# **Crediting Guide**

for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12



School Year 2024-25 (July 1, 2024, through June 30, 2025)



**Revised November 2024** 

Connecticut State Department of Education Bureau of Child Nutrition Programs 450 Columbus Boulevard, Suite 504 Hartford, CT 0613-1841

# Guide to Menu Documentation for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12

### https://portal.ct.gov/-/media/sde/nutrition/mpg/guide\_menu\_documentation\_nslp\_sbp\_k12.pdf

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# **Contents**

About this Guide	ix
Requirements for School Nutrition Programs	ix
CSDE's Menu Planning Guidance Series	x
CSDE Contact Information	xi
Abbreviations and Acronyms	xii
1 — Introduction	1
Overview of Meal Patterns	2
Meal components	
Dietary specifications	
Menu Items	3
Creditable Foods	3
Minimum Creditable Amounts	4
Additional Foods	5
Requirement for Visible Components	6
Exceptions for certain foods	6
Required Crediting Documentation	7
Documentation for commercial products	
Documentation for foods made from scratch	
Storing crediting documentation	
Food Buying Guide for Child Nutrition Programs	
Noncreditable Foods	
Allowable noncreditable foods	
Prohibited noncreditable foods	
Resources for Crediting Foods	12
2 — Milk Component	13
Required Daily and Weekly Servings	13
Table 2-1. Required cups of fluid milk at lunch	
Table 2-2. Required cups of fluid milk at breakfast	13
Allowable Types of Milk	14
Milk Variety	15
Milk variety exemption for RCCIs	
Additional State Milk Requirements for Public Schools	15
Allowable Milk Substitutions for Non-disability Reasons	16
Table 2-3. Summary of federal and state requirements	
USDA's Nutrition Standards for Fluid milk substitutes	17
Table 2-4. USDA's nutrition standards for fluid milk substitutes	18

	Crediting Milk in Smoothies	19
	Milk in Prepared Foods	19
	Serving Milk from Coolers	19
	Keeping Milk Cold	19
	Noncreditable Foods in the Milk Component	20
	Avoiding Common Compliance Issues for the Milk Component	21
	Resources for Crediting Milk	22
3 –	– Meats/Meat Alternates Component	25
	Required Daily and Weekly Servings of MMA at Lunch	25
	Table 3-1. Required oz eq of the MMA component at lunch	25
	Daily oz eq of MMA at lunch	25
	Weekly oz eq of MMA at lunch	26
	MMA at Breakfast	27
	Table 3-2. Required oz eq of the grains/MMA component at breakfast	27
	Minimum Creditable Amount of MMA	28
	Amounts for 1 Oz Eq	28
	MMA versus Protein	29
	Crediting Documentation for Commercial Processed Products	30
	Signage to Identify MMA Servings for Students	30
	Main Dish Requirement for Lunch	31
	Requirement for recognizable main dish	31
	Crediting Alternate Protein Products (APPs)	32
	Criteria for APPs	32
	Required documentation for APPs	33
	Crediting Beans, Peas, and Lentils as MMA	34
	Serving size for beans, peas, and lentils credited as MMA	35
	Table 3-3. MMA contribution of cooked beans, peas, and lentils	35
	Crediting beans, peas, and lentils as MMA in recipes	35
	Crediting roasted or dried beans, peas, and lentils as MMA	
	Resources for beans, peas, and lentils	
	Crediting Bean, Pea, and Lentil Flour Pasta Products as MMA	37
	Table 3-4. MMA contribution of cooked 100 percent bean/pea/lentil	
	flour pasta products	
	Crediting Cheeses	
	Natural cheeses	
	Process Cheeses	
	Cheese substitutes	
	Menu items that contain cheese	
	Summary of required amounts of cheese for 1 oz eq	
	Table 3-5 MMA contribution of cheeses	30

Noncreditable cheeses	39
Crediting Deli Meats, Hot Dogs, and Sausages	40
Crediting meat products with added liquids, binders, and extenders	
Table 3-6. Examples of binders and extenders	
Crediting 100 percent meat products	41
Developing recipes for deli meats	42
Crediting Dried Meat, Poultry, and Seafood Products	43
Evaluating the PFS for dried meat products	43
Crediting dried meat products with ground pork and beef ingredients	44
Crediting Eggs	45
Menu items that contain eggs	45
Crediting Hummus and Bean Dips as MMA	46
Crediting MMA in Combination Entrees	47
Considerations for OVS	47
Crediting MMA in Commercial Products	48
Crediting Nuts and Seeds	49
Change to limit for nuts and seeds at lunch	49
Crediting Nut/Seed Butters	49
Serving size based on volume not weight	49
Table 3-7. MMA contribution of nut/seed butters	
Serving size considerations	51
Nuts, seeds, and nut/seed butters in commercial products	51
Noncreditable nuts and seeds	51
Crediting Surimi Seafood	52
Oz eq contribution per serving	
Table 3-8. MMA contribution of surimi seafood	
Crediting recipes containing surimi	53
Crediting Tempeh	53
Oz eq contribution per serving	53
Crediting Tofu and Tofu Products	
Table 3-9. MMA contribution of tofu	55
Crediting Yogurt and Soy Yogurt	56
Serving size for yogurt	56
Table 3-10. MMA contribution of yogurt	56
Crediting yogurt in smoothies	
Nutrition guidance	57
Noncreditable yogurt	
Resources for crediting yogurt	
Noncreditable Foods in the MMA Component	
Avoiding Common Compliance Issues for the MMA Component	60
Resources for Crediting MMA	61

4 –	- Vegetables Component	65
	Required Daily and Weekly Servings at Lunch	65
	Table 4-1. Required cups of the vegetables component at lunch	65
	Daily servings of vegetables	66
	Weekly servings of vegetables	66
	Vegetables at Breakfast	67
	Required Servings for Vegetables	68
	Meeting the required vegetable servings	68
	Required signage to identify vegetable servings for students	69
	Vegetable Subgroups at Lunch	69
	How to offer the vegetable subgroups	70
	Additional Vegetables	71
	Table 4-2. Vegetable subgroups and additional vegetables for five-day weeks	71
	Table 4-3. Vegetable subgroups and additional vegetables for seven-day weeks	72
	Ensuring Menu Compliance with the Vegetable Subgroups	72
	Avoiding vegetable subgroup conflicts	73
	Table 4-5. Example of vegetable subgroup conflict	74
	Vegetable subgroup substitutions	74
	Menu Planning Tips for Vegetable Subgroups	75
	Sample vegetable subgroup cycle menus	75
	Table 4-6. Sample 20-day vegetable subgroups cycle menu	76
	Table 4-7. Sample one-week vegetable subgroups cycle menu	77
	Salad Bars	78
	Point-of-service positioning	78
	OVS with salad bars	78
	Vegetable subgroups and salad bars	79
	Crediting Canned Vegetables	80
	Crediting Dried Vegetables	80
	Determining rehydrated volume for dried vegetables	80
	Crediting Hominy as Vegetables	81
	Crediting Beans, Peas, and Lentils as Vegetables	82
	Crediting roasted or dried beans, peas, and lentils as vegetables	82
	Crediting hummus and bean dips as vegetables	83
	Crediting beans, peas, and lentils in recipes as vegetables	83
	Crediting documentation for commercial bean, pea, and lentil products	83
	Crediting Mixed Vegetables at Lunch	84
	Crediting Mixed Vegetables at Breakfast	84
	Crediting Pasta Products Made of Vegetable Flour	85
	Crediting vegetable flours as vegetables	85
	Crediting vegetable flours from one vegetable subgroup	86
	Crediting vegetable flours with other non-vegetable ingredients	86

	Signage and staff training for vegetable flour pastas	87
	Crediting Pureed Vegetables	87
	Unrecognizable pureed vegetables	87
	Pureed vegetables in smoothies	88
	Crediting Raw Leafy Greens	88
	Crediting Vegetable and Fruit Mixtures	88
	Crediting Soups	89
	Table 4-8. Creditable commercial vegetable soups	89
	Serving size considerations for commercial soups	90
	Noncreditable soups	
	Crediting Vegetable Juice	
	Crediting vegetable juice toward the vegetable subgroups at lunch	
	Weekly limit for vegetable juice	
	Crediting Pureed Vegetables in Smoothies	
	Combined vegetables and fruits in smoothies	
	Crediting Vegetables in Combination Foods	
	Crediting Vegetables with Added Ingredients	
	Produce Safety	
	Noncreditable Foods in the Vegetables Component	
	Avoiding Common Compliance Issues for the Vegetables Component	96
	Resources for Crediting Vegetables	97
5 -	– Fruits Component	99
	Required Daily and Weekly Servings	99
	Table 5-1. Required cups of the fruits component at lunch	99
	Table 5-2. Required cups of the fruits component for breakfast	99
	Daily servings of fruits	100
	Weekly servings of fruits	100
	Required Servings for Fruits	
	Meeting the required fruit servings	
	Required signage to identify fruit servings with OVS	
	Crediting Canned Fruits	
	Crediting Coconut	
	Crediting Dried Fruits	
	Crediting Fresh Fruits	
	Table 5-3. Meal pattern contribution of whole fresh fruits	
	Crediting Frozen Fruits	
	Crediting Fruits in Commercial Products	
	Crediting Fruits in Desserts	
	Crediting Fruits in Yogurt	107
	Crediting Fruits with Added Ingredients	107

Crediting Fruit Juice	108
Juice concentrates	108
Juice blends	109
Frozen 100 percent juice products	109
Apple cider	110
Coconut water	110
Juice ingredients	110
Weekly limit for fruit juice	110
What counts as juice toward the weekly limits	111
Crediting Pureed Fruits in Smoothies	111
Juice limit for smoothies	
Crediting fruits in commercial smoothies	111
Combined fruits and vegetables in smoothies	112
Crediting other components in smoothies	112
Required documentation for smoothies	113
Noncreditable commercial smoothies	113
Required signage for smoothies	113
Resources for crediting smoothies	113
Pureed Fruits in Other Foods	114
Noncreditable Fruits	114
Avoiding Common Compliance Issues for the Fruits Component	115
Resources for Crediting Fruits	116
6 — Grains Component	119
Overview of Crediting Requirements	120
Weekly WGR Requirement	120
Weekly Limit for Enriched Grains	120
Avoiding Common Compliance Issues for the Grains Component	121
Part A: Crediting Requirements	123
Crediting Grain Foods	123
Limit for noncreditable grains	123
Crediting Commercial Grain Products	123
Crediting Breakfast Cereals	124
WGR cereals	124
Enriched breakfast cereals	125
Fortified breakfast cereals	125
Crediting Foods Made from Scratch	126
Crediting Grain-based Desserts	126
Table 6-1. Allowable grain-based desserts for grades K-12	128
Limit for grain-based desserts at lunch	129
Grain-based desserts at breakfast	129
Identifying grain-based desserts	129

Crediting graham crackers as a WGR food	130
Daily alternate lunch choices	131
Grain-based desserts served as extra foods	131
Crediting Corn Masa, Masa Harina, Corn Flour, and Cornmeal	132
Methods for identifying nixtamalized corn	132
Crediting Hominy as Grains	133
Crediting Popcorn	134
Table 6-3. Grains contribution of popped popcorn	134
Crediting considerations for popcorn	134
Noncreditable Foods in the Grains Component	135
Resources for Crediting Grains	136
Part B: WGR Criteria	139
WGR Criteria for Commercial Grain Products	139
WGR Criteria for Foods Made from Scratch	141
Resources for WGR Criteria	141
Part C: Serving Size	143
Required Daily and Weekly Servings	143
Table 6-4. Required oz eq of the grains component at lunch	143
Table 6-5. Required oz eq of the grains/MMA component at breakfast	143
Daily servings of grains	144
Weekly oz eq of grains	145
Meeting the required grain oz eq	145
USDA's Exhibit A Chart	146
Methods to Determine Grain Oz Eq	
Method 1: Weight or volume (USDA's Exhibit A chart)	147
Method 2: Creditable grains	148
When method 2 is required for commercial products	
Crediting Considerations for Serving Size	
Crediting one slice of bread	151
Crediting sandwiches with two slices of bread	152
Crediting cereal bars and granola bars	
Crediting graham cracker packages	
Required Signage to Identify Grain Servings for Students	
Resources for Grain Servings	154

7 — Resources	157
CSDE Guides	157
CSDE Resource Lists	158
Meal Components and Crediting	
Meal Patterns and Menu Planning	
Regulations and Policy	
Websites	
Glossary	165

## **About this Guide**

The Connecticut State Department of Education's (CSDE) *Crediting Guide for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12* is part of the CSDE's menu planning guidance series for the school nutrition programs (refer to "CSDE's Menu Planning Guidance Series" in this section). This guide provides comprehensive information and resources to assist school food authorities (SFAs) with crediting foods and beverages toward the U.S. Department of Agriculture's (USDA) meal patterns for grades K-12 in the National School Lunch Program (NSLP), School Breakfast Program (SBP), and Seamless Summer Option (SSO) of the NSLP. Meals offered in the SSO follow the NSLP and SBP meal pattern requirements.

The requirements in this guide apply to all public schools, private schools, and residential child care institutions (RCCIs) that participate in the NSLP, SBP, and SSO.

This guide reflects the USDA regulations and policies in effect as of the publication date. Please note that this information may change. The CSDE will update this guide whenever the USDA issues new meal pattern guidance for the nutrition programs. Please check the CSDE's Menu Planning Guidance for School Meals for Grades K-12 webpage for the most current version.

The mention of trade names, commercial products, or organizations does not imply approval or endorsement by the CSDE or the USDA. Product names are used solely for clarification.

## **Requirements for School Nutrition Programs**

Links to the USDA's regulations and final rules for the NSLP and SBP meal patterns are available in the "Meal Patterns for School Nutrition Programs" section of the CSDE's Laws and Regulations for Child Nutrition Programs webpage. The USDA provides guidance for implementing the school nutrition programs through the policy memos on the FNS Documents & Resources webpage.

The CSDE's Program Guidance for School Nutrition Programs webpage provides links to information and guidance on the federal and state requirements for the school nutrition programs, including the meal patterns and dietary specifications, crediting foods and beverages, menu documentation, and meal service. The CSDE's weekly e-newsletter for school nutrition programs, School Lunch Tray (SLT), provides important guidance and resources to help SFAs comply with the federal and state requirements, and identifies deadlines for completing required activities and submitting required reports.

## **CSDE's Menu Planning Guidance Series**

The CSDE's menu planning guidance series includes five comprehensive guides designed to assist SFAs with meeting the NSLP and SBP meal pattern and meal service requirements for grades K-12.

- Guide to the Meal Patterns for Grades K-12 in the National School Lunch Program and School Breakfast Program
- Guide to the Dietary Specifications for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12
- Crediting Guide for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12
- Guide to Menu Documentation for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12
- Guide to Meal Service Requirements for Grades K-12 in the National School Lunch Program and School Breakfast Program

These guides are available on the CSDE's Menu Planning Guidance for School Meals for Grades K-12 webpage.



## **CSDE Contact Information**

Questions regarding this guide may be directed to Susan Fiore, MS, RD, Nutrition Education Coordinator, at 860-807-2075 or susan.fiore@ct.gov.

For questions regarding the NSLP, SBP, and SSO, please contact the school nutrition programs staff in the CSDE's Bureau of Child Nutrition Programs.

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New Haven County (includes Regions 5, 15, and 16)	Greg King 860-713-6804 greg.king@ct.gov
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For a list of all CSDE Child Nutrition Programs staff, refer to the CSDE's *Child Nutrition Staff* and *Responsibilities*. For information on the school nutrition programs visit the CSDE's School Nutrition Programs webpage.

# **Abbreviations and Acronyms**

APP alternate protein product

AR Administrative Review

ASP Afterschool Snack Program of the NSLP

CFR Code of Federal Regulations

C.G.S. Connecticut General Statutes

CN Child Nutrition

CNP Child Nutrition Program

CSDE Connecticut State Department of Education

FBG Food Buying Guide for Child Nutrition Programs (USDA)

FDP Food Distribution Program

FDA Food and Drug Administration

FNS Food and Nutrition Service, U.S. Department of Agriculture

HHFKA Healthy, Hunger-Free Kids Act of 2010 (Public Law 111-296)

ICN Institute of Child Nutrition

LEA local educational agency

MMA meat/meat alternates

NSLP National School Lunch Program

OVS offer versus serve

oz eq ounce equivalents

PFS product formulation statement

RCCI residential child care institution

SBP School Breakfast Program

SFA school food authority

SSO Seamless Summer Option of the NSLP

USDA U.S. Department of Agriculture

WGR whole grain-rich

For additional guidance, refer to the CSDE's resource, *Common Acronyms and Abbreviations in School Nutrition Programs*.

## 1 — Introduction

Schools and institutions that participate in the National School Lunch Program (NSLP) and School Breakfast Program (SBP) must offer meals that comply with the U.S. Department of Agriculture's (USDA) meal patterns for the school nutrition programs. Meals offered in the Seamless Summer Option (SSO) of the NSLP follow the NSLP and SBP meal pattern requirements.

Foods and beverages must meet specific requirements to credit toward the required meal components for reimbursable meals. These crediting requirements apply to commercial products, foods prepared from scratch by the SFA, and foods prepared by vendors. This guide assists school food authorities (SFAs) with meeting these crediting requirements.



#### **Overview of Meal Patterns**

The NSLP and SBP meal patterns for grade K-12 require minimum daily and weekly servings of five meal components. They also require that school menus meet the weekly dietary specifications (nutrition standards). SFAs that meet these meal pattern requirements may claim reimbursement for meals served to children.

#### Meal components

Effective July 1, 2024, the USDA final rule, *Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans*, changes the previous terminology for "food component" to "meal component." A meal component is one of the five food groups that comprise reimbursable meals, including milk, fruits, vegetables, grains, and meats/meat alternates (MMA).

The lunch meal patterns require all five meal components. The breakfast meal patterns require three components: milk; fruits (including vegetable substitutions); and a combined grains/MMA component.

#### **Dietary specifications**

The dietary specifications are the USDA's nutrition standards for reimbursable NSLP and SBP meals for grades K-12. They include minimum and maximum levels for calories and limits for saturated fat and sodium. For more information, refer to the CSDE's resources below and visit the "Dietary Specifications (Nutrition Standards for School Meals)" section of the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage.

- Guide to the Dietary Specifications for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/mpg/guide\_dietary\_specifications\_ nslp\_sbp\_k12.pdf
- Sodium Limits for the National School Lunch Program and School Breakfast Program
  Meal Patterns for Grades K-12 (CSDE):
   https://portal.ct.gov/-/media/sde/nutrition/nslp/mealpattern/sodium limits nslp sbp.pdf
- Weekly Calorie Ranges for School Meals for Grades K-12 in the National School Lunch Program and School Breakfast Program (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/mealpattern/calorie\_ranges\_nslp\_sbp.pdf

Training on the dietary specifications is available in "Module 5: Dietary Specifications" of the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

#### Menu Items

Menu items contribute to the meal components. A menu item is any planned main dish, vegetable, fruit, bread, grain, or milk. Menu items may contribute to one or more meal components. For example, a hamburger (MMA component) on a whole-grain bun (grains component) is one menu item that contributes to two meal components.

#### **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 toward the meal components:

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

The USDA crediting requirements are indicated in the USDA's *Food Buying Guide for Child Nutrition Programs* and communicated through the policy memos on the USDA's FNS Documents & Resources webpage.



#### **Minimum Creditable Amounts**

Each meal component requires a minimum amount to credit toward the meal patterns. Food items that contain less than the minimum amount do not credit but count toward the weekly dietary specifications (refer to "Dietary Specifications" in section 1).

- Milk component: The minimum creditable amount is the full serving (1 cup) of fluid milk for all meals and grade groups. For smoothies only, the minimum creditable amount is ½ cup. If the amount of milk in a smoothie is less than 1 cup, the meal must include the additional amount of milk required to provide the full p 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 section 2.
- **MMA component:** The minimum creditable amount is ½ ounce equivalent (oz eq). At lunch, the MMA component must be served in a main dish or in a main dish and one other food item.
- **Vegetables component:** The minimum creditable amount is ½ cup. Smaller amounts of vegetables used for flavorings or garnishes do not credit in school menus. The meal may include more than one food item (at least ½ cup of vegetable each) to meet the full serving of the vegetables component for each grade group.
- Fruits component: The minimum creditable amount is ½ cup. Smaller amounts of fruits used for flavorings or garnishes do not credit in school menus. The meal may include more than one food item (at least ½ cup of fruit each) to meet the full serving of the fruits component for each grade group.
- **Grains component:** The minimum creditable amount is ¼ oz eq. The meal may include more than one food item (at least ¼ oz eq each) to meet the full serving of the grains component for each grade group.

If a food item provides less than the full serving, the meal must include additional foods from that meal 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 at least ¼ cup of vegetables to meet the full vegetables component.











#### **Additional Foods**

School menus may include additional (extra) foods or larger servings beyond the minimum meal pattern requirements. Additional foods are creditable and noncreditable foods served in addition to the minimum meal pattern requirements.

- Creditable foods are additional servings of a meal component, such as larger servings of fruits and vegetables.
- Noncreditable foods are foods and beverages that do not credit toward the meal
  patterns, such as reduced-fat (2%) milk, water, potato chips, pudding, ice cream, gelatin,
  cream cheese, butter, bacon, and condiments like syrup, jam, ketchup, mustard,
  mayonnaise, and salad dressings. For more information, refer to "Noncreditable Foods"
  in this section.

When offering additional foods, the CSDE encourages SFAs to choose nutrient-dense foods that are appropriate to the nutritional needs of each grade group. Examples include vegetables, fruits, whole grains, low-fat and nonfat milk products, beans, peas, and lentils, and lean meats, fish, poultry.

All additional creditable and noncreditable foods offered to students with reimbursable meals count toward the weekly dietary specifications (refer to "Dietary Specifications" in section 1). Menu planners must ensure that offering additional foods or larger servings does not cause the menu to exceed the weekly limits for calories, saturated fat, and sodium.



## **Requirement for Visible Components**

The USDA requires that foods must be visible (recognizable) to credit toward the meal patterns. For example, SFAs cannot credit peanut butter in smoothies, pureed tofu in soups, or applesauce in muffins. The USDA's intent for this requirement is to ensure that children can easily identify the foods in school menus.

#### **Exceptions for certain foods**

The USDA allows exceptions to the requirement for visible components for the foods below.

- Yogurt or soy yogurt blended in fruit or vegetable smoothies (refer to "Yogurt in Smoothies" In Section 3).
- Pureed fruits and vegetables in smoothies (refer to "Crediting Fruit and Vegetable Smoothies" and "Crediting Pureed Fruits" in section 5).
- Pasta made with 100 percent vegetable flour (refer to "Crediting Bean, Pea, and Lentil Flour Pasta Products as MMA" in section 3 and "Crediting Pasta Products Made of Vegetable Flour" in section 4).

In addition, menu planners may credit foods like entrees that are made with pureed vegetables if they also contain at least ½ cup of visible creditable vegetables. For example, a serving of macaroni and cheese that contains ½ cup of diced butternut squash (visible red/orange vegetable subgroup) and ½ cup of pureed carrots (red/orange vegetable subgroup that is not visible) credits as ¼ cup of the red/orange vegetable subgroup (refer to "Unrecognizable pureed vegetables" in the "Vegetables Component" section).



## **Required Crediting Documentation**

SFAs must be able to document that all foods and beverages offered in school meals meet the meal pattern crediting requirements. Appropriate crediting documentation must be maintained on file for commercial products and foods prepared from scratch. The CSDE will review this information during the Administrative Review of the school nutrition programs.

#### **Documentation for commercial products**

The USDA requires that SFAs must be able to document the meal pattern contribution of all commercial processed products offered in school meals. Processed foods are commercially prepared foods and beverages with added ingredients. Some examples include:

- combination foods that contain more than one meal component, e.g., pizza, chicken nuggets, cheese ravioli, hummus and other bean dips, fruit and yogurt smoothies, fruitfilled pastries, and trail mixes with dried fruits and nuts;
- foods with added liquids, binders, and extenders, e.g., deli meats, hotdogs, and sausages (refer to the CSDE's resources, Crediting Deli Meats in the School Nutrition Programs and Crediting Commercial Meat/Meat Alternate Products in the School Nutrition Programs);
- dried meat, poultry, and seafood products, e.g., jerky and summer sausages;
- foods that are alternate protein products (APPs) or contain APPs (refer to the CSDE's resource, Requirements for Alternate Protein Products in the School Nutrition Programs);
- fruits and vegetables with added ingredients, e.g., breaded onion rings, french fries, hash brown patties, coleslaw, and dried soup mix; and
- WGR or enriched grain products that also contain noncreditable grains (e.g., oat fiber, corn fiber, wheat starch, corn starch, and modified food starch, including potato, legume, and other vegetable flours), such as muffins, crackers, breakfast cereals, and grain-based-deserts like cookies, graham crackers, granola bars, and pastries.

These types of foods require specific documentation to credit toward the meal components of the school meal patterns. SFA must obtain this documentation prior to purchasing, serving, and claiming the food product in reimbursable meals.

#### 1 Introduction

The acceptable types of documentation for processed foods include any of the documents below.

- 1. Child Nutrition (CN) label: A CN label is a USDA-approved statement that clearly identifies the contribution of a commercial product toward the meal pattern requirements. Allowable CN label documentation includes 1) the original CN label from the product carton; 2) a photocopy or photograph of the CN label shown attached to the original product carton; or 3) a CN label copied with a watermark displaying the product name and CN number provided by the vendor, attached to the bill of lading (invoice). For more information, refer to the CSDE's resource, Using Child Nutrition (CN) Labels in the School Nutrition Programs.
- 2. Product formulation statement (PFS): A PFS is a document developed by manufacturers that provides specific information about how a product credits toward the USDA meal patterns for the Child Nutrition Programs. The PFS must be signed by an official of the manufacturer and state the amount of each meal pattern component contained in one serving of the product. For more information on PFS forms, refer to the CSDE's resource, *Using Product Formulation Statements in the School Nutrition Programs*. For guidance on how to review a PFS, refer to the USDA's *Tips for Evaluating a Manufacturer's Product Formulation Statement* and *Reviewer's Checklist for Evaluating Manufacturer Product Formulation Statements (Product Analysis) for Meat/Meat Alternate (M/MA) Products*.

A PFS is required for all commercial processed products without a CN label that are not listed in the USDA's *Food Buying Guide for Child Nutrition Programs* (FBG). This documentation must be obtained and verified for accuracy prior to purchasing, serving, and claiming the food product in reimbursable meals. Commercial processed products without a CN label or PFS cannot credit in the school nutrition programs.

The requirements for crediting documentation for processed foods are defined in USDA Memo SP 05-2025, CACFP 04-2025, SFSP 02-2025: *Guidance for Accepting Processed Product Documentation for Meal Pattern Requirements*. For additional guidance on accepting product documentation, refer to the CSDE's resource, *Accepting Processed Product Documentation in the School Nutrition Programs*, and visit the "Crediting Commercial Processed Products" section of the CSDE's Crediting Foods in School Nutrition Programs webpage or Meal Patterns for Preschoolers in School Nutrition Programs webpage.

Training on the requirements for CN labels and PFS forms is available in Module 6: Meal Pattern Documentation of the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.* 

#### Documentation for foods made from scratch

The USDA's regulations (7 CFR 210.10(b)(5)) require that SFAs develop and follow standardized recipes for all foods prepared from scratch. The USDA defines a standardized recipe as one that has been tried, adapted, and retried at least three times and has been found to produce the same good results and yield every time when the exact procedures are used with the same type of equipment and the same quantity and quality of ingredients. Standardized quantity recipes produce 25 or more servings.

Standardized recipes are required for all foods prepared on site by the SFA and all vended foods made from scratch, such as foods provided through a contract with a food service vendor or food service management company (FSMC).

The meal pattern crediting information for standardized recipes must be based on the yields in the USDA's Food Buying Guide for Child Nutrition Programs (refer to "Food Buying Guide for Child Nutrition Programs" in this section). For guidance on recipe standardization, refer to the Culinary Institute of Child Nutrition's USDA Recipe Standardization Guide for School Nutrition Programs. This "how-to" guide describes recipe standardization techniques in detail and includes examples, practice exercises, and reference materials.

For more guidance and resources on standardized recipes, refer to section 4 of the CSDE's Guide to Menu Documentation for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 and visit the "Crediting Foods Made from Scratch" section of the CSDE's school nutrition programs webpage.

#### Storing crediting documentation

SFAs must maintain all crediting documentation on file in accordance with the records retention requirements for the school nutrition programs (refer to the CSDE's *Records Retention Requirements for the School Nutrition Programs*). This documentation must be current.

## **Food Buying Guide for Child Nutrition Programs**

SFAs should ensure that menu planners use the *Food Buying Guide for Child Nutrition Programs* (FBG) to plan reimbursable meals for the school nutrition programs. The FBG is the definitive resource for determining yields and crediting information for foods and beverages. It provides yield information for common types and customary sizes of milk, MMA, vegetables, fruits, and grains, including commercially available foods and USDA Foods.

The FBG helps menu planners determine:

- a food's specific contribution toward the meal pattern requirements;
- how many servings a specific quantity of food will provide;
- what quantity of raw product will provide the amount of ready-to-cook food in a recipe;
   and
- how much food to buy.

The FBG is available as an interactive web-based tool (which includes the Exhibit A Grains Tool, Recipe Analysis Workbook (RAW), and Product Formulation Statement (PFS) Workbook), a mobile app, and a downloadable PDF. These resources are available on the USDA's Food Buying Guide for Child Nutrition Programs webpage. This webpage also includes training modules and recorded webinars to assist menu planners with using the FBG.

For additional resources, visit the "Food Buying Guide for Child Nutrition Programs (FBG)" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

#### **Noncreditable Foods**

Noncreditable foods are foods and beverages that do not count toward the meal components. Noncreditable foods 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 components.

Examples of noncreditable foods include reduced-fat (2%) milk, water, potato chips, pudding, ice cream, gelatin, cream cheese, butter, bacon, and condiments like syrup, jam, ketchup, mustard, mayonnaise, and salad dressings. Noncreditable foods for each meal component are listed at the end of sections 2 through 6. For more examples, refer to the CSDE's resource, *Noncreditable Foods in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

#### Allowable noncreditable foods

SFAs may serve certain 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 fat, 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 for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1).

#### Prohibited noncreditable foods

Federal and state requirements prohibit sales of some noncreditable foods, such as candy, coffee, tea, soda, and sports drinks. For more information, refer to the CSDE's resource, Overview of Connecticut Competitive Foods Regulations, and visit the CSDE's Competitive Foods in Schools webpage and Beverage Requirements webpage.

Depending on the type of school or institution, snack foods sold a la carte (separately from reimbursable meals) must meet the Connecticut Nutrition Standards (CNS) or the USDA's Smart Snacks nutrition standards. The CNS applies to public school districts that participate in the healthy food option of Healthy Food Certification (HFC). The USDA's Smart Snacks nutrition standards apply to non-HFC public school districts, private schools, and RCCIs.

## **Resources for Crediting Foods**

The websites and resources below provide guidance on 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 meal pattern and crediting requirements, refer to the CSDE's *Resources for the School Meal Patterns for Grades K-12*.

- Crediting Foods in School Nutrition Programs (CSDE webpage): https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs
- Crediting Summary Charts for the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/crediting\_summary\_charts\_ snp\_grades\_k-12.pdf
- Crediting Updates for Child Nutrition Programs: Be in the Know! Webinar Series (USDA): https://www.fns.usda.gov/tn/crediting-updates-child-nutrition-programs-be-know-webinar-series
- CSDE Operational Memoranda for School Nutrition Programs (CSDE webpage): https://portal.ct.gov/sde/lists/operational-memoranda-for-school-nutrition-programs
- Food Buying Guide Exhibit A Grains Tool (USDA webpage): https://foodbuyingguide.fns.usda.gov/ExhibitATool/Index
- Food Buying Guide for Child Nutrition Programs (USDA webpage): https://www.fns.usda.gov/tn/food-buying-guide-for-child-nutrition-programs
- Recipe Analysis Workbook (RAW) of the FBG (USDA webpage): https://foodbuyingguide.fns.usda.gov/
- USDA FNS Instructions for Child Nutrition Programs (CSDE webpage): https://portal.ct.gov/sde/nutrition/fns-instructions-for-child-nutrition-programs
- USDA Policy Memos (USDA's FNS Documents & Resources webpage): https://www.fns.usda.gov/resources
- What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE Training Program): https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials

For additional guidance on crediting foods, visit the CSDE's Crediting Foods in School Nutrition Programs webpage. Training on the meal components and crediting foods is available in the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

# 2 — Milk Component

Milk must be pasteurized, meet all state and local requirements, and contain vitamins A and D at levels specified by the FDA. The NSLP and SBP meal patterns require fluid milk as a beverage. Only fluid milk meets the USDA's definition for milk and the FDA's standard of identity for milk.

## Required Daily and Weekly Servings

The lunch and breakfast meal patterns require minimum daily and weekly servings (cups) of the milk component for each grade group. These requirements for five-day and seven-day weeks are summarized below. Meals with breakfast cereals may include fluid milk as a beverage, on cereal, or both.

Table 2-1. Required cups of fluid milk at lunch

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	1	5	7
6-8	1	5	7
9-12	1	5	7

Table 2-2. Required cups of fluid milk at breakfast

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	1	5	7
6-8	1	5	7
9-12	1	5	7

## Allowable Types of Milk

Allowable types of milk for grades K-12 include low-fat (1%) milk and fat-free milk, either unflavored or flavored. SFAs may serve any of the following types of low-fat or fat-free milk that are pasteurized and meet state and local standards:

- lactose-free and lactose-reduced milk;
- cultured milk, such as cultured buttermilk, cultured kefir milk, and cultured acidophilus milk:
- acidified milk, such as acidified kefir milk and acidified acidophilus milk; and
- Ultra High Temperature (UHT) milk.

SFAs cannot serve milk that does not meet the required fat content. For example, whole milk and reduced-fat (2%) milk do not credit in reimbursable meals.

Effective with school year 2025-26 (beginning July 1, 2025), the USDA final rule, Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans, establishes a sugars limit for flavored milk. Flavored milk served in school meals cannot exceed 10 grams of added sugars per 8 fluid ounces. Flavored milk sold la carte in middle and high schools cannot exceed 15 grams of added sugars per 12 fluid ounces.

If a child has a disability that requires milk with a different fat content, SFAs must make the substitution prescribed in the medical statement signed by a state licensed healthcare professional or registered dietitian. For detailed guidance, refer to the CSDE's Guide to Meal Modifications in the School Nutrition Programs and visit the CSDE's Special Diets in School Nutrition Programs webpage.

Effective with school year 2024-25 (beginning July 1, 2024), the USDA final rule, Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans, changes the previous references in the regulations from "medical authority" to "state licensed healthcare professional or registered dietitian" and revises the regulations for Child Nutrition Programs to specify that state licensed healthcare professionals and registered dietitians may write medical statements to request meal modifications for children with disabilities. The final rule requires SFAs to accept medical statements from registered dietitians by July 1, 2025. SFAs may choose to implement this change prior to this deadline.

## **Milk Variety**

SFAs must offer at least two different choices of milk at lunch and breakfast. Choices may include low-fat milk and fat-free milk, either unflavored or flavored. At least one choice must be unflavored. SFAs must document this information in the daily production records. For more information, refer to the CSDE's resource, *Requirements for Production Records in School Nutrition Programs*.

#### Milk variety exemption for RCCIs

RCCIs that are juvenile detention centers or correctional facilities may meet the milk variety requirement over the week instead of daily, if there are potential legitimate safety concerns about offering different types of milk to students. For example, RCCIs 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, visit the "Meal Pattern Exemption for RCCIs with Multiple Age Groups" section of the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage.

## **Additional State Milk Requirements for Public Schools**

Public schools must meet additional state requirements for the milk component. Milk available for sale to students 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.). These requirements apply to milk sold in reimbursable meals, milk served in afterschool snacks in the Afterschool Snack Program (ASP), and milk sold a la carte. The state beverage statute does not apply to private schools or RCCIs.

The state beverage statute requires that milk cannot exceed 4 grams of sugars per ounce. Commercial products that meet the federal and state requirements for milk are included 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.

## Allowable Milk Substitutions for Non-disability Reasons

The USDA allows two types of substitutions for children who do not consume regular cow's milk due to non-disability reasons.

#### 1. Lactose-free/reduced milk

Lactose-free/reduced milk are fluid milk and credit the same as regular milk in the milk component for the school nutrition programs. These types of milk are processed by adding lactase enzymes to reduce or eliminate the lactose (naturally occurring milk sugar) found in regular milk. Children who cannot digest the lactose found in regular milk may be able to drink lactose-free/reduced milk. The USDA recommends these types of milk as the first choice for children with lactose intolerance.

Lactose-free/reduced milk for grades K-12 must be low fat or fat free, either unflavored or flavored. Public schools must also meet the additional state beverage requirements for milk under Connecticut General Statutes (C.G.S.) Section 10-221q (refer to "Additional State Milk Requirements for Public Schools" in this section).

## 2. Fluid milk substitutes that meet the USDA's nutrition standards for fluid milk substitutes

Fluid milk substitutes are plant-based beverages designed to replace cow's milk, such as soy milk, almond milk, rice milk, and oat milk. To credit in reimbursable meals, fluid milk substitutes must meet the USDA's nutrition standards for fluid milk substitutes (refer to "USDA's Nutrition Standards for Fluid Milk Substitutes" in this section). Only certain brands of fluid milk substitutes meet these standards. Fluid milk substitutes in public schools must also meet the additional state beverage requirements for nondairy milk substitutes under C.G.S. Section 10-221q.

Section 7 CFR 210.10(d)(2)(i) of the NSLP regulations requires that SFAs must inform the CSDE if any schools choose to offer fluid milk substitutes for nondisability reasons.

Table 2-3 summarizes these requirements.

Table 2-3. Summary of federal and state requirements

Requirements	Lactose-free/reduced milk	Fluid milk substitutes	
Federal nutrition standards (USDA)	Must be low-fat or fat-free milk, unflavored or flavored.	Must meet the USDA's nutrition standards for fluid milk substitutes.	
State nutrition standards (C.G.S. Section 10-221q: beverages)  Applies to public schools only: No artificial sweeteners and cannot exceed 4 grams of sugar per ounce.		Applies to public schools only: No artificial sweeteners and cannot exceed grams of sugar per ounce, 35 percent of calories from fat, and 10 percent of calories from saturated fat.	
Documentation  None: Lactose-free/reduced milk are fluid milk and credit as the milk component in the school nutrition programs.		Written request from the parent or guardian, a state licensed healthcare professional, or a registered dietitian that identifies the reason for the milk substitute. Maintain on file with child's medical records.	

#### **USDA's Nutrition Standards for Fluid milk substitutes**

SFAs that choose to offer one or more fluid milk substitutes for non-disability reasons must use commercial products that meet the USDA's nutrition standards for fluid milk substitutes (refer to table 2-4). These nutrition standards ensure that children who require a fluid milk substitute receive the important nutrients found in milk.

Fluid milk substitutes must meet each nutrient standard (nutrients per cup) or the percent daily value (% DV). The manufacturer's nutrition information might list the nutrient values, the unrounded or rounded percent Daily Value (% DV), or both. If any nutrient values are missing, SFAs must obtain this information from the manufacturer.

Table 2-4. USDA's nutrition standards for fluid milk substitutes

Nutrients per cup (8 fluid ounces)	Unrounded % DV <sup>1</sup>	Rounded % DV <sup>2</sup>
Calcium: 276 milligrams (mg)	21.23%	20%
Protein: 8 grams (g)	16%	16%
Vitamin A: 150 micrograms (mcg) retinol activity equivalent (RAE)	16.67%	20%
Vitamin D: 2.5 micrograms (mcg)	12.5%	15%
Magnesium: 24 mg	5.71%	6%
Phosphorus: 222 mg	17.76%	20%
Potassium: 349 mg	7.43%	10%
Riboflavin: 0.44 mg	33.85%	35%
Vitamin B12: 1.1 mcg	45.83%	45%

<sup>1</sup> The unrounded % DV is the minimum nutrients per cup divided by the current daily value for each nutrient (refer to the FDA's Reference Guide: Daily Values for Nutrients).

Effective July 1, 2024, the USDA final rule, Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans, updated the units for the vitamin A and vitamin D requirements for fluid milk substitutes to align with the Food and Drug Administration (FDA) labeling requirements (FDA final rule 81 FR 33742, Food Labeling: Revision of the Nutrition and Supplement Facts Labels). For vitamin A, instead of 500 IUs, the unit requirement is now 150 mcg retinol activity equivalents (RAE) per 8 fluid ounces. For vitamin D, instead of 100 IUs, the unit requirement is now 2.5 mcg per 8 fluid ounces. The amount of vitamin A and vitamin D required in fluid milk substitutes does not change; only the unit of measurement has changed to conform to the FDA's labeling requirements.

For detailed guidance on the requirements and considerations for fluid milk substitutes, refer to the CSDE's resources, Allowable Fluid Milk Substitutes for Non-Disability Reasons in the School Nutrition Programs and Guide to Meal Modifications in the School Nutrition Programs.

<sup>&</sup>lt;sup>2</sup> The rounded % DV is based on the FDA labeling laws and is listed on the Nutrition Facts label (refer to Appendix H of the FDA's A Food Labeling Guide: Guidance for Industry).

## **Crediting Milk in Smoothies**

Low-fat or fat-free milk (unflavored or flavored) credits as the milk component when served in smoothies. For smoothies only, the minimum creditable amount of milk is \( \frac{1}{2} \) 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 required to provide the full milk component.

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 (refer to "Serving Milk" in this section). For more information on crediting smoothies, refer to "Crediting Fruit in Smoothies" in the "Fruits Component" section, "Crediting Vegetables in Smoothies" in the "Vegetables Component" section, and "Crediting yogurt in smoothies" in section 3.

## Milk in Prepared Foods

Only fluid milk meets the USDA's definition for milk and the FDA's standard of identity for milk. The NSLP and SBP meal patterns require fluid milk as a beverage.

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 MMA, refer to section 3.

## **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's Milk Quality Checklist helps SFAs to evaluate current practices and implement procedures for keeping milk cold.

## Noncreditable Foods in the Milk Component

Some examples of foods that do not credit as the milk component include:

- 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., almond milk, cashew milk, rice milk, some brands of soy milk, and most brands of oat milk;
- for public schools only, milk and nondairy milk substitutes that do not meet the state beverage requirements of Connecticut General Statute Section 10-221q;
- milk that is cooked or baked in prepared foods, e.g., cereals, puddings, cream sauces, and macaroni and cheese;
- foods made from milk, e.g., cheese, yogurt, and ice cream;
- nutrition supplement beverages, such as Abbott's Pediasure; and
- powdered milk beverages, such as Nestle's NIDO.

This list is not all-inclusive. For more information, refer to "Noncreditable Foods" in section 1 and the CSDE's resource, Noncreditable Foods in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.



# **Avoiding Common Compliance Issues for the Milk Component**

The common compliance issues indicated below are based on findings from 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 different types of low-fat and fat-free milk with all meals. At least one milk choice 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) low-fat and fat-free 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.
- Offering other beverages such as water and juice in the milk cooler: Milk coolers
  must only contain 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 "Serving Milk from Coolers" in this section.

For more information, refer to 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) 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 Fluid Milk Substitutes for Non-Disability Reasons in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/specdiet/milk substitutes snp.pdf
- Comparison of Meal Pattern Requirements for the Milk Component in School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/comparison milk requirements snp.pdf
- Crediting Summary Charts for the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/crediting summary charts snp grades k-12.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): https://portal.ct.gov/-/media/sde/nutrition/nslp/memos/om2019/om06-19.pdf
- Determining if Nondairy Milk Substitutes Meet the USDA's Nutrition Standards for Fluid Milk Substitutes in School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/specdiet/determining allowable nondairy milk substitutes snp.pdf
- 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 ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage): https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/ Documents#Milk

- USDA Memo SP 01-2025: Fluid Milk Requirements for School Meals: https://fns-prod.azureedge.us/sites/default/files/resource-files/SP01-2025os.pdf
- USDA Memo SP 39-2019: Clarification on the Milk and Water Requirements in the School Meal Program: https://www.fns.usda.gov/school-meals/clarification-milk-and-water-requirements-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
- What's in a Meal Module 7: Milk Component (CSDE's Training Program,
  What's in a Meal: National School Lunch Program and School Breakfast Program Meal
  Patterns for Grades K-12):
  https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials

For additional crediting resources, visit the "Milk Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage. Training on the milk component is available in "Module 7: Milk Component" of the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.



# 3 — Meats/Meat Alternates Component

The meats/meat alternates (MMA) component consists of meats like cooked lean meat, poultry, and fish; and meat alternates (foods that provide a similar protein content to meat). Examples of Meat alternates include alternate protein products (APPs), cheese, eggs, beans, peas, and lentils, nuts and seeds and their butters, yogurt, soy yogurt, tofu, and tempeh. Beans, peas, and lentils credit as either the vegetables component or the MMA component, but one serving cannot credit as both meal components in the same meal snack.

### Required Daily and Weekly Servings of MMA at Lunch

The lunch meal pattern requires minimum daily and weekly oz eq of the MMA component for each grade group. These requirements for five-day and seven-day weeks are summarized below.

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	1	8-10	11-14
6-8	1	9-10	12½-14
9-12	2	10-12	14-17

Table 3-1. Required oz eg of the MMA component at lunch

The weekly oz eq for each grade group are ranges. SFAs cannot offer less than the minimum. The maximum is not required but provides a guide for planning age-appropriate meals that meet the weekly dietary specifications for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1).

#### Daily oz eq of MMA at lunch

Lunch menus for grades K-5 or 6-8 must offer more than the minimum 1 oz eq on some days to meet the minimum weekly requirement. Offering only 1 oz eq daily 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 2 oz eg each day meet the minimum weekly requirement.

### Weekly oz eq of MMA at lunch

Menu planners must determine the weekly oz eq of MMA by adding all planned daily oz eq of MMA. For example, a five-day lunch menu that offers 1¾ oz eq of the MMA component each day provides 8¾ oz eq per week. This meets the minimum weekly oz eq for grades K-5 but does not meet the minimum weekly oz eq for grades 6-8 or 9-12

If the lunch menu offers MMA choices with different oz eq each day or over the week, the menu planner must count the smallest oz eq choice toward the weekly requirements.

• **Example:** The lunch menu offers a 1½-oz eq MMA item and a 2-oz eq MMA item. The 1½-oz eq MMA item counts toward the weekly requirements.

If the lunch menu includes different oz eq MMA choices each day or over the week, SFAs must pay careful attention to the combinations of daily choices to make sure they add up to the minimum weekly oz eq. SFAs must determine if the menu complies with the minimum weekly oz eq for each grade group based on the smallest oz eq choice.

For more information on meeting the weekly oz eq for the MMA component, refer to section 3 of the CSDE's *Guide to the Meal Patterns for Grades K-12 in the National School Lunch Program and School Breakfast Program*.



#### **MMA** at Breakfast

Effective July 1, 2024, the USDA final rule, Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans, establishes a combined grains and MMA component in the SBP meal pattern and removes the previous requirement to offer 1 oz eg of grains each day at breakfast. SFAs may offer 1 oz eg of grains, MMA, or a combination of both.

Table 3-2. Required oz eq of the grains/MMA component at breakfast

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	1	7-10	10-14
6-8	1	8-10	11-14
9-12	1	9-10	12½-14

The weekly oz eg for each grade group are ranges. SFAs cannot offer less than the minimum. The maximum is not required but provides a guide for planning age-appropriate meals that meet the weekly dietary specifications for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1).

For breakfast menu planning guidance and menu ideas, refer to the USDA's Offering Meats and Meat Alternates at School Breakfast.



#### Minimum Creditable Amount of MMA

A food must contain at least ¼ oz eq to credit toward the MMA component. MMA offered in amounts less than \( \frac{1}{4} \) oz eq are not included in the calculation of the daily and weekly oz eq of MMA lunch and the daily and weekly oz eq of grains/MMA at breakfast but count toward the weekly dietary specifications (refer to "Minimum creditable amounts" and "Dietary Specifications" in section 1).

When crediting menu items toward the MMA component, menu planners must round down to the nearest ¼ oz eq. For example, a standardized recipe or commercial product that contains 1.9 ounces of cooked chicken per serving credits as 1.75 oz eq of the MMA component.

# **Amounts for 1 Oz Eq**

The amounts in the MMA 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 serving must contain the appropriate edible portion of MMA, excluding any other ingredients. For example, to credit as 1 oz eq of the MMA component, tuna salad must contain 1 ounce of tuna fish before added ingredients such as mayonnaise, celery, and seasonings.

A 1-oz eq serving of the MMA component equals:

- 1 ounce of lean meat, poultry, or fish;
- 3 ounces of surimi:
- 1 ounce of natural cheese, e.g., Colby, Monterey Jack, and Swiss or process cheese, e.g., American (reduced-fat or low-fat recommended);
- 1/4 cup of cottage cheese (reduced-fat or low-fat recommended);
- 2 ounces of cheese food/spread or cheese substitute;
- ¼ cup of cooked beans, peas, and lentils, 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;
- ½ cup of yogurt or soy yogurt (unflavored or flavored);
- 1 ounce of tempeh that contains specific ingredients;
- 2.2 ounces (weight) or ¼ cup (volume) of tofu and other soy products containing at least 5 grams of protein; and
- 1 ounce of alternate protein product (APP) that meets the USDA's APP requirements.

Menu planners should consult the USDA's FBG to determine the specific yield and crediting information for foods in the MMA component (refer to "Food Buying Guide for Child Nutrition Programs" in section 1).

#### **MMA versus Protein**

The NSLP and SBP meal patterns require a specific amount of the MMA component, not a specific amount of protein. The terms "protein" and "meats/meat alternates" are often used interchangeably, but they are not the same. "Meats/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 MMA component because the grams of protein listed on the product's Nutrition Facts label do not correspond to the oz eq of the MMA 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 oz eq of MMA 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 (refer to "Crediting Commercial Tofu and Tofu Products" in this section).

All 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 oz eq of MMA per serving. For more information, refer to "Crediting MMA in Commercial Products" in this section.

## **Crediting Documentation for Commercial Processed Products**

SFAs must obtain crediting documentation for all commercial MMA products that are processed or contain added ingredients, such as pizza, chicken nuggets, and cheese ravioli. This documentation must state the amount of the MMA component per serving. For example, to credit a commercially prepared cheese pizza as 2 oz eq of the MMA 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 1 and the CSDE's resource, *Accepting Processed Product Documentation in the School Nutrition Programs*.

# Signage to Identify MMA Servings for Students

SFAs must use meal identification signage to instruct students on how much food to select from each meal component daily for a reimbursable meal, based on the planned servings for each grade group. The example below shows how a school could meet this requirement.

• Example: A high school allows students to select two ½-cup containers of yogurt to meet the required 2 oz eq of the MMA 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 yogurt is available.

For more information, refer to the CSDE's Signage Requirements for the National School Lunch Program and School Breakfast Program and section 4 of the CSDE's Guide to Meal Service Requirements for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12



## Main Dish Requirement for Lunch

The daily MMA component at lunch must be served 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 oz eg of the MMA component from:

- a sandwich containing 2 ounces of tuna (2 oz eq); or
- a sandwich containing 1 ounce of tuna (1 oz eq of MMA) served with soup that contains 1/4 cup of beans, peas, or lentils (1 oz eq of MMA).

SFAs cannot serve the daily MMA 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 MMA 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

MMA foods that are not a recognizable main dish do not credit in school meals. 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 MMA in a form that is recognizable to children.

The USDA allows two exceptions to the requirement for a recognizable main dish.

- Yogurt blended in fruit or vegetable smoothies credits as the MMA component. Other MMA (such as peanut butter) do not credit when they are served in smoothies (refer to "Yogurt in smoothies" in this section and "Crediting Fruit and Vegetable Smoothies" in section 5).
- Pasta made with 100 percent bean, pea, or lentil flours may credit as the MMA component if the menu also includes an additional MMA, such as tofu, cheese, or meat (refer to "Crediting Bean, Pea, and Lentil Flour Pasta Products as MMA" in this section).

For more information, refer to "Requirement for visible components" in section 1.

# **Crediting Alternate Protein Products (APPs)**

APPs are food ingredients that may be used alone or in combination with meat, poultry, or seafood. They are processed from soy or other vegetable protein sources and may be dehydrated granules, particles, or flakes. Some examples include soy flours, soy concentrates, soy isolates, whey protein concentrate, whey protein isolates, and casein. APPs may be used in the dry (nonhydrated), partially hydrated, or fully hydrated form.

APPs are generally used as part of a formed meat patty or in a vegetarian patty resembling a meat product. 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 credit as meat alternates. A 1-ounce serving of a creditable APP credits as 1 oz eg of the MMA component. The total MMA contribution cannot exceed the weight of product.

#### **Criteria for APPs**

APPs must meet the USDA's requirements specified in appendix A of the NSLP regulations (7 CFR 210) and appendix A of the SBP regulations (7 CFR 220). These regulations specify that APPs may credit for part or all of the MMA requirement if they meet the three criteria below.

- 1. The APP must be processed so that some portion of the non-protein constituents of the food is removed. This refers to the manufacturing process for APP. APPs must be safe and suitable edible products produced from plant or animal sources.
- 2. The biological quality of the protein in the APP must be at least 80 percent of casein (milk protein), determined by performing a Protein Digestibility Corrected Amino Acid Score (PDCAAS). The PDCAAS is a method of evaluating protein quality.
- The APP contains at least 18 percent protein by weight when fully hydrated or formulated. "When hydrated or formulated" refers to a dry APP and the amount of water, fat, oil, colors, flavors, or any other substances that have been added.

Menu planners cannot determine if commercial APP products meet these criteria by reading the product's label. The labeling laws of the USDA's Food Safety Inspection Service (FSIS) and Food and Drug Administration (FDA) require manufacturers to list product ingredients, but percentage labeling is voluntary. For example, a product may list whey protein concentrate and hydrolyzed soy protein in the ingredients but will not indicate the percentage of these protein ingredients by weight.

### **Required documentation for APPs**

The FBG does not contain yield information for APPs. SFAs must obtain documentation from the manufacturer that the product meets the USDA APP criteria. Without appropriate documentation, APPs do not credit in school menus.

CN-labeled APP products will indicate the appropriate crediting information. Products that are CN labeled require a PFS from the manufacturer with supporting documentation on company letterhead to indicate that the APP ingredient meets the USDA's requirements. Sample APP documentation is on page 6 of the USDA's Questions and Answers on Alternate Protein Products.

The manufacturer's documentation should include information on the percent protein contained in the dry alternate protein product and in the prepared product. For an APP product mix, manufacturers should provide information on the amount by weight of dry APP in the package, hydration instructions, and instructions on how to combine the mix with meat or other meat alternates.

If the PFS for a commercial lists APP ingredients that are being credited as the MMA component, the manufacturer must provide supporting documentation to indicate that these APP ingredients meet the USDA's APP requirements. APP ingredients without this supporting documentation cannot credit in the school nutrition programs.

The USDA's Questions and Answers on Alternate Protein Products (APP) provides additional guidance on documenting the APP requirements. For information on CN labels and PFS forms, refer to "Documentation for commercial products" in section 1. For more information on crediting APPs, refer to the CSDE's resource, Requirements for Alternate Protein Products in the School Nutrition Programs.



## Crediting Beans, Peas, and Lentils as MMA

Beans, peas, and lentils are pulses, which are a type of legumes, i.e., plants that include pods. Pulses are the dried edible seeds of legumes. Examples include black beans, black-eyed peas (mature, dry), edamame (soybeans), garbanzo beans (chickpeas), kidney beans, lentils, navy beans, soybeans, split peas, and white beans. Beans, peas, and lentils are one of the five vegetable subgroups (refer to "Vegetable Subgroups at Lunch" in section 4).

- Beans, peas, and lentils may credit as either the MMA component or the vegetables component, but one serving cannot credit as both meal components in the same meal.
   A ¼-cup serving credits as 1 oz eq of the MMA component or ¼ cup of the vegetables component.
- Beans, peas, and lentils may credit as the MMA component or the vegetables component in different meals. For example, refried beans may credit as the MMA component at one lunch and as the vegetables component at another lunch.
- If a meal includes two servings of beans, peas, or lentils, the menu planner may choose to credit one serving as the MMA component and one serving as the vegetables component. For example, ¼ cup of garbanzo beans in a salad may credit as ¼ cup of the vegetables component and ½ cup of kidney beans in chili may credit as 2 oz eq of the MMA component.
- Beans, peas, and lentils offered as either vegetables or MMA at lunch may count toward the weekly requirement for ½ cup of beans, peas, and lentils. For more information on the vegetable subgroups, refer to "Vegetable Subgroups at Lunch" in section 4.

Menu planners must determine in advance how to credit beans, peas, and lentils in a meal.

Effective July 1, 2024, the USDA final rule, *Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans*, changes the previous references in the regulations for Child Nutrition Programs from "legumes (beans and peas)" to "beans, peas, and lentils."







### Serving size for beans, peas, and lentils credited as MMA

Beans, peas, and lentils credit as meat alternates based on volume. A 1/4-cup serving (4 tablespoons) of beans, peas, or lentils credits as 1 oz eg of the MMA component. The minimum creditable amount is 1 tablespoon (1/4 oz eq).

The serving size refers to the amount of cooked beans, peas, or lentils excluding other ingredients, such as the sauce and pork fat in baked beans. For example, to credit baked beans as 1 oz eq of the MMA component, the serving must contain ¼ cup of beans, not including the sauce and pork fat.

The table below shows the MMA contribution for different amounts of cooked beans, peas, and lentils.

Table 3-3. MMA contribution of cooked beans, peas, and lentils

Serving size	MMA contribution
1 tablespoon	½ oz eq (minimum creditable amount)
2 tablespoons (½ cup)	½ oz eq
3 tablespoons	¾ oz eq
4 tablespoons (1/4 cup)	1 oz eq
5 tablespoons	1¼ oz eq
6 tablespoons (¾ cup)	1½ oz eq
7 tablespoons	1¾ oz eq
8 tablespoons (½ cup)	2 oz eq

For information on crediting beans, peas, and lentils as vegetables, refer to "Crediting Beans, Peas, and Lentils as Vegetables" in section 4.

## Crediting beans, peas, and lentils as MMA in recipes

SFAs must maintain appropriate crediting documentation for menu items that contain beans, peas, and lentils as an ingredient, such as lentil soup, bean burritos, hummus, and chili. These foods credit based on the cups of beans, peas, and lentils in the standardized recipe's serving.

#### 3 Meats/Meat Alternates Component

A standardized recipe must provide at least 1 tablespoon ( $\frac{1}{4}$  oz eq) of beans, peas, or lentils per serving to credit toward the MMA component.

The menu planner must determine the oz eq of MMA in the standardized recipe by dividing the cups of beans, peas, and lentils in one serving of the standardized recipe by 0.25, then rounding down to the nearest ¼ oz eq. For guidance on how to calculate the contribution of beans, peas, and lentils in a standardized recipe, refer to the CSDE's resource, *Crediting Beans, Peas, and Lentils in the School Nutrition Programs*.

### Crediting roasted or dried beans, peas, and lentils as MMA

Roasted or dried beans, peas, and lentils (such as roasted soybeans or roasted chickpeas) credit as meat alternates based on weight (ounces). A 1-ounce serving of roasted or dried beans, beans, or lentils credits as 1 oz eq of the MMA component.

For information on crediting roasted or dried beans, peas, and lentils as the vegetables component, refer to "Crediting Roasted or Dried Beans, Peas, and Lentils as Vegetables" in section 4.

### Resources for beans, peas, and lentils

The recipes and resources below assist SFAs with incorporating beans, peas, and lentils into school menus.

- Beans and Peas are Unique Foods (USDA):
   https://www.choosemyplate.gov/eathealthy/vegetables/vegetables-beans-and-peas
- Child Nutrition Recipe Box (Institute of Child Nutrition): https://theicn.org/cnrb/
- Crediting Beans, Peas, and Lentils in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/credit\_legumes\_snp.pdf
- Manager's Corner: Legumes in School Meals (Institute of Child Nutrition): https://theicn.org/resources/1513/nutrition/122257/legumes-in-school-meals.pdf
- Pulses in Schools (USDA Pulses): https://www.usapulses.org/schools/school-nutrition
- Recipes for Healthy Kids Cookbook for Schools (USDA): https://www.fns.usda.gov/tn/recipes-healthy-kids-cookbook-schools

For additional resources, refer to the "Beans, Peas, and Lentils" section of the CSDE's Resource List for Menu Planning and Food Production in Child Nutrition Programs.

## Crediting Bean, Pea, and Lentil Flour Pasta Products as MMA

Pasta products made of 100 percent bean, pea, and lentil flours (such as chickpea flour or lentil flour) credit as meat alternates. However, the menu planner must offer the pasta with an additional MMA, such as tofu, cheese, or meat. The USDA's intent for this requirement is to ensure that school menus offer MMA in a form that is recognizable to children (refer to "Requirement for visible components" in section 1).

The table below shows the MMA contribution for different amounts of bean/pea/lentil flour pasta products. A 1/4-cup cooked serving credits as 1 oz eg of the MMA component.

Table 3-4. MMA contribution of cooked 100 percent bean/pea/lentil flour pasta products

Serving size	MMA contribution
1 tablespoon	1/4 oz eq (minimum creditable amount)
1/8 cup	½ oz eq
1/4 cup	1 oz eq
3% cup	1½ oz eq
½ cup	2 oz eq

Alternatively, manufacturers and SFAs may credit bean, pea, and lentil flour pasta using the bean flour yield information in the FBG's Appendix C, or with appropriate documentation on the manufacturer's PFS. For more information, refer to "Documentation for commercial products" in section 1 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 Product Formulation Statement.

Pasta made of 100 percent beans, peas, or lentils may also credit as the vegetables component but cannot credit as both the vegetables component and MMA component in the same meal (refer to "100 percent vegetable flours crediting as a vegetable" in section 4).

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 Cheeses**

Cheeses credit as meat alternates. The USDA recommends serving low-fat or reduced-fat cheeses and choosing natural cheeses.

#### **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 credit based on weight. A 1-ounce serving credits as 1 oz eq of the MMA component.

#### **Process Cheeses**

Process cheeses are made by blending natural cheeses with other ingredients such as emulsifiers, preservatives, colorings, and flavorings. Examples include American cheese, pasteurized process cheese food, pasteurized process cheese spread, and pasteurized process cheese products.

Process cheeses credit based on weight. A 1-ounce serving credits as 1 oz eq of the MMA component.

#### Cheese substitutes

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. Cheese substitutes require 2 ounces to credit as 1 oz eq of the MMA component.

#### Menu items that contain cheese

SFAs must maintain appropriate crediting documentation for menu items that contain cheese as an ingredient, such as pizza, lasagna, and macaroni and cheese. SFAs must document the oz eq of cheese per serving with a PFS or CN label for commercial products and a standardized recipe for foods made from scratch (refer to "Required Crediting Documentation" in section 1).

### Summary of required amounts of cheese for 1 oz eq

The table below summarizes the required quantity for different types of cheeses to credit as 1 oz eq of the MMA component.

Table 3-5. MMA contribution of cheeses

Type of cheese	1 oz eq of MMA =
Natural cheese, e.g., cheddar and Swiss	1 ounce
Grated cheese, e.g., Parmesan or Romano	1 ounce (% cup)
Process cheese, e.g., American	1 ounce
Cottage or ricotta cheese	½ cup
Process cheese food	2 ounces
Process cheese spread	2 ounces
Process cheese substitute, cheese food substitute, or process cheese spread substitute	2 ounces

### Noncreditable cheeses

Imitation cheese and cheese products do not credit in the school nutrition programs.



# Crediting Deli Meats, Hot Dogs, and Sausages

Deli meats (such as turkey, chicken, ham, roast beef, salami, and bologna), hot dogs, and sausages credit as the MMA component in the NSLP and SBP meal patterns. The serving that provides 1 oz eg depends on the product's ingredients and varies greatly between different brands and types. SFAs must ensure that the serving of a commercial meat product provides the oz eq being credited toward the MMA component.

### Crediting meat products with added liquids, binders, and extenders

Commercial meat products like deli meats, hot dogs, sausages, and other processed meats often contain added liquids, binders, and extenders (refer to table 3-9). Binders and extenders are defined by the USDA's regulations for the Food Safety and Inspection Service (FSIS) (9 CFR 318.7).

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 oz eq of the MMA component. Crediting depends on the amount of meat per serving, excluding added ingredients. For example, one brand of deli meat might require 1.6 ounces to credit as 1 oz eg of the MMA component, while another brand might require 2.3 ounces.

The examples below show some commercial turkey breast products that contain added liquid, binders, and extenders.

#### Example 1:

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.

### • Example 2:

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

These products require a PFS or CN label to document how they credit toward the MMA component.

### Table 3-6. Examples of binders and extenders

Isolated soy protein (APP) 1 Agar-agar

Algin (a mixture of sodium alginate, Locust bean gum calcium carbonate and calcium Methyl cellulose gluconate/lactic acid) Modified food starch Reduced lactose whey Bread

Calcium-reduced dried skim milk Reduced minerals Carrageenan Sodium caseinate

Soy flour (APP) 1 Carboxymethyl cellulose

(cellulose gum) Soy protein concentrate (APP) <sup>1</sup>

Cereal Starchy vegetable flour

Dried milk Tapioca dextrin Dry or dried whey Vegetable starch Enzyme (rennet) treated calcium-Wheat gluten

Whey reduced dried skim milk and

Whey protein concentrate (APP) 1 calcium lactate

Gums, vegetable Xanthan gum

SFAs must obtain a CN label or PFS to document the oz eq of MMA per serving for all commercial meat products with added liquids, binders, and extenders. For more information, refer to "Documentation for commercial products" in section 1 and the CSDE's resources, Crediting Deli Meats in the School Nutrition Programs and Crediting Commercial Meat/Meat Alternate Products in the School Nutrition Programs.

### Crediting 100 percent meat products

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

<sup>1</sup> Products may contain these ingredients if they meet the USDA's APP requirements (refer to "Crediting Alternate Protein Products (APPs)" in this section).

#### Developing recipes for deli meats

Different brands and types of deli meats credit differently. To ensure proper crediting, SFAs should develop standardized recipes for menu items that contain deli meats, such as sandwiches and other entrees. These standardized recipes should indicate the deli meat's contribution to the MMA component based on a specific weight of a specific brand.

To make portioning simple for food service staff and ensure that the serving provides the proper crediting amount, round up the weight of the deli meat in the standardized recipe to the nearest  $\frac{1}{4}$  ounce. For example, the standardized recipe should list 1.2 ounces of deli meat as 1.25 ounces and 1.6 ounces of deli meat as 1.75 ounces.

If the SFA makes the same food item using different brands of deli meats that credit differently, the standardized recipe should include the specific weight of each brand.

 Example: A school makes a turkey sandwich using either ABC brand turkey breast or XYZ brand turkey breast. The school's standardized recipe should include the required weight of ABC brand for 1 oz eq of MMA and the required weight of XYZ brand for 1 oz eq of MMA. Alternatively, the menu planner could also choose to develop a separate standardized turkey sandwich recipe for each brand of deli meat.

For information on standardized recipes, refer to "Documentation for foods made from scratch" in section 1. Training on standardized recipes is available in "Module 6: Meal Pattern Documentation" of the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.



## **Crediting Dried Meat, Poultry, and Seafood Products**

Shelf-stable, dried, and semi-dried meat, poultry, and credit as the MMA component. Some examples include jerky and summer sausage. The USDA indicates that these products are most useful in meals served off-site like field trips. However, SFAs may also credit these products in meals served on school premises.

Dried meat, poultry, and seafood products require a CN label or PFS to document the oz eq of the MMA component per serving. The FBG does not include crediting information for dried meat, poultry, or seafood products because industry production standards for these products vary widely.

### **Evaluating the PFS for dried meat products**

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.

#### • Example:

Ingredients: Ground beef (not more than 30% fat), water, salt, less than 2% brown sugar, spices, monosodium glutamate, sugar, flavorings, sodium nitrate.

Since this dried beef stick product lists "Ground beef (not more than 30% fat)" as the first ingredient, the product's PFS must also list the crediting information for "Ground beef (not more than 30% fat)."

- 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 oz eg of the MMA component.

### Crediting dried meat products with ground pork and beef ingredients

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 in school menus.

#### Example:

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.

This dried pork stick product does not credit as the MMA component because the creditable ingredients (pork) do not list the fat percentage and does not match a description in the FBG.

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**

Eggs credit as meat alternates. Only whole eggs are creditable. One large egg credits as 2 oz eq of the MMA component. Half of a large egg credits as 1 oz eq of the MMA component.

Liquid egg substitutes are not whole eggs and are not creditable. Egg whites do not credit when they area served without the yolks.

### Menu items that contain eggs

SFAs must maintain appropriate crediting documentation for menu items that contain eggs as an ingredient, such as quiche, frittatas, breakfast sandwiches, pre-cooked egg patties, and scrambled egg breakfast burritos. SFAs must document the oz eq of eggs per serving based on the yields in the FBG. Commercial products require a CN label or a PFS and menu items made from scratch must have a standardized recipe (refer to "Required Crediting Documentation" in section 1).



# Crediting Hummus and Bean Dips as MMA

Hummus and bean dips may credit as either the MMA component or the vegetables component, but one serving cannot credit as both meal components in the same meal. To credit as the MMA component, the serving must contain at least ¼ oz eq of MMA from the combined amount of chickpeas (or other beans, peas, and lentils) and tahini (sesame paste).

- Beans, peas, and lentils: A 1/4-cup serving of beans, peas, or lentils credits as 1 oz eq of the MMA component. The minimum creditable amount is 1 tablespoon ( $\frac{1}{4}$  oz eq).
- Tahini or other ground nut/seed butters: Two tablespoons of tahini or other ground nut/seed butters credit as 1 oz eq of the MMA component. The minimum creditable amount is  $\frac{1}{2}$  tablespoon ( $\frac{1}{4}$  oz eq).

SFAs must maintain crediting documentation for hummus and bean dips that indicates the amount per serving of beans, peas, and lentils and tahini or other ground nut/seed butters, based on the yields in the FBG. Commercial products require a CN label or a PFS and menu items made from scratch must have a standardized recipe (refer to "Required Crediting Documentation" in section 1).

For information on crediting hummus as the vegetables component, refer to "Crediting Beans, Peas, and Lentils as Vegetables" in section 4.

Bean dip is a spread made from ground pulses (beans, peas, and/or lentils) with one or more of the following optional ingredients: ground nut/seed butter (such as tahini [ground sesame] or peanut butter; vegetable oil (such as olive oil, canola oil, soybean oil); seasoning (such as salt, citric acid); vegetables and juice for flavor (such as olives, roasted peppers, garlic, lemon juice); and for manufactured bean dip, ingredients necessary as preservatives and/or to maintain freshness.

# **Crediting MMA in Combination Entrees**

Commercial combination entrees (such as tacos, lasagna, and chicken stir-fry) require a CN label or a PFS stating the amount of the MMA component per serving (refer to "Documentation for commercial products" in section 2). Menu items made from scratch must have a standardized recipe that documents the amount of the MMA component per serving based on the yields in the FBG (refer to "Documentation for foods made from scratch" and "Food Buying Guide for Child Nutrition Programs" 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 meal components for OVS. For example, if the menu includes a turkey sandwich on a whole grain-rich (WGR) roll, SFAs 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 MMA in Commercial Products**

To credit as the MMA 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 MMA component per serving. For example, to credit a commercial breaded chicken patty as 2 oz eg of the MMA component, the product's CN label or PFS must state that one serving of the product contains 2 ounces of cooked chicken. Commercial products cannot credit as the MMA component without this documentation.

SFAs must have a CN label or manufacturer's PFS to document the meal pattern contribution of all commercial MMA products used in school meals (refer to "Documentation for commercial products" in section 1). Commercial products without this documentation cannot credit in school meals.

The CSDE's resource, Crediting Commercial Meat/Meat Alternate Products in the School Nutrition Programs, summarizes the requirements for crediting commercial MMA in school menus.



# **Crediting Nuts and Seeds**

Nuts and seeds credit as meat alternates. 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.

Roasted or dried soybeans also credit as meat alternates. However, fresh soybeans (edamame) are legumes and credit only as the vegetables component (refer to "Vegetable Subgroups at Lunch" in section 4).

A 1-ounce serving of nuts or seeds credits as 1 oz eq of the MMA component. Refer to the crediting guidance below and in the CSDE's resource, Crediting Nuts and Seeds in the School Nutrition Programs.

#### Change to limit for nuts and seeds at lunch

Effective July 1, 2024, the USDA final rule, Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans, removes the previous 50 percent crediting limit for nuts and seeds at lunch. Nuts and seeds may credit for the full MMA component at any meal.

# **Crediting Nut/Seed Butters**

Nut/seed butters credit as meat alternates. Examples of creditable nut/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 standard of identity for peanut butter (21 CFR 164.150), which requires that products contain at least 90 percent peanuts.

#### Serving size based on volume not weight

The serving size for nut/seed butters is based on volume (tablespoons), not weight (ounces). Two tablespoons (1/2 cup) of nut/seed butter credits as 1 oz eg of the MMA component. This crediting is the same for all types of nut/seed butters, such as smooth, crunchy, and natural.

The required volume measure (tablespoons) for nut/seed butters is not the same as weight (ounces). A 1-ounce serving (weight) of nut/seed butter does not provide 1 oz eg of the MMA component. Nut/seed butters that are portioned by weight instead of volume must use the appropriate weight conversion in the USDA's FBG. The table below shows the MMA contribution for different amounts of nut/seed butters.

Table 3-7. MMA contribution of nut/seed butters

Serving size	Scoop (disher) size <sup>1</sup>	Meal pattern contribution	Weight equivalent <sup>3</sup>
½ tablespoon (1½ teaspoons)	Closest is No. 100 (2 teaspoons)	1/4 oz eq (minimum creditable amount)	0.275 ounces
1 tablespoon (3 teaspoons)	Closest is No. 60 (3½ teaspoons)	½ oz eq	0.55 ounces
1½ tablespoons	Closest is No. 40 (1⅔ tablespoons)	¾ oz eq	0.825 ounces
2 tablespoons (1/8 cup)	No. 30 (2 tablespoons)	1 oz eq	1.1 ounces
3 tablespoons	Closest is No. 20 (3⅓ tablespoons)	1½ oz eq	1.65 ounces
4 tablespoons (¼ cup)	No. 16 (¼ cup)	2 oz eq	1.2 ounces

<sup>&</sup>lt;sup>1</sup> Scoop equivalents are from the Institute of Child Nutrition's *Basics at a Glance Portion* Control Poster.

The FBG indicates that 2 tablespoons (1.1 ounces) of nut/seed butter credits as 1 oz eq of the MMA component.

<sup>&</sup>lt;sup>2</sup> Weight equivalents are from the USDA's *Food Buying Guide for Child Nutrition Programs* 

### Serving size considerations

Menu planners should consider the appropriateness of the required serving for each grade group. 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 2 oz eg of the MMA component, which equals 4 tablespoons (\( \frac{1}{4} \) cup) of peanut butter. This is a large amount for two slices of bread.

The CSDE recommends providing a smaller portion of peanut butter and supplementing it with another MMA to provide the full serving. For example, a lunch menu for grades 9-12 could provide 2 oz eq of MMA from a sandwich containing 2 tablespoons of peanut butter (1 oz eq) served with ½ cup of yogurt (1 oz eq). Another option is providing the required 4 tablespoons of peanut butter in three half-sandwiches that each contain 4 teaspoons of peanut butter.

#### Nuts, seeds, and nut/seed butters in commercial products

SFAs must obtain a CN label or PFS for commercial processed products that contain nuts, seeds, and nut/seed butters. Some examples include pre-made peanut butter and jelly sandwiches and trail mix with nuts and dried fruits.

This documentation must state the amount of the MMA component per serving (refer to "Documentation for Commercial Products" in section 2). For example, to credit a commercial pre-made peanut butter sandwich as 1 oz eg of the MMA component, the product's CN label or PFS must state that one serving contains 2 tablespoons of peanut butter.



Nuts, seeds, and nut/seed butters that are ingredients in commercial products must be visible and easily recognizable as meat substitutes to credit in school meals (refer to "Requirement for visible components" in section 1). Commercial products that are not easily recognizable as meat substitutes do not credit as the MMA component. Some examples include peanut butter blended into other foods such as muffins and smoothies, peanut butter in granola bars, and chopped nuts in muffins.

#### Noncreditable nuts and seeds

Acorns, chestnuts, and coconuts do not credit as the MMA component.

# **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. 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 oz eg of the MMA component.

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. The USDA's webinar, Additional Meat/Meat Alternate Options for CNPs: Crediting Tempeh and *Surimi*, provides additional guidance on crediting surimi.

### Oz eq contribution per serving

The table below shows the MMA contribution for different amounts of surimi seafood. The crediting ratio for surimi seafood differs based on portion size due to the USDA rounding rules that require rounding down to the nearest 0.25 oz eq.

Serving size	MMA contribution
1 ounce	1/4 oz eq
2 ounces	½ oz eq
3 ounces	1 oz eq
4.4 ounces	1½ oz eq
6 ounces	2 oz eq

Table 3-8. MMA contribution of surimi seafood

To credit surimi differently from the amounts above, 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 product credits as ½ oz eg of the MMA component.

### Crediting recipes containing surimi

For all menu items made from scratch, SFAs must maintain standardized recipes that document the MMA contribution per serving based on the crediting ratio of 3 ounces of surimi per oz eq (refer to "Documentation for foods made from scratch" in section 1).

## **Crediting Tempeh**

Tempeh credits as a meat alternate. 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. The SFA's standardized recipe must document the oz eq of tempeh per serving.

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.



#### Oz eq contribution per serving

A 1-ounce serving of tempeh credits as 1 oz eq of the MMA component. This method of crediting applies only to tempeh products whose ingredients are limited to soybeans (or other beans, peas, and lentils), 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 (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 MMA component, grains component, and vegetables component. To credit in school menus, this type of tempeh product must provide the minimum creditable quantities, such as \( \frac{1}{4} \) oz eq of MMA, \( \frac{1}{4} \) oz eg 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.

# **Crediting Tofu and Tofu Products**

Tofu does not have an FDA standard of identity. Tofu must meet the three requirements below to credit as a meat alternate.

- Must be commercially prepared and meet USDA's definition: Tofu must be commercially prepared and meet the following definition in 7 CFR 210.2 and 7 CFR 226.2: "a soybean-derived food, made by a process in which soybeans are soaked, ground, mixed with water, heated, filtered, coagulated, and formed into cakes. Basic ingredients are whole soybeans, one or more food-grade coagulants (typically a salt or an acid), and water."
- 2. Must be easily recognizable: The tofu or tofu product must be easily recognizable as a meat substitute to credit as the MMA component (refer to "Requirement for visible components" in section 1). Tofu is widely recognized as a meat substitute and comes in a variety of textures such as silken, soft, firm, and extra firm. Some examples of recognizable tofu and tofu products include firm or extra firm tofu in stir-fries, omelets, miso soup, and minced in lasagna as a substitute for ricotta cheese; and commercial meat substitute products like tofu burgers and tofu sausage.

Tofu products that are not easily recognizable as meat substitutes do not credit in school menus. Some examples include tofu blended into other foods (like smoothies, soup, and sauces), tofu baked in desserts, and tofu that does not represent a meat substitute, such as tofu noodles.

3. Must meet protein requirement: The tofu ingredient must contain at least 5 grams of protein in a 2.2-ounce serving by weight (1/4 cup volume equivalent) to credit as 1 oz eq of the MMA component. Menu planners must use the Nutrition Facts panel or PFS to determine if commercial tofu meets this protein requirement. Table 3-9 shows the MMA contribution for different amounts of tofu and the minimum grams of protein required to credit in the school meal patterns.

SFAs must maintain documentation on file to indicate that commercial tofu products comply with these requirements. For guidance on calculating the grams of protein per serving, refer to the CSDE's resource, Crediting Tofu and Tofu Products in the School Nutrition Programs.

For foods made from scratch that contain tofu, the SFA's standardized recipes must document the oz eq of tofu per serving based on the yields in the FBG (refer to "Documentation for foods made from scratch" in section 1).

Table 3-9. MMA contribution of tofu

Serving size	MMA contribution	Minimum protein (grams) per serving
0.55 ounce (1 tablespoon)	½ oz eq (minimum creditable amount)	1.25 grams
1.1 ounces (1/8 cup)	½ oz eq	2.5 grams
2.2 ounces (¼ cup)	1 oz eq	5 grams
3.3 ounces (% cup	1½ oz eq	7.5 grams
4.4 ounces (½ cup)	2 oz eq	10 grams



## **Crediting Yogurt and Soy Yogurt**

Commercial yogurt and soy yogurt credit as meat alternates. Yogurt may contain added fruit, either blended or on the bottom, and may be:

- unflavored or flavored;
- sweetened or unsweetened; and
- any fat content, e.g., whole fat, low fat, or nonfat.

Yogurt must meet the Food and Drug Administration's (FDA) standard of identity for yogurt (21 CFR 131.200).

Effective with school year 2025-26 (beginning July 1, 2025), the USDA final rule, *Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans*, establishes an added sugars limit for yogurt in the meal patterns for grades K-12. Yogurt cannot contain more than 12 grams of added sugars per 6 ounces (no more than 2 grams of added sugars per ounce).

### Serving size for yogurt

The required serving 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 oz eq of the MMA component. The minimum creditable amount is ½ cup or 1 ounce. The table below shows the MMA contribution for different amounts of yogurt.

Table 3-10. MMA contribution of yogurt

Serving size	MMA contribution
½ cup or 1 ounce	½ oz eq (minimum creditable amount)
½ cup or 2 ounces	½ oz eq
3/8 cup or 3 ounces	¾ oz eq
½ cup (4 ounces)	1 oz eq
¾ cup (6 ounces)	1½ oz eq
1 cup (8 ounces)	2 oz eq

### Crediting yogurt in smoothies

Yogurt and soy yogurt may credit toward the MMA component when used as an ingredient in smoothies. A ½-cup serving of yogurt credits as 1 oz eg of the MMA component.

SFAs must document the cups of yogurt per serving with a standardized recipe for smoothies made from scratch, and a CN label or PFS for commercial products (refer to "Required Crediting Documentation" in section 1). For example, to credit a smoothie as 1 oz eq of the MMA component, the SFA's standardized recipe or the commercial product's CN label or PFS must indicate that each serving contains ½ cup of yogurt.

The addition of yogurt to a smoothie is not a substitution for fluid milk. SFAs must still offer a variety of fluid milk at breakfast and lunch to meet the milk component requirement of the NSLP and SBP meal patterns for grades K-12.

For more information on crediting smoothies, refer to "Crediting Fruit in Smoothies" in section 5. "Crediting Vegetables in Smoothies" in section 4, and "Crediting Milk in Smoothies" in section 2.

### **Nutrition guidance**

The CSDE encourages SFAs to read labels and consider the amount of fat and added sugars when purchasing yogurt for school meals. The *Dietary Guidelines for Americans* recommends serving low-fat and fat-free yogurt for ages 2 and older. These types of yogurts provide the same nutrients as whole milk yogurt but contain less saturated fat and fewer calories.

The CSDE encourages SFAs to choose yogurt without nonnutritive sweeteners (such as aspartame, acesulfame potassium, sucralose, and stevia) or sugar alcohols (such as sorbitol, mannitol, xylitol, maltitol, maltitol syrup, lactitol, erythritol, isomalt, and hydrogenated starch hydrolysates (HSH)). These products are often labeled as "light" or "lite."

#### Noncreditable yogurt

Drinkable or squeezable yogurt and frozen yogurt do not credit in school menus. 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 in school menus.

### Resources for crediting yogurt

The resources below assist menu planners with crediting yogurt in school meals.

- Crediting Smoothies in the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_smoothies\_snp.pdf
- Crediting Yogurt in the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_yogurt\_snp\_ grades\_k-12.pdf
- USDA Memo SP 02-2024, CACFP 02-2024, and SFSP 02-2024: Revised: Crediting Tofu and Soy Yogurt Products in the School Meal Programs, CACFP, and SFSP: https://www.fns.usda.gov/cn/crediting-tofu-and-soy-yogurt-products-school-meal-programs-and-cacfp
- 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

Links to these resource are also available under "Yogurt" in the "Meats/Meat Alternates Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.



## **Noncreditable Foods in the MMA Component**

Some examples of foods that do not credit as the MMA component include:

- acorns, chestnuts, and coconuts;
- APPs that do not meet the USDA's regulatory requirements;
- bacon (pork);
- commercial canned soups, e.g., beef barley, beef noodle, turkey or chicken noodle, and turkey or chicken rice;
- cream cheese;
- drinkable yogurt;
- egg whites without the yolks;
- frozen yogurt;
- imitation cheese and cheese products;
- liquid egg substitutes;
- pork fat;
- 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
- tofu that is not easily recognized as a meat substitute.

This list is not all-inclusive. For more information, refer to "Noncreditable Foods" in section 1 and the CSDE's resource, Noncreditable Foods in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.

Menu planners should use the FBG to identify foods that credit as the MMA component (refer to "Food Buying Guide for Child Nutrition Programs" in section 1).

## **Avoiding Common Compliance Issues for the MMA Component**

The common compliance issues indicated below are based on findings from the CSDE's Administrative Review of the school nutrition programs.

- Insufficient serving: The daily lunch menu cannot provide less than the minimum serving of MMA for each grade group. For each lunch choice, SFAs must offer at least 1 oz eq of MMA for grades K-5 and 6-8, and at least 2 oz eq of MMA for grades 9-12. For more information, refer to "Required Daily and Weekly Servings of MMA at Lunch" in this section.
- Incorrect crediting of commercial combination foods: SFAs must have 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 (refer to "Crediting MMA in Commercial Products" in this section).
- Incorrect crediting of deli meats: Commercial processed meat products like deli
  meats, hotdogs, and sausages credit based on the weight specified in the product's CN
  label or PFS. For more information, refer to "Crediting Deli Meats, Hot Dogs, and
  Sausages" and "Crediting MMA in Commercial Products" in this section.
- Incorrect crediting of peanut butter: The required serving for nut/seed butters is based on volume (tablespoons) not weight (ounces). A 1-ounce serving of peanut butter does not provide 1 oz eq of the MMA component. SFAs must serve 2 tablespoons of peanut butter (1.1 ounces) to credit as 1 oz eq of the MMA component. For more information, refer to "Crediting Nut/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 credit in school menus. Some types of turkey bacon might credit
  depending on the product's CN label or PFS. For more information, refer to
  "Noncreditable MMA," "Crediting Deli Meats, Hot Dogs, and Sausages" and "Crediting
  MMA in Commercial Products" in this section.
- Using the wrong standardized recipe: The standardized recipe used by the menu planner to determine crediting information must be the same standardized recipe that kitchen staff use to prepare the food. Crediting errors can occur when kitchen staff use a different standardized recipe. SFAs must maintain accurate standardized recipes on file that reflect the foods being prepared in the kitchen. For more information, refer to "Documentation for foods made from scratch" in section 1.

SFAs must plan the MMA component of school menus to avoid these compliance issues.

## Resources for Crediting MMA

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

- Accepting Processed Product Documentation in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/accepting processed product documentation snp.pdf
- Crediting Beans, Peas, and Lentils in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit beans peas lentils\_snp.pdf
- Crediting Commercial Meat/Meat Alternate Products in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit commercial mma snp.pdf
- Crediting Deli Meats in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit deli snp.pdf
- Crediting Nuts and Seeds in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit nuts seeds snp.pdf
- Crediting Summary Charts for the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/crediting summary charts snp grades k-12.pdf
- Crediting Tofu and Tofu Products in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit tofu snp.pdf
- Crediting Yogurt in the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit yogurt snp grades k-12.pdf
- Food Buying Guide Section 1: Overview of Crediting Requirements for the Meats/Meat Alternates Component (USDA): https://foodbuyingguide.fns.usda.gov/Content/TablesFBG/USDA FBG Section1 Meats AndMeatAlternates.pdf
- Food Buying Guide Section 1: Yield Table for Meats/Meat Alternates (USDA): https://foodbuyingguide.fns.usda.gov/files/Reports/USDA FBG Section1 MeatsAndMeatAlternatesYieldTable.pdf

- Meats/Meat Alternates Component ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage): https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutritionprograms/Documents#MMA
- Moving Forward: Update on Food Crediting in Child Nutrition Programs with Guidance for Dried Meat Products (USDA webinar): https://www.fns.usda.gov/tn/moving-forward-update-food-crediting-dried-meat-products
- Offering Meats and Meat Alternates at School Breakfast (USDA): https://www.fns.usda.gov/tn/offering-meats-and-meat-alternates-school-breakfast
- Questions and Answers on Alternate Protein Products (USDA):
   https://www.fns.usda.gov/questions-and-answers-alternate-protein-products-app
- Requirements for Alternate Protein Products in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/app\_requirements\_snp.pdf
- Reviewer's Checklist for Evaluating Manufacturer Product Formulation Statements (Product Analysis) for Meat/Meat Alternate (M/MA) Products https://fns-prod.azureedge.us/sites/default/files/reviewer\_checklist.pdf
- Tips for Evaluating a Manufacturer's Product Formulation Statement (USDA):
   https://www.fns.usda.gov/sites/default/files/resource-files/manufacturerPFStipsheet.pdf
- 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 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: https://www.fns.usda.gov/crediting-shelf-stable-dried-and-semi-dried-meat-poultry-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: https://www.fns.usda.gov/cn/crediting-surimi-seafood-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-nutritionprograms
- USDA Memo SP 05-2025, CACFP 04-2025, and SFSP 02-2025: Guidance for Accepting Processed Product Documentation for Meal Pattern Requirements: https://www.fns.usda.gov/cn/labeling/guidance-accepting-processed-productdocumentation
- What's in a Meal Module 8: Meats/Meat Alternates Component (CSDE's Training Program, What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12): https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials

For additional crediting resources, visit the "Meats/Meat Alternates Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage. Training on the MMA component is available in "Module 8: Meats/Meat Alternates Component" of the CSDE's training program, What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.



# 4 — Vegetables Component

The vegetables component includes fresh, frozen, canned, and rehydrated dried vegetables; and pasteurized full-strength vegetable juice. Beans, peas, and lentils credit as either the vegetables component or the MMA component but cannot credit as both meal components in the same meal.

### Required Daily and Weekly Servings at Lunch

The lunch pattern requires minimum daily and weekly servings (cups) of the vegetables component for each grade group. The minimum weekly servings include five vegetable subgroups (refer to "Vegetable Subgroups at Lunch" in this section). The requirements for five-day and seven-day weeks are summarized below.

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	3/4	3¾	51⁄4
6-8	3/4	3¾	51⁄4
9-12	1	5	7



#### 4 Vegetables Components

### Daily servings of vegetables

SFAs may choose to serve a combination of several vegetables to meet the daily requirement if each serving contains at least ½ cup of vegetables (refer to "Minimum creditable amounts" in section 1). For example, a lunch menu for grades K-5 could meet the required ¾-cup serving of vegetables with ½ cup of broccoli and ¼ cup of carrots. Servings that contain less than ½ cup of vegetables do not credit in school menus.

When implementing OVS, menu planners should consider how the planned savings affect students' selection of reimbursable meals. The CSDE encourages SFAs to offer all vegetables in ½-cup servings and allow students to choose two servings. This makes it easier for students to select the required ½ cup of fruits or vegetables for a reimbursable meal. For more information, refer to the CSDE's Offer versus Serve Guide for School Meals.

### Weekly servings of vegetables

The NSLP meal pattern requires minimum weekly servings of the five vegetable subgroups. These include dark green, red/orange, beans, peas, and lentils, starchy, and other (refer to "Vegetable Subgroups at Lunch" in this section).

### Vegetables at Breakfast

The SBP meal pattern does not require the vegetables component. However, SFAs may choose substitute vegetables for the fruits component at breakfast. There are two laws that determine how to offer vegetable substitutions at breakfast.

- The Consolidated Appropriations Act enacted March 9, 2024, allows vegetables from any subgroups to credit in place of fruit at breakfast, without including a vegetable subgroup variety. Guidance on this requirement is available in USDA Memo SP 18-2024, CACFP 06-2024, and SFSP 11-2024: Consolidated Appropriations Act, 2024: Effect on Child Nutrition Programs. This provision is effective for school year 2024-25 and expires on June 30, 2025.
- The USDA final rule, Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans, made changes to the vegetable variety requirement at breakfast as of July 1, 2024. However, the Consolidated Appropriations Act restricts the USDA from enforcing these changes until July 1, 2025, when the Act has expired.

Effective with school year 2025-26 (as of July 1, 2025), SFAs that choose to offer vegetable substitutions at breakfast must comply with the final rule requirements below.

- One day per school week: SFAs that choose to offer vegetable substitutions on one day per school week may offer any vegetables from any subgroups, including starchy vegetables. For example, a school that serves fruit on Monday, Tuesday, Wednesday, and Thursday could offer any vegetable on Friday.
- Two or more days per school week: SFAs that choose to offer vegetable substitutions on two or more days per school week must offer vegetables from at least two different subgroups. For example, a school that offers vegetables from the beans, peas, and lentils vegetable subgroup at breakfast on Monday and vegetables from the starchy vegetable subgroup on Wednesday, may choose to offer vegetables from any subgroup on Thursday and Friday.

For additional guidance, refer to USDA Memo SP 02-2025, Substitution of Vegetables for Fruit Flexibility in the School Breakfast Program: Q&As for Program Operators. For information on the five vegetable subgroups, refer to "Vegetable Subgroups at Lunch" in this section.

### **Required Servings for Vegetables**

The required servings 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 cups 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 specific yield and crediting information for foods in the vegetables component (refer to "Food Buying Guide for Child Nutrition Programs" in section 1).

### Meeting the required vegetable servings

If a menu item contains less than the full serving of vegetables, 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, SFAs must include another menu item with at least ½ cup of vegetables to provide the full serving.

When crediting vegetables toward the daily and weekly meal pattern requirements, menu planners must round down to the nearest ½ cup., For example, a standardized recipe or commercial product that contains 2½ tablespoons of corn per serving credits as 2 tablespoons (½ cup) of the vegetables component.

Vegetables offered in amounts less than ½ cup are not included in the calculation of the daily and weekly vegetable servings, but count toward the weekly dietary specifications (refer to "Minimum creditable amounts" 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 meal component daily for a reimbursable meal, based on the planned servings for each grade group.

• Example: A high school allows students to select two ½-cup servings of vegetables to meet the required 1-cup serving for grades 9-12. The school menu and 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 on the signage requirements, refer to the CSDE's resource, Signage Requirements for the National School Lunch Program and School Breakfast Program, and visit the "Signage and Posters" section of the CSDE's Program Guidance for School Nutrition Programs webpage.

### **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.

- 1. **Dark green:** Examples include bok choy, broccoli, collard greens, dark green leafy lettuce, kale, mesclun, mustard greens, romaine lettuce, spinach, turnip greens, and watercress.
- Red/orange: Examples include acorn squash, butternut squash, carrots, pumpkin, tomatoes, tomato juice, and sweet potatoes;
- 3. Beans, peas, and lentils: Examples include black beans, black-eyed peas (mature, dry), garbanzo beans (chickpeas), kidney beans, lentils, navy beans, soybeans, split peas, and white beans.

Effective July 1, 2024, the USDA final rule, Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans, changes the previous references in the regulations for Child Nutrition Programs from "legumes (beans and peas)" to "beans, peas, and lentils."

#### 4 Vegetables Components

- 4. **Starchy:** Examples include 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.
- 5. **Other:** This subgroup is a distinct grouping of food items classified by the *Dietary Guidelines for Americans*, that includes all other vegetables that are not in the other four subgroups. Examples include 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.

For information on the vegetable subgroups, refer to the CSDE's resource, *Vegetable Subgroups in the National School Lunch Program*.

### How to offer the vegetable subgroups

The vegetable subgroup requirements do not apply to each individual day. SFAs may offer the vegetable subgroups in any order and amount throughout the week. 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 1) the weekly menu meets the full vegetable subgroup requirements; and 2) each day's lunch includes the minimum serving of vegetables.

• Example: SFAs can meet the weekly ½-cup requirement for beans, peas, and lentils for a five-day lunch menu 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. This menu must also include additional vegetable servings each day to meet the minimum daily vegetables for each grade group (¾ 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 guidance and examples of how to use the FBG to determine purchasing and crediting information for vegetables, refer to chapter 2 of the USDA's *Menu Planner for School Meals*.

# **Additional Vegetables**

The required weekly quantities for the five vegetable subgroups do not add up to the total weekly vegetables requirement in the NSP meal patterns. The additional vegetables category makes up the difference.

For example, the vegetable subgroups in the five-day meal pattern for grades K-5 and 6-8 add up to 2<sup>3</sup>/<sub>4</sub> cups per week. Since both grade groups require 3<sup>3</sup>/<sub>4</sub> cups of vegetables per week, SFAs must provide 1 cup of additional vegetables to meet the minimum weekly total. These additional vegetables may come from any of the five subgroups.

The tables below indicate the required weekly quantities of the vegetable subgroups and additional vegetables at lunch for five-day and seven-day weeks.

Table 4-2. Vegetable subgroups and additional vegetables for five-day weeks

Vegetables (cups)	Grades K-5 and 6-8	Grades 9-12
Dark green	1/2	1/2
Red/orange	3/4	11/4
Beans, peas, and lentils	1/2	1/2
Starchy	1/2	1/2
Other	1/2	3/4
Subtotal	23/4	31/2
Additional vegetables required for weekly total (any subgroup)	1	1½
Total weekly vegetables	33/4	5











Table 4-3. Vegetable subgroups and additional vegetables for seven-day weeks

Vegetables (cups)	Grades K-5 and 6-8	Grades 9-12
Dark green	1/2	1/2
Red/orange	3/4	11/4
Beans, peas, and lentils	1/2	1/2
Starchy	1/2	1/2
Other	1/2	3/4
Subtotal	23/4	31/2
Additional vegetables required for weekly total (any subgroup)	2½	3½
Total weekly vegetables	51/4	7

### **Ensuring Menu Compliance with the Vegetable Subgroups**

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

#### Vegetable subgroups must be offered on each serving line

When SFAs have multiple serving lines or offer a variety of meal choices, the minimum required portion of all meal components must be available to all students for every meal on each serving line. Each lunch choice and each serving line must offer students access to the same daily vegetable subgroups, unless the school:

- offers that same subgroup again later in the week; or
- offers each subgroup daily, such as a daily "rainbow" tray that includes pre-portioned selections from each vegetable subgroup.

When planning menus to meet the weekly vegetable subgroups, 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 examples below illustrate this requirement.

• Example 1: 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, corn (or another starchy vegetable) must be offered on Tuesday. Otherwise, students who select the cold lunch on Tuesday do not have access the starchy vegetables subgroup that week.

Offering a daily vegetable subgroup "rainbow" tray on each serving line is a best practice to meet the NSLP meal pattern requirements for the weekly vegetable subgroups. An example is offering a choice of carrots (red/orange subgroup), broccoli (dark green subgroup), kidney beans (beans, peas, and lentils subgroup), corn (starchy subgroup), and sliced cucumbers (other subgroup)

Example 2: 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 (beans, peas, and lentils subgroup) as the daily vegetables. To meet the weekly vegetable subgroups requirement, baked beans (or another vegetable from the beans, peas, and lentils 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 vegetable from the bean, peas, and lentils subgroup, such as garbanzo beans or lentils. SFAs cannot 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.

For information on the vegetable subgroups, refer to the CSDE's resource, Vegetable Subgroups in the National School Lunch Program. For guidance on crediting vegetables, refer to section 4 of the Crediting Guide for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.

#### Avoiding vegetable subgroup conflicts

School menus must meet the vegetable subgroup requirements on a weekly basis. 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. A daily lunch menu that requires students to choose between two different subgroups has a vegetable subgroup conflict. To resolve this conflict, the SFA must make these subgroups available on another day that week. Table 4-5 shows an example of a vegetable subgroup conflict.

Table 4-5. Example of vegetable subgroup conflict

Entree item (student chooses one)	Portion size	Subgroup contribution	
Chili con carne with beans	1 cup (contains ½ cup of kidney beans)	½ cup of beans, peas, and lentils	
Chicken Caesar salad	2 cups of romaine lettuce 2 oz eq of grilled chicken	1 cup of dark green vegetables (raw leafy greens credit as credit as half the volume served)	

This 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, and lentils 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 the dark green vegetables subgroup or the beans, peas, and lentils subgroup. The lunch menu will meet the vegetable subgroup requirement if the SFA implements one of the two options below.

- **Option 1:** Serve the beans, peas, and lentils subgroup and a dark green vegetable on another day (not as part of the entree).
- **Option 2:** Credit the kidney beans as the MMA component and serve the beans, peas, or lentils subgroup as the vegetables component on another day.

SFAs should review all lunch menus to ensure that each serving line offers the minimum weekly amount of each vegetable subgroup.

#### Vegetable subgroup substitutions

SFAs must train school food service staff on making appropriate substitutions within each vegetable subgroup. Substitutions must be from the same vegetable subgroup, unless the SFA offers all five subgroups each day.

For example, if the kitchen runs out of broccoli, school food service staff must substitute another vegetable from the dark green vegetables subgroup. A vegetable substitution from a different subgroup may causes the menu to be noncompliant with the weekly vegetable subgroups

requirement, unless the SFA offers that same vegetable subgroup later that week or offers all vegetable subgroups each day.

# 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 to provide more nutritious meals.

### Sample vegetable subgroup cycle menus

The CSDE encourages SFAs to develop a vegetable subgroups cycle menu that meets the weekly vegetable subgroups. Table 4-6 shows a sample 20-day cycle menu that includes two daily choices from a different vegetable 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 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 4-6. Sample 20-day vegetable subgroups cycle menu

	•	, ,		
Day 1	Day 2	Day 3	Day 4	Day 5
Dark green	Red/orange	Beans, peas, and lentils	Starchy	Other
Broccoli Red leaf lettuce	Carrots Sweet potato	Chickpeas Edamame	Corn Peas	Cucumbers Green beans
Day 6	Day 7	Day 8	Day 9	Day 10
Red/orange	Beans, peas,	Starchy	Other	Dark green

Day 6	Day 7	Day 8	Day 9	Day 10
Red/orange	Beans, peas, and lentils	Starchy	Other	Dark green
Orange peppers Butternut squash	Lentils Kidney beans	Water chestnuts Red potatoes	Cauliflower Cabbage	Spinach Romaine lettuce

Day 11	Day 12	Day 13	Day 14	Day 15
Beans, peas, and lentils	Starchy	Other	Dark green	Red/orange
Split peas Black beans	Corn Potatoes	Celery Green peppers	Boston lettuce Kale	Acorn squash Tomatoes

Day 16	Day 17	Day 18	Day 19	Day 20
Starchy	Other	Dark green	Red/orange	Beans, peas, and lentils
Peas Lima beans	Beets Zucchini	Broccoli Mesclun	Carrots Tomatoes	Split peas Navy beans

Table 4-7 shows a sample one-week cycle menu that includes choices from all five subgroups every day. SFAs could choose implement this cycle menu in a variety of ways that include some or all of the following:

- allow students to self-serve the vegetables subgroups from a vegetable bar, if a salad bar unit is available;
- allow students to self-serve the vegetables subgroups from a vegetable "rainbow" tray on each serving line that contains pre-portioned vegetables from each subgroup; and
- serve hot vegetable choices to students from the lunch lines.

SFAs may 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 to select the daily vegetable choice or choices.

Table 4-7. Sample one-week vegetable subgroups cycle menu

Vegetable subgroup	Day 1	Day 2	Day 3	Day 4	Day 5
Dark green	Broccoli Red leaf lettuce	Spinach Romaine lettuce	Boston lettuce Kale	Broccoli Mesclun	Bok choy Green leaf lettuce
Red/ orange	Carrots Sweet potato	Orange peppers Butternut squash	Acorn squash Tomatoes	Carrots Tomatoes	Red peppers Sweet potato
Beans, peas, and lentils	Chickpeas Edamame	Lentils Kidney beans	Split peas Navy beans	Pinto beans Black beans	Garbanzo beans Kidney beans
Starchy	Corn Peas	Water chestnuts Red potatoes	Jicama Potatoes	Peas Lima beans	Plantains Cassava
Other	Cucumbers Green beans	Cauliflower Cabbage	Celery Green peppers	Beets Zucchini	Snow peas Summer squash

#### **Salad Bars**

The USDA encourages salad bars in the school nutrition programs. SFAs may 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 positioning

Students must select all required meal components for a reimbursable meal (including the vegetable subgroups) from the regular lunch lines before the point of service. The point of service 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 should be located before the point of service.

If a school cannot position the salad bar in a location prior to the point of service, the SFA may request approval from the CSDE for an alternative system. The alternative system must ensure that all students who use the salad bar select the required meal components for a reimbursable meal.

The SFA must submit a written request to the CSDE and receive approval before using any salad bars positioned after the point of service. Students must receive all required meal components of the reimbursable meal. For schools that implement OVS, 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 and the full serving of at least two other meal components.

Without CSDE approval, foods served on an unmonitored salad bar after the point of service are considered "extras" that are not part of the reimbursable meal but count toward the dietary specifications for calories, saturated fat, and sodium (refer to "Additional Foods" and "Dietary Specifications" in section 1).

#### **OVS** with salad bars

If a school implements OVS, salad bars must follow the OVS requirements. Schools may preportion 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 must show how the offered meals contribute to the required meal components and food quantities. For more information, refer to the CSDE's Requirements for Production Records in School Nutrition Programs) and Guide to Menu Documentation for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.

For more information on salad bars in schools, refer to USDA Memo SP 31-2013: Salad Bars in the National School Lunch Program.

For guidance and resources on implementing salad bars for the school nutrition programs, visit the "Salad Bars" section of the CSDE's Menu Planning for Child Nutrition Programs 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, ½ cup of canned peas cannot include the water in which it is packed, and 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 (refer to "Dietary Specifications" in section 1).

# **Crediting Dried Vegetables**

Dried or dehydrated vegetables like 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 school menus.

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 cups of vegetables per serving in the rehydrated volume (refer to "Documentation for commercial products" in section 1).

#### Determining rehydrated volume for dried vegetables

The rehydration volume of dried vegetables often varies from brand to brand. Menu planners must 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 ½-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 the CSDE's *Yield Study Data Form for the Child Nutrition Programs*.

### **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 the starchy vegetables subgroup based on the volume (cups) served. For example, ¼ cup of canned drained hominy credits as ¼ cup of starchy vegetables.

For information on crediting hominy as the grains component, refer to "Crediting Hominy as Grains" in section 6.



### Crediting Beans, Peas, and Lentils as Vegetables

Beans, peas, and lentils may credit as either the MMA component or the vegetables component, but one serving cannot credit as both meal components in the same meal. SFAs must determine in advance how to credit beans, peas, and lentils in a meal. For information on crediting beans, peas, and lentils as the MMA component, refer to "Crediting Beans, Peas, and Lentils as MMA" in section 3.

Beans, peas, and lentils 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.

The serving of cooked beans, peas, or lentils refers to amount of beans, peas, or lentils, excluding other ingredients such as sauce and pork fat. For example, ½ cup of baked beans that contains ½ cup of sauce and pork fat credits as ¾ cup of the vegetables component. For more information, refer to "Vegetables with Added Ingredients" in this section.

A menu item must provide at least ½ cup of beans, peas, or lentils 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 section 1 and "Required Servings for Vegetables" in this section.

#### Crediting roasted or dried beans, peas, and lentils as vegetables

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

The USDA recommends that menu planners use discretion when offering snack-type products (such as individually wrapped soy nuts) in reimbursable meals, due to their perception as snack foods. While these types of products credit in the NSLP and SBP meal patterns, they may be better suited for meals served off site, such as bagged lunches for field trips. When offering these foods as either the MMA or vegetables components, make sure that school menus clearly identify how they contribute to the reimbursable meal.

For information on crediting roasted or dried beans, peas, and lentils as the MMA component, refer to "Crediting roasted or dried beans, peas, and lentils as MMA" in section 3.

### Crediting hummus and bean dips as vegetables

Beans, peas, and lentils in hummus and bean dips may credit as either the MMA component or the vegetables component, but one serving cannot credit as both meal components in the same meal or afterschool snack. Crediting as the vegetables component is based on the cups of beans, peas, and lentils per serving. For example, hummus that contains \( \frac{1}{2} \) cup of chickpeas per serving credits as ¼ cup of the vegetables component. The minimum creditable amount is 11/8 cup.

To credit hummus and bean dips as the vegetable component, SFAs must maintain crediting documentation that indicates the cups of beans, peas, and lentils per serving, based on the yields in the FBG. Commercial products require a CN label or PFS (refer to "Documentation for commercial products" in section 2). Hummus and bean dips made from scratch require a standardized recipe (refer to "Crediting beans, peas, and lentils in recipes as vegetables" in this section).

For information on crediting hummus as the MMA component, refer to "Crediting Hummus and Bean Dips as MMA" in section 3.

### Crediting beans, peas, and lentils in recipes as vegetables

SFAs must maintain appropriate crediting documentation for menu items that contain beans, peas, or lentils as an ingredient, such as lentil soup, bean burritos, and chili. The SFA's standardized recipe must provide at least 1/8 cup of beans, peas, or lentils per serving to credit toward the vegetables component.

The menu planner must determine the crediting information for the vegetables component by dividing the total cups of beans, peas, and lentils in the standardized recipe by the number of servings, then rounding down to the nearest 1/8 cup. For guidance on how to calculate the contribution of beans, peas, and lentils in a recipe, refer to the CSDE's resource, Crediting Beans, Peas, and Lentils in the School Nutrition Programs.

#### Crediting documentation for commercial bean, pea, and lentil products

Commercial processed products that contain beans, peas, and lentils (such as black bean burritos and vegetarian chili) require documentation stating the amount of the MMA component per serving (refer to "Documentation for commercial products" in section 1).

### **Crediting Mixed Vegetables at Lunch**

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

- 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 ½ cup of each different vegetable subgroup credit each vegetable toward the appropriate subgroups. For example, a mixture of ½ cup of carrots (red/orange subgroup) and ½ cup of corn and peas (starchy subgroup) credits as ½ cup of red/orange vegetables and ½ cup of starchy vegetables.
- **Unknown quantities:** If the menu planner does not know the quantities of the different vegetables (such as a frozen vegetable blend of peas, carrots, and corn), the mixture credits as "additional" vegetables.

SFAs may use manufacturer data (such as a PFS) to determine the amount of each type of vegetable in the mixture. This information must clearly document the ratio of the ingredients in the vegetable mixture.

• **Example:** A vegetable blend provides 25 percent broccoli, 25 percent carrots, and 50 percent cauliflower. A 1-cup serving credits as ½ cup of broccoli (dark green subgroup), ½ cup of carrots (red/orange subgroup), and ½ cup of cauliflower (other subgroup).

SFAs are not required to monitor that each portion contains the documented ratios.

# **Crediting Mixed Vegetables at Breakfast**

The SBP meal pattern does not require the vegetable subgroups. Mixed vegetables substituted for the fruits component credit based on the cups served. For example, ½ cup of mixed vegetables credits as ½ cup of the fruits component (vegetable substitution) at breakfast. SFAs that choose to offer vegetable substitutions on two or more days per school week must offer vegetables from at least two different subgroups. 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 beans, peas, or lentils may credit as either the vegetables component or the MMA component but cannot credit as both meal components in the same meal. For more information, refer to "Crediting Bean, Pea, and Lentil Flour Pasta Products as MMA" in section 3.

### 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. For example, 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 flour.

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

Menu planners could choose to credit these products toward the vegetables component based on the cooked volume of the serving.



#### Crediting vegetable flours from one vegetable subgroup

Pasta products made of one or more vegetable flours from one vegetable subgroup may credit toward that vegetable subgroup. For example,  $\frac{1}{2}$  cup of pasta made of 100 percent red lentil flour credits as  $\frac{1}{2}$  cup of the beans, peas, and lentils subgroup.

Pasta made of 100 percent beans, peas, and lentils may also credit as the MMA component but cannot credit as the beans, peas, and lentils subgroup and the MMA component in the same meal. For more information, refer to "Crediting Bean, Pea, and Lentil Flour Pasta Products as MMA" in section 3.

#### Crediting vegetable flours with other non-vegetable ingredients

Pasta products made of vegetable flours with other non-vegetable ingredients may credit toward the vegetables component (or the MMA component for 100 percent bean, pea, and lentil flour pasta) 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 examples below show some ingredients statements for vegetable flour pasta products.

#### • Example 1:

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

This product does not credit toward the vegetables component. The spinach is used for coloring and the amount is too small to credit.

#### • Example 2:

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 students understand what foods are in their meals. 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, if a lunch includes 100 percent chickpea pasta as the vegetables component, the menu could list chickpea pasta with a symbol showing it to be part of the vegetables component of the meal, not the grains component.

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

# **Crediting Pureed Vegetables**

Pureed vegetables must be visible to credit toward the NSLP and SBP meal patterns (refer to "Requirement for visible components" in section 1). Examples include pureed foods made from one vegetable such as tomato sauce, split pea soup, mashed potatoes, mashed sweet potatoes, and pureed butternut squash.

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. SFAs may use the CSDE's Yield Study Data Form for the Child Nutrition Programs to document the yield of pureed vegetables.

#### 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 1/4 cup of a visible creditable vegetable. For example, a serving of macaroni and cheese that contains 1/8 cup of diced butternut squash (visible red/orange subgroup) and 1/8 cup of pureed carrots (red/orange subgroup that is not visible) credits as ¼ cup of the red/orange subgroup.

Pureed vegetables that are not recognizable can be a different subgroup from the visible vegetables. For example, a serving of school-made vegetable soup that contains 1/8 cup of pureed tomatoes (red/orange subgroup) and ½ cup of onion pieces ("other" subgroup) credits toward the red/orange and "other" subgroups. Whenever possible, the USDA encourages SFAs to make pureed vegetables in a blended dish from the same subgroup as the recognizable vegetables to serve as an educational tool for students.

#### 4 Vegetables Components

Pureed vegetables do not credit when used to improve the nutrient profile of a food. For example, pureed black beans in brownies cannot credit toward the beans, peas, and lentils subgroup or the MMA component. Pureed sweet potatoes in a spice cake cannot credit toward the red/orange subgroup.

#### Pureed vegetables in smoothies

Pureed vegetables in smoothies credit only as juice toward the vegetables component and count toward the weekly juice limit for the NSLP and SBP (refer to "Weekly limit for vegetable juice" in this section). Crediting is based on the volume (cups) of pureed vegetables per serving. For example, a smoothie that contains ½ cup of pureed carrots credits as ½ cup of vegetable juice. For additional guidance on crediting smoothies, refer to "Crediting Smoothies" in section 5.

## **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.

As a reminder, 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,  $\frac{1}{2}$  cup of cooked spinach or roasted kale credits as  $\frac{1}{2}$  cup of the vegetables component.

# **Crediting Vegetable and Fruit Mixtures**

Mixtures of vegetables and fruits may credit toward both the vegetables component and the fruits component if the serving contains at least ½ cup of visible vegetables and at least ½ cup of visible fruits. For example, a carrot-raisin salad that contains ½ cup of carrots and ½ 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 (refer to "Crediting Dried Fruits" in section 5).

### **Crediting Soups**

Vegetable soups made from scratch credit based on the volume (cups) 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 (refer to "Documentation for foods made from scratch" and "Food Buying Guide for Child Nutrition Programs" in section 1).

Only certain types of commercial vegetable soups credit toward the NSLP and SBP meal patterns (refer to the table below). The FBG indicates that 1 cup of a commercial bean, pea, or lentil soup credits as ½ cup of vegetables, and 1 cup of commercial vegetable soup credits as 1/4 cup of vegetables. The serving refers to the amount of cooked soup, e.g., heated canned or frozen ready-to-serve soup, reconstituted dried soup, and reconstituted condensed soup.

To credit a commercial soup that is not listed in the FBG, SFAs must obtain a PFS stating the specific contribution of vegetables (refer to "Documentation for commercial products" in section 1). A CN label might be available for some commercial vegetable soups that contain at least  $\frac{1}{2}$  oz eg of the MMA.

Table 4-8. Creditable commercial vegetable soups

### Vegetable soups

Minestrone soup

1 cup =  $\frac{1}{4}$  cup of additional vegetables

Tomato soup Tomato soup with other basic components such as rice Vegetable soup (contains only vegetables) Vegetable soup with other basic components such as meat or poultry

### Bean, pea, and lentil soups

1 cup =  $\frac{1}{2}$  cup of beans, peas, and lentils subgroup

Bean soup, e.g., black bean, navy bean, and mixed bean Pea soup, e.g., split pea Lentil soup

For additional guidance, refer to the CSDE's resource, Crediting Soups in the School Nutrition **Programs** 

### Serving size considerations for commercial soups

The served portion of soup must be sufficient to provide the amount of vegetables being credited toward the meal patterns. Menu planners should consider the appropriateness of the serving size for different grade groups and the container size used to serve the soup.

- **Meal pattern contribution:** The large serving required for a commercial soup to provide the full serving of vegetables might be unreasonable, especially for younger children. For example, the minimum required serving for the vegetables component for grades K-5 and 6-8 at lunch is <sup>3</sup>/<sub>4</sub> cup, which equals 3 cups of a commercial vegetable soup or 1½ cups of a commercial bean, pea, or lentil soup.
- Container size: A 1-cup container (8 fluid ounces) does not provide 1 cup of soup unless it is 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.

### Noncreditable soups

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 school menus.



### **Crediting Vegetable Juice**

Any type of pasteurized full-strength (100 percent) vegetable juice credits in the school meal patterns. Vegetable juice may be fresh, frozen, or made from concentrate. The name of the full-strength fruit juice on the label must include one of the terms below

- Full-strength juice
- Single-strength juice
- 100 percent juice
- · Reconstituted juice
- Juice from concentrate

The statements "natural" and "organic" do not indicate that a juice is full strength.

### 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 credits 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 credits toward 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 section 5.

#### Weekly limit for vegetable juice

Lunch and breakfast menus must meet the weekly juice limit. Vegetable juices cannot exceed half of the weekly offered vegetables.

- **Lunch:** The total cups of vegetable juices offered during the week cannot exceed half of the total cups of vegetables offered during the week. For example, if a five-day lunch menu for grades 9-12 offers 5 cups of vegetables over the week, vegetable juices cannot exceed 2½ cups over the week
- **Breakfast:** The total cups of vegetable juices together with fruit juices (including fruit/vegetable juice blends) cannot exceed half of the total cups of fruits and vegetable substitutions offered during the week. For example, if the breakfast menu offers 5 cups of fruits and vegetables over the week, fruit and vegetable juices cannot exceed 2½ cups of over the week.

If SFAs serve larger amounts of fruits and vegetables, the weekly juice limit also increases. For more information on the weekly juice limits, refer to sections 4 and 6 of the CSDE's "Guide to the Meal Patterns for Grades K-12 in the National School Lunch Program and School Breakfast Program.

# **Crediting Pureed Vegetables in Smoothies**

Pureed vegetables in smoothies credit 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 they 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 credits toward the red/orange vegetable subgroup because both vegetables are from the red/orange vegetable subgroup. A smoothie containing a 100 percent carrot/tomato juice blend also credits toward the red/orange vegetable subgroup.
- **Different subgroup:** Smoothies that contain vegetables or vegetable juices from more than one subgroup credit only toward "additional" vegetables. For example, a smoothie containing carrots (red/orange), spinach (dark green), tomato (red/orange) and watercress (dark green) credits toward "additional" vegetables. A smoothie containing a

100 percent vegetable juice blend of carrots, spinach, tomato, and watercress also credits toward "additional" vegetables.

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 section 5.

### Combined vegetables and fruits in smoothies

Smoothies that contain any combination of pureed fruits, pureed vegetables, and 100 percent fruit and vegetable juice blends credit based on the greatest vegetable or fruit ingredient. Commercial smoothies credit as the vegetables component if the first juice ingredient is vegetable juice or vegetable puree, and credit as the fruits component if the first juice ingredient is fruit juice or fruit puree.

Smoothies made from scratch credit as the vegetables component if vegetable juice or vegetable puree is the greatest juice ingredient in the standardized recipe. They credit as the fruits component if fruit juice or fruit puree is the greatest juice ingredient in the standardized recipe. For information on crediting smoothies as the fruits component, refer to "Crediting Fruits in Smoothies" in section 5.

Vegetable juices and purees in smoothies credit as juice toward the "additional" vegetables requirement (refer to "Additional Vegetables" in this section). SFAs must document the total cups of vegetable juice (including pureed vegetables) per serving with a standardized recipe for smoothies made from scratch or a PFS for commercial products (refer to "Required Crediting" Documentation" in section 1).

# **Crediting Vegetables in Combination Foods**

Combination foods that contain vegetables credit based on the cups of the visible portion of vegetables per serving (refer to "Requirement for visible components" in section 2). Some examples include tomato sauce in pizza and lasagna, kidney beans and tomatoes in chili, vegetable egg rolls, chickpeas in hummus, and vegetables in chicken-vegetable stir-fry.

SFAs must maintain documentation on the cups of vegetables per serving. Commercial products require a CN label (if the vegetables are part of a main dish entree that contains at least ½ oz eg of the MMA component) or PFS. Foods made from scratch require a standardized recipe that documents the cups of vegetables per serving based on the yields in the FBG. For more information, refer to "Required Crediting Documentation" in section 1.

# **Crediting Vegetables with Added Ingredients**

When vegetables contain added ingredients (such as mayonnaise, yogurt, sugar, molasses, salad dressing, or breading), only the vegetable portion credits in school menus. Some examples of vegetables with added ingredients include tossed salad with dressing and croutons, potato salad, mashed potatoes made with butter and milk, baked beans with sauce, carrot-raisin salad, breaded vegetables like eggplant and onion ring, and vegetables with cheese.

• **Example:** To credit coleslaw as ½ cup of the vegetables component, the serving must contain ½ cup of shredded vegetables like cabbage and carrots, before added ingredients such as mayonnaise, vinegar, sugar, and spices.

SFAs must maintain documentation on the cups of vegetables per serving. Commercial products must have a CN label (if the vegetables are part of a main dish entree that contributes to the MMA component) or PFS. Foods made from scratch require a standardized recipe that documents the cups of vegetables per serving based on the yields in the FBG. For more information, refer to "Required Crediting Documentation" in section 1

SFAs are not required to maintain standardized recipes and PFS forms for vegetables without added ingredients, such as whole or cut-up fresh vegetables, canned vegetables, and frozen vegetables.



# **Produce Safety**

SFAs must ensure that all food service personnel understand how to prepare produce safely. The Institute of Child Nutrition's (ICN) 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, visit the CSDE's Food Safety for Child Nutrition Programs webpage and Resources for Child Nutrition Programs webpage.

SFAs must ensure that salad bars comply with Hazard Analysis and Critical Control Point (HACCP). The SFA's standard operating procedure (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 visit the ICN's Standard Operating Procedures webpage.

## Noncreditable Foods in the Vegetables Component

Some examples of foods that do not credit as the vegetables component include:

- 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 and corn chips.

This list is not all-inclusive. For more information, refer to "Noncreditable Foods" in section 1 and the CSDE's resource, Noncreditable Foods in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.

Menu planners should use the FBG to identify foods that credit as the vegetables component (refer to "Food Buying Guide for Child Nutrition Programs" in section 1).

## **Avoiding Common Compliance Issues for the Vegetables Component**

The common compliance issues indicated below are based on findings from the CSDE's Administrative Review of the school nutrition programs.

- Insufficient serving: The daily lunch menu must provide the minimum serving of vegetables required for each grade group (refer to "Required Servings for Vegetables" in this section). For each lunch choice, SFAs must 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.
- 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 Menu Compliance with the Vegetable Subgroups" in this section.
- Not offering all vegetable subgroups on each serving line: When SFAs have
  multiple serving lines or offer a variety of meal choices, the minimum required amounts
  of each vegetable subgroup must be available to all students on each serving line. SFAs
  cannot require students to select the vegetable subgroup choice from a different serving
  line. For more information, refer to "Ensuring Compliance with the Vegetable Subgroups"
  in this section.
- Incorrect vegetable subgroup substitutions: Substituting a vegetable from a different subgroup (such as corn instead of broccoli) could cause the lunch menu to be noncompliant with the weekly vegetable subgroups requirement. Vegetable substitutions must be from the same vegetable subgroup unless the lunch menu offers that same subgroup later in the week or offers all vegetable subgroups each day. 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.
- Missing or inadequate serving line signage for vegetable choices: SFAs must provide information on school menus and 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 the CSDE's Signage Requirements for the National School Lunch Program and School Breakfast Program.

SFAs must plan the vegetables component of school menus to avoid these compliance issues. For more information, refer to 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).

## **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.

- Accepting Processed Product Documentation in the School Nutrition Programs (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/accepting\_processed\_product\_documentation\_snp.pdf
- Crediting Beans, Peas, and Lentils in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_beans\_peas\_ lentils\_snp.pdf
- Crediting Juice in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_juice\_snp\_ grades\_k-12.pdf
- Crediting Smoothies in the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_smoothies\_snp\_ grades k-12.pdf
- Crediting Soups in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_soups\_snp.pdf
- Crediting Summary Charts for the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/crediting\_summary\_charts\_ snp\_grades\_k-12.pdf
- Crediting Vegetable Noodles and Coconut in the Child Nutrition Programs (USDA webinar):
   https://www.fns.usda.gov/tn/crediting-vegetable-noodles-and-coconut-child-nutrition-programs
- 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): https://portal.ct.gov/-/media/sde/nutrition/nslp/memos/om2019/om07-19.pdf

### 4 Vegetables Components

- 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
- Food Buying Guide Section 2: Yield Table for Vegetables (USDA): https://foodbuyingguide.fns.usda.gov/files/Reports/USDA\_FBG\_Section2\_ VegetablesYieldTable.pdf
- Start with Half a Cup: Fresh Vegetable Portioning Guide for Schools: https://portal.ct.gov/-/media/sde/nutrition/swhac/portionguideveg85x14.pdf
- 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 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
- Vegetable Subgroups in the National School Lunch Program (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/vegetable\_subgroups\_nslp.pdf
- Vegetables Component ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage): https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents #Vegetables
- What's in a Meal Module 10: Vegetables Component (CSDE's Training Program,
   What's in a Meal: National School Lunch Program and School Breakfast Program Meal
   Patterns for Grades K-12):
   https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials

For additional crediting resources, visit the "Vegetables Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage. Training on the vegetables component is available in "Module 10: Vegetables Component" of the CSDE's training program, What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.

# 5 — Fruits Component

The fruits component includes fresh, frozen, canned, and dried fruits, and pasteurized full-strength fruit juice.

# **Required Daily and Weekly Servings**

The lunch and breakfast meal patterns require minimum daily and weekly servings (cups) of the fruits component for each grade group. These requirements for five-day and seven-day weeks are summarized below.

Table 5-1. Required cups of the fruits component at lunch

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	1/2	2½	3½
6-8	1/2	2½	3½
9-12	1	5	7

Table 5-2. Required cups of the fruits component for breakfast

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	1	5	7
6-8	1	5	7
9-12	1	5	7

#### Daily servings of fruits

SFAs may choose to serve a combination of several fruits to meet the daily requirement if each serving contains at least 1/2 cup of fruit (refer to "Minimum creditable amounts" in section 1). For example, a lunch menu for grades 9-12 could meet the required 1 cup of the fruits component with ½ cup of peaches and ½ cup of applesauce. Servings that contain less than ½ cup of fruit do not credit in school menus.

When implementing OVS, menu planners should consider how the planned savings affect students' selection of reimbursable meals. 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 select the required ½ cup of fruits or vegetables for 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 5 cups.

# **Required Servings for Fruits**

The servings 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 (refer to "Crediting Dried Fruits" in this section).

Menu planners should consult the USDA's FBG to determine the specific yield and crediting information for foods in the fruits component (refer to "Food Buying Guide for Child Nutrition Programs" in section 1).



### Meeting the required fruit servings

If a menu item contains less than the minimum serving, the meal must include additional fruit to meet the full serving of the fruits component 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, SFAs must include another menu item with at least \( \frac{1}{2} \) cup of fruit to provide the full serving.

When crediting fruits toward the daily and weekly meal pattern requirements, menu planners must round down to the nearest 1/2 cup (refer to "Minimum creditable amounts" in section 1). For example, a standardized recipe or commercial product that contains 2½ tablespoons of strawberries per serving credits as 2 tablespoons (1/2 cup) of the fruits component.

Fruits offered in amounts less than 1/8 cup are not included in the calculation of the daily and weekly fruit servings, but count toward the weekly dietary specifications (refer to "Dietary Specifications" in section 1).

### Required signage to identify fruit servings with OVS

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

• Example: 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 school menu and 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 the CSDE's Signage Requirements for the National School Lunch Program and School Breakfast Program and section 4 of the CSDE's Guide to Meal Service Requirements for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.

# **Crediting Canned Fruits**

Allowable canned fruits include canned fruits in juice, water, and light syrup. Juice and light syrup in canned fruit or fruit cups may count toward the fruits component and are not subject to the weekly juice limit. For example, ½ cup of canned peaches in juice or light syrup credits as  $\frac{1}{2}$  cup of the fruits component.

# **Crediting Coconut**

Fresh and frozen coconut credit as the fruits component based on the volume served. For example, 1/8 cup of fresh or frozen coconut credits as 1/8 cup of the fruits component. Dried coconut credits the same as other dried fruits (twice the volume served). For example, ½ cup of dried coconut credits as \( \frac{1}{2} \) cup of the fruits component (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 in school menus.

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 ½ cup of the fruits component. This crediting does not apply to dried fruits in amounts less than ½ cup (the minimum creditable amount). For example, 1/16 cup (1 tablespoon) of raisins does not credit as \( \frac{1}{2} \) cup fruit.

Manufacturers sometimes process dried fruits with added sugars 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 (such as aspartame, acesulfame potassium, sucralose, and stevia).

Menu planners should limit dried fruits with added sweeteners to help school menus meet the weekly calorie limits (refer to "Dietary Specifications" in section 1).

# **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 \( \frac{1}{2} \) cup to 1\( \frac{1}{2} \) cups. For example, the FBG indicates that:

- one 60-count plum, one 88-count peach, and one clementine each credit as % 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 ½ cup of fruit;
- one 113-count and 125-count orange each credit as <sup>5</sup>/<sub>8</sub> cup of fruit;
- one size 56-64 nectarine, one size 56 peach, and one 120-count pear each credit as 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 must include additional fruit to meet the full serving. The examples below illustrate this requirement.

- Breakfast: The breakfast meal pattern for grades K-12 requires 1 cup of the fruits component. One regular banana (100-120 count) credits as ½ cup of fruit and does not provide the full serving. To credit as the fruits component, the breakfast menu must include an additional ½ cup of the fruits component.
- Lunch: The lunch meal pattern for grades K-5 requires ½ cup of the fruits component. One clementine credits as 3/4 cup of fruit and does not provide the full serving. To credit as the fruits component, the lunch menu must include an additional \( \frac{1}{2} \) cup of the fruits component.

Table 5-3 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. The additional amount at lunch may be from the same fruit or a different fruit. At breakfast, the additional amount may also be from vegetables (refer to "Vegetables at Breakfast" in this section).

The count pack is the number of whole fruits that that fit into a case. The smaller the count, the larger the size of the fruit.

Table 5-3. Meal pattern contribution of whole fresh fruits

Fruit (one piece)	Meal pattern contribution from FBG	Breakfast K-12: Additional amount needed for 1 cup	Lunch K-5 and 6-8: Additional amount needed for ½ cup	Lunch 9-12: Additional amount needed for 1 cup
Apple, 125 to 138 count	1 cup	0	0	0
Apricot, medium (1 ¾-inch diameter)	¹⁄₄ cup	³∕₄ cup	⅓ cup	³⁄₄ cup
Banana, 150 count, petite	³% cup	% cup	⅓ cup	% cup
Banana, 100-120 count, regular	½ cup	½ cup	0	½ cup
Clementine, 1 whole	¾ cup	% cup	⅓ cup	% cup
Grapefruit, 27- 32 count, large	1 cup	0	0	0
Kiwi, 33-39 count	½ cup	¾ cup	¹¼ cup	¾ cup
Nectarine, size 88-96 (2¼-inch diameter)	½ cup	½ cup	0	½ cup
Nectarine, size 56-64 (2¾-inch diameter)	¾ cup	½ cup	0	¹¼ cup
Orange, Arizona or California, 113 count	⁵% cup	³‰ cup	0	³% cup
Orange, Florida or Texas, 125 count	⁵% cup	³‰ cup	0	³‰ cup

Fruit (one piece)	Meal pattern contribution from FBG	Breakfast K-12: Additional amount needed for 1 cup	Lunch K-5 and 6-8: Additional amount needed for ½ cup	Lunch 9-12: Additional amount needed for 1 cup
Orange, Arizona or California, 138 count	½ cup	½ cup	0	½ cup
Peach, size 88 and 84 (2½- inch diameter)	³% cup	⁵% cup	⅓ cup	⁵% cup
Peach, size 64 and 60 (2½- inch diameter)	⅔ cup	⅓ cup	0	⅓ cup
Peach, size 80	½ cup	½ cup	0	½ cup
Peach, size 56	¾ cup	⅓ cup	0	⅓ cup
Pear, 150 count	½ cup	½ cup	0	½ cup
Pear, 120 count	¾ cup	⅓ cup	0	⅓ cup
Pear, D'Anjou, Bosc, or Bartlett, 100 count	1¼ cups	0	0	0
Plum, purple, red, or black, size 45 and 50 (2-inch diameter)	½ cup	½ cup	0	½ cup
Plum, Japanese or hybrid, size 60 and 65	³% cup	⁵% cup	⅓ cup	⁵% cup
Tangerine, 120 count	¾ cup	% cup	⅓ cup	% cup

# **Crediting Frozen Fruits**

Frozen fruits credit based on the volume served. For some frozen fruits (like frozen sliced strawberries and frozen apricots), the serving includes the juice or liquid that accumulates during thawing. For other frozen fruits (like frozen berry blends, frozen sweet cherries, and frozen mangoes), the serving is for the thawed, drained fruit. Check the FBG for the specific serving and crediting requirements for different types of frozen fruits.

Some frozen fruits contain added sugars. Menu planners should limit frozen fruits with added sugars to help school menus meet the weekly calorie limits (refer to "Dietary Specifications" in section 1).

# **Crediting Fruits in Commercial Products**

Commercial products that contain at least 1/8 cup of one or more visible fruits (such as an apple turnover) credit based on the cups of fruit per serving (refer to "Requirement for visible components" in section 1). Commercial products must have a PFS that documents the cups of fruits per serving (refer to "Documentation for commercial products" in section 1).

# **Crediting Fruits in Desserts**

Some desserts contain added fruit, such as fruited gelatin, fruit pies, fruit cobblers, and fruit crisps. The visible fruit portion of desserts credits toward the fruits component based on the cups of fruit per serving (refer to "Requirement for visible components" in section 1).

• Example: A fruit turnover that contains ½ cup of apples credits as ½ cup of the fruits component.

The minimum creditable amount is \( \frac{1}{2} \) cup. SFAs must document the cups of fruit per serving with a PFS for commercial products and a standardized recipe for desserts made from scratch (refer to "Required Crediting Documentation" in section 1).

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 oz eq per serving. The grain portion counts toward the weekly 2 oz eq limit for grainbased desserts at lunch (refer to "Limit for Grain-based Desserts" in section 6).

Menu planners should limit sweetened fruit desserts or grain-based fruit desserts to help school menus meet the weekly limits for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1).

## **Crediting Fruits in Yogurt**

Fruits in commercially prepared yogurt (either blended or on the bottom or top) do not credit toward the fruits component. Menu planners may credit fruits offered as a separate meal component, such as yogurt topped with fresh blueberries a yogurt-fruit parfait made with sliced strawberries.

## **Crediting Fruits with Added Ingredients**

When fruits contain added ingredients (such as yogurt, mayonnaise, sugar, butter, sauce, or toppings), only the fruit portion credits toward the meal patterns. Some examples of fruits with added ingredients include yogurt-fruit parfaits, carrot-raisin salad, Waldorf salad, cottage cheese mixed with crushed pineapple, and baked apples.

 Example: To credit Waldorf salad as ½ cup of the fruits component, the serving must contain ½ cup of fruit (e.g., diced apples, sliced grapes, and raisins), before added ingredients such as mayonnaise, sugar, and spices.

SFAs must document the cups of fruit per serving with a PFS for commercial products and a standardized recipe for foods made from scratch (refer to "Required Crediting Documentation" in section 1).

SFAs are not required to maintain standardized recipes and PFS forms 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**

Any type of pasteurized full-strength (100 percent) fruit juice credits in the school meal patterns. Fruit juice may be fresh, frozen, or made from concentrate. The name of the full-strength fruit juice on the label must include one of the terms below.

- Full-strength juice
- Single-strength juice
- 100 percent juice
- Reconstituted juice
- 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, such as full-strength frozen juice pops. For more information, refer to the CSDE's resource, Crediting Juice in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 and Crediting Smoothies in the Meal Patterns for Grades K-12 in the School Nutrition Programs.



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 that serve juice frequently might exceed the weekly calorie limits (refer to "Dietary Specifications" in section 1).

#### Juice concentrates

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 as the fruit component when the SFA follows the manufacturer's specific instructions for reconstituting.

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 blends

Juice blends must be a combination of full-strength (100 percent) fruit juices, vegetable juices, or fruit and vegetable juices. The crediting of vegetable juice blends depends on the information provided in the manufacturer's PFS. If the PFS indicates the amount of each type of juice in the blend, SFAs may credit each type accordingly.

For example, a PFS indicates that a commercial juice blend contains 1/8 cup of apple juice and 1/8 cup of sweet potato juice. This product credits as 1/8 cup of the fruits component and 1/8 cup of the red/orange vegetable subgroup.

If a commercial product does not have a PFS (or the PFS does not provide the specific crediting information for each type of juice), 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 additional vegetables requirement and cannot contribute to the vegetable subgroups (refer to "Additional Vegetables" in section 4).

### • Example:

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 vegetables subgroup or the additional vegetable requirement because the first ingredient is a reconstituted vegetable juice blend (refer to "Vegetable Subgroups at Lunch" and "Additional Vegetables" in section 4).

#### Frozen 100 percent juice products

Frozen 100 percent fruit juice products like full-strength frozen juice pops credit based on the fluid volume prior to freezing. SFAs must obtain a PFS from the manufacturer to document this information (refer to "Documentation for commercial products" section 1). Frozen fruit juice must meet the same requirements as juice and counts toward the weekly juice limit (refer to "Weekly limit for fruit juice" in this section).

### Apple cider

Apple cider credits toward the fruits component if it is pasteurized 100 percent full-strength juice. Pasteurized juice has been heat-treated to kill harmful bacteria. Menu planners must check labels, as some brands of apple cider are not pasteurized. SFAs cannot serve unpasteurized apple cider or any other type of unpasteurized juices. Apple cider must meet the same requirements as juice and counts toward the weekly juice limit (refer to "Weekly limit for fruit juice" in this section).

#### Coconut water

Coconut water labeled as 100 percent juice credits 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 (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 juices without these added ingredients.

#### Weekly limit for fruit juice

Lunch and breakfast menus must meet the weekly fruit juice limit. Fruit juices cannot exceed half of the weekly offered fruits.

- Lunch: The total cups of fruit juices offered during the week cannot exceed half of the total cups of fruits offered during the week. For example, if a five-day lunch menu for grades K-5 offers 2½ cups of fruits over the week, fruit juices cannot exceed 1¼ cups over the week
- **Breakfast:** The total cups of vegetable juice together with fruit juice (including fruit/vegetable juice blends) cannot exceed half of the total cups of fruits and vegetable substitutions offered during the week. For example, if the breakfast menu offers 5 cups of fruits and vegetables over the week, fruit and vegetable juices cannot exceed 2½ cups over the week.

If SFAs serve larger amounts of fruits and vegetables, the weekly juice limit also increases. For more information on the weekly juice limits, refer to sections 4 and 6 of the CSDE's "Guide to the Meal Patterns for Grades K-12 in the National School Lunch Program and School Breakfast Program.

### What counts as juice toward the weekly limits

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

- juices that are 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); and
- pureed fruits and vegetables in fruit/vegetable smoothies (refer to "Crediting Smoothies" in this section).

Menu planners must check the breakfast and lunch menus to ensure that the total cups of offered juices do not exceed the weekly limits for the fruits component and the vegetables component.

# **Crediting Pureed Fruits in Smoothies**

Fruit juices and pureed fruits in smoothies credit only as juice toward the fruits component. Crediting is based on the volume (cups) of juice and pureed fruits per serving. For example, a smoothie that contains ½ cup of pureed strawberries credits as ½ cup of fruit juice.

#### Juice limit for smoothies

Juices and pureed fruits in smoothies count with all other fruit juices toward the weekly juice limit for the fruits component (refer to "Weekly limit for fruit juice" in this section).

#### **Crediting fruits in commercial smoothies**

Commercial smoothies made with pureed fruits credit based on the volume of fruits after pureeing and before freezing. The minimum creditable amount is \% cup.



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.

The product label must include a statement regarding the "percent juice content," which is required by the FDA for beverages made with fruit/vegetable juices or purees. 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 fruits in the product (refer to "Documentation for commercial products" in section 1).

### Combined fruits and vegetables in smoothies

Smoothies that contain any combination of pureed fruits, pureed vegetables, and 100 percent fruit and vegetable juice blends credit based on the greatest fruit or vegetable ingredient.

- Commercial smoothies credit as the fruits component if the first juice ingredient is fruit juice or fruit puree. Commercial smoothies credit as the vegetables component if the first juice ingredient is vegetable juice or vegetable puree.
- Smoothies made from scratch credit as the fruits component if fruit juice or fruit puree is
  the greatest juice ingredient in the SFA's standardized recipe. Smoothies made from
  scratch credit as the vegetables component if vegetable juice or vegetable puree is the
  greatest juice ingredient in the SFA's standardized recipe.

For information on crediting smoothies as the vegetables component, refer to "Crediting Vegetables in Smoothies" in section 4.

#### Crediting other components in smoothies

Other creditable ingredients in smoothies include vegetable juices and pureed vegetables (refer to "Crediting Vegetables in Smoothies" in section 4), milk (refer to "Crediting Milk in Smoothies" in section 2), and yogurt (refer to "Crediting yogurt in smoothies" in section 3).

#### Required documentation for smoothies

SFAs must have documentation on file that indicates the quantity of all creditable ingredients in the smoothie serving, such as pureed fruits and vegetables, juice, yogurt, and milk. The total creditable amount in a smoothie cannot exceed the volume served. For example, ½ cup of a commercial smoothie cannot credit as 1 cup of juice.

Commercial smoothie products that contain at least ½ oz eq of yogurt might have a CN label. Products that are not CN labeled require a PFS. Foods made from scratch require a standardized recipe that documents the cups of fruits per serving based on the yields in the FBG. For more information, refer to "Required Crediting Documentation" in section 1.

#### Noncreditable commercial smoothies

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 school menus. Noncreditable commercial smoothies also include probiotic dairy drinks, drinkable yogurt, and yogurt drinks.

### Required signage for smoothies

The USDA requires school nutrition programs to identify the meal components offered to students. SFAs must inform students about the meal components in a smoothie by listing the type of smoothie on the menu and serving line signage. For example, the menu could indicate "peach and milk smoothie" or "strawberry smoothie (made with fresh strawberries, low-fat milk, and yogurt)."

For more information, refer to the CSDE's Signage Requirements for the National School Lunch Program and School Breakfast Program and section 4 of the CSDE's Guide to Meal Service Requirements for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12. For sample signage templates, visit New England Dairy's Smoothies webpage.

### Resources for crediting smoothies

The resources below assist menu planners with crediting smoothies in school meals.

- Crediting Smoothies in the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit smoothies snp grades k-12.pdf
- Offering Smoothies as Part of Reimbursable School Meals Grades K-12 (USDA): https://www.fns.usda.gov/tn/offering-smoothies-part-reimbursable-school-meals

### 5 Fruits Component

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

For detailed guidance on the crediting requirements for smoothies, refer to the CSDE's resource, *Crediting Smoothies in the Meal Patterns for Grades K-12 in the School Nutrition Programs*.

#### **Pureed Fruits in Other Foods**

Except for smoothies, foods made with pureed fruits cannot credit as the fruits component (refer to "Requirement for visible components" in section 1). Some examples include pureed prunes or applesauce in muffins and pureed bananas in banana bread.

#### **Noncreditable Fruits**

Some examples of foods that do not credit as the fruits component include:

- banana chips;
- 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;
- juice drinks that are not 100 percent juice such as grape juice drink, orange juice drink, pineapple-grapefruit drink, cranberry juice cocktail, and lemonade; and
- commercial fruit smoothies that contain dietary or herbal supplements.

This list is not all-inclusive. For more information, refer to "Noncreditable Foods" in section 1 and the CSDE's resource, *Noncreditable Foods in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

Menu planners should use the FBG to identify foods that credit as the fruits component (refer to "Food Buying Guide for Child Nutrition Programs" in section 1).

# **Avoiding Common Compliance Issues for the Fruits Component**

The common compliance issues indicated below are based on findings from the CSDE's Administrative Review of the school nutrition programs.

- Insufficient serving: The daily menu must provide the minimum serving of fruit required for each grade group (refer to "Required Servings for Fruits" in this section). For each lunch choice, SFAs must offer at least ½ cup of fruit for grades K-5 and 6-8, and at least 1 cup for grades 9-12. For each breakfast choice, SFAs must offer at least 1 cup of fruit for all grades.
- 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. SFAs must credit fresh fruits based on the yields indicated in the FBG (refer to "Crediting Fresh Fruit" in this section).
- Missing or inadequate serving line signage for fruit choices: SFAs must provide information on the menu and 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 the CSDE's Signage Requirements for the National School Lunch Program and School Breakfast Program.

SFAs must plan the fruits component of school menus to avoid these compliance issues. For more information, refer to 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.



# **Resources for Crediting Fruits**

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

- Accepting Processed Product Documentation in the School Nutrition Programs (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/accepting\_processed product documentation snp.pdf
- Crediting Juice in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_juice\_snp grades k-12.pdf
- Crediting Smoothies in the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit smoothies snp grades k-12.pdf
- Crediting Summary Charts for the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/crediting summary charts snp grades k-12.pdf
- Crediting Vegetable Noodles and Coconut in the Child Nutrition Programs (USDA webinar): https://www.fns.usda.gov/tn/crediting-vegetable-noodles-and-coconut-child-nutritionprograms
- 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): https://portal.ct.gov/-/media/sde/nutrition/nslp/memos/om2019/om07-19.pdf
- 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 ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage): https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents #Fruits
- Start with Half a Cup: Fresh Fruit Portioning Guide for Schools: https://portal.ct.gov/-/media/sde/nutrition/swhac/portionguidefruit85x14.pdf
- Start with Half a Cup: Fresh Fruit Portioning Guide for Schools: https://portal.ct.gov/-/media/sde/nutrition/swhac/portionguidefruit85x14.pdf
- USDA Memo SP 10-2014, CACFP 05-2014, and SFSP 10-2014 (v3): Smoothies Offered in Child Nutrition Programs: https://www.fns.usda.gov/smoothies-offered-child-nutrition-programs
- 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: https://www.fns.usda.gov/cn/crediting-coconut-hominy-corn-masa-and-masa-harinachild-nutrition-programs
- 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
- What's in a Meal Module 9: Fruits Component (CSDE's Training Program, What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12): https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials

For additional crediting resources, visit the "Fruits Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage. Training on the fruits component is available in "Module 9: Fruits Component" of the CSDE's training program, What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.



# 6 — Grains Component

The grains component includes a variety of foods, such as:

- breads, biscuits, bagels, rolls, tortillas, and muffins;
- snack products like crackers (including animal crackers and graham crackers), hard pretzels, hard bread sticks, tortilla chips, and popcorn;
- certain grain-based desserts like cookies, granola bars, cereal bars, cake, and pastries (subject to crediting restrictions);
- cereal grains like buckwheat, brown rice, bulgur, and quinoa;
- ready-to-eat (RTE) breakfast cereals like puffed cereals, whole-grain round or flaked cereal, and granola;
- cooked breakfast cereals (instant and regular) like oatmeal, farina, and cream of wheat;
- 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 like macaroni, spaghetti, noodles, orzo, and couscous.

To credit as the grains component in the NSLP and SBP meal patterns, grain menu items must be whole grain-rich (WGR) or enriched and cannot exceed the limit for noncreditable grains. Breakfast cereals must be WGR, enriched, or fortified. Bran and germ credit the same as enriched grains.



SFAs must complete two steps to determine if grain menu items credit in school meals.

- Crediting criteria: Determine if the grain menu item meets the crediting criteria. To
  credit as the grains component, the grain menu item must be WGR or enriched and
  cannot exceed the limit for noncreditable grains. These crediting criteria are addressed
  in Part A: Crediting Requirements and Part B: WGR Criteria.
- Oz eq contribution: Determine the oz eq contribution of the planned serving. Guidance on how to determine a grain menu item's oz eq contribution is provided in Part C: Serving Size.

These steps apply to all grain menu items, including commercial grain products and foods prepared from scratch.

# Weekly WGR Requirement

The NSLP and SBP meal patterns require that at least 80 percent of all offered grains must be WGR, separately for lunch and breakfast. All foods that are 100 percent whole grain are WGR, but not all WGR foods are 100 percent whole grain. A food is 100 percent whole grain if all grain ingredients are whole grains. A food is WGR if it contains at least 50 percent whole grains and does not exceed the limit for noncreditable grains. For information on the WG criteria, refer to Part B: WGR Criteria.

The determination of whether the weekly lunch menu offers at least 80 percent WGR grains is based on the total oz eq of all grain items offered with all menu choices during the week. SFAs may calculate the weekly menu's percentage of WGR grains using the CSDE's Excel worksheet, Worksheet to Calculate the Weekly Percentage of Whole Grain-rich Menu Items in School Lunch and Breakfast Menus for Grades K-12. For additional guidance, refer to the CSDE's resource, Calculating the Weekly Percentage of Whole Grain-rich Menu Items in the National School Lunch Program and School Breakfast Program.

# **Weekly Limit for Enriched Grains**

Foods that are not WGR must be enriched. Enriched grains cannot exceed 20 percent of the weekly offered grain menu items, separately for lunch and breakfast. Menu planners must count all enriched grains offered in school menus toward this limit.

# **Avoiding Common Compliance Issues for the Grains Component**

The common compliance issues indicated below are based on findings from the CSDE's Administrative Review of the school nutrition programs.

- Insufficient serving: The daily lunch menu cannot provide less than the minimum serving of the grains component for each grade group (refer to "Required Daily and Weekly Servings of Grains" in part A of this section). For each lunch choice, SFAs must offer at least 1 oz eq of grains for grades K-5 and 6-8, and at least 2 oz eq of grains for grades 9-12. For each breakfast choice, SFAs must offer at least 1 oz eq of the grains/MMA component for all grades.
- Not offering the minimum weekly grains for grades K-5 and 6-8 at lunch: For grades K-5 and 6-8 at lunch, SFAs must offer more than the minimum daily oz eq of grains on some days of the week to meet the minimum weekly requirement. If the menu offers a choice of more than one grain item on an individual day, SFAs must count the smallest oz eq choice toward the weekly grains requirement. For more information, refer to "Required Daily and Weekly Servings of Grains" in Part C: Serving Size.
- Not offering the minimum weekly grains/MMA for all grades at breakfast: For all grades at breakfast, SFAs must offer more than the minimum daily oz eq of the grains/MMA conponent on some days of the week to meet the minimum weekly requirement. If the menu offers multiple grains/MMA choices on an individual day, SFAs must count the smallest oz eq choice toward the weekly grains/MMA requirement. For more information, refer to "Required Daily and Weekly Servings of Grains" in Part C: Serving Size.
- Incorrect crediting of commercial grain products: SFAs must determine the grain oz
  eq of all menu items using either the USDA's Exhibit A chart or the grams of creditable
  grains per serving listed in the product's PFS. Except for bread products in group B,
  1 ounce of a commercial grain product does not credit as 1 oz eq. For example,
  blueberry muffins (group D of the USDA's Exhibit A chart) require 2 ounces to credit as
  1 oz eq. For more information, refer to "Determining Oz eq per Serving" in Part C:
  Serving Size.
- Not verifying crediting compliance of grain products: SFAs must verify that all grain
  products and standardized recipes meet the criteria for WGR or enriched grains. For
  more information, refer to Part A: Crediting Requirements and Part B: WGR Criteria in
  this section.

### 6 Grains Component

- Not meeting the minimum weekly WGR requirement: SFAs must verify that at least 80 percent of all grains offered in weekly lunch and breakfast menus are WGR. For more information, refer to Part B: WGR Requirement in this section.
- Not obtaining a PFS to credit certain commercial products: A PFS is required in some situations when SFAs cannot use the USDA's Exhibit A chart to determine the oz eq contribution of commercial grain products (refer to "When method 2 is required for commercial products" in Part C: Serving Size.

SFAs must plan the grains component of school menus to avoid these compliance issues.



# **Part A: Crediting Requirements**

This section addresses the crediting requirements for the grains component. 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.

## **Crediting Grain Foods**

To credit as the grains component, grain menu items must be WGR or enriched and cannot exceed the limit for noncreditable grains. Breakfast cereals must be WGR, enriched, or fortified and cannot exceed the limit for noncreditable grains. Bran and germ credit the same as enriched grains. For information on identifying whole and enriched grains, refer to the CSDE's resources, *Crediting Whole Grains in the School Nutrition Programs* and *Crediting Enriched Grains in the School Nutrition Programs*. For guidance on the WGR criteria, refer to Part B: WGR Criteria in this section.

### Limit for noncreditable grains

To credit in reimbursable meals, all grain menu items (WGR and enriched) must meet the limit for applicable limit for noncreditable grains. Noncreditable grains in commercial grain products and standardized recipes must be less than 2 percent of the product formula (¼ oz eq). To meet this limit, noncreditable grains cannot exceed 3.99 grams per portion for foods in groups A-G or 6.99 grams per portion for foods in groups H-I. For information on groups A-I, refer to Part C: Serving Size in this section.

Some examples of noncreditable grains include oat fiber, corn fiber, wheat starch, corn starch, and modified food starch (including potato, legume, and other vegetable flours). For detailed guidance on noncreditable grains, refer to the CSDE's *Guide to Meeting the Whole Grain-rich Requirement for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

# **Crediting Commercial Grain Products**

Commercial grain products (including the grain portion of combination foods) must be WGR or enriched and cannot exceed the limit for noncreditable grains. Examples of commercial grain products include breads, muffins, pancakes, and crackers (groups A-G) and cereal grains like rice, pasta, quinoa, and cooked breakfast cereals (group H). Examples of the grain portion in commercial combination foods include pizza crust in pizza, noodles in lasagna, and breading on

chicken nuggets. For information on the WGR criteria for commercial grain products, refer to "WGR Criteria for Commercial Grain Products" in Part B: WGR Criteria.

## **Crediting Breakfast Cereals**

The FDA regulations (21 CFR 170.3(n)(4)) define breakfast cereals as RTE cereals (such as puffed cereals, round or flaked cereals, and granola) and instant and regular hot cereals (such as oatmeal, cream of wheat, and farina). RTE breakfast cereals can be eaten as sold and are typically fortified with vitamins and minerals. Breakfast cereals must be WGR, enriched, or fortified. For more information, refer to the CSDE's resource, *Crediting Breakfast Cereals in the Meal Patterns for Grades K-12 in the School Nutrition Programs*.

Effective with school year 2024-25 (July 1, 2025), the USDA final rule, *Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans*, establishes a sugar limit for breakfast cereals. Breakfast cereals cannot exceed 6 grams of added sugars per dry ounce.

#### WGR cereals

WGR breakfast cereals credit as the grains component and count toward the weekly WGR requirement (at least 80 percent of the weekly offered grain menu items must be WGR).

- Cooked breakfast cereals such as oatmeal (including regular and instant) meet the WGR criteria if: 1) the cereal is 100 percent whole grain or contains a blend of whole and enriched grains that is at least 50 percent whole grain; and 2) noncreditable grains do not exceed 6.99 grams per portion (½ cup cooked or 28 grams dry).
- RTE breakfast cereals meet the WGR criteria if: 1) the first ingredient is a whole grain and the cereal is fortified, or the cereal is 100 percent whole grain; and 2) noncreditable grains do not exceed 6.99 grams per portion. Fortification is not required for RTE breakfast cereals that are 100 percent whole grain.

There are different WGR criteria for RTE and cooked breakfast cereals. These criteria are described in more detail in Part B: WGR Criteria.

#### **Enriched breakfast cereals**

Enriched breakfast cereals credit as the grains component if they meet the limit for noncreditable grains (refer to "Limit for noncreditable grains" in this section). Menu planners must count enriched breakfast cereals toward the weekly limit for enriched grains (refer to "Weekly Limit for Enriched Grains" in this section).

Enriched breakfast cereals contain five vitamins and minerals added in amounts required by the FDA to replace some of the nutrients lost during processing. The enrichment nutrients include thiamin (vitamin B<sub>1</sub>, thiamin mononitrate, or thiamin hydrochloride); riboflavin (vitamin B<sub>2</sub>); niacin (vitamin B<sub>3</sub> or niacinamide); folic acid (folate); and iron (reduced iron, ferrous sulfate, or ferric orthophosphate). A breakfast cereal is enriched if the food is labeled as "enriched" or an enriched grain is the first ingredient.

#### • Example:

Ingredients: Puffed rice, ferrous sulfate (a source of iron), niacinamide, citric acid, thiamin mononitrate, riboflavin, folic acid.

This puffed rice breakfast cereal is enriched because the ingredients statement lists the five enrichment nutrients (iron, thiamin, niacin, riboflavin, and folic acid. This cereal credits as an enriched grain and counts toward the weekly limit for enriched grains.

#### Fortified breakfast cereals

Fortified breakfast cereals credit as the grains component if they meet the limit for noncreditable grains (refer to "Limit for noncreditable grains" in this section). Fortified breakfast cereals that are not WGR count toward the weekly limit for enriched grains (refer to "Weekly Limit for Enriched Grains" in this section).

Fortified breakfast cereals contain nutrients added by the manufacturer that were not originally present, or that are at higher levels than originally present. Manufacturers may choose which additional nutrients to use for fortification. Fortified breakfast cereals typically contain the five enrichment nutrients plus other vitamins and minerals that do not exist naturally in grains.

Different cereal brands may list different fortification nutrients. The USDA does not specify a minimum number of nutrients or a minimum percentage for the level of fortification for breakfast cereals in the Child Nutrition Programs. Fortified breakfast cereals are not required to be enriched.

A breakfast cereal is fortified if the food is labeled as "fortified" or the ingredients statement lists the vitamins and minerals added to the product. These nutrients are typically listed after "Vitamins and Minerals."

#### • Example:

Ingredients: Milled corn, sugar, malt flavor, contains 2% or less of salt. Vitamins and Minerals: Iron, vitamin C (sodium ascorbate, ascorbic acid), niacinamide, vitamin B6 (pyridoxine hydrochloride), vitamin B2 (riboflavin), vitamin B1 (thiamin hydrochloride), vitamin A palmitate, folic acid, vitamin D, vitamin B12.

This breakfast cereal is fortified because it contains added nutrients listed after the statement, "Vitamins and Minerals." This breakfast cereal is creditable because it is fortified and does not contain any noncreditable grains. However, it is not WGR because milled corn is not a whole grain. This breakfast cereal credits as an enriched grain and counts toward the weekly limit for enriched grains.

## **Crediting Foods Made from Scratch**

Grain foods made from scratch must be WGR or enriched and cannot exceed the limit for noncreditable grains. SFAs must maintain standardized recipes that document the oz eq per serving (refer to "Documentation for foods made from scratch" in section 1). For information on the WGR criteria for school recipes, refer to "WGR Criteria for Foods Made from Scratch" in Part B: WGR Criteria.

# **Crediting Grain-based Desserts**

The lunch and breakfast meal patterns allow certain grain-based desserts to credit as the grains component. Grain-based desserts must be WGR or enriched and cannot exceed the limit for noncreditable grains (refer to "Limit for noncreditable grains" in this section).

Some examples of grain-based desserts include brownies (unfrosted), 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, orange cranberry, and chocolate chip), sweet croissants (e.g., chocolate or almond filled), sweet rice puddings (e.g., cinnamon and vanilla), sweet bread puddings (e.g., made with cinnamon, fruits, chocolate, or icing), and sweet pita chips (e.g., cinnamon sugar).

Grain-based desserts do not include quick breads like banana bread and zucchini bread (except for cinnamon streusel), cornbread, pancakes, waffles, French toast, savory scones like cheese and herb, and piecrusts in entrees like quiche, meat pies, and chicken potpie.

Grain-based desserts often contain more fat and added sugars than traditional grains. Menu planners should limit grain-based desserts to help school menus meet the weekly limits for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1). The CSDE recommends offering nutrient-dense whole grains instead of grain-based desserts.

Not all grain-based desserts credit at lunch and breakfast. The NSLP and SBP meal patterns allow different types of grain-based desserts and have different crediting restrictions. Grain-based desserts at lunch cannot exceed 2 oz eq per week.

Table 6-1 summarizes which types of grain-based desserts credit at each meal.



Table 6-1. Allowable grain-based desserts for grades K-12

Food item  Must be WGR or enriched	Credits at lunch (≤ 2 oz eq per week)	Credits at breakfast
Animal crackers	Yes	Yes
Breakfast bars, plain or with nuts, dried fruit, chocolate pieces, fruit purees, filling, and frosting	Yes	Yes
Brownies, frosted	No	No
Brownies, plain	Yes	No
Cakes and cupcakes, plain or frosted	Yes	No
Cereal bars, plain or with nuts, dried fruit, chocolate pieces, fruit purees, filling, and frosting	Yes	Yes
Coffee cakes, cinnamon streusel quick breads	Yes	Yes
Cookies, plain or with nuts, dried fruit, chocolate pieces, fruit purees, filling, and frosting	Yes	No
Doughnuts, cake and yeast raised, frosted or unfrosted, glazed or unglazed	Yes	Yes
Fruit cobblers (cobbler topping)	Yes	No
Fruit crisps (crisp topping)	Yes	No
Fruit dessert pies (piecrust)	Yes	No
Fruit turnovers	Yes	Yes
Graham crackers	Yes	Yes
Grain-fruit bars, e.g., cereal bars	Yes	Yes
Granola bars, plain or with nuts, dried fruit, chocolate pieces, fruit purees, filling, and frosting	Yes	Yes
Pastries, plain or frosted	Yes	Yes
Sweet rolls, plain or frosted	Yes	Yes
Toaster pastries, plain or frosted	Yes	Yes

### Limit for grain-based desserts at lunch

The lunch meal pattern requires a weekly limit for grain-based desserts. The total amount of grain-based desserts offered at lunch cannot exceed 2 oz eq per week. For example, the lunch menu may include a 2-oz eq grain-based dessert once per week or a 1-oz eq grain-based dessert twice per week. This limit applies to all WGR and enriched grain-based desserts.

#### Grain-based desserts at breakfast

The breakfast meal pattern does not require a weekly limit for grain-based desserts but restricts the types that are allowed. For example, cookies, brownies, cupcakes, and fruit cobblers do not credit at breakfast.

Some 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 6-22). The CSDE recommends limiting grain-based desserts at breakfast. Menus that frequently include grain-based desserts might not meet the weekly dietary specifications for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1).

### Identifying grain-based desserts

SFAs should not rely on product names to identify grain-based desserts because cookies and similar grain-based desserts do not have an FDA standard of identity. This means that manufacturers may use terms in their product names or labels that might be misleading. For example, oatmeal raisin cookies might be called "breakfast rounds" and cereal bars might be called "breakfast bars."

Regardless of the name on the label, these types of foods are still grain-based desserts. They must comply with the weekly limit for grain-based desserts at lunch (no more than 2 oz eq) and the crediting restrictions for grain-based desserts at breakfast (only certain types are allowed).

The CSDE's resource, *Grain Ounce Equivalents for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*, identifies creditable grain-based desserts in red with the footnote 1 or 2. A grain-based dessert with footnote 1 credits only at lunch and counts toward the weekly limit for grain-based desserts. A grain-based dessert with footnote 2 credits at either lunch or breakfast.

### Crediting graham crackers as a WGR food

Graham flour must be the first ingredient for graham crackers to credit as a WGR food in school meals. Graham flour is a whole grain. Some brands of graham crackers do not meet the WGR criteria because they contain enriched flour as the first ingredient.

### Example 1: WGR graham crackers

Ingredients: Graham flour (whole-grain wheat flour), unbleached enriched flour [wheat flour, niacin, reduced iron, thiamine mononitrate (vitamin B1), riboflavin (vitamin B2), folic acid)], sugar, canola oil, honey, baking soda, salt, artificial flavor.

This brand of graham crackers is WGR because graham flour is the first ingredient and it does not contain any noncreditable grains.

### Example 2: Enriched graham crackers

Ingredients: Unbleached enriched flour (wheat flour, niacin, reduced iron, thiamine mononitrate vitamin B1, riboflavin vitamin B2, folic acid), graham flour (whole grain wheat flour), sugar, soybean and/or canola oil, honey, baking soda, salt, soy lecithin, artificial flavor.

This brand of graham crackers is a creditable enriched product because unbleached enriched flour is the first ingredient and it does not contain any noncreditable grains.

In addition to determining if graham crackers are WGR or enriched, menu planners must review the product's package weight and PFS to determine the serving's oz eq contribution (refer to "Crediting graham cracker packages" in Part C: Serving Size).



### Daily alternate lunch choices

SFAs cannot offer grain-based desserts (like graham crackers or animal crackers) as the grains component of a daily alternate lunch choice. Offering grain-based desserts daily will exceed the weekly 2-oz eg limit for lunch.

**Example:** A high school offers an alternate lunch choice for grades 9-12 that includes 1 cup of yogurt, 1 cup of fresh fruit, 1 cup of fresh vegetables, 2 oz eq of graham crackers, and a choice of 1 cup of low-fat or fat-free milk. This menu meets the lunch meal pattern but cannot be offered as a daily lunch choice because this exceeds the weekly 2-oz eq limit. Offering 2 oz eq of graham crackers each day provides 10 oz eq of grain-based desserts per week.

#### Grain-based desserts served as extra foods

Grain-based desserts served as extra menu items at lunch and breakfast count toward the minimum daily and weekly oz eq of the grains component and the weekly dietary specifications for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1). At lunch, grain-based desserts also count toward the weekly limit of no more than 2 oz eq. For additional guidance on grain-based desserts, refer to the CSDE's resource, Crediting Grain-based Desserts for Grades K-12 in the School Nutrition Programs.



# 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 cooking dried corn in an alkaline (slaked lime) solution. This process results in a product with a similar nutrition content to wholegrain 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 either of the two methods below to identify commercial products made with nixtamalized corn.

- 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 examples below show some commercial corn products that are nixtamalized and therefore 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 (refer to "Documentation for commercial products" in section1).

- 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 information for corn masa, masa harina, corn flour, and cornmeal is 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 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 credits as a whole grain.

Hominy is available dried and in a fully cooked canned form. Dried hominy (such as grits) credits as a whole grain. A  $\frac{1}{2}$ -cup serving of cooked hominy grits or 1 ounce (28 grams) of dry hominy grits credits as 1 oz eq of the grains component.

For information on crediting hominy as the vegetables component, refer to "Crediting Hominy as Vegetables" in section 4.

# **Crediting Popcorn**

Popcorn is a whole-grain food. Three cups (a 1-ounce serving) of plain popped popcorn credit as 1 oz eq of the grains component. The minimum creditable amount is  $\frac{3}{4}$  cup ( $\frac{1}{4}$  ounce), which equals  $\frac{1}{4}$  oz eq. The table below summarizes the grains contribution of popped popcorn.

Cups (popped)Weight (popped)Grains contribution¾ cup0.25 ounces or 7 grams¼ oz eq (minimum creditable amount)1½ cups0.5 ounces or 14 grams½ oz eq2¼ cups0.75 ounces or 21 grams¾ oz eq3 cups1 ounce or 28 grams1 oz eq

Table 6-3. Grains contribution of popped popcorn

### **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 it with another food from the grains component. For example, a snack mix that contains ¾ cup of popcorn (¼ oz eq) mixed with ¼ oz eq of WGR pretzels and ½ oz eq of WGR RTE breakfast cereal credits as 1 oz eq 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 have a PFS for commercial foods and a standardized recipe for foods prepared from scratch (refer to "Required Crediting Documentation" in section 1).
- Popcorn sometimes includes ingredients and toppings like salt, caramel, cheese, and butter. SFAs must ensure that these ingredients (and any oil or fat used to pop the popcorn) are included in the recipe's nutrient profile. Menu planners should limit these foods to help school menus meet the weekly limits for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1). The USDA strongly encourages healthier

alternatives, such as seasoning 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 oz eq at lunch (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 Program*.

# **Noncreditable Foods in the Grains Component**

Some examples of foods that do not credit as the grains component include:

- commercial grain products that are not WGR or enriched;
- breakfast cereals that are not WGR, enriched, or fortified;
- enriched grain foods that exceed the limit for noncreditable grains;
- foods made from scratch that are not WGR or enriched; and
- certain grain-based desserts at breakfast, such as cookies, brownies, cupcakes, and fruit cobblers (refer to "Grain-based Desserts" in this section).

This list is not all-inclusive. For more information, refer to "Noncreditable Foods" in section 1 and the CSDE's resource, *Noncreditable Foods in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

Menu planners should use the FBG to identify foods that credit as the grains component (refer to "Food Buying Guide for Child Nutrition Programs" in section 1).

# **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.

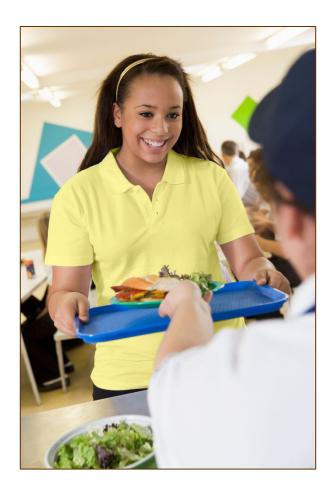
- Accepting Processed Product Documentation in the School Nutrition Programs (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/accepting\_processed\_product\_documentation\_snp.pdf
- Crediting Breakfast Cereals in the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_cereals\_snp\_grades\_k-12.pdf
- Crediting Enriched Grains in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_enriched\_grains\_snp.pdf
- Crediting Whole Grains in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/credit\_whole\_grains\_snp.pdf
- Crediting Summary Charts for the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting\_summary\_charts\_snp\_grades\_k-12.pdf
- 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
- Food Buying Guide Section 4: Yield Table for Grains (USDA): https://foodbuyingguide.fns.usda.gov/files/Reports/USDA\_FBG\_Section4\_ GrainsYieldTable.pdf
- Grains Component ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage):
  - https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents #Grains
- Product Formulation Statement for Documenting Grains in Child Nutrition Programs (USDA):
  - https://www.fns.usda.gov/sites/default/files/resource-files/PFS\_Grains\_ Oz Eg Fillable 508.pdf

- Product Formulation Statement for Documenting Grains in Child Nutrition Programs

   Completed Sample (USDA):
   https://www.fns.usda.gov/sites/default/files/resource-files/PFS\_Example\_Grains\_
   Oz Eg.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
- 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: https://www.fns.usda.gov/cn/crediting-coconut-hominy-corn-masa-and-masa-harina-child-nutrition-programs
- What's in a Meal Module 11: Grains Component (CSDE's Training Program, What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12): https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials

For additional crediting resources, visit the "Grains Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

Training on the grains component is available in "Module 11: Grains Component" of the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.



# Part B: WGR Criteria

At least 80 percent of the grains offered at lunch, and separately for 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 on the WGR criteria for school meals, refer to the CSDE's *Guide* to Meeting the Whole Grain-rich Requirement for the National School Lunch Program and School Breakfast Program 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 Grain Products**

The WGR criteria depend on where grain foods are located (groups A-I) in the USDA's chart, *Exhibit A: Grain Requirements for Child Nutrition Programs*. For more information, refer to "Determining Ounce Equivalents per Serving" in Part C: Serving Size.

- Commercial grain products (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, e.g., oatmeal) are WGR if they meet two criteria: 1) the product is 100 percent whole grain or contains a blend of whole and enriched grains that is at least 50 percent whole grain; and 2) noncreditable grains cannot exceed 3.99 grams per portion for groups A-G or 6.99 grams per portion for group H.
- RTE breakfast cereals (group I): RTE breakfast cereals (such as puffed cereals, round or flaked cereals, and granola) are WGR if they meet two criteria: 1) the first ingredient is a whole grain and the cereal is fortified or the cereal is 100 percent whole grain; and 2) noncreditable grains do not exceed 6.99 grams per portion. Fortification is not required for 100 whole grain cereals. For more information, refer to the CSDE's resource, Crediting Breakfast Cereals in the Meal Patterns for Grades K-12 in the School Nutrition Programs.
- Commercial combination foods containing a grain portion from groups A-I: The grain portion (such as pizza crust in pizza, noodles in lasagna, and breading on chicken nuggets) is WGR if it meets two criteria: 1) the grain portion is 100 percent whole grain or contains a blend of whole and enriched grains that is at least 50 percent whole grain;

and 2) noncreditable grains in the grain portion cannot exceed 3.99 grams per portion for groups A-G or 6.99 grams per portion for groups H-I.

Menu planners must determine if commercial grain products meet the applicable WGR criteria by reviewing the product's ingredients statement and packaging. Some commercial products require a PFS to determine WGR compliance (refer to the CSDE's resource, *When Commercial Grain Products Require a Product Formulation Statement to Credit in the School Nutrition Programs*).

If the product meets the WGR criteria, SFAs must determine the meal pattern contribution (oz eq) 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 portion is part of a CN-labeled MMA product (refer to "Documentation for commercial products" in section 1). CN-labeled products credit based on the stated crediting information for WGR oz eq The USDA's Authorized Labels and Manufacturers webpage lists approved CN-labeled products and manufacturers.



### **WGR Criteria for Foods Made from Scratch**

Grain foods prepared from scratch must have a standardized recipe that documents the grams of creditable grains in one serving. This includes foods made by the SFA and foods prepared by vendors for school meals.

A standardized recipe is WGR if it meets two criteria: 1) the combined amount of all whole grains is equal to or more than the combined amount of all other creditable grains (enriched grains, bran, and germ; and 2) noncreditable grains (such as bran, germ, and cornstarch) do not exceed 3.99 grams per oz eq for groups A-G or 6.99 grams per oz eq for groups H and I. For example, a pizza dough recipe that contains 6 pounds of whole-wheat flour, 5 pounds of enriched flour, and no noncreditable grains is WGR because the whole-wheat flour weighs more than the enriched flour.

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 standardized recipe.

### **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.

- Calculating the Weekly Percentage of Whole Grain-rich Menu Items in the NSLP and SBP (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/calculate\_wgr\_percentage\_ snp.pdf
- Guide to Meeting the Whole Grain-rich Requirement for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/wgr\_requirement\_snp\_ grades k-12.pdf
- Product Formulation Statement for Documenting Grains in Child Nutrition Programs (USDA):
   https://www.fns.usda.gov/sites/default/files/resource-files/PFS\_Grains\_Oz\_Eq\_ Fillable 508.pdf
- 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
- What's in a Meal Module 12: Whole Grain-rich Requirement (CSDE's Training Program, What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12): https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials
- When Commercial Grain Products Require a Product Formulation Statement to Credit in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/when\_commercial\_grain\_ products\_require\_pfs\_snp.pdf
- Whole Grain Resource for the National School Lunch and School Breakfast Programs (USDA): https://www.fns.usda.gov/tn/whole-grain-resource-national-school-lunch-and-school-breakfast-programs-0
- Whole Grain-rich Requirement ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage): https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents #WGR
- Worksheet to Calculate the Weekly Percentage of Whole Grain-rich Menu Items in School Lunch and Breakfast Menus for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/worksheet\_calculate\_wgr\_ percentage\_snp\_grades\_k-12.xlsx

For additional crediting resources, visit the "Grains Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage. Training on the WGR criteria is available in "Module 12: Whole Grain-rich Requirement" of the CSDE's training program, *What's in a Meal:* National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.

# Part C: Serving Size

The required meal pattern servings for the grains component are in oz eq. Oz eq are a weight-based unit of measure for the grains component that account for dry versus cooked grains. The amount of a creditable grain food that provides 1 oz eq varies because different types of foods contain different amounts of creditable grains.

# **Required Daily and Weekly Servings**

The lunch meal patterns for grades K-12 require daily and weekly oz eq of the grains component for each grade group.

Table 6-4. Required oz eq of the grains component at lunch

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	1	8-9	11-12½
6-8	1	8-10	11-14
9-12	2	10-12	14-17

The breakfast meal patterns for grades K-12 require daily and weekly oz eq of the grains/MMA component for each grade group.

Table 6-5. Required oz eq of the grains/MMA component at breakfast

Grades	Daily	Weekly: 5-day week	Weekly: 7-day week
K-5	1	7-10	10-14
6-8	1	8-10	11-14
9-12	1	9-10	12½-14

SFAs cannot offer less than the minimum weekly oz eq. The maximum weekly oz eq are not required but provide a guide for planning age-appropriate meals that meet the weekly limits for calories, saturated fat, and sodium (refer to "Dietary Specifications" in section 1).

### Daily servings of grains

SFAs may choose to serve one grain or a combination of several grains to meet the minimum daily oz eq, if each serving contains at least ¼ oz eq of grains (refer to "Minimum creditable amounts" in section 1). For example, a lunch menu for grades 9-12 could provide the required 2 oz eq of the grains component from 1 cup of brown rice (2 oz eq), or ½ cup of brown rice (1 oz eq) and a 1-ounce whole-grain roll (1 oz eq).

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 oz eq of grains on some days to meet the minimum weekly requirement. This applies to the grains component at lunch for grades K-5 and 6-8, and the grains/MMA component at breakfast for all grades. The examples below illustrate this requirement.

- Lunch for grades K-5 and 6-8: The minimum weekly grains requirement is 8 oz eq for five-day weeks and 11 oz eq for seven-day weeks. SFAs must offer more than 1 oz eq of grains on some days because the minimum serving provides only 5 oz eq for five-day weeks and 7 oz eq for seven-day weeks.
- Breakfast for grades 9-12: The minimum weekly grains/MMA requirement is 9 oz eq for five-day weeks and 12½ oz eq for seven-day weeks. SFAs must offer more than 1 oz eq of grains/MMA on some days because the minimum serving provides only 5 oz eq for five-day weeks and 7 oz eq for seven-day weeks.

Lunch menus for grades 9-12 that offer the minimum daily 2 oz eq meet the minimum weekly oz eq.

### Weekly oz eq of grains

Menu planners must determine the total weekly oz eq of the grains component at lunch and the total weekly oz eq of the grains/MMA component at breakfast. The weekly oz eq are the sum of the daily oz eq. For example, a five-day lunch menu that offers 1¾ oz eq of grains each day provides 8¾ oz eq per week. This meets the weekly requirement for grades K-5, but not grades 6-8 or 9-12.

When menus offer multiple menu choices on an individual day, the smallest oz eq menu item counts toward the weekly requirements. For example, if the daily lunch menu offers a 1½-oz eq grain item and a 2-oz eq grain item, the menu planner must count the 1½-oz eq grain item toward the weekly requirements.

When the lunch menu offers two or more daily choices with different oz eq, each choice must provide at least the minimum daily oz eq. The determination of whether the menu meets the minimum weekly requirement is based on the daily item with the smallest oz eq.

For more information on meeting the weekly servings for the grains component at lunch and the grains/MMA component at breakfast, refer to the CSDE's *Guide to the Meal Patterns for Grades K-12 in the National School Lunch Program and School Breakfast Program*.

#### Meeting the required grain oz eq

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 oz eq of the grains component. If a menu item contains 1 oz eq of grains, SFAs must offer another menu item with at least 1 oz eq 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 ¼ oz eq. For example, a standardized recipe or commercial product that contains 1.49 oz eq of grains per serving credits as 1.25 oz eq of the grains component.

Grains offered in amounts less than ½ oz eq are not included in the calculation of the daily and weekly grain servings, but count toward the weekly dietary specifications (refer to "Minimum creditable amounts" and "Dietary Specifications" in section 1).

### **USDA's Exhibit A Chart**

The USDA's *Exhibit A: Grain Requirements for Child Nutrition Programs* (known as the Exhibit A chart) summarizes the grain oz eq 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 oz eq varies because different types of foods contain different amounts of creditable grains. For example, to credit as 1 oz eq 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 required quantities for the grains component in Exhibit A are not the same for all Child Nutrition Programs because the meal patterns are different. The CSDE's resource, *Grain Ounce Equivalents for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*, lists the Exhibit A grain servings that apply to the lunch and breakfast meal patterns for grades K-12.



# **Methods to Determine Grain Oz Eq**

The USDA allows two methods for determining the oz eq of creditable grain products and standardized recipes. SFAs may use either method but must document how the crediting information was obtained. These methods are summarized below. For detailed guidance on both methods, refer to the CSDE's resource, *Calculation Methods for Grain Ounce Equivalents for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.* 

### Method 1: Weight or volume (USDA's Exhibit A chart)

Method 1 uses the USDA's Exhibit A chart to determine the required weight (groups A-G) or volume (groups H-I) for the grain group where the food belongs. This method is used for commercial grain products and may also be used for standardized recipes if the menu planner knows the weight (grams or ounces) of the prepared (cooked) serving.

- **Groups A-G (baked goods)** include foods like crackers, breads, rolls, taco shells, muffins, waffles, pancakes, and grain-based desserts, e.g., cookies, cake, granola bars, and pastries. The amount of a food that provides 1 oz eq varies from 22 grams or 0.8 ounces for foods in group A to 125 grams or 4.4 ounces for foods in group G.
- **Group H (cereal grains)** includes foods like pasta, cooked breakfast cereals (e.g., oatmeal), 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 oz eq of the grains component. Cereal grains typically credit based on the cooked serving, but menu planners may choose to credit cereal grains using the dry uncooked weight. Dry cereal grains used as an ingredient in a recipe (like rolled oats in bread) require 16 grams of creditable grains to credit as 1 oz eq of the grains component. For guidance on crediting cooked breakfast cereals, refer to the CSDE's resource, *Crediting Breakfast Cereals in the Meal Patterns for Grades K-12 in the School Nutrition Programs*.
- **Group I (RTE breakfast cereals)** includes cold breakfast cereals like puffed cereals, round or flaked cereals, and granola. These foods require 1 ounce (28 grams) to credit as 1 oz eq of the grains component. A 1-ounce serving equals 1 cup of flaked or round cereal, 1½ cups of puffed cereal, and ½ cup of granola. For guidance on crediting RTE breakfast cereals, refer to the CSDE's resource, *Crediting Breakfast Cereals in the Meal Patterns for Grades K-12 in the School Nutrition Programs*.

Menu planners can use the USDA's online Exhibit A Grains Tool to determine the oz eq of grains products and the required amount needed for 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.* 

The CSDE's resource, *How to Use the Grain Ounce Equivalents Chart for the National School Lunch Program and School Breakfast Program*, reviews the steps for using the Exhibit A quantities to determine the meal pattern contribution of commercial products and standardized recipes. Training on this information is provided in "Module 13: Grain Ounce Equivalents" of the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

### Method 2: Creditable grains

Method 2 determines the oz eq for creditable commercial grain products and standardized 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 standardized recipe. The required grams of creditable grains per oz eq are different for creditable foods and WGR foods.

- **Creditable foods:** To credit as 1 oz eq of the grains component, foods in groups A-G must contain 16 grams of creditable grains and foods in groups H-I must contain 28 grams of creditable grains.
- WGR foods: To credit as 1 oz eq of a WGR food, foods in groups A-G 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 guidance on evaluating a grain product's PFS, refer to the CSDE's resource, *When Commercial Grain Products Require a Product Formulation Statement to Credit in the School Nutrition Programs*. Training on the PFS requirements and how to evaluate a PFS is available in "Module 6: Meal Pattern Documentation" of the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12* 

### 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 situations below apply.

These commercial grain products cannot credit as the grains component in school meals if the manufacturer will not supply a PFS, or the PFS does not provide the appropriate documentation.

- The first ingredient is not a creditable grain, but the product contains more than one creditable grain. The PFS must indicate that the combined weight of all creditable grains is the greatest ingredient by weight.
- 2. Applies only to WGR foods: The first ingredient is not a whole grain, but the product contains more than one whole grain. The PFS must indicate that the combined weight of all whole grains is the greatest ingredient by weight.
- 3. Applies only to WGR foods: The first ingredient is a whole grain, and the product contains two or more enriched grains. The PFS must indicate that the weight of the whole grain is equal to more than the combined weight of the enriched grains.
- 4. Applies only to WGR foods: The first ingredient is a flour blend of whole and enriched flour. The PFS must indicate one of the following: 1) the whole grain content is at least 8 grams per oz eq (groups A-G); or 2) the weight of the whole grain in the flour blend is more than the first ingredient (excluding water) listed *after* the flour blend.
- 5. The product contains noncreditable grains that are **not** listed in any of the following ways: after the statement, "contains 2% or less;" in a non-grain ingredient; or in the non-grain portion of a combination food. The PFS must indicate that the total weight of noncreditable grains does not exceed 3.99 grams per portion for groups A-G or 6.99 grams per portion for groups H-I.
- A combination food that contains a grain portion does not have a CN label. The PFS must indicate the following: 1) the weight (grams) of each creditable grain per serving;
   how the product provides that amount according to the USDA's Food Buying Guide for Child Nutrition Programs (FBG) or USDA's regulations, guidance, or policies; and
   if applicable, the total weight of any noncreditable grains.

- 7. 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 PFS must indicate the following: 1) the weight (grams) of each creditable grain per serving; 2) how the product provides that amount according to the FBG or USDA's regulations, guidance, or policies; and 3) if applicable, the total weight of noncreditable grains.
- 8. The product is not listed in the USDA's Exhibit A chart. The PFS must indicate the following: 1) the weight (grams) of each creditable grain per serving; 2) how the product provides that amount according to the FBG or USDA's regulations, guidance, or policies; and 3) if applicable, the total weight of noncreditable grains.

For specific guidance and examples, refer to the CSDE's resource, *When Commercial Grain Products Require a Product Formulation Statement to Credit in the School Nutrition Programs.* 



# **Crediting Considerations for Serving Size**

Some grain foods have additional crediting considerations for the required serving size. Menu planners should consider the crediting requirements below when determining the appropriate servings for breads, cereal bars, granola bars, and graham crackers.

### Crediting 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 oz eq of the grains component. The weight of one slice of bread varies greatly among manufacturers and different types of bread products. For many types of breads, one slice weighs more or less than 1 ounce. This means that one slice of bread does not always provide 1 oz eq of the grains component. Menu planners must check the serving size on the product's Nutrition Facts label to determine the oz eq contribution per slice.

The weight of one slice is determined by dividing the serving weight by the number of slices per serving, then rounding down to the nearest ¼ oz eq (refer to "Meeting the Required Grain Servings" in this section). The example below shows this calculation.

### • Example of weight per slice calculation:

The Nutrition Facts label for a multigrain bread indicates that the serving is 2 slices (44 grams). Bread is in group B and requires 1 ounce (28 grams) to credit as 1 oz eq of the grains component.

- 1. Determine the weight per slice: Divide the serving weight by the number of slices per serving.
  - 44 grams divided by 2 slices = 22 grams per slice. Since 22 grams is less than 28 grams, one slice of this multigrain bread does not credit as 1 oz eq of the grains component.
- 2. Determine the grain oz eq per slice: Divide the grams per slice by 28 and round down to the nearest ¼ oz eq.
  - 22 grams divided by 28 grams = 0.78 oz eq, which rounds down to 0.75 oz eq. One slice of this multigrain bread credits as 0.75 oz eq of the grains component.

### Crediting sandwiches with two slices of bread

The oz eq contribution of a sandwich is determined by adding the weight of both slices together before rounding down to the nearest ¼ oz eq.

### • Example of oz eq calculation:

A sandwich contains two slices of WGR bread. The Nutrition Facts label indicates that each slice weighs 26 grams. Bread is in group B and requires 1 ounce (28 grams) to credit as 1 oz eq of the grains component.

1. Determine the total weight of the bread in the sandwich: Multiply the weight per slice by the number of slices.

26 grams per slice multiplied by 2 slices = 52 grams

2. Bread (group B) requires 1 ounce (28 grams) to credit as 1 oz eq of the grains component. Divide the total weight of the two slices by 28, then round down to the nearest ¼ oz eq.

52 grams divided by 28 grams per oz eq = 1.86 oz eq, which rounds down to 1.75 oz eq. This sandwich credits as 1.75 oz eq of the grains component.

**Note:** If the menu planner rounds down the weight of each slice first, the crediting is less than the 1.75 oz eq provided in the manufacturer's serving.

26 grams divided by 28 grams per oz eq equals 0.93 oz eq, which rounds down to 0.75 oz eq per slice, which equals 1.5 oz eq of the grains component for the two slices of bread in the sandwich.



### 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 oz eq of the grains component. Cereal bars and granola bars with additional ingredients like nuts, dried fruit, and chocolate pieces (group E) require 2.4 ounces (69 grams) to credit as 1 oz eq of the grains component.

Some types of commercial cereal bars and granola bars require more than one bar to credit as 1 oz eq. For example, a fruit-filled cereal bar that weighs 37 grams credits as ½ oz eq of the grains component. SFAs must serve two fruit-filled cereal bars to provide 1 oz eq of the grains component at breakfast. The menu planner must determine if this serving size is practical and cost-effective.

Cereal bars and granola bars count toward the limit for grain-based desserts at lunch. Grain-based desserts cannot exceed 2 oz eq per week (refer to "Limit for grain-based desserts at lunch" in this section).

#### Crediting graham cracker packages

SFAs that offer graham crackers as a 1-oz eq grain menu item must make sure that the serving weighs 1 ounce or 28 grams. Many brands credit as less than 1 oz eq because the individual package does not weigh 1 ounce.

- Example 1: A two-count package of graham crackers that weighs 0.49 ounce credits as ¼ oz eq of the grains component. The menu planner would need to offer four packages to provide 1 oz eq of the grains component. Note: The oz eq contribution of a grain menu item must always be rounded down to the nearest ¼ oz eq (refer to the "Meeting the required grain servings" in this section).
- Example 2: A three-count package of graham crackers that weighs 0.75 or ¾ ounce credits as ¾ oz eq of the grains component. The menu planner would need to offer two packages to provide at least 1 oz eq of the grains component.

SFAs must review the product's PFS to determine the specific crediting for each brand of graham crackers and if they are WGR or enriched (refer to "Crediting graham crackers as a WGR food" in part A of this section). Remember that graham crackers count toward the limit for

grain-based desserts at lunch (refer to "Crediting Grain-based Desserts" in part A of 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 meal component daily for a reimbursable meal, based on the planned servings 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 oz eq of the grains component at lunch, the school menu and 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 the CSDE's Signage Requirements for the National School Lunch Program and School Breakfast Program and section 4 of the CSDE's Guide to Meal Service Requirements for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12

# **Resources for Grain Servings**

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

- Calculation Methods for Grain Ounce Equivalents for the National School Lunch
   Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE):
   https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/grain\_calculation\_snp\_grades\_k-12.pdf
- Exhibit A Grains Tool (USDA's Food Buying Guide): https://foodbuyingguide.fns.usda.gov/ExhibitATool/Index
- Exhibit A: Grain Requirements for Child Nutrition Programs (USDA): https://foodbuyingguide.fns.usda.gov/Content/TablesFBG/Exhibit\_A\_Grain\_Requirements\_For\_Child\_Nutrition\_Programs.pdf
- Grain Ounce Equivalents for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/grains\_oz\_eq\_snp\_grades\_k-12.pdf
- How to Use the Grain Ounce Equivalents Chart for the National School Lunch Program and School Breakfast Program (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/how\_to\_use\_grain\_ounce\_equivalents\_chart\_nslp\_sbp.pdf

- Ounce Equivalents ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage):
  - https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents#OunceEquivalents
- Product Formulation Statement for Documenting Grains in Child Nutrition Programs (USDA):
  - https://www.fns.usda.gov/sites/default/files/resource-files/PFS\_Grains\_Oz\_Eq\_Fillable\_508.pdf
- Product Formulation Statement for Documenting Grains in Child Nutrition Programs Completed Sample (USDA):
  - https://www.fns.usda.gov/sites/default/files/resource-files/ PFS\_Example\_Grains\_Oz\_Eq.pdf
- What's in a Meal Module 13: Grains Ounce Equivalents (CSDE's Training Program, What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12):
  - https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials
- When Commercial Grain Products Require a Product Formulation Statement to Credit in the School Nutrition Programs (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/when\_commercial\_grain\_products\_require\_pfs\_snp.pdf

For additional crediting resources, visit the "Grains Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage. Training on grain oz eq is available in "Module 13: Grains Ounce Equivalents" of the CSDE's training program, *What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.* 

# 7 — Resources

This section includes additional resources and websites to assist SFAs with meeting the NSLP and SBP meal patterns and the crediting, documentation, and meal service requirements for the school nutrition programs. More links to information on the federal and state requirements and guidance for school meals are available on the CSDE's Program Guidance for School Nutrition Programs webpages. For a list of resources on the NSLP and SBP meal patterns and crediting requirements for grades K-12, refer to the CSDE's Resources for the School Meal Patterns for Grades K-12.

### **CSDE Guides**

Afterschool Snack Program Handbook (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/asp/asp handbook.pdf

- Crediting Guide for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/mpg/guide\_crediting\_nslp\_sbp\_k12.pdf
- Guide to Meal Modifications in the School Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/specdiet/guide meal modifications snp.pdf
- Guide to Meal Service Requirements for Grades K-12 in the National School Lunch Program and School Breakfast Program (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/mpg/guide\_meal\_service\_nslp\_sbp\_k12.pdf
- Guide to Meeting the Whole Grain-rich Requirement for the National School Lunch
  Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE):
  https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting/wgr\_requirement\_snp\_grades\_k-12.pdf
- Guide to Menu Documentation for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE):
- https://portal.ct.gov/-/media/sde/nutrition/mpg/guide\_menu\_records\_nslp\_sbp\_k12.pdf
  Guide to the Dietary Specifications for the National School Lunch Program and School
- Breakfast Program Meal Patterns for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/mpg/guide\_dietary\_specifications\_nslp\_sbp\_k12.pdf
- Guide to the Meal Patterns for Grades K-12 in the National School Lunch Program and School Breakfast Program (CSDE):
  - https://portal.ct.gov/-/media/sde/nutrition/mpg/guide meal patterns nslp sbp k12.pdf

Menu Planning Guidance for School Meals for Grades K-12 (CSDE webpage): https://portal.ct.gov/sde/nutrition/menu-planning-guidance-for-school-meals

Menu Planning Guide for the Preschool Meal Patterns of the School Nutrition Programs (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/nslp/preschool/menu\_planning\_guide\_preschool.pdf

Offer versus Serve Guide for School Meals (CSDE):

https://portal.ct.gov/sde/nutrition//-/media/sde/nutrition/nslp/ovs/ovs\_guide\_snp.pdf

### **CSDE Resource Lists**

Resource List for Child Nutrition Programs (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources child nutrition programs.pdf

Resource List for Competitive Foods (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources competitive foods.pdf

Resource List for Dietary Guidance and Nutrition Information (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources dietary guidance.pdf

Resource List for Food Safety in Child Nutrition Programs (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources food safety.pdf

Resource List for Health and Achievement (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources achievement.pdf

Resource List for Menu Planning and Food Production in Child Nutrition Programs (CSDE): https://portal.ct.gov/-/media/sde/nutrition/resources/resources menu planning.pdf

Resource List for Nutrition Education (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resourcesresources nutrition education.pdf

Resource List for Obesity Data and Preventions (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources\_obesity.pdf

Resource List for Physical Activity and Physical Education (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources\_physical\_activity.pdf

Resource List for Special Diets in Child Nutrition Programs (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources special diets.pdf

Resource List for Wellness Policies for Schools and Child Care (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/resources/resources wellness policy.pdf

Resources for Child Nutrition Programs (CSDE webpage):

https://portal.ct.gov/sde/nutrition/resources-for-child-nutrition-programs

Resources for the School Meal Patterns for Grades K-12 (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/nslp/mealpattern/resources\_school\_meal\_patterns\_grades\_k-12.pdf

# **Meal Components and Crediting**

Child Nutrition (CN) Labeling (USDA):

https://www.fns.usda.gov/cn/labeling-program

Crediting Summary Charts for the Meal Patterns for Grades K-12 in the School Nutrition Programs (CSDE):

https://portal.ct.gov/-/media/sde/nutrition/nslp/crediting\_summary\_charts\_snp\_grades\_k-12.pdf

Fruits Component for Grades K-12 ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents#Fruits

Grains Component for Grades K-12 ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents#grains

Meats/Meat Alternates Component for Grades K-12 ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents#MMA

Milk Component for Grades K-12 ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents#Milk

Vegetables Component for Grades K-12 ("Documents/Forms" section of CSDE's Crediting Foods in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/crediting-foods-in-school-nutrition-programs/documents#Vegetables

What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE's Meal Pattern Training for School Nutrition Programs webpage): https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials

# **Meal Patterns and Menu Planning**

Breakfast Meal Patterns for Grades K-12 ("Documents/Forms" section of the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage):

https://portal.ct.gov/Sde/nutrition/meal-patterns-school-nutrition-programs/documents #BreakfastMealPatterns

Dietary Specifications (Nutrition Standards for School Meals) ("Documents/Forms" section of the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/meal-patterns-school-nutrition-programs/documents #DietarySpecifications

Lunch Meal Patterns for Grades K-12 ("Documents/Forms" section of the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/meal-patterns-school-nutrition-programs/documents#LunchMealPatterns

Meal Patterns for Grades K-12 in School Nutrition Programs ("Documents/Forms" section of the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/meal-patterns-school-nutrition-programs/documents

Menu Planner for School Meals (USDA):

https://www.fns.usda.gov/tn/menu-planner

Menu Planning Checklists for Lunch for Grades K-12 (CSDE's Forms for School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/forms-for-school-nutrition-programs#MenuPlanning ChecklistsLunchGradesK-12

Menu Planning for Child Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/menu-planning

Menu Planning for School Meals ("Related Resources" section of CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage):

https://portal.ct.gov/sde/nutrition/meal-patterns-school-nutrition-programs/related-resources#MenuPlanningSchoolMeals

Nutrition Standards for School Meals (USDA webpage):

https://www.fns.usda.gov/cn/nutrition-standards-school-meals

Overview of Menu Planning for Grades K-12 in the National School Lunch Program (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/mealpattern/overview\_menu\_planning\_nslp\_gradesk-12.pdf

Overview of Menu Planning for Grades K-12 in the School Breakfast Program (CSDE): https://portal.ct.gov/-/media/sde/nutrition/sbp/overview menu planning sbp gradesk-12.pdf

- Resources for the School Meal Patterns for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/mealpattern/resources\_school\_meal\_patterns\_gradesk-12.pdf
- Sodium Limits for the NSLP and SBP Meal Patterns for School Meals for Grades K-12 (CSDE): https://portal.ct.gov/-/media/sde/nutrition/nslp/mealpattern/sodium\_limits\_nslp\_sbp.pdf
- What's in a Meal: National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12 (CSDE's Meal Pattern Training for School Nutrition Programs webpage): https://portal.ct.gov/sde/nutrition/meal-pattern-training-materials

# **Regulations and Policy**

C.G.S. Section 10-221g. Sale of beverages:

https://www.cga.ct.gov/current/pub/chap\_170.htm#sec\_10-221q

Child Nutrition Programs Legislation and Regulations (USDA):

https://www.fns.usda.gov/cn/legislation-regulations

Code of Federal Regulations (CFR) for the National School Lunch Program (7 CFR 210) (USDA):

https://www.ecfr.gov/current/title-7/subtitle-B/chapter-II/subchapter-A/part-210

- Code of Federal Regulations (CFR) for the School Breakfast Program (7 CFR 220) (USDA): https://www.ecfr.gov/current/title-7/subtitle-B/chapter-II/subchapter-A/part-220
- Laws and Regulations for Child Nutrition Programs (CSDE webpage): https://portal.ct.gov/sde/nutrition/laws-and-regulations-for-child-nutrition-programs
- Questions and Answers on Connecticut Statutes for School Foods and Beverages (CSDE): https://portal.ct.gov/-/media/sde/nutrition/hfc/questions\_answers\_connecticut\_ statutes\_school\_foods\_beverages.pdf
- USDA Final Rule (77 FR 4087): Nutrition Standards in the National School Lunch and School Breakfast Programs:

https://www.fns.usda.gov/school-meals/fr-012612

USDA Final Rule (87 FR 6984): Child Nutrition Programs: Transitional Standards for Milk, Whole Grains, and Sodium:

https://www.federalregister.gov/documents/2022/02/07/2022-02327/child-nutrition-programs-transitional-standards-for-milk-whole-grains-and-sodium

USDA Final Rule Correction (87 FR 52329): Child Nutrition Programs: Transitional Standards for Milk, Whole Grains, and Sodium:

https://www.federalregister.gov/documents/2022/08/25/2022-18220/child-nutrition-programs-transitional-standards-for-milk-whole-grains-and-sodium-correction

USDA Final Rule (89 FR 31962): Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans ("Laws/Regulations" section of CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs):

https://portal.ct.gov/sde/nutrition/meal-patterns-school-nutrition-programs/regulations #Final Rule Meal Patterns DGA

USDA FNS Instruction 786-8: Reimbursement for Off-Site Meal Consumption:

https://portal.ct.gov/-/media/SDE/Nutrition/FNSinstruction/786-8.pdf

USDA Memo SP 05-2022: Meal Requirements Under the NSLP & SBP: Q&A for Program Operators Updated to Support the Transitional Standards Effective July 1, 2022: https://www.fns.usda.gov/cn/sp052022-questions-answers-program-operators

USDA Memo SP 17-2012: Procurement Questions and Answers to Assist in the Implementation of the final rule titled Nutrition Standards in the National School Lunch and School Breakfast Program:

https://www.fns.usda.gov/cn/procurement-gas-assist-implementation-final-rule

#### **Websites**

Beverage Requirements (CSDE):

https://portal.ct.gov/sde/nutrition/beverage-requirements

Child Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/child-nutrition-programs

Child Nutrition Sharing Site (ICN):

https://theicn.org/cnss/

Dietary Guidelines for Americans (USDA):

https://health.gov/dietaryguidelines/

Farm to School (CSDE):

https://portal.ct.gov/sde/nutrition/farm-to-school

Food and Nutrition Service (FNS) Documents & Resources (USDA webpage):

https://www.fns.usda.gov/resources

Food and Nutrition Service (FNS) Instructions (CSDE):

https://portal.ct.gov/sde/nutrition/fns-instructions-for-child-nutrition-programs

Food Labeling & Nutrition (FDA):

https://www.fda.gov/food/food-labeling-nutrition

Laws and Regulations for Child Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/laws-and-regulations-for-child-nutrition-programs

Manuals and Guides for Child Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/manuals-and-guides-for-child-nutrition-programs

National School Lunch Program (CSDE):

https://portal.ct.gov/sde/nutrition/national-school-lunch-program

Nutrition Education (CSDE):

https://portal.ct.gov/sde/nutrition/nutrition-education

Offer versus Serve for Grades K-12 in School Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/offer-versus-serve-for-school-nutrition-programs

Operational Memoranda for School Nutrition Programs (CSDE):

https://portal.ct.gov/sde/lists/operational-memoranda-for-school-nutrition-programs

Procurement for School Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/procurement-for-school-nutrition-programs

Production Records for School Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/production-records-for-school-nutrition-programs

Program Guidance for School Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/program-guidance-school-nutrition-programs

Resources for Child Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/resources-for-child-nutrition-programs

School Breakfast Program (CSDE):

https://portal.ct.gov/sde/nutrition/school-breakfast-program

School Lunch Tray and Table Talk (CSDE):

https://portal.ct.gov/sde/nutrition/school-lunch-tray-and-table-talk

Seamless Summer Option of the NSLP (CSDE):

https://portal.ct.gov/sde/nutrition/seamless-summer-option-sso-of-the-nslp

Special Diets in School Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/special-diets-in-school-nutrition-programs

Training for Child Nutrition Programs (CSDE):

https://portal.ct.gov/sde/nutrition/training-for-child-nutrition-programs

## **Glossary**

**a la carte sales:** Foods and beverages that are sold separately from reimbursable meals in the USDA's school nutrition programs. For more information, refer to "competitive foods" in this section.

**added sugars:** Sugars and syrups added to foods in processing or preparation, as opposed to the naturally occurring sugars found in foods like fruits, vegetables, grains, and dairy products. Names for added sugars include brown sugar, corn sweetener, corn syrup, dextrose, fructose, fruit juice concentrates, glucose, high-fructose corn syrup, honey, invert sugar, lactose, malt syrup, maltose, molasses, raw sugar, sucrose, sugar, and syrup.

**Administrative Review (AR):** The state agency's comprehensive offsite and onsite evaluation of all SFAs participating in the NSLP and SBP. The review cycle is every three years for each SFA and includes a review of critical and general areas. For more information, visit the CSDE's Administrative Review for School Nutrition Programs webpage.

Afterschool Snack Program (ASP): The USDA's federally assisted snack program implemented through the NSLP. The ASP provides cash reimbursement to help schools serve snacks to children in afterschool activities aimed at promoting the health and well-being of children and youth. Schools must provide children with regularly scheduled activities in an organized, structured, and supervised environment that includes educational or enrichment activities, e.g., mentoring/tutoring programs. Programs must meet state or local licensing requirements and health and safety standards. For more information, visit the CSDE's Afterschool Snack Program webpage.

**afterschool snacks:** Reimbursable snacks offered in the Afterschool Snack Program (ASP). For more information, refer to "Afterschool Snack Program" in this section.

**age/grade groups:** The three grade groupings (K-5, 6-8, and 9-12) of the USDA's meal breakfast and lunch patterns for grades K-12. The classification of grade groups is based on children's nutritional needs and the ages that typically correspond with these grade levels (ages 5-10 for grades K-5, ages 11-13 for grades 6-8, and ages 14-18 for grades 9-12).

alternate protein products (APPs): Food ingredients processed from soy or other vegetable protein sources (e.g., dehydrated granules, particles, or flakes) that may be used alone or in combination with meat, poultry, or seafood. Some examples include soy flours, soy concentrates, soy isolates, whey protein concentrate, whey protein isolates, and casein. The USDA has specific requirements for the crediting of APPs in Child Nutrition Programs. For more information, refer to the CSDE's resource, *Requirements for Alternate Protein Products in the School Nutrition Programs*.

artificial sweeteners: A category of nonnutritive sweeteners used as sugar substitutes to sweeten foods and beverages. The six artificial sweeteners approved by the Food and Drug Administration (FDA) include acesulfame potassium (Ace-K) (e.g., Sweet One®, Sunett ®, and Sweet & Safe®); advantame; aspartame (e.g., Nutrasweet®, Equal®, and Sugar Twin®; neotame (e.g., Newtame®); saccharin (e.g., Sweet and Low®, Sweet Twin®, and Necta Sweet); and sucralose (Splenda®). These nonnutritive sweeteners are calorie-free except for aspartame, which is very low in calories. For more information, refer to "nonnutritive sweeteners" in this section.

**bean dip:** A spread made from ground pulses (beans, peas, and/or lentils) with one or more of the following optional ingredients: ground nut/seed butter (such as tahini [ground sesame] or peanut butter; vegetable oil (such as olive oil, canola oil, soybean oil); seasoning (such as salt, citric acid); vegetables and juice for flavor (such as olives, roasted peppers, garlic, lemon juice); and for manufactured bean dip, ingredients necessary as preservatives and/or to maintain freshness.

beans, peas, and lentils (pulses): The dried edible seeds of legumes (such as beans, lentils, chickpeas, and split peas) that are one of the five vegetable subgroups recommended by the Dietary Guidelines for Americans. Pulses include all beans, peas, and lentils cooked from dry, canned, or frozen, such as kidney beans, pinto beans, black beans, pink beans, black-eyed peas, garbanzo beans (chickpeas), split peas, pigeon peas, mung beans, and lentils. The meal patterns for Child Nutrition Programs allow beans, peas, and lentils to credit as either the MMA component or the vegetables component. Minimum weekly servings are required in the NSLP meal patterns for grades K-12. For more information, refer to "Crediting Beans, Peas, and Lentils as Vegetables" in section 4.

**bran:** The seed husk or outer coating of cereal grains such as wheat, rye, and oats. Examples include oat bran, wheat bran, corn bran, rice bran, and rye bran. Bran credits the same as enriched grains.

**calories:** The measurement of energy provided by foods and beverages.

**carbohydrates:** A category of nutrients that includes sugars (simple carbohydrates) and starch and fiber (complex carbohydrates). Carbohydrates are easily converted by the body to energy (calories). Foods that provide carbohydrates (fruits, vegetables, breads, cereals, grains, milk, and dairy products) are important sources of many nutrients. However, foods containing large amounts of added sugars provide calories but few, if any, nutrients. For more information, refer to "added sugars" and "simple carbohydrates" in this section.

**cereal grains:** The seeds that come from grasses. Cereal grains can be whole grain (such as amaranth, barley, buckwheat, corn, millet, oats, quinoa, rice, rolled wheat, rye, sorghum, triticale, wheat, and wheat berries) or enriched (such as enriched cornmeal, corn grits, and farina).

Child Nutrition (CN) label: A statement that clearly identifies the contribution of a food product toward the meal pattern requirements, based on the USDA's evaluation of the product's formulation. Products eligible for CN labels include main dish entrees that provide at least ½ oz eq of the MMA component, e.g., beef patties, cheese or meat pizzas, meat or cheese and bean burritos, egg rolls, and breaded fish portions. CN labels usually indicate the contribution of other meal components (such as vegetables, grains, and fruits) that are part of these products. For more information, refer to the CSDE's resource, *Using Child Nutrition (CN) Labels in the School Nutrition Programs*, and visit the "Child Nutrition (CN) Labels" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

Child Nutrition Programs: The USDA's federally funded programs that provide nutritious meals and snacks to children, including the National School Lunch Program (NSLP), School Breakfast Program (SBP), Afterschool Snack Program (ASP), Special Milk Program (SMP), Summer Food Service Program (SFSP), Seamless Summer Option (SSO) of the NSLP, Fresh Fruit and Vegetable Program (FFVP), and Child and Adult Care Food Program (CACFP). The CACFP also provides nutritious meals and snacks to the frail elderly in adult day care centers. For more information, visit the CSDE's Child Nutrition Programs webpage.

**combination foods:** Foods that contain more than one meal component, such as pizza, burritos, and smoothies made with milk and fruit. For example, macaroni and cheese contains pasta (grains) and cheese (meat/meat alternate). Combination foods generally cannot be separated (such as pizza and burritos) or are not intended to be separated (such as a hamburger on a bun or turkey sandwich).

**competitive foods:** Any foods and beverages sold to students anytime on school premises other than meals served through the USDA's school meal programs. Competitive food sales include, but are not limited to, cafeteria a la carte sales, vending machines, school stores, and fundraisers. For more information, refer to "a la carte sales" in this section and visit the CSDE's Competitive Foods in Schools webpage.

**corn masa:** Dough made from masa harina that is used for making corn products such as tortillas, tortilla chips, and tamales. Corn masa is nixtamalized and credits as a whole grain. For more information, refer to "nixtamalization" in this section.

cornmeal: Meal made from ground, dried corn.

**creditable food:** A food or beverage that counts toward meeting the meal pattern requirements for reimbursable meals and afterschool snacks in the USDA's Child Nutrition Programs. For more information, refer to the CSDE's *Crediting Guide for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12* and visit the CSDE's Crediting Foods in School Nutrition Programs webpage.

**creditable grains:** The ingredients in a commercial grain product or standardized recipe that credit toward the grains component. Creditable grains include whole grains, enriched grains, bran, and germ. For more information, refer the CSDE's resources, *Crediting Whole Grains in the School Nutrition Programs* and *Crediting Enriched Grains in the School Nutrition Programs*.

**cycle menu:** A series of menus planned for a specific period, with a different menu for each day. Cycle menus can help schools comply with the meal pattern requirements, control food cost, control inventory, improve staff efficiency, and save time and labor costs. For more information, refer to the CSDE's *Guide to Required Menu Records for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12* 

**Dietary Guidelines for Americans:** A federal document that provides science-based advice for Americans ages 2 and older to promote health and reduce risk for chronic diseases through diet and physical activity. The U.S. Department of Health and Human Services and the USDA jointly publish the *Dietary Guidelines for Americans* every five years. This document forms the basis of federal food, nutrition education, and information programs. For more information, visit the **Dietary Guidelines for Americans** webpage.

dietary specifications: The USDA's nutrition standards for the NSLP and SBP meal patterns for grades K-12, that include weekly calorie ranges and weekly limits for saturated fat and sodium. For information on the specific dietary specifications for each grade group, visit the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage. For guidance on meeting the dietary specifications, refer to the CSDE's *Guide to the Dietary Specifications for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

Effective with school year 2026-27 (beginning July 1, 2027), the USDA final rule, *Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans*, requires a new weekly dietary specification for added sugars (less than 10 percent of calories). For more information, visit the "Upcoming Meal Pattern Changes" section of the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage.

**disability:** A condition in which a person has a physical or mental impairment that substantially limits one or more major life activities, has a record of such an impairment, or is regarded as having such an impairment. For more information, refer to the CSDE's *Guide to Meal Modifications in School Nutrition Programs*.

**edible portion:** The portion of a food that can be eaten after the nonedible parts are removed. Examples include cooked, lean meat without bone, and fruits without seeds or pits.

**endosperm:** The soft, white inside portion of the whole-grain kernel. The endosperm contains starch, protein, and small amounts of B vitamins.

**enriched grains:** Refined grains (such as wheat, rice, and corn) and grain products (such as cereal, pasta, and bread) that have some vitamins and minerals added to replace the nutrients lost during processing. The five enrichment nutrients are added within limits specified by the FDA, and include thiamin (B<sub>1</sub>), riboflavin (B<sub>2</sub>), niacin (B<sub>3</sub>), folic acid, and iron. For more information, refer the CSDE's resource, *Crediting Enriched Grains in the School Nutrition Programs*.

**enrichment:** Adding back nutrients (usually vitamins or minerals) originally present in a food that were lost during processing. Enrichment nutrients are added back in approximately the same levels as were originally present in the food. For more information, refer to "enriched grains" in this section.

entree: Refer to "main dish" in this section.

Exhibit A chart: The USDA's Exhibit A: Grain Requirements for Child Nutrition Programs chart that indicates the required weight (groups A-G) or volume (groups H-I) for different types of grain foods to provide 1 oz eq of the grains component (applies to the NSLP and SBP meal patterns for grades K-12 and the NSLP, SBP, and ASP preschool meal patterns) or 1 serving of the grains/breads component (applies to the SFSP meal pattern and ASP meal pattern for grades K-12). The required amounts in Exhibit A chart are not the same for all Child Nutrition Programs because these programs have different meal patterns. The CSDE's resource, Grain Ounce Equivalents for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12, indicates the Exhibit A grain oz eq that apply to grades K-12 in the NSLP and SBP.

Effective with school year 2025-26 (beginning July 1, 2025), the USDA final rule, Child Nutrition Programs: Meal Patterns Consistent with the 2020-2025 Dietary Guidelines for Americans, aligns the ASP meal pattern for grades K-12 with the CACFP snack meal pattern for children. The grains/breads component changes to the grains component and the required quantities change from grains/breads servings to grains oz eq. For more information, visit the "Upcoming Meal Pattern Changes" section of the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage.

flour: Finely ground and sifted wheat or other grains such as rye, corn, rice, or buckwheat.

fluid milk substitutes: Plant-based beverages designed to replace cow's milk, such as soy milk, almond milk, rice milk, and oat milk. Fluid milk substitutes may replace regular cow's milk in reimbursable meals and afterschool snacks for children who do not consume regular milk due to non-disability reasons, if they meet the USDA's nutrition standards for fluid milk substitutes. Only certain brands of fluid milk substitutes meet these standards. For more information, refer to "nutrition standards for milk substitutes" in this section and the CSDE's resources, *Allowable Fluid Milk Substitutes for Non-Disability Reasons in the School Nutrition Programs* and *Determining if Nondairy Milk Substitutes Meet the USDA's Nutrition Standards for Fluid Milk Substitutes in School Nutrition Programs*.

**food-based menu planning:** A type of menu planning for the USDA's Child Nutrition Programs that uses a meal pattern with specific meal components in certain amounts based on specific age/grade groups. For more information, refer to "meal components" in this section.

**food item:** A specific food offered within the required meal components for reimbursable meals in the USDA's school nutrition programs. A food item may contain one or more meal components or more than one serving of a single component. For example, an entree could provide 1 oz eq of the grains component and 1 oz eq of the MMA component. A 2-ounce whole grain or enriched bagel could provide 2 oz eq of the grains component.

fortification: Adding nutrients (usually vitamins or minerals) that were not originally present in a food or beverage, or adding nutrients at levels that are higher than originally present. Fortification is used for naturally nutrient-rich products based on scientifically documented health needs (such as fortifying milk with vitamin D to increase the body's absorption of calcium), or to enhance the perceived nutritional value of products with little or no natural nutritional value, e.g., fortifying "energy" bars made from processed flour with multiple vitamins and minerals. Fortification nutrients are added to products in varying amounts, from small percentages up to amounts greater than recommended intakes.

**fruits component:** The meal component of the USDA meal patterns that includes fruits (fresh, frozen, canned, and dried) and pasteurized full-strength juice. Fruit juice cannot exceed half of the weekly fruit offerings at lunch or breakfast. For more information, refer to section 5 and visit the "Fruits Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

**full meal component:** The daily quantity designated by the menu planner (no less than the established minimum) to meet the required weekly ranges.

full serving: Refer to "full meal component" in this section.

**full-strength fruit or vegetable juice:** An undiluted product obtained by extraction from sound fruit. Full-strength juice may be fresh, canned, frozen or reconstituted from concentrate and may be served in either liquid or frozen state or as an ingredient in a recipe. The name of the full-strength fruit juice on the label must include one of the following terms: "full-strength juice," "single-strength juice," "100 percent juice," "reconstituted juice," or "juice from concentrate." For more information, refer to the CSDE's resource, *Crediting Juice in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

**germ:** The vitamin-rich sprouting section of the whole-grain kernel. Germ credits the same as enriched grains.

grade groups: Refer to "age/grade groups" in this section.

**grain-based desserts:** Desserts made of grains, such as brownies, cookies, sweet crackers (e.g., graham crackers and animal crackers), 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, orange cranberry, and chocolate chip), sweet croissants (e.g., chocolate or almond filled), sweet rice puddings (e.g., cinnamon and vanilla), sweet bread puddings (e.g., made with cinnamon, fruits, chocolate, or icing), and sweet pita chips (e.g., cinnamon sugar). For more information, refer to the CSDE's resource, *Crediting Grain-based Desserts in the Meal Patterns for Grades K-12 in the School Nutrition Programs*.

grains component: The meal component of the USDA meal patterns that includes cereal grains and products made from their flours. Creditable grain foods include products and recipes that are WGR or enriched. Creditable cooked and ready-to-eat (RTE) breakfast cereals include products that are WGR, enriched, or fortified. For more information, refer to section 6 and visit the "Grains Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

**grains:** Plants in the grass family that produce a dry, edible fruit commonly called a kernel, grain, or berry.

**Hazard Analysis Critical Control Points (HACCP):** A preventative food safety program to control food safety hazards during all aspects of food service operations. HACCP reduces the risk of foodborne hazards by focusing on each step of the food preparation process from receiving to service.

hominy: 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. For crediting information, refer to "Crediting Hominy as Vegetables" in section 4 and "Crediting Hominy as Grains" in section 5.

**juice drink:** A product resembling juice that contains full-strength juice along with added water and possibly other ingredients, such as sweeteners, spices, or flavorings. Juice drinks do not credit toward the meal pattern requirements.

**lactose:** The naturally occurring sugar found in milk. Lactose contains glucose and galactose. For more information, refer to "simple carbohydrates (sugars) in this section.

**lean meat and poultry:** Defined by the *Dietary Guidelines for Americans* as meat and poultry that 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.

**legumes:** A type of plant that includes pods, e.g., soybeans, peanuts, fresh peas, fresh beans, and pulses (beans, peas, and lentils). For more information, refer to "beans, peas, and lentils (pulses)" and "pulses" in this section.

**local educational agency (LEA)**: A public board of education or other public or private nonprofit authority legally constituted within a state for either administrative control or direction of, or to perform a service function for, public or private nonprofit elementary schools or secondary schools in a city, county, township, school district, or other political subdivision of a state, or for a combination of school districts or counties that is recognized in a state as an administrative agency for its public or private nonprofit elementary schools or secondary schools. The term also includes any other public or private nonprofit institution or agency having administrative control and direction of a public or private nonprofit elementary school or secondary school, including residential child care institutions, Bureau of Indian Affairs schools, and educational service agencies and consortia of those agencies, as well as the state educational agency in a state or territory in which the state educational agency is the sole educational agency for all public or private nonprofit schools.

**main dish:** The main food item in the menu, which is complemented by the other food items. Examples of main dish items include pizza, chicken stir-fry, and chef's salad with ham, hard-boiled egg, and cheese.

masa harina: Corn flour used for making corn products such as tortillas, tortilla chips, and tamales. Masa harina is nixtamalized and credits as a whole grain. For more information, refer to "nixtamalization" in this section and "Crediting Corn Masa, Masa Harina, Corn Flour, and Cornmeal" in section 3.

**meal components:** The five food groups that comprise reimbursable meals in the NSLP (milk, fruits, vegetables, grains, and MMA) and the three food groups that comprise reimbursable breakfasts in the SBP (grains/MMA, fruits with optional vegetable substitutions, and milk).

**meal pattern:** The required meal components and minimum servings that schools and institutions participating in the USDA's Child Nutrition Programs must provide to receive federal reimbursement for meals and afterschool snacks served to children. For more information, refer to the CSDE's *Guide to the Meal Patterns for Grades K-12 in the National School Lunch Program and School Breakfast Program* and visit the CSDE's Meal Patterns for Grades K-12 in School Nutrition Programs webpage.

**meal:** A grain made by coarsely grinding corn, oats, wheat, or other grains. Whole grain, enriched, or fortified meal credits toward the grains component of the USDA's meal patterns.

**meals:** Refer to "reimbursable meals" in this section.

meat alternates: Foods that provide a similar protein content to meat. Meat alternates include alternate protein products, cheese, eggs, cooked dry beans and peas, nuts and seeds and their butters (except for acorn, chestnut, and coconut), yogurt, soy yogurt, commercial tofu containing at least 5 grams of protein in a ¼-cup (2.2 ounces) serving, and tempeh. For more information, visit the "Meats/Meat Alternates Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

meats/meat alternates (MMA) component: The meal component of the USDA meal patterns that includes meats (e.g., beef, poultry, and fish) and meat alternates, such as eggs, cheese, yogurt, beans, peas, and lentils, nuts, and seeds. For more information, refer to section 3 and visit the "Meats/Meat Alternates Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

**medical statement:** A document that identifies the specific medical conditions and appropriate dietary accommodations for children with special dietary needs. For more information, refer to the CSDE's *Guide to Meal Modifications in School Nutrition Programs* and visit the CSDE's Special Diets in School Nutrition Programs webpage.

**menu item:** Any planned main dish, vegetable, fruit, bread, grain, or milk that is part of the reimbursable meal. Menu items consist of food items. For more information, refer to "food item" in this section.

**milk component:** The meal component of the USDA meal patterns that includes pasteurized fluid milk that meets federal and state regulations. The milk component also includes nondairy milk substitutes that meet the USDA's nutrition standards for fluid milk substitutes. For more information, refer to section 2 and "fluid milk substitutes" and "nutrition standards for fluid milk substitutes" in this section, and visit the "Milk Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

**National School Lunch Program (NSLP):** The USDA's federally assisted meal program operating in public and nonprofit private schools and residential child care institutions. The NSLP provides nutritionally balanced, low-cost, or free lunches to children each school day. The NSLP was established under the National School Lunch Act, signed by President Harry Truman in 1946. For more information, visit the CSDE's National School Lunch Program webpage.

**natural cheese:** Cheese that is produced directly from milk. Examples include cheddar, Colby, Monterey Jack, mozzarella, Muenster, provolone, Swiss, feta, and brie. Natural cheese also includes pasteurized blended cheese that is made by blending one or more different kinds of natural cheese. Natural cheeses do not include pasteurized process cheese (e.g., American), pasteurized process cheese food, pasteurized process cheese spread, or pasteurized process cheese products. For more information, refer to "Crediting Cheeses" in section 3.

**nixtamalization:** A process in which dried corn is soaked and cooked in an alkaline (slaked lime) solution. This process increases the bioavailability of certain nutrients and results in a product with a similar nutrition content 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. Nixtamalized corn credits as a whole grain. For more information, refer to "Crediting Corn Masa, Masa Harina, Corn Flour, and Cornmeal" in section 3.

**noncreditable foods:** Foods and beverages that do not contribute toward the meal patterns for the USDA's Child Nutrition Programs. Noncreditable foods and beverages are either in amounts too small to credit (i.e., foods and beverages that do not provide the minimum creditable amount of a meal component) or they do not belong to the meal components. For more information, refer to the CSDE's resource, *Noncreditable Foods in the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

**noncreditable grains:** Grain ingredients that do not contribute to the grains component. Examples include oat fiber, corn fiber, wheat starch, corn starch, and modified food starch (including potato, legume, and other vegetable flours). For more information, refer to the CSDE's *Guide to Meeting the Whole Grain-rich Requirement for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.* 

**nondairy milk substitutes:** Plant-based beverages designed to replace cow's milk, such as soy milk, almond milk, rice milk, and oat milk. Nondairy milk substitutes cannot be served in reimbursable meals and afterschool snacks unless they meet the USDA's nutrition standards for fluid milk substitutes. Many nondairy milk substitutes do not meet these standards. For more information, refer to "nutrition standards for fluid milk substitutes" in this section.

**nonprofit school food service account (NSFSA):** The restricted account in which all the revenue from all food service operations conducted by the SFA, principally for the benefit of school children, is retained and used only for the operation or improvement of the nonprofit school food service. For more information, visit the "Nonprofit School Food Service Account (NSFSA)" section of the CSDE's Financial Management for School Nutrition Programs webpage.

**nonnutritive sweeteners:** Ingredients without calories that are hundreds of times sweeter than sugars and that are used as sugar substitutes to sweeten foods and beverages. Nonnutritive sweeteners include the six FDA-approved artificial sweeteners (acesulfame potassium (Ace-K), advantame, aspartame, neotame, saccharin, and sucralose) and three plant-based sweeteners (stevia, monk fruit, and thaumatin) that are Generally Recognized as Safe (GRAS) by the FDA. For more information on nonnutritive sweeteners, refer to "Additional Information about High-Intensity Sweeteners Permitted for Use in Food in the United States" on the FDA's webpage.

**nutrient-dense foods:** Foods and beverages that provide vitamins, minerals, and other substances that contribute to adequate nutrient intakes or may have positive health effects, and contain little or no solid fats, added sugars, refined starches, or sodium. Ideally, these foods and beverages are also in forms that retain naturally occurring components, such as dietary fiber. Examples include all vegetables, fruits, whole grains, seafood, eggs, beans and peas, unsalted nuts and seeds, fat-free and low-fat dairy products, and lean meats and poultry (when prepared with little or no added solid fats, sugars, refined starches, and sodium). The term "nutrient dense" indicates the nutrients and other beneficial substances in a food have not been "diluted" by the addition of calories from added solid fats, sugars, or refined starches, or by the solid fats naturally present in the food.

**nutrient-rich foods:** Refer to "nutrient-dense foods" in this section.

nutrition standards for fluid milk substitutes: The nutrition requirements for plant-based beverages (such as soy milk) used as fluid milk substitutes in the USDA Child Nutrition Programs. The USDA requires that any fluid milk substitutes are nutritionally equivalent to cow's milk and meet the following nutrients per cup (8 fluid ounces): 276 milligrams (mg) of calcium; 8 grams (g) of protein; 150 micrograms (mcg) retinol activity equivalents (RAE) of vitamin A; 2.5 mcg of vitamin D; 24 mg of magnesium; 222 mg of phosphorus; 349 mg of potassium; 0.44 mg of riboflavin; and 1.1 micrograms (mcg) of vitamin B-12. For more information, refer to the CSDE's resource, Allowable Fluid Milk Substitutes for Non-Disability Reasons in the School Nutrition Programs.

**nutritive sweeteners:** Sugars and sweeteners that contain calories and are used to sweeten foods and beverages. Examples include brown rice syrup, brown sugar, corn sweetener, corn syrup, corn syrup solids, dextrin, dextrose, fructose, fruit juice concentrate, glucose, high-fructose corn syrup, honey, invert sugar, lactose, malt syrup, maltose, molasses, maple syrup, nectars (e.g., peach nectar, pear nectar), raw sugar, sorghum syrup, sucrose, and syrup. For more information, refer to "added sugars" and "simple carbohydrates (sugars)" in this section.

offer versus serve (OVS): A provision that applies to menu planning and the determination of reimbursable meals for grades K-12 in the NSLP and SBP. OVS allows students to decline a certain number of meal components or food items in the meal. SFAs must offer the required meal components to each student. For the NSLP, students must select at least ½ cup of fruits or vegetables and the full serving of at least two other meal components. For the SBP, students must select at least three food items including at least ½ cup of fruit (or vegetable substitutions, if offered). OVS must be implemented in senior high schools for lunch but is optional for breakfast. OVS is optional for breakfast and lunch in junior high, middle, and elementary schools. OVS does not apply to the SMP or ASP, or to preschool meals in the NSLP and SBP. For more information, refer to the CSDE's Offer versus Serve Guide for School Meals and visit the CSDE's OVS webpage.

ounce equivalent (oz eq): A weight-based unit of measure for the grains component and MMA component of the NSLP and the SBP meal patterns for grades K-12. Oz eq account for dry versus cooked grains and variations in MMA. One oz eq of the MMA component is sometimes more than a measured ounce, depending on the food's density and nutritional content. One oz eq of the grains component is less than a measured ounce for some grain foods (e.g., pretzels, breadsticks, and crackers), equal to a measured ounce for some grain foods (e.g., bagels, biscuits, bread, rolls, cereal grains, and RTE breakfast cereals), and more than a measured ounce for some grain foods (e.g., muffins and pancakes). For more information, refer to the CSDE's resources, Crediting Commercial Meat/Meat Alternate Products in the School Nutrition Programs and Grain Ounce Equivalents for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12.

**point-of-service meal count:** The point in the food service operation where a determination can accurately be made that a reimbursable free, reduced-price, or paid lunch has been served to an eligible child.

**potable water:** Water that is safe for human consumption.

**pre-fried foods:** Commercially prepared foods such as meats, poultry, fish, and vegetables that are fried by the manufacturer during preparation. These foods are usually cooked by the food service operation in the oven or microwave. Pre-fried foods include refrigerated or frozen items that are breaded or battered, most frozen potato products, and most frozen products described as "crispy" or "crunchy." Examples include chicken nuggets, chicken patties, fish sticks, french fries, tater tots, hash browns, and onion rings.

primary grain ingredient: The greatest grain ingredient by weight. For commercial grain foods, this is the first ingredient (excluding water) listed in the product's ingredients statement. For commercial combination foods that contain a grain portion, this is the first grain ingredient (excluding water) listed in the product's ingredients statement. For commercial combination foods that contain a grain portion listed separately, this is the first ingredient (excluding water) listed in the grain portion of the product's ingredients statement. For more information, refer to "Grains Component" section 3.

product formulation statement (PFS): An information statement developed by manufacturers that provides specific information about how a product credits toward the USDA's meal patterns, and documents how this information is obtained citing Child Nutrition Program resources or regulations. All creditable ingredients in this statement must match a description in the USDA's Food Buying Guide for Child Nutrition Programs. The PFS must be prepared on company letterhead with the signature of a company official and the date of issue. A PFS does not provide any warranty against audit claims. SFAs must check the manufacturer's crediting information for accuracy prior to including the product in reimbursable meals. For more information, refer to the CSDE's resources, Using Product Formulation Statements in the School Nutrition Programs and Accepting Processed Product Documentation in the School Nutrition Programs.

**production record:** A working tool that outlines the type and quantity of foods used to prepare school meals. Production records must demonstrate how meals contribute to the required meal components, food items or menu items for each day of operation. They must also provide sufficient documentation to determine how school meals contribute to meeting the weekly dietary specifications. The USDA's regulations require that all schools in the NSLP, SBP, and ASP must complete daily menu production records for all meals. For more information, refer to "Production Records" in section 2.

**pulses:** The edible dry seeds from legumes, such as beans, peas, and lentils. For more information, refer to "beans, peas, and lentils (pulses)" and "legumes" in this section.

recognizable food item: A food that is visible in the offered breakfast or lunch and allows students to identify the food groups and amounts recommended for consumption at mealtime. Foods must be recognizable to credit in the NSLP and SBP meal patterns. The USDA allows some exceptions, such as yogurt blended in fruit or vegetable smoothies (refer to "Yogurt in smoothies" in section 3), pureed fruits and vegetables in smoothies (refer to "Crediting Pureed Vegetables in Smoothies" in section 4 and "Crediting Pureed Fruits in Smoothies" in section 5), and pasta made with 100 percent vegetable flour (refer to "Crediting Pasta Products Made of Vegetable Flour" in section 4).

**refined grains:** Grains that have been processed to remove the bran and germ, making the product less nutritious than whole grains. Refined grains may or may not be enriched. For more information, refer to "enriched grains" in this section.

registered dietitian (RD) or registered dietitian nutritionist (RDN): An individual who meets the following requirements: 1) completed a minimum of a graduate degree at a U.S. regionally accredited university or college and course work accredited by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics (ACEND); 2) completed an ACEND®-accredited supervised practice program at a health-care facility, community agency, or a foodservice corporation or combined with undergraduate or graduate studies; 3) passed a national examination administered by the Commission on Dietetic Registration (CDR); and 4) completed continuing professional educational requirements to maintain registration. For more information, visit the Academy of Nutrition and Dietetics' (AND) Registered Dietitian Nutritionist Fact Sheet website.

**reimbursable meals:** Meals that offer the required meal components and minimum servings for each grade group of the NSLP and SBP meal patterns.

residential child care institution (RCCI): RCCIs include but are not limited to homes for the mentally, emotionally or physically impaired, and unmarried mothers and their infants; group homes; halfway houses; orphanages; temporary shelters for abused children and for runaway children; long-term care facilities for chronically ill children; and juvenile detention centers. A long-term care facility is a hospital, skilled nursing facility, intermediate care facility, or distinct part thereof, which is intended for the care of children confined for 30 days or more.

**saturated fat:** A type of fat that raises blood cholesterol, which is a risk factor for cardiovascular disease. Major sources of saturated fat include coconut, palm, and palm kernel oils, butter, and beef fats. Saturated fat is also found in other animal fats, such as pork and chicken fats, and in other plant fats, such as nuts. For more information, refer to "solid fats" in this section.

**School Breakfast Program (SBP):** The USDA's federally assisted meal program operating in public and nonprofit private schools and residential child care institutions. The SBP provides nutritionally balanced, low-cost, or free breakfasts to children each school day. The SBP was established under the Child Nutrition Act of 1966 to ensure that all children have access to a healthy breakfast at school to promote learning readiness and healthy eating behaviors. For more information, visit the CSDE's School Breakfast Program webpage.

**school food authority (SFA):** The governing body that is responsible for the administration of one or more schools and has the legal authority to operate the USDA's school nutrition programs.

**school nutrition programs:** The USDA's school nutrition programs include the National School Lunch Program (NSLP), School Breakfast Program (SBP), Afterschool Snack Program (ASP) of the NSLP, Seamless Summer Option (SSO) of the NSLP, Special Milk Program (SMP), Fresh Fruit and Vegetable Program (FFVP), and Child and Adult Care Food Program (CACFP) At-risk Supper Program implemented in schools. For more information, visit the CSDE's School Nutrition Programs webpage.

**Seamless Summer Option (SSO) of the NSLP:** The USDA's federally assisted summer feeding program that combines features of the NSLP, SBP, and SFSP, and serves meals free of charge to children ages 18 and younger from low-income areas. School districts participating in the NSLP or SBP are eligible to apply to the CSDE to participate in the SSO. SSO meals follow the NSLP and SBP meal patterns. For more information, visit the Seamless Summer Option of the NSLP webpage.

**serving size or portion:** The weight, measure, number of pieces, or slices of a food or beverage. SFAs must provide the minimum serving sizes specified in the USDA meal patterns for meals and afterschool snacks to be reimbursable.

simple carbohydrates (sugars): Carbohydrates consisting of one sugar (e.g., fructose and galactose) or two sugars (e.g., lactose, maltose, and sucrose). Sugars can be naturally present in foods (such as fructose in fruit or lactose in milk) or added to foods (such as sucrose or table sugar). Foods that naturally contain simple carbohydrates (such as fruits, milk, and milk products, and some vegetables) also contain vitamins and minerals. Foods that contain large amounts of added sugars (such as cookies, candy, pastries, sweetened baked goods, regular soft drinks, and other sweetened drinks) provide calories with few, if any, nutrients. For more information, refer to "added sugars" in this section.

**sodium:** A mineral that helps maintain the body's fluid balance and blood pressure. Diets that are high in sodium can increase the risk of high blood pressure in individuals who are sodium sensitive.

**solid fats:** Fats that are usually not liquid at room temperature. Solid fats are found in most animal foods but also can be made from vegetable oils through hydrogenation. Some common solid fats include butter, beef fat (tallow, suet), chicken fat, pork fat (lard), stick margarine, coconut oil, palm oil, and shortening. Foods high in solid fats include full-fat (regular) cheese, cream, whole milk, ice cream, well-marbled cuts of meats, regular ground beef, bacon, sausages, poultry skin, and many baked goods (such as cookies, crackers, donuts, pastries, and croissants). Solid fats contain more saturated fats. For more information, refer to "saturated fats" in this section.

**Special Milk Program (SMP):** The USDA's federally assisted program that provides milk to children in schools and child care institutions that do not participate in other federal meal service programs. The SMP reimburses schools for the milk they serve. Schools in the NSLP or SBP may also participate in the SMP to provide milk to children in half-day pre-kindergarten and kindergarten programs where children do not have access to the school meal programs. For more information, visit the CSDE's Special Milk Program webpage.

**standard of identity:** The mandatory government requirements that determine what a food product (like whole-wheat bread) must contain or may contain to be marketed under a certain name in interstate commerce. These standards protect consumers by ensuring that a label accurately reflects what is inside. For example, mayonnaise is not an imitation spread, and ice cream is not a similar, but different, frozen dessert. The USDA develops standards for meat and poultry products. The FDA develops standards for other food products. For more information, visit the FDA's Standards of Identity for Food webpage.

**standardized recipe:** A recipe that been tried, adapted, and retried at least three times and has been found to produce the same good results and yield every time when the exact procedures are used with the same type of equipment and the same quantity and quality of ingredients. Standardized recipes include specific information such as ingredients, weights and measures, preparation directions, serving directions, yield, and portion size. For more information, refer to the Culinary Institute of Child Nutrition's *USDA Recipe Standardization Guide for School Nutrition Programs*, the CSDE's *Guide to Menu Documentation for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*, and visit the "Standardized Recipes" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

state licensed healthcare professional: An individual who is authorized to write medical prescriptions under state law and is recognized by the State Department of Public Health (DPH). In Connecticut, this includes physicians (MD), physician assistants (PA) and certified physician assistants (PAC), doctors of osteopathy (DO), and advanced practice registered nurses (APRN), i.e., nurse practitioners, clinical nurse specialists, and certified nurse anesthetists who are licensed as APRNs. For more information, refer to the CSDE's *Guide to Meal Modifications in School Nutrition Programs*.

**sucrose:** Another name for table sugar. Sucrose contains glucose and fructose. For more information, refer to "simple carbohydrates (sugars) in this section.

**sugar alcohols (polyols):** A type of carbohydrate used as sugar substitutes to sweeten foods and beverages. Sugar alcohols are incompletely absorbed and metabolized by the body and contribute fewer calories than most sugars. They also perform other functions such as adding bulk and texture to foods. Common sugar alcohols include sorbitol, mannitol, xylitol, maltitol, maltitol syrup, lactitol, erythritol, isomalt, and hydrogenated starch hydrolysates (HSH). Products with sugar alcohols are often labeled "sugar free." Large amounts of sugar alcohols may cause bloating, gas, or diarrhea. For more information, refer to "nonnutritive sweeteners" in this section.

**sugars**: Refer to "added sugars" and "simple carbohydrates" in this section.

**surimi:** Pasteurized, ready-to-eat, restructured seafood usually made from pollock (fish). A 3-ounce serving of surimi credits as 1 oz eq of the MMA component.

**tempeh:** A highly nutritious fermented soybean cake traditionally made from whole soybeans. A 1-ounce serving of tempeh credits as 1 oz eq of the MMA component. This method of crediting applies only to tempeh products whose ingredients are limited to soybeans (or other beans, peas, and lentils), water, tempeh culture, and for some varieties, vinegar, seasonings, and herbs. SFA must obtain a PFS for tempeh products that contain different ingredients.

**USDA Foods:** Foods available to the USDA Child Nutrition Programs through the CSDE's Food Distribution Program. USDA Foods are available to schools in several ways, including Direct Delivery USDA Foods, Further Processed USDA Foods, the USDA Department of Defense (DoD) Fresh Fruit and Vegetable Program, the Fresh Fruit and Vegetable Program Pilot, and the SFSP USDA DoD Pilot. For more information, visit the USDA's USDA Foods Programs webpage and the CSDE's Food Distribution Program webpage.

**vegetable subgroups:** The five categories of vegetables within the vegetables component that are required over the week in the NSLP meal patterns for grades K-12. The subgroups include dark green, red/orange, beans, peas, and lentils, starchy, and other vegetables. For more information, refer to the CSDE's resource, *Vegetable Subgroups in the National School Lunch Program*, and visit the "Vegetables Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

**vegetables component:** The meal component of the USDA meal patterns that includes vegetables (fresh, frozen, canned, and dried) and pasteurized full-strength juice; and includes five subgroups. Vegetable juice cannot exceed half of the weekly vegetable offerings at lunch or breakfast. For more information, refer to section 4 and visit the "Vegetables Component" section of the CSDE's Crediting Foods in School Nutrition Programs webpage.

wheat bread: Bread that often has wheat flour or enriched wheat flour (not whole-wheat flour) as an ingredient. Wheat bread is not whole grain unless it is labeled "whole-wheat bread."

**whole foods:** Foods that are unprocessed or minimally processed and do not contain added ingredients such as fat, sugars, or sodium.

whole fruits and vegetables: Fresh, frozen, canned, and dried fruits and vegetables that are unprocessed or minimally processed, and do not contain added ingredients such as fat, sugars, and sodium.

whole grain-rich: For the NSLP and SBP meal patterns for grades K-12, a food is WGR if meets two criteria: 1) the food is 100 percent whole grain or contains a blend of whole and enriched grains that is at least 50 percent whole grain; and 2) any noncreditable grains are less than 2 percent of the product formula (or less than ½ oz eq per portion), i.e., no more than 3.99 grams per portion for groups A-G (baked goods) or 6.99 grams per portion for groups H (cereal grains). Ready-to-eat (RTE) breakfast cereals meet the WGR criteria if: 1) the first ingredient is a whole grain and the cereal is fortified, or the cereal is 100 percent whole grain; and 2) noncreditable grains do not exceed 6.99 grams per portion. Fortification is not required for 100 whole grain cereals. For more information, refer to the CSDE's *Guide to Meeting the Whole Grain-rich Requirement for the National School Lunch Program and School Breakfast Program Meal Patterns for Grades K-12*.

whole grains: Grains that consist of the entire kernel, including the starchy endosperm, the fiber-rich bran, and the nutrient-rich germ. All grains start out as whole grains, but many are processed to remove the bran and germ, which also removes many of the nutrients. Whole grains are nutrient rich, containing vitamins, minerals, fiber, antioxidants, and health-enhancing phytonutrients such as lignans and flavonoids. Examples of whole grains include whole wheat, whole oats, oatmeal, whole-grain cornmeal, brown rice, whole rye, whole barley, wild rice, buckwheat, and bulgur (cracked wheat). For more information, refer to the CSDE's resource, *Crediting Whole Grains in the School Nutrition Programs*.

**whole-grain flour:** Flour made by grinding the entire whole-grain kernel, including the fiberrich bran, nutrient-rich germ, and starchy endosperm. Flour or meal that does not contain all parts of the grain is not whole grain, e.g., degermed corn, milled rice, and wheat flour. For more information, refer to "Whole grains" in section 3 and the CSDE's resource, *Crediting Whole Grains in the School Nutrition Programs*.

**whole-wheat bread:** Bread that contains the whole grain, including the starchy endosperm, the fiber-rich bran, and the nutrient-rich germ. Whole-wheat flour will be listed as the first grain ingredient.

Glossary

