals that contain a whole grain as the first ingredient. For more information, refer to the CSDE’s resource, *Crediting Breakfast Cereals for Grades K-12 in the NSLP and SBP.*

**WGR criterion 1:** The product must contain at least 50 percent whole grains by weight. SFAs may use any one of the methods below to determine if a product meets this criterion.

- **Method 1:** The ingredients statement lists a whole grain as the first ingredient, or the product’s PFS indicates that the combined weight of all whole grains is the greatest ingredient by weight.

- **Method 2:** The product packaging or manufacturer’s documentation indicates that 1) the product contains the required weight (1 ounce) or volume (1 cup of flaked or round cereal, 1¼ cups of puffed cereal, and ¼ cup of granola) for 1 ounce equivalent; and 2) a whole grain is the greatest ingredient by weight.

- **Method 3:** The product packaging includes one of the FDA’s approved whole grain health claims.

**WGR criterion 2:** The product must be fortified unless it is 100 percent whole grain. A breakfast cereal is fortified if the food is labeled as “fortified” or the ingredients statement lists the vitamins and minerals that have been added to the product. Fortified breakfast cereals typically contain the five enrichment nutrients (iron, thiamin, riboflavin, niacin, and folic acid) plus other vitamins and minerals that do not exist naturally in grains. For example, the RTE cereal below is fortified with 11 vitamins and minerals, listed after “Vitamins and Minerals.”

- **Ingredients:** Whole-grain wheat, raisins, wheat bran, sugar, brown sugar syrup, contains 2% or less of salt, malt flavor. **Vitamins and Minerals:** Potassium chloride, niacinamide, reduced iron, vitamin B6 (pyridoxine hydrochloride), zinc oxide, vitamin B2 (riboflavin), vitamin B1 (thiamin hydrochloride), vitamin A palmitate, folic acid, vitamin D, vitamin B12.
Part B: WGR Criteria

Table 3-24. WGR criteria for commercial combination foods with a grain portion

These criteria apply to commercial combination foods that contain a grain portion from groups A-I. Examples include pizza crust in pizza, noodles in lasagna, and breading on chicken nuggets. A product must meet all three criteria to be WGR. **Note:** These criteria do not apply to CN-labeled meat/meat alternate products that contain a WGR grain portion. Grains in CN-labeled products credit based on the stated WGR ounce equivalents per serving. For more information, refer to the CSDE’s resource, *Crediting Breakfast Cereals for Grades K-12 in the NSLP and SBP*.

**WGR criterion 1:** The **grain portion** of the product must contain at least 50 percent whole grains by weight. SFAs may use any one of the methods below to determine if a product meets this criterion.

- **Method 1:** The product’s ingredients statement indicates that a whole grain is the greatest ingredient by weight in the **grain portion**, or the PFS indicates that the combined weight of all whole grains is the greatest ingredient by weight in the **grain portion**. If the product lists the grain ingredients as a separate grain portion, a whole grain must be the first ingredient in the grain portion (or water is the first ingredient and a whole grain is the second ingredient). If the product lists the grain ingredients together with all other ingredients, a whole grain must be the first grain ingredient.

- **Method 2:** The product packaging or PFS indicates that the **grain portion** of the product contains the minimum grain content for 1 ounce equivalent.
  - Groups A-G (baked goods) must contain at least 8 grams of whole grains per ounce equivalent.
  - Group H (cereal grains) must contain at least ¼ cup cooked or 14 grams dry of whole grains per ounce equivalent (½ cup).
  - Group I (RTE breakfast cereals) must contain the required weight or volume for 1 ounce equivalent, and must list a whole grain as the first ingredient and be fortified. Fortification is not required for 100 whole-grain cereals.

- **Method 3:** The product packaging includes one of the FDA’s approved whole grain health claims.

*Continued on next page*
WGR criterion 2: Any remaining grain ingredients in the grain portion of the product must be enriched.

WGR criterion 3: Any noncreditable grains in the grain portion must be less than 2 percent (¼ ounce equivalent) of the product formula. To comply with this limit, the combined total of all noncreditable grains cannot exceed 3.99 grams per ounce equivalent for groups A-G or 6.99 grams per ounce equivalent for groups H-I. If noncreditable grains exceed these amounts, the product is noncreditable, even if it meets WGR criteria 1 and 2.
**Grains**

**Part B: WGR Criteria**

**WGR Criteria for Foods Made from Scratch**

Grain foods prepared from scratch by the SFA must have a standardized recipe that documents the weight of creditable grains (whole and enriched) in one serving. Grain foods made from scratch are WGR if they meet the following three criteria: 1) the standardized recipe contains at least 50 percent whole grains by weight; 2) all grains other than whole grains are enriched; and 3) the combined weight of any noncredible grains (such as bran, germ, and cornstarch) does not exceed 3.99 grams per ounce equivalent for groups A-G or 6.99 grams per ounce equivalent for groups H-I.

For example, a pizza dough recipe that contains 6 pounds of whole-wheat flour, 5 pounds of enriched flour, and no noncredible grains is WGR because the whole-wheat flour weighs more than the enriched flour. Table 3-25 summarizes the WGR criteria for foods made from scratch by the SFA.

<table>
<thead>
<tr>
<th>Table 3-25. WGR criteria for foods made from scratch</th>
</tr>
</thead>
<tbody>
<tr>
<td>These WGR criteria apply to all foods made from scratch. A food must meet all three criteria to be WGR. For more information, refer to the CSDE’s resource, Crediting Breakfast Cereals for Grades K-12 in the NSLP and SBP.</td>
</tr>
</tbody>
</table>

**WGR criterion 1**

The standardized recipe must contain at least 50 percent whole grains by weight. A recipe meets this criterion if the combined weight of all whole grains is equal to or greater than the combined weight of all enriched grains; or the recipe contains only whole grains. For combination foods made from scratch that contain a grain portion (such as pizza crust in pizza and breading on chicken), the WGR criteria apply only to the grain portion of the recipe.

**WGR criterion 2**

All grains in the standardized recipe other than whole grains must be enriched.

**WGR criterion 3**

Any noncredible grains (such as bran, germ, and cornstarch) must be less than 2 percent (¼ ounce equivalent) per ounce equivalent of the recipe. To comply with this limit, the combined total of all noncredible grains cannot exceed 3.99 grams per ounce equivalent for groups A-G or 6.99 grams per ounce equivalent for groups H-I. If noncredible grains exceed these amounts, the standardized recipe is noncredible, even if it meets WGR criteria 1 and 2.
Resources for WGR Criteria

The resources below assist menu planners with meeting the WGR criteria for the NSLP and SBP meal patterns for grades K-12.

- Product Formulation Statement for Documenting Grains in Child Nutrition Programs (USDA):

- Tools for Schools: Serving Whole Grain-rich (USDA):
  https://www.fns.usda.gov/school-meals/tools-schools-serving-whole-grain-rich

- USDA Memo SP 30-2012: Grain Requirements for the National School Lunch Program and School Breakfast Program:
  https://www.fns.usda.gov/cn/grain-requirements-national-school-lunch-program-and-school-breakfast-program

- Whole Grain Resource for the National School Lunch and School Breakfast Programs (USDA):

- Meeting the Whole Grain-rich Requirement for the NSLP and SBP Meal Patterns for Grades K-12 (CSDE):

- Whole Grain-rich Requirement (CSDE’s Crediting Foods in School Nutrition Programs webpage):
Part C: Serving Size

The required quantities for the grains component are in ounce equivalents. Ounce equivalents are a weight-based unit of measure for the grains component that account for dry versus cooked grains.

Required Daily and Weekly Servings

The meal patterns for grades K-12 require daily and weekly servings of the grains component at breakfast and lunch. Table 3-26 summarizes the required grain ounce equivalents for each grade group.

<table>
<thead>
<tr>
<th>Grades</th>
<th>Lunch ¹</th>
<th>Breakfast ¹</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Five-day week</td>
<td>Seven-day week</td>
</tr>
<tr>
<td></td>
<td>Daily</td>
<td>Weekly ²</td>
</tr>
<tr>
<td>K-5</td>
<td>1</td>
<td>8-9</td>
</tr>
<tr>
<td>6-8</td>
<td>1</td>
<td>8-10</td>
</tr>
<tr>
<td>9-12</td>
<td>2</td>
<td>10-12</td>
</tr>
</tbody>
</table>

¹ All grains must be WGR. For more information, refer to Part B: WGR Criteria.
² SFAs cannot offer less than the minimum weekly serving. The maximum weekly serving is not required, but provides a guide for planning age-appropriate meals that meet the weekly limits for calories, saturated fats, and sodium. For information on planning school meals to meet the dietary specifications, refer to section 6.
Daily servings of grains

SFAs may choose to serve one grain or a combination of several grains to meet the minimum daily requirement, as long as each serving contains at least $\frac{1}{4}$ ounce equivalent of grains (refer to “Minimum creditable amounts” in the beginning of section 3). For example, a lunch menu for grades 9-12 could provide the required 2 ounce equivalents of the grains component from 1 cup of brown rice (2 ounce equivalents), or $\frac{1}{2}$ cup of brown rice (1 ounce equivalent) and a 1-ounce whole-grain roll (1 ounce equivalent).

These menu-planning decisions affect students’ selection of reimbursable meals when implementing OVS. For information on OVS, refer to the CSDE’s Offer versus Serve Guide for School Meals and visit the CSDE’s Offer versus Serve for Grades K-12 in School Nutrition Programs webpage.

Depending on the meal and grade group, SFAs must offer more than the minimum daily amount of the grains component on some days to meet the minimum weekly requirement. This applies to lunch for grades K-5 and 6-8, and breakfast for all grades. The examples below illustrate this requirement.

- **Lunch for grades K-5 and 6-8**: The minimum weekly requirement is 8 ounce equivalents for five-day weeks and 11 ounce equivalents for seven-day weeks. SFAs must offer more than 1 ounce equivalent of grains on some days because serving the minimum amount provides only 5 ounce equivalents for five-day weeks and 7 ounce equivalents for seven-day weeks.

- **Breakfast for grades 9-12**: The minimum weekly requirement is 9 ounce equivalents for five-day weeks and 12½ ounce equivalents for seven-day weeks. SFAs must offer more than 1 ounce equivalent of grains on some days because serving the minimum amount provides only 5 ounce equivalents for five-day weeks and 7 ounce equivalents for seven-day weeks.

Lunch menus for grades 9-12 that offer the minimum daily serving (2 ounce equivalents) each day meet the minimum weekly requirement. For more information on meeting the weekly minimums for the grains component, refer to “Weekly Grains and Meat/Meat Alternates at Lunch” and “Weekly Grains at Breakfast” in section 4.
### Weekly servings of grains

Menu planners must determine the weekly servings of the grains component separately for lunch and breakfast menus. The weekly grain servings are the sum of the daily grain servings. For example, a five-day lunch menu that offers $1 \frac{3}{4}$ ounce equivalents of grains each day provides a weekly total of $8 \frac{3}{4}$ ounce equivalents of the grains component. This meets the weekly requirement for grades K-5, but not grades 6-8 or 9-12.

When menus offer multiple grain choices on an individual day, the menu planner must use the daily item with the **smallest** ounce equivalents to count toward the weekly requirements. For example, if the daily lunch menu offers a $1 \frac{1}{2}$-ounce equivalent item and a 2-ounce equivalent item, the menu planner must count the $1 \frac{1}{2}$-ounce equivalent item toward the weekly requirements.

If the lunch menu includes **different** serving sizes of the grains component each day or over the week, SFAs must pay careful attention to the combinations of daily choices. SFAs must review all weekly grain choices to determine compliance with the weekly meal pattern requirements.

For more information on meeting the weekly servings for the grains component, refer to “Weekly Grains and Meat/Meat Alternates at Lunch” and “Weekly Grains at Breakfast” in section 4.

### Meeting the required grain servings

If a menu item contains less than the full serving, the meal must include additional grains to meet the meal pattern requirement for each grade group. For example, the daily lunch meal pattern for grades 9-12 requires 2 ounce equivalents of the grains component. If a menu item contains 1 ounce equivalent of grains, the menu planner must include another menu item with at least 1 ounce equivalent of grains to provide the full serving for grades 9-12.

When crediting grains toward the daily and weekly requirements, menu planners must **round down** to the nearest $\frac{1}{4}$ ounce equivalent. For example, a standardized recipe or commercial product that contains $1.49$ ounce equivalents of grains per serving credits as $1.25$ ounce equivalents of the grains component.
3 | Meal Components

Grains

Part C: Serving Size

Grains offered in amounts less than ¼ ounce equivalent are not included in the calculation of the daily and weekly grain servings, but count toward the weekly dietary specifications. For more information, refer to “Minimum creditable amounts” in the beginning of section 3 and “Dietary Specifications” in section 1.

USDA’s Exhibit A Chart

The USDA’s document, *Exhibit A: Grain Requirements for Child Nutrition Programs*, summarizes the grain ounce equivalents for nine groups (A-I) of creditable grain foods. Each group contains products with similar grain content.

The amount of a creditable grain food that provides 1 ounce equivalent varies because different types of foods contain different amounts of creditable grains. For example, to credit as 1 ounce equivalent of the grains component, a roll must weigh 28 grams (1 ounce), a corn muffin must weigh 34 grams (1.2 ounces), and a blueberry muffin must weigh 55 grams (2 ounces). The minimum amount that credits toward the grains component is ¼ ounce equivalent.

The USDA’s Exhibit A quantities for the grains component are not the same for all Child Nutrition Programs. The CSDE’s resource, *Grain Ounce Equivalents for Grades K-12 in the NSLP and SBP*, lists the Exhibit A grain servings that apply to the lunch and breakfast meal patterns for grades K-12.
Methods to Determine Grain Ounce Equivalents

The USDA allows two methods for determining the grain servings of a creditable product or recipe. These methods are summarized below. For detailed guidance on both methods, refer to the CSDE’s resource, *Calculation Methods for Grain Ounce Equivalents for Preschoolers in the NSLP and SBP*.

**Method 1: Weight or volume (USDA’s Exhibit A chart)**

Method 1 uses the USDA’s chart, *Exhibit A: Grain Requirements for Child Nutrition Programs* (Exhibit A) to determine the required weight (groups A-E) or volume (groups H-I) for the grain group where the product belongs.

- **Groups A-E** include baked goods, such as crackers, animal and graham crackers, breads, rolls, taco shells, muffins, waffles, and pancakes. The amount that provides 1 ounce equivalent ranges from 22 grams (0.8 ounce) for foods in group A to 69 grams (2.4 ounces) for foods in group E.

- **Group H** includes cereal grains, such as pasta, cooked breakfast cereals, and other cereal grains, e.g., amaranth, barley, buckwheat, cornmeal, corn grits, farina, kasha, millet, oats, quinoa, wheat berries, and rolled wheat. These foods require ½ cup cooked or 28 grams (1 ounce) dry to credit as 1 ounce equivalent of the grains component. **Note:** Cereal grains typically credit based on the cooked serving, but menu planners may choose to credit cereal grains using the dry uncooked weight. For guidance on crediting cooked breakfast cereals, refer to the CSDE’s resource, *Crediting Breakfast Cereals for Grades K-12 in the NSLP and SBP*.

  Dry cereal grains used as an ingredient in a recipe (such as rolled oats in bread) require 16 grams of creditable grains to credit as 1 ounce equivalent of the grains component.

- **Group I** includes RTE cold breakfast cereals. These foods require 1 ounce (28 grams) to credit as 1 ounce equivalent of the grains component. A 1-ounce serving equals 1 cup of flaked or round cereal, 1½ cups of puffed cereal, and ¼ cup of granola. For guidance on crediting RTE breakfast cereals, refer to the CSDE’s resource, *Crediting Breakfast Cereals for Grades K-12 in the NSLP and SBP*.
Method 1 is used for all commercial grain products. This method may also be used for recipes if the SFA knows the weight (grams or ounces) of the prepared (cooked) serving.

Menu planners can use the USDA’s online Exhibit A Grains Tool to determine a product’s grain servings, and the required amount to obtain a specific meal pattern contribution. For more information, refer to the USDA’s webinars, Exhibit A Grains Tool to the Rescue and How to Maximize the Exhibit A Grains Tool.

**Method 2: Creditable grains**

Method 2 determines the ounce equivalents for creditable grain products and recipes by calculating the total weight (grams) of creditable grains per serving. The grams of creditable grains are obtained from the commercial product’s PFS or calculated from the grain quantities in the SFA’s recipe. To credit as 1 ounce equivalent of the grains component, foods in groups A-E of the USDA’s Exhibit A chart must contain 16 grams of creditable grains (including at least 8 grams of whole grains) and foods in groups H-I must contain 28 grams of creditable grains (including at least 14 grams of whole grains).

For commercial products, method 2 requires a PFS from the manufacturer that documents the weight of the creditable grains per serving. This information cannot be determined from the product’s Nutrition Facts label or packaging. For more information, refer to “Documentation for Commercial Products” in section 2.

For foods made from scratch, method 2 requires a standardized recipe that lists the weight of each creditable grain ingredient. If the recipe lists grain ingredients only by volume (e.g., cups and quarts), the SFA must calculate the equivalent weight (grams) for each grain ingredient. For more information, refer to “Standardized Recipes” in section 2.
Part C: Serving Size

When method 2 is required for commercial products

SFAs may need to obtain additional information to determine the crediting information for some commercial grain products. A PFS is required for commercial products when any of the following situations apply:

- a creditable grain is not the first ingredient, but the product contains more than one creditable grain;
- a combination food that contains a grain portion is not CN labeled;
- the manufacturer claims that the product’s serving size is less than the required weight or volume in the USDA’s Exhibit A chart;
- the product is not listed in the USDA’s Exhibit A chart, or
- the menu planner wants to credit the products as a WGR food but the first ingredient is a flour blend of whose and enriched grains. For information on crediting foods with flour blends, refer to the CSDE’s guide, *Meeting the Whole Grain-rich Requirement for the NSLP and SBP Meal Patterns for Grades K-12*.

For additional guidance on each situation, refer to the CSDE’s resource, *Calculation Methods for Grain Ounce Equivalents for Grades K-12 in the NSLP and SBP*.

If the manufacturer will not supply a PFS, or the PFS does not provide the appropriate documentation, the product cannot credit as the grains component in school meals.
Crediting Considerations for Grain Servings

Menu planners should consider the crediting requirements below when determining the appropriate serving size for grain products and recipes.

Creditig one slice of bread

Bread is in group B of the USDA’s Exhibit A chart and requires 1 ounce (28 grams) to credit as 1 ounce equivalent of the grains component. The weight of one slice of bread varies greatly among different types of bread products. For many types of bread, one slice weighs more or less than 1 ounce.

Menu planners must check the serving size on the Nutrition Facts label to determine the weight of one slice of bread. This information is required to calculate the ounce equivalents contribution of the slice.

Some breads contain more than one slice per serving. To determine the weight per slice, the menu planner must divide the serving weight by the number of slices in the serving. For example, the serving size for a WGR multigrain bread is 44 grams and contains 2 slices. Each slice of bread weighs 22 grams. Since 22 grams is less than 28 grams, one slice of bread does not credit as 1 ounce equivalent of the grains component.

Crediting menu items with two slices of bread

For sandwiches that contain 2 slices of breads, the total ounce equivalents are determined before rounding down to the nearest ¼ ounce equivalent. The example below illustrates this calculation.

A standardized recipe for a sandwich contains 2 slices of WGR bread that each weigh 0.9 ounce. The grains contribution is determined by adding the weight of both slices together, then rounding down to the nearest ¼ ounce equivalent. Two slices of bread multiplied by 0.9 ounces equals 1.8 ounces, which credits as 1.8 ounce equivalents. This rounds down to 1.75 ounce equivalents of the grains component.

The calculation is incorrect if the menu planner rounds down the weight of each slice first. In this case, the calculation would incorrectly yield 1.5 ounce equivalents of the grains component (0.75 ounce equivalents per slice multiplied by 2 slices).
Crediting cereal bars and granola bars

SFAs must consider the appropriateness of the required serving for cereal bars and granola bars. Plain cereal bars and granola bars (group D) require 2 ounces (55 grams) to credit as 1 ounce equivalent of the grains component. Cereal bars and granola bars with additional ingredients such as nuts, dried fruit, and chocolate pieces (group E) require 2.4 ounces (69 grams) to credit as 1 ounce equivalent of the grains component.

Some types of cereal bars and granola bars require more than one bar to credit as 1 ounce equivalent. For example, a fruit-filled cereal bar that weighs 37 grams credits as ½ ounce equivalent of the grains component. SFAs must serve two of these fruit-filled cereal bars to provide 1 ounce equivalent of the grains component at breakfast. This serving size may not be practical or cost-effective.

Cereal bars and granola bars count toward the limit for grain-based desserts at lunch. Grain-based desserts cannot exceed 2 ounce equivalents per week. For more information, refer to “Limit for grain-based desserts at lunch” in this section.

Required Signage to Identify Grain Servings for Students

SFAs must use meal identification signage to instruct students on how much food to select from each component daily for a reimbursable meal, based on the planned serving sizes for each grade group. For example, if a high school allows students to select two 1-ounce whole-grain rolls to meet the minimum daily 2 ounce equivalents of the grains component at lunch, the cafeteria signage must clearly communicate that students are allowed to select two rolls with each meal. This signage must be on the serving line where the rolls are located. For more information, refer to “Meal Identification Signage” in section 4.
Resources for Grain Servings

The resources below assist menu planners with meeting the required grain ounce equivalents for the NSLP and SBP meal patterns for grades K-12.