## Food Buying Guidle



## Food Buying Guide


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U.S. Department of Agriculture Food and Nutrition Service

## BUY AMERICAN REQUIREMENT

Schools and institutions participating in the National School Lunch Program and the School Breakfast Program in the contiguous United States are required by law to use school food service funds, to the maximum extent practicable, to buy domestic commodities or products for meals served under these programs. A "domestic commodity or product" is defined as one that is either produced in the United States or is processed in the United States substantially using agricultural commodities that are produced in the United States. The term "substantially" means that over 51 percent of the final product consists of agricultural commodities that were grown domestically. Therefore, when school food service funds are used to acquire foods, schools, and institutions must ensure that the items are in compliance with this requirement.
U.S. Department of Agriculture

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## Introduction

It is a big - and very important - job to plan, purchase, prepare, and serve nourishing meals for the U.S. Department of Agriculture's Child Nutrition Programs. Every day, your work helps fight hunger and improve the nutritional health of children in America.

Whether you are serving food to a small number of children or adults or thousands of students, you need to think carefully about each meal.

- Will the meal meet the appropriate requirements of the various Child Nutrition Programs?
- How many servings will you get from a specific quantity of food?
- What quantity of the raw product will provide the amount of ready-to-cook food called for in a recipe?

How much food will you need to buy?

## The Food Buying Guide for Child

 Nutrition Programs is designed to help you in two important ways:1. It will help you or your purchasing
 agent buy the right amount of food and buy it most economically whether you use one of the food-based or the nutrient standard menu planning approaches.
2. For the food-based menu planning options, it will help you determine the specific contribution each food makes toward the meal pattern requirements. This is necessary to ensure that meals provide needed nourishment and meet program requirements for reimbursement.

In addition, with yield data for more than 1,200 food items, this guide can provide ideas for adding new foods or new forms of familiar foods to your menus. The 2005 Dietary Guidelines for Americans emphasize that a variety of fruits, vegetables, and grains, especially whole grains, are key elements of a healthful diet. By offering a wide variety of nourishing foods, you are giving children greater opportunity to develop eating habits that will promote life-long good health.

## What is New in This Updated Guide?

As with the previous Food Buying Guide last revised in 1984, this new edition will be widely used by school food service professionals. It is also appropriate for use in the Child and Adult Care Food Program as well as the Summer Food Service Program. Meal patterns for each of these Child Nutrition Programs are shown on pages I-7 through I-27.

The Food Buying Guide for Child Nutrition Programs was first published in 1947. Since then it has been updated several times to add new foods and to reflect changes in processing technology or packaging that may affect yield.

For example, many schools now purchase ready-to-serve salads and pre-cut vegetables. These were not widely available the last time the guide was revised in 1984.

This new guide replaces the 1984 edition. The new guide:

- is the most comprehensive to date. It includes over five hundred new food items or new pack sizes, each carefully tested in a food service setting using the equipment and methods that would be used in a typical food service setting.
bas a new look, with an updated design. The yield data tables, however, appear in a familiar format so you can continue to use them easily.
is packed with helpful information. For example, a series of variations of practical examples serves as a how-to guide for working with the yield data tables.
contains updated meal pattern charts and adds a chart summarizing required menu items for the Nutrient Standard Menu Planning approach.
has the following appendices:
Appendix A: Recipe Analysis. This section has been added as a quick method to see if your USDA modified or locally produced recipes will provide the servings that you need for your planned meal.

Appendix B: Determining the Number of Servings, for Crediting Purposes, from a Particular Food. This section shows how to calculate the credit of one portion of a recipe using Column 6 (Additional Information).
Appendix C: The USDA Child Nutrition (CN) Labeling Program. This section provides a brief description of the CN Label Program, what types of foods can be CN labeled, and what a CN label looks like. It also contains yield data for food items used primarily by industry.
Appendix D: Food Purchasing. Summaries of First Choice and Choice Plus are included as a resource for purchasing foods.
Appendix E: Resources. Resources related to program requirements, nutrition guidance, food safety, and more.

## Yields

Yield information is a valuable planning tool. Use it as a guideline to purchase sufficient food for the meals you will prepare.

Examples of yield information:
If you plan to include fresh, chopped tomatoes in a green salad, you will need to know how many pounds of whole tomatoes, minus the waste, will yield the desired amount for the recipe.
If you have received commodity ground beef and you plan to serve 275 portions of meatloaf which will provide 2 ounces of cooked lean meat per portion, you will need to know how many ounces of raww ground beef to include in the recipe to yield 2752 -ounce servings of cooked lean meat.
If you plan to serve a marinated black bean salad, and the recipe calls for 5 pounds of drained, canned, black beans, you need to know how many cans of undrained beans will yield 5 pounds of drained beans, or, the number of pounds of dry, uncooked black beans that could be used instead.

The yield information provided in this guide represents average yields based on research conducted by USDA. The yield information given for a specific food is meant to be a planning and production tool.

The yield information in this guide is based on careful portioning and weighing. Measuring tools, such as a volume measure filled level to the top and an accurate scale, were used in the research conducted by USDA.

Using these same tools you must measure or weigh portions carefully and ensure that each serving size is appropriate for the age/grade group you are serving.

If your food service operation is consistently getting a higher or lower yield from a product than the yield specified by the Food Buying Guide, you may want to research and document the yield or number of portions of a specified size that the product provides. Prior to obtaining any in-house yield data you must find out if your State agency will allow the use of in-house yield data. If your State agency allows the use of in-house yield data: 1) determine what your State agency procedures are to determine the in-house yields; and 2) maintain documentation required by the State agency.

Specific and verifiable procedures must be followed to document yield.
For example, suppose the yield listed in the Food Buying Guide for a \#10 can of diced pears is consistently lower than the yield you are getting with the brand of diced pears you are currently purchasing. After checking with your State agency,
you find out that you can collect in-house yield data, that the agency requires determining yields from at least six samples, and that the State agency will need to review and approve the data before it can be used.

Based on procedures set by the State agency, your program will need to carefully portion (using the appropriate scoop/disher or measuring spoon which is filled level to the top of the measure) at least six (6) \#10 cans, carefully counting and documenting the number of specified portions. When the portioning and counting are completed, you will total the number of servings from each of the 6 cans and then divide the total by 6 to get the average number of portions per can. To get a better estimate of yield, at least two people should do the portioning and counting of 6 samples independently. In this example, the State agency reviewed and accepted the in-house yield data and required documentation to be maintained of how the yields for the diced pears were established.

## Many factors affect yield, including:

the quality and condition of the food you buy;
storage conditions and handling;
the equipment used in preparation;
cooking method and time;
the form in which you serve the food - for example, whether the potatoes you are serving are mashed, fried, or baked; and
the serving utensils and portion control methods used.

## Meal Patterns

For the National School Lunch Program (NSLP) and the School Breakfast Program (SBP), schools may plan meals by:

1. using one of the food-based menu planning approaches,
2. using Nutrient Standard or Assisted Nutrient Standard Menu Planning, or
3. adopting an alternate menu planning approach developed by a State agency or by the school food authority with State agency approval. Please see program regulations (7 CFR Parts 210 and 220), A Menu Planner for Healthy School Meals Publication number FNS-303, or contact your State agency for additional information about the various menu planning approaches.

The Child and Adult Care Food Program (CACFP) and the Summer Food Service Program (SFSP) follow meal patterns for planning menus. However, if the CACFP or SFSP is operated by a school using one of the Nutrient Standard Menu Planning approaches, that method may also be used for these programs with State agency
 approval. Please see program regulations (7 CFR Parts 225 and 226), Building Blocks for Fun and Healthy Meals - A Menu Planner for CACFP Publication number FNS-305 and Sponsor Meal Preparation Handbook for the Summer Food Service Program for Children Publication Number FNS-207 or contact your State agency for additional information about menu planning for the CACFP and the SFSP.

## Charts 1A \& 1B: National School Lunch Program (NSLP)

Chart 1A shows the traditional food-based meal pattern for NSLP. Chart 1B shows the Enhanced Food-Based Meal Pattern for the NSLP.

USDA recommends, but does not require, that portions be adjusted by age/grade group to better meet the food and nutritional needs of children according to their ages. If portions are not adjusted, the oldest age group served must receive at least the minimum amount for that age group, even though more food will be served than recommended for the lower age groups.

For example, the amounts of food listed under Groups I-IV on the traditional meal pattern for NSLP indicate minimum requirements for the age and grade groups specified. If you do not adjust portions, you must offer the Group IV portions to all students. Group $V$ lists recommended amounts for older students who may need the larger portions.

Also when using the Traditional Food-Based Menu Planning approach, it is important to ensure that meals provide sufficient calories. The Traditional Meal Pattern was designed to serve as the framework for the meal. Schools are expected to add other foods and condiments to provide taste, enhance appeal, and increase calories and the nutritional value of the meal.

## Charts 2A \& 2B: School Breakfast Program (SBP)

Chart 2A shows the Traditional Food-Based Meal Pattern for the SBP. Chart 2B shows the enhanced food-based meal pattern for the SBP.

## Chart 3: Afterschool Snacks Served Under the National School Lunch Program (NSLP)

Schools may serve reimbursable supplemental snacks to children in an eligible afterschool snack program. Chart 3 provides the minimum requirements for afterschool snacks.

## Chart 4: Child and Adult Care Food Program (CACFP)

For children and adults participating in the CACFP:
Chart 4A shows the minimum meal pattern requirements for breakfast;
Chart 4B shows the minimum meal pattern requirements for lunch;
Chart 4C shows the minimum meal pattern requirements for supper; and
Chart 4D shows the minimum meal pattern requirements for snacks.

## Chart 5: Summer Food Service Program (SFSP)

Chart 5 shows the breakfast, lunch or supper, and snack patterns for the SFSP.

## Chart 6: Minimum Required Menu Items for Nutrient Standard Menu Planning

Chart 6 is a summary of the menu items required when using the Nutrient Standard or Assisted Nutrient Standard Menu Planning approaches.

Chantis
TRADITIONAL FOOD-BASED MENU PLANNING - Meal Pattern

| FOOD COMPONENTS AND FOOD ITEMS | MINIMUM QUANTITIES |  |  |  | RECOMMENDED QUANTITIES |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | GROUP I <br> AGES 1 and 2 <br> PRESCHOOL | GROUP II AGES 3 and 4 PRESCHOOL | GROUP III AGES 5-8 <br> GRADES K-3 | GROUP IV AGE 9 AND OLDER GRADES 4-12 | GROUP V AGE 12 AND OLDER GRADES 7-12 |
| Milk, fluid (as a beverage) | 6 fl oz (3/4 cup) | $6 \mathrm{fl} \mathrm{oz} \mathrm{(3/4} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| Meat or Meat Alternate ${ }^{1,2,3,4,5}$ (quantity of the edible portion as served): |  |  |  |  |  |
| Lean meat, poultry, or fish | 10 z | 1-1/2 oz | 1-1/2 oz | $20 z$ | 307 |
| Alternate protein products ${ }^{3}$ | 10 O | 1-1/2 oz | 1-1/2 oz | 2 oz | $30 z$ |
| Cheese | 10 O | 1-1/2 oz | 1-1/2 oz | $20 z$ | $30 z$ |
| Egg (large) | 1/2 large egg | 3/4 large egg | 3/4 large egg | 1 large egg | 1-1/2 large eggs |
| Cooked dry beans or peas ${ }^{4}$ | 1/4 cup | 3/8 cup | 3/8 cup | 1/2 cup | 3/4 cup |
| Peanut butter or other nut or seed butters | 2 Tbsp | 3 Tbsp | 3 Tbsp | 4 Tbsp | 6 Tbsp |
| Yogurt, plain or flavored, unsweetened or sweetened - commercially prepared | 4 oz or 1/2 cup | 6 oz or 3/4 cup | 6 oz or 3/4 cup | 8 oz or 1 cup | 12 oz or 1-1/2 cups |
| The following may be used to meet no more than $50 \%$ of the requirement and must be used in combination with any of the above: <br> Peanuts, soynuts, tree nuts, or seeds, as listed in program guidance, or an equivalent quantity of any combination of the above meat/meat alternate (1 oz of nuts/seeds=1 oz of cooked lean meat, poultry, or fish) ${ }^{5}$ | $1 / 2 \mathrm{oz}=50{ }^{5}$ | $3 / 40 z=50 \%{ }^{5}$ | $3 / 40 z=50 \%$ | $10 z=50 \%$ | $1-1 / 2 o z=50 \%$ |
| Vegetable or Fruit ${ }^{4,6}$ Two or more servings of different vegetables, fruits, or both | 1/2 cup | 1/2 cup | 1/2 cup | 3/4 cup | 3/4 cup |
| Grains/Breads ${ }^{\mathbf{7}}$ (Servings per week): Must be enriched or whole-grain or made from enriched or whole-grain flour or meal that may include bran and/or germ. A serving is a slice of bread or an equivalent serving of biscuits, rolls, etc., or $1 / 2$ cup of cooked rice, macaroni, noodles, other pasta products, or cereal grains. | 5 per week ${ }^{8}$-minimum of $1 / 2$ per day | 8 per week ${ }^{8}$-minimum of 1 per day | 8 per week ${ }^{8}$-minimum of 1 per day | 8 per week ${ }^{8}$-minimum of 1 per day | 10 per week ${ }^{8}$-minimum of 1 per day |

${ }^{1}$ Must be served in the main dish or the main dish plus only one other menu item.
${ }^{2}$ Enriched macaroni with fortified protein may be used to meet part of the meat or meat alternate requirement
${ }^{3}$ Alternate protein products must meet the requirements in Appendix A of 7 CFR Part 210.
${ }^{4}$ Cooked dry beans or peas may be used as a meat alternate or as a vegetable, but not as both components in the same meal.
${ }^{5}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced.
No more than one-half of the total requirement may be met with full-strength fruit or vegetable juice.
Enriched macaroni with fortified protein may be used as a meat alternate or as a grains/breads item, but not as both components in the same meal.
8 For the purposes of this chart, a week equals 5 school days.

|  | MINIMUM REQUIREMENTS |  |  |  | OPTION FOR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FOOD COMPONENTS AND FOOD ITEMS | AGES 1 and 2 | PRESCHOOL | GRADES K-6 | GRADES 7-12 | GRADES K-3 |
| Milk, fluid (as a beverage) | $6 \mathrm{fl} \mathrm{oz} \mathrm{(3/4} \mathrm{cup)}$ | $6 \mathrm{fl} \mathrm{oz} \mathrm{(3/4} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| Meat or Meat Alternate ${ }^{\mathbf{1 , 2 , 3 , 4 , 5}}$ (quantity of the edible portion as served): |  |  |  |  |  |
| Lean meat, poultry, or fish | 1 oz | 1-1/2 oz | $20 z$ | $20 z$ | 1-1/2 oz |
| Alternate protein products ${ }^{3}$ | 1 oz | 1-1/2 oz | $20 z$ | $20 z$ | 1-1/2 oz |
| Cheese | 1 oz | 1-1/2 oz | $20 z$ | $20 z$ | 1-1/2 oz |
| Egg (large) | 1/2 large egg | 3/4 large egg | 1 large egg | 1 large egg | 3/4 large egg |
| Cooked dry beans or peas ${ }^{4}$ | 1/4 cup | 3/8 cup | 1/2 cup | 1/2 cup | 3/8 cup |
| Peanut butter or other nut or seed butters | 2 Tbsp | 3 Tbsp | 4 Tbsp | 4 Tbsp | 3 Tbsp |
| Yogurt, plain or flavored, unsweetened, or sweetened - commercially prepared | 4 oz or 1/2 cup | 6 oz or 3/4 cup | 8 oz or 1 cup | 8 oz or 1 cup | 6 oz or 3/4 cup |
| The following may be used to meet no more than $50 \%$ of the requirement and must be used in combination with any of the above: Peanuts, soynuts, tree nuts, or seeds, as listed in program guidance, or an equivalent quantity of any combination of the above meat/meat alternate ( 1 oz of nuts/seeds $=1 \mathrm{oz}$ of cooked lean meat, poultry, or fish). ${ }^{5}$ | $1 / 2 \mathrm{oz}=50 \%^{5}$ | $3 / 40 z=50 \%{ }^{5}$ | $10 z=50 \%$ | $1 \mathrm{oz}=50 \%$ | $3 / 40 z=50 \%$ |
| Vegetable or Fruit ${ }^{4,6}$ Two or more servings of different vegetables, fruits, or both | 1/2 cup | 1/2 cup | 3/4 cup plus an extra $1 / 2$ cup over a week | 1 cup | 3/4 cup |
| Grains/Breads ${ }^{\mathbf{7}}$ (Servings per week): Must be enriched or whole-grain or made from enriched or whole-grain flour or meal that may include bran and/or germ. A serving is a slice of bread or an equivalent serving of biscuits, rolls, etc., or $1 / 2$ cup of cooked rice, macaroni, noodles, other pasta products, or cereal grains. | 5 per week ${ }^{8}$-minimum of $1 / 2$ per day | 8 per week ${ }^{8}$-minimum of 1 per day | 12 per week ${ }^{8}$-minimum of 1 per day ${ }^{9}$ | 15 per week ${ }^{8}$-minimum of 1 per day ${ }^{9}$ | 10 per week ${ }^{8}$-minimum of 1 per day ${ }^{9}$ |

${ }^{1}$ Must be served in the main dish or the main dish plus only one other menu item.
${ }^{2}$ Enriched macaroni with fortified protein may be used to meet part of the meat or meat alternate requirement.
${ }^{3}$ Alternate protein products must meet requirements in Appendix A of 7 CFR Part 210.
${ }^{4}$ Cooked dry beans or peas may be used as a meat alternate or as a vegetable, but not as both components in the same meal.
${ }^{5}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced. ${ }^{6}$ No more than one-half of the total requirement may be met with full-strength fruit or vegetable juice.
${ }^{7}$ Enriched macaroni with fortified protein may be used as a meat alternate or as a grains/breads item, but not as both components in the same meal.
${ }^{8}$ For the purposes of this chart, a week equals 5 school days.
${ }^{9}$ Up to one grains/breads serving per day may be a grain-based dessert.
Cmaris
Meal Pattern

| MINIMUM REQUIREMENTS |  |  |
| :---: | :---: | :---: |
| AGES 1 and 2 | PRESCHOOL | GRADES K-12 |
| $4 \mathrm{fl} \mathrm{oz} \mathrm{(1/2} \mathrm{cup)}$ | $6 \mathrm{fl} \mathrm{oz} \mathrm{(3/4} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| 1/4 cup | 1/2 cup | 1/2 cup |
|  |  |  |
|  |  |  |
| 1/2 slice | 1/2 slice | 1 slice |
| 1/2 serving | 1/2 serving | 1 serving |
| $1 / 4$ cup or $1 / 3$ oz | $1 / 3$ cup or $1 / 2$ oz | $3 / 4$ cup or 1 oz |
|  |  |  |
| 1/2 oz | 1/2 OZ | 1 oz |
| 1/2 oz | 1/2 OZ | 10 O |
| 1/2 oz | 1/2 oz | 1 oz |
| 1/2 large egg | 1/2 large egg | 1/2 large egg |
| 1 Tbsp | 1 Tbsp | 2 Tbsp |
| 2 Tbsp | 2 Tbsp | 4 Tbsp |
| $1 / 20 z^{5}$ | $1 / 20 z^{5}$ | 10 O |
| 2 oz or $1 / 4$ cup | 2 oz or 1/4 cup | 4 oz or 1/2 cup |

Minimum servings for meat/meat alternate $=0.25$ ounce and for grains/breads $=1 / 4$ serving. $\quad$.
1 Minimum servings for meat/meat alternate $=0.25$ ounce and for grains $/$ breads $=1 / 4$ serving.
${ }^{2}$ Grains/Breads must be enriched or whole-grain or made from enriched or whole-grain flour or m
${ }^{3}$ Alternate protein products must meet requirements in Appendix A 7 CFR Part 220.
${ }^{5}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced.

| FOOD COMPONENTS AND FOOD ITEMS | MINIMUM REQUIREMENTS |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | REQUIRED FOR |  |  | OPTION FOR |
|  | AGES 1 and 2 | PRESCHOOL | GRADES K-12 | GRADES 7-12 |
| Milk (Fluid) (As a beverage, on cereal, or both) | $4 \mathrm{fl} \mathrm{oz} \mathrm{(1/2} \mathrm{cup)}$ | $6 \mathrm{fl} \mathrm{oz} \mathrm{(3/4} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| Juice/Fruit/Vegetable Fruit and/or vegetable; or full-strength fruit juice or vegetable juice | 1/4 cup | 1/2 cup | 1/2 cup | 1/2 cup |
| SELECT ONE SERVING FROM EACH OF THE FOLLOWING COMPONENTS; OR TWO FROM ONE COMPONENT; OR AN EQUIVALENT COMBINATION ${ }^{1}$ |  |  |  |  |
| Grains/Breads ${ }^{\mathbf{2}}$ |  |  |  |  |
| Whole-grain or enriched bread | 1/2 slice | 1/2 slice | 1 slice | 1 slice |
| Whole-grain or enriched biscuit, roll, muffin, etc. | 1/2 serving | 1/2 serving | 1 serving | 1 serving |
| Whole-grain, enriched, or fortified cereal | $1 / 4$ cup or $1 / 3$ oz | $1 / 3$ cup or $1 / 2$ oz | $3 / 4$ cup or 1 oz | 3/4 cup or 1 oz <br> - Plus an additional serving of one of the Grains/Breads above. |
| Meat or Meat Alternate ${ }^{\text {3,4,5 }}$ |  |  |  |  |
| Lean meat/ poultry or fish | 1/2 oz | 1/2 oz | 1 oz | 102 |
| Alternate protein products ${ }^{3}$ | 1/2 oz | 1/2 oz | 10 O | 102 |
| Cheese | 1/2 oz | 1/2 oz | 1 oz | 10 z |
| Egg (large) | 1/2 large egg | 1/2 large egg | 1/2 large egg | 1/2 large egg |
| Peanut butter or other nut or seed butters | 1 Tbsp | 1 Tbsp | 2 Tbsp | 2 Tbsp |
| Cooked dry beans and peas | 2 Tbsp | 2 Tbsp | 4 Tbsp | 4 Tbsp |
| Nuts and/or seeds (as listed in program guidance) ${ }^{4,5}$ | $1 / 20 z^{5}$ | $1 / 20 z^{5}$ | 1 oz | 1 Oz |
| Yogurt, plain or flavored, unsweetened, or sweetened - commercially prepared | 2 oz or $1 / 4$ cup | 2 oz or $1 / 4$ cup | 4 oz or 1/2 cup | 4 oz or $1 / 2$ cup | ${ }^{1}$ Minimum servings for meat $/$ meat alternate $=0.25$ ounce and for grains/breads $=1 / 4$ serving.

${ }^{2}$ Grains/Breads must be enriched or whole-grain or made from enriched or whole-grain flour or meal that may include bran and/or germ. ${ }^{3}$ Alternate protein products must meet requirements in Appendix A of 7 CFR Part 220
${ }^{5}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced

## AFTERSCHOOL SNACKS

| SELECT TWO OF THE FOUR COMPONENTS FOR A REIMBURSABLE SNACK |  |  |  |
| :---: | :---: | :---: | :---: |
| FOOD COMPONENTS AND FOOD ITEMS ${ }^{1}$ | CHILDREN <br> AGES 1 and 2 | CHILDREN AGES 3-5 | CHILDREN AGES 6-12 ${ }^{1}$ |
| Milk |  |  |  |
| Fluid milk | $4 \mathrm{fl} \mathrm{oz} \mathrm{(1/2} \mathrm{cup)}$ | $4 \mathrm{fl} \mathrm{oz} \mathrm{(1/2} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| Vegetable or Fruit ${ }^{\text {2, } 9}$ |  |  |  |
| Juice ${ }^{2,9}$, fruit, and/or vegetable | 1/2 cup | 1/2 cup | 3/4 cup |
| Grains/Breads ${ }^{\text {3,4 }}$ |  |  |  |
| Bread or | 1/2 slice | 1/2 slice | 1 slice |
| Cornbread or biscuit or roll or muffin or | 1/2 serving | 1/2 serving | 1 serving |
| Cold dry cereal ${ }^{4}$ or | $1 / 4$ cup or $1 / 30 z^{4}$ | $1 / 3$ cup or $1 / 20 z^{4}$ | $3 / 4$ cup or $10 z^{4}$ |
| Cooked cereal grains or | 1/4 cup | 1/4 cup | 1/2 cup |
| Cooked pasta or noodles | 1/4 cup | 1/4 cup | 1/2 cup |
| Meat/Meat Alternate ${ }^{\text {5, 6,7 }}$ |  |  |  |
| Lean meat or poultry or fish ${ }^{5}$ or | 1/2 oz | 1/2 oz | 102 |
| Alternate protein products ${ }^{6}$ or | 1/2 oz | 1/2 oz | 102 |
| Cheese or | 1/2 oz | 1/2 oz | 102 |
| Egg (large) or | 1/2 large egg | 1/2 large egg | 1/2 large egg |
| Cooked dry beans or peas or | 1/8 cup | 1/8 cup | 1/4 cup |
| Peanut or other nut or seed butters or | 1 Tbsp | 1 Tbsp | 2 Tbsp |
| Nuts and/or seeds ${ }^{7}$ or | $1 / 20 z^{7}$ | 1/2 oz ${ }^{\text {7 }}$ | 102 |
| Yogurt ${ }^{8}$ | 2 oz or 1/4 cup | 2 oz or $1 / 4$ cup | 4 oz or $1 / 2$ cup |

${ }^{1}$ Children age 12 and older may be served larger portions based on their greater food needs. They may not be served less than the minimum quantities listed in this column.
${ }^{2}$ Full strength vegetable and/or fruit juice or an equivalent quantity of any combination of vegetable(s), fruit(s), and juice.
${ }^{3}$ Grains/Breads must be whole-grain or enriched, or made from whole-grain or enriched flour or meal that may include bran and/or germ. Cereal must be whole-grain, enriched, or fortified.
${ }^{4}$ Either volume (cup) or weight (oz), whichever is less.
${ }^{5}$ A serving consists of the edible portion of cooked lean meat or poultry or fish.
${ }^{6}$ Alternate protein products must meet requirements in Appendix A of 7 CFR Part 210.
${ }^{7}$ Nuts and seeds are generally not recommended to be served to children ages $1-3$ since they present a choking hazard. If served, nuts and seeds should be finely minced.
${ }^{8}$ Yogurt may be plain or flavored, unsweetened, or sweetened - commercially prepared.
${ }^{9}$ Juice may not be served when milk is the only other component.

## BREAKFAST

## SERVE ALL THREE COMPONENTS FOR A REIMBURSABLE BREAKFAST

| FOOD COMPONENTS AND FOOD ITEMS | CHILDREN AGES 1 and 2 | CHILDREN AGES 3-5 | CHILDREN AGES 6-12 ${ }^{1}$ | ADULTS |
| :---: | :---: | :---: | :---: | :---: |
| Milk |  |  |  |  |
| Fluid milk | $4 \mathrm{fl} \mathrm{oz} \mathrm{(1/2} \mathrm{cup)}$ | $6 \mathrm{fl} \mathrm{oz} \mathrm{(3/4} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| Vegetable or Fruit |  |  |  |  |
| Full strength juice ${ }^{2}$, fruit, and/or vegetable | 1/4 cup | 1/2 cup | 1/2 cup | 1/2 cup |
| Grains/Breads ${ }^{3}$ |  |  |  |  |
| Bread or | 1/2 slice | 1/2 slice | 1 slice | 2 slices (servings) |
| Cornbread or biscuit or roll or muffin or | 1/2 serving | 1/2 serving | 1 serving | 2 servings |
| Cold dry cereal ${ }^{4}$ or | $1 / 4$ cup or $1 / 30 z^{4}$ | $1 / 3$ cup or $1 / 20 z^{4}$ | $3 / 4$ cup or $10 z^{4}$ | 1-1/2 cup or 2 oz ${ }^{4}$ |
| Cooked cereal grains or | 1/4 cup | 1/4 cup | 1/2 cup | 1 cup |
| Cooked pasta or noodles | 1/4 cup | 1/4 cup | 1/2 cup | 1 cup |

${ }^{1}$ Children age 12 and older may be served larger portions based on their greater food needs. They may not be served less than the minimum quantities listed in this column.
${ }^{2}$ Full strength vegetable and/or fruit juice or an equivalent quantity of any combination of vegetable(s) or fruit(s), and juice.
${ }^{3}$ Breads and grains must be enriched or whole-grain or made from enriched or whole-grain flour or meal that may include bran and/or germ. Cereal must be whole-grain or enriched or fortified.
${ }^{4}$ Either volume (cup) or weight (oz), whichever is less.

## LUNCH

## SERVE ALL FOUR COMPONENTS FOR A REIMBURSABLE LUNCH

| FOOD COMPONENTS AND FOOD ITEMS ${ }^{1}$ | CHILDREN AGES 1 and 2 | CHILDREN AGES 3-5 | CHILDREN AGES 6-12 ${ }^{1}$ | ADULTS |
| :---: | :---: | :---: | :---: | :---: |
| Milk |  |  |  |  |
| Fluid milk | 4 fl oz (1/2 cup) | $6 \mathrm{fl} \mathrm{oz} \mathrm{(3/4} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| Vegetable or Fruit ${ }^{2}$ Two or more servings of vegetables and/or fruits |  |  |  |  |
| Juice ${ }^{2}$, fruit and/or vegetable | 1/4 cup total | 1/2 cup total | 3/4 cup total | 1 cup total |
| Grains/Breads ${ }^{3}$ |  |  |  |  |
| Bread or | 1/2 slice | 1/2 slice | 1 slice | 2 slices (servings) |
| Cornbread or biscuit or roll or muffin or | 1/2 serving | 1/2 serving | 1 serving | 2 servings |
| Cooked cereal grains or | 1/4 cup | 1/4 cup | 1/2 cup | 1 cup |
| Cooked pasta or noodles | 1/4 cup | 1/4 cup | 1/2 cup | 1 cup |
| Meat/Meat Alternate ${ }^{\text {4, 5, 6, 7, } 8}$ |  |  |  |  |
| Lean meat or poultry or fish ${ }^{4}$ or | 10 O | 1-1/2 oz | $20 z$ | $20 z$ |
| Alternate protein products ${ }^{5}$ | 102 | 1-1/2 oz | $20 z$ | 20 z |
| Cheese or | 102 | 1-1/2 oz | 202 | $20 z$ |
| Egg (large) or | 1/2 large egg | 3/4 large egg | 1 large egg | 1 large egg |
| Cooked dry beans or peas or | 1/4 cup | 3/8 cup | 1/2 cup | 1/2 cup |
| Peanut or other nut or seed butters or | 2 Tbsp | 3 Tbsp | 4 Tbsp | 4 Tbsp |
| Nuts and/or seeds ${ }^{6,7}$ or | $1 / 2 \mathrm{oz}=50 \%^{7}$ | $3 / 40 z=50 \%{ }^{7}$ | $10 z=50 \%$ | $10 z=50 \%$ |
| Yogurt ${ }^{8}$ | 4 oz or 1/2 cup | 6 oz or 3/4 cup | 8 oz or 1 cup | 8 oz or 1 cup |

${ }^{1}$ Children age 12 and older may be served larger portions based on their greater food needs. They may not be served less than the minimum quantities listed in this column.
${ }^{2}$ Serve two or more kinds of vegetable(s) and/or fruit(s). Full-strength vegetable or fruit juice may be counted to meet not more than one-half of this requirement.
${ }^{3}$ Grains/breads must be whole grain or enriched, made from whole-grain or enriched flour or meal which may include bran and/or germ. Cereal must be whole-grain or enriched or fortified.
${ }^{4}$ A serving consists of the edible portion of cooked lean meat or poultry or fish.
${ }^{5}$ Alternate protein products must meet requirements in Appendix A of 7 CFR Part 226.
${ }^{6}$ Nuts and seeds may meet only one-half of the total meat/meat alternate serving and must be combined with another meat/meat alternate to fulfill the lunch requirement.
${ }^{7}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced.
${ }^{8}$ Yogurt may be plain or flavored, unsweetened, or sweetened - commercially prepared.

## SUPPER

SERVE ALL FOUR COMPONENTS FOR A REIMBURSABLE SUPPER

| FOOD COMPONENTS AND FOOD ITEMS ${ }^{1}$ | CHILDREN AGES 1 and 2 | CHILDREN AGES 3-5 | CHILDREN AGES 6-12 ${ }^{1}$ | ADULTS |
| :---: | :---: | :---: | :---: | :---: |
| Milk |  |  |  | optional |
| Fluid milk | $4 \mathrm{fl} \mathrm{oz} \mathrm{(1/2} \mathrm{cup)}$ | $6 \mathrm{fl} \mathrm{oz} \mathrm{(3/4} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| Vegetable or Fruit ${ }^{2}$ Two or more servings of different vegetables and or fruits |  |  |  |  |
| Juice ${ }^{2}$, fruit and/or vegetable | 1/4 cup total | 1/2 cup total | 3/4 cup total | 1 cup total |
| Grains/Breads ${ }^{3}$ |  |  |  |  |
| Bread or | 1/2 slice | $1 / 2$ slice | 1 slice | 2 slices (servings) |
| Cornbread or biscuit or roll or muffin or | 1/2 serving | 1/2 serving | 1 serving | 2 servings |
| Cooked cereal grains or | 1/4 cup | 1/4 cup | 1/2 cup | 1 cup |
| Cooked pasta or noodles | 1/4 cup | 1/4 cup | 1/2 cup | 1 cup |
| Meat/Meat Alternate ${ }^{\text {4, 5, 6, 7, } 8}$ |  |  |  |  |
| Lean meat or poultry or fish ${ }^{4}$ or | 10 z | 1-1/2 oz | $20 Z$ | $20 Z$ |
| Alternate protein products ${ }^{5}$ or | 10 z | 1-1/2 oz | $20 z$ | $20 z$ |
| Cheese or | 1 oz | 1-1/2 oz | $20 Z$ | $20 Z$ |
| Egg (large) or | 1/2 large egg | 3/4 large egg | 1 large egg | 1 large egg |
| Cooked dry beans or peas or | 1/4 cup | 3/8 cup | 1/2 cup | 1/2 cup |
| Peanut or other nut or seed butters or | 2 Tbsp | 3 Tbsp | 4 Tbsp | 4 Tbsp |
| Nuts and/or seeds ${ }^{6,7}$ or | $1 / 2 \mathrm{oz}=50 \%^{7}$ | $3 / 40 z=50 \%^{7}$ | $10 z=50 \%$ | $10 z=50 \%$ |
| Yogurt ${ }^{8}$ | 4 oz or 1/2 cup | 6 oz or 3/4 cup | 8 oz or 1 cup | 8 oz or 1 cup |

${ }^{1}$ Children age 12 and older may be served larger portions based on their greater food needs. They may not be served less than the minimum quantities listed in this column.
${ }^{2}$ Serve two or more kinds of vegetable(s) and/or fruit(s). Full-strength vegetable or fruit juice may be counted to meet not more than one-half of this requirement.
${ }^{3}$ Grains/Breads must be whole-grain or enriched, or made from whole-grain or enriched flour or meal that may include bran and/or germ. Cereal must be whole-grain or enriched or fortified.
${ }^{4}$ A serving consists of the edible portion of cooked lean meat or poultry or fish.
${ }^{5}$ Alternate protein products must meet requirements in Appendix A of 7 CFR Part 226.
${ }^{6}$ Nuts and seeds may meet only one-half of the total meat/meat alternate serving and must be combined with another meat/meat alternate to fulfill the supper requirement.
${ }^{7}$ Nuts and seeds are generally not recommended to be served to children ages $1-3$ since they present a choking hazard. If served, nuts and seeds should be finely minced.
${ }^{8}$ Yogurt may be plain or flavored, unsweetened, or sweetened - commercially prepared.

## SNACKS

## SELECT TWO OF THE FOUR COMPONENTS FOR A REIMBURSABLE SNACK

| FOOD COMPONENTS AND FOOD ITEMS ${ }^{1}$ | CHILDREN AGES 1 and 2 | CHILDREN AGES 3-5 | CHILDREN <br> AGES 6-12 ${ }^{1}$ | ADULTS |
| :---: | :---: | :---: | :---: | :---: |
| Milk |  |  |  |  |
| Fluid milk | $4 \mathrm{fl} \mathrm{oz} \mathrm{(1/2} \mathrm{cup)}$ | $4 \mathrm{fl} \mathrm{oz} \mathrm{(1/2} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}$ |
| Vegetable or Fruit ${ }^{\text {2, } 9}$ |  |  |  |  |
| Full strength juice ${ }^{2,9}$, fruit and/or vegetable | 1/2 cup | 1/2 cup | 3/4 cup | 1/2 cup |
| Grains/Breads ${ }^{\text {, }}{ }^{\text {4 }}$ |  |  |  |  |
| Bread or | 1/2 slice | 1/2 slice | 1 slice | 1 slice |
| Cornbread or biscuit or roll or muffin or | 1/2 serving | 1/2 serving | 1 serving | 1 serving |
| Cold dry cereal ${ }^{4}$ or | 1/4 cup or $1 / 30 z^{4}$ | $1 / 3$ cup or $1 / 20 z^{4}$ | $3 / 4$ cup or $10 z^{4}$ | $3 / 4$ cup or $10 z^{4}$ |
| Cooked cereal grains or | 1/4 cup | 1/4 cup | 1/2 cup | 1/2 cup |
| Cooked pasta or noodles | 1/4 cup | 1/4 cup | 1/2 cup | 1/2 cup |
| Meat/Meat Alternate ${ }^{5,6,7,8}$ |  |  |  |  |
| Lean meat or poultry or fish ${ }^{5}$ or | 1/2 oz | 1/2 oz | 10 O | 102 |
| Alternate protein products ${ }^{6}$ or | 1/2 02 | 1/2 02 | 102 | 102 |
| Cheese or | 1/2 oz | 1/2 oz | 102 | 102 |
| Egg (large) or | 1/2 large egg | 1/2 large egg | 1/2 large egg | 1/2 large egg |
| Cooked dry beans or peas or | 1/8 cup | 1/8 cup | 1/4 cup | 1/4 cup |
| Peanut or other nut or seed butters or | 1 Tbsp | 1 Tbsp | 2 Tbsp | 2 Tbsp |
| Nuts and/or seeds ${ }^{7}$ or | $1 / 20 z^{7}$ | $1 / 20 z^{7}$ | 10 z | 102 |
| Yogurt ${ }^{8}$ | 2 oz or 1/4 cup | 2 oz or 1/4 cup | 4 oz or 1/2 cup | 4 oz or 1/2 cup |

[^0]

| FOOD COMPONENTS AND FOOD ITEMS | BREAKFAST SERVE ALL THREE | LUNCH OR SUPPER SERVE ALL FOUR | SNACKS <br> SERVE TWO OF THE FOUR |
| :---: | :---: | :---: | :---: |
| Milk ${ }^{\text {1,2 }}$ |  |  |  |
| Fluid milk | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup})^{1}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup)}{ }^{2}$ | $8 \mathrm{fl} \mathrm{oz} \mathrm{(1} \mathrm{cup})^{1}$ |
| Vegetable or Fruit ${ }^{\text {, 4,5 }}$ |  |  |  |
| Juice, fruit and/or vegetable | $\begin{aligned} & 1 / 2 \text { cup }^{3} \\ & \text { (juice must be full-strength) } \end{aligned}$ | $3 / 4$ cup $^{4}$ total | $\begin{aligned} & 3 / 4 \text { cup }^{3,5} \\ & \text { (juice must be full-strength) } \end{aligned}$ |
| Grains/Breads ${ }^{6,7}$ |  |  |  |
| Bread or | 1 slice | 1 slice | 1 slice |
| Cornbread or biscuit or roll or Muffin or | 1 serving | 1 serving | 1 serving |
| Cold dry cereal ${ }^{7}$ or | $3 / 4$ cup or $10 z^{7}$ | N/A | $3 / 4$ cup or $10 z^{7}$ |
| Hot cooked cereal or | 1/2 cup | 1/2 cup | 1/2 cup |
| Cooked pasta or noodles or grains | 1/2 cup | 1/2 cup | 1/2 cup |
| Meat/Meat Alternate ${ }^{\text {8, 9, 10,11,12 }}$ | optional |  |  |
| Lean meat or poultry or fish ${ }^{8}$ or | 1 oz | 20 z | 102 |
| Alternate protein products ${ }^{9}$ or | 102 | 20 O | 10 O |
| Cheese or | 1 oz | 20 z | 1 oz |
| Egg (large) or | 1/2 large egg | 1 large egg | 1/2 large egg |
| Cooked dry beans or peas or | 1/4 cup | 1/2 cup | 1/4 cup |
| Peanut or other nut butters or | 2 Tbsp | 4 Tbsp | 2 Tbsp |
| Nuts and/or seeds ${ }^{11}$ or | --- | $1 \mathrm{oz}=50 \%^{10,11}$ | $10 z^{11}$ |
| Yogurt ${ }^{12}$ | 4 oz (1/2 cup) | 8 oz (1 cup) | 4 oz (1/2 cup) |

## For Breakfast or Snack, fluid milk shall be served as a beverage, or on cereal, or use part of it for each purpose.

For Lunch or Supper, fluid milk shall be used as a beverage.
Fruit or vegetable juice must be full-strength for Breakfast and Snacks.
For Lunch or Supper, serve two or more kinds of vegetable(s) and/or fruit(s). Full-strength vegetable or fruit juice may be counted to meet not more than one-half of this requirement. Juice may not be served to fulfill the supplement requirement, when milk is served as the only other component.
Grains/Breads must be enriched or whole-grain, or made from whole-grain or enriched flour or meal that may include bran and/or germ. Cereal must be whole-grain or enriched or fortified.
A serving consists of the edible portion of cooked lean meat or poultry or fish.
Alternate prot products must meet requir ifs in AppedixA of CFR Part 225.
${ }^{11}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced.
${ }^{12}$ Yogurt may be plain or flavored, unsweetened, or sweetened - commercially prepared.

## Nutrient Standard Menu Planning (NSMP) Requirements

Menus planned under the NSMP approach must meet two requirements:

1) When averaged over the school week, school lunches and school breakfasts must meet the specific age- or grade-based nutrient standards as defined in 7 CFR Parts 210.10 and 220.8; and
2) At a minimum, planned menus must contain the menu items as summarized in Chart 6 below. Additional menu items may need to be added in order to meet nutrient standards and/or to increase variety.

## Chart 6 MINIMUM REQUIRED MENU ITEMS FOR NUTRIENT STANDARD MENU PLANNING

|  | MINIMUM AMOUNTS |  |
| :--- | :--- | :--- |
| Menu Items | Lunch | Breakfast |
| Entree | 1 serving | none |
| Other menu item(s) (side dishes) | 1 serving | 2 servings |
| Fluid milk | 1 serving | 1 serving |

To Help You Use This Guide

This section contains a variety of information and reference tools, starting with a list of common abbreviations and symbols used.

Also included are tips on portion control and tables showing:
common can and jar sizes;
how to substitute one can size for another;
how to convert customary units (such as pounds and ounces) to their metric equivalents; and
how to convert parts of a unit (such as $1 / 2$ gallon or $1 / 4$ pound) to the correct decimal equivalent.

Table 1
List of Abbreviations and Symbols Used

| AP ............ as purchased | vol .............. volume |
| :---: | :---: |
| EP ............ edible portion | tsp .............. teaspoon |
| incl ............ including | Tbsp ........... tablespoon |
| excl ........... excluding | floz ............ fluid ounce |
| cyl ............. cylinder | c ................. cup |
| pkg ........... package | pt ................ pint |
| No. ............ number | qt ................ quart |
| approx. ...... approximately | gal .............. gallon |
| wt .............. weight | mL ............. milliliter |
| oz ............... ounce | L ................ liter |
| $\mathbf{l b}$.............. pound | \# ................. number |
| g ................ gram | vac .............. vacuum |
| kg .............. kilogram |  |

## Common Can and Jar Sizes

The following tables provide helpful information on 10 common can and jar sizes. Table 2 lists the average total net weight or fluid measure per can and the average volume per can. Table 3 gives information on number of cans per case and principal products.

It is important to know:

- Can sizes are industry terms and do not necessarily appear on the label.
- The net weight on can or jar labels differs according to the density of the contents. For example, a No. 10 can of sauerkraut weighs $6 \mathrm{lb} 3 \mathrm{oz}(2.81 \mathrm{~kg})$, while a No. 10 can of cranberry sauce weighs $7 \mathrm{lb} 5 \mathrm{oz}(3.32 \mathrm{~kg})$.
- No. 10 cans of the same food item may have different net weights depending on the manufacturer.
- Canned meats, fish, and shellfish are known and sold by the weight (not volume) of the contents in the can.
- The number 303 can for vegetables is no longer used by American canners. The conversion information for the 303 can remains in the following tables since some of these canned products may still be in storage. Be aware that the yield data tables have been revised; the 303 can yield data have been removed and replaced with the 300 can yield data.


Table 2
Common Can and Jar Sizes
Average Net Weight or Fluid Measure and Average Volume Per Can

| Can Size | Average Net Weight or Fluid Measure per Can |  | Average Volume per Can |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Customary | Metric | Cups | Liters |
| No. 10 | $\begin{aligned} & 6 \mathrm{lb}(96 \mathrm{oz}) \text { to } \\ & 7 \mathrm{lb} 5 \mathrm{oz}(117 \mathrm{oz}) \end{aligned}$ | $\begin{aligned} & 2.72 \mathrm{~kg} \text { to } \\ & 3.31 \mathrm{~kg} \end{aligned}$ | 12 cups to 13-2/3 cups | $\begin{aligned} & 2.84 \mathrm{~L} \text { to } \\ & 3.24 \mathrm{~L} \end{aligned}$ |
| No. 3 Cyl | $\begin{aligned} & 51 \mathrm{oz}(3 \mathrm{lb} 3 \mathrm{oz}) \text { or } \\ & 46 \mathrm{floz}(1 \mathrm{qt} 14 \mathrm{floz}) \end{aligned}$ | $\begin{aligned} & 1.44 \mathrm{~kg} \text { or } \\ & 1.36 \mathrm{~L} \end{aligned}$ | 5-3/4 cups | 1.36 L |
| No. 2-1/2 | $\begin{aligned} & 26 \mathrm{oz}(1 \mathrm{lb} 10 \mathrm{oz}) \text { to } \\ & 30 \mathrm{oz}(1 \mathrm{lb} \mathrm{14oz}) \end{aligned}$ | $\begin{aligned} & 737 \mathrm{~g} \text { to } \\ & 850 \mathrm{~g} \end{aligned}$ | 3-1/2 cups | 0.83 L |
| No. 2 Cyl | 24 floz | 709 mL | 3 cups | 0.71 L |
| No. 2 | $20 \mathrm{oz}(1 \mathrm{lb} 4 \mathrm{oz})$ or <br> $18 \mathrm{floz}(1 \mathrm{pt} 2 \mathrm{floz})$ | $\begin{aligned} & 567 \mathrm{~g} \text { or } \\ & 532 \mathrm{~mL} \end{aligned}$ | 2-1/2 cups | 0.59 L |
| No. 303 <br> (old) | $\begin{aligned} & 16 \mathrm{oz}(1 \mathrm{lb}) \text { to } \\ & 17 \mathrm{oz}(1 \mathrm{lb} 1 \mathrm{oz}) \end{aligned}$ | $\begin{aligned} & 453 \mathrm{~g} \text { to } \\ & 481 \mathrm{~g} \end{aligned}$ | 2 cups | 0.47 L |
| No. 300 (new) | $\begin{aligned} & 14 \mathrm{oz} \text { to } \\ & 16 \mathrm{oz}(1 \mathrm{lb}) \end{aligned}$ | $\begin{aligned} & 396 \mathrm{~g} \text { to } \\ & 453 \mathrm{~g} \end{aligned}$ | 1-3/4 cups | 0.41 L |
| No. 2 <br> (Vacuum) | 12 oz | 340 g | 1-1/2 cups | 0.36 L |
| No. 1 (Picnic) | $\begin{aligned} & 10-1 / 2 \text { oz to } \\ & 12 \mathrm{oz} \end{aligned}$ | $\begin{aligned} & 297 \mathrm{~g} \text { to } \\ & 340 \mathrm{~g} \end{aligned}$ | 1-1/4 cups | 0.30 L |
| 8 oz | 8 oz | 226 g | 1 cup | 0.24 L |

## Table 3

## Common Can and Jar Sizes

## Cans Per Case and Principal Products

| Can Size | Cans per Case | Principal Products |
| :--- | :--- | :--- |
| No. 10 | 6 cans per case | Institutional size: <br> Fruits, vegetables, some other foods |
| No. 3 Cyl | 12 cans per case | Institutional size: <br> Condensed soups, some vegetables, <br> meat and poultry products, fruit and <br> vegetable juices |
| No. 2-1/2 | 24 cans per case | Family size: <br> Fruits, some vegetables |
| No. 2 Cyl | 24 cans per case | Family size: <br> Juices, soups |
| No. 2 | 24 cans per case | Family size: <br> Juices, ready-to-serve soups, some fruits |
| No. 303 <br> (old) | 24 or 36 cans |  |
| per case | Small cans: <br> Fruits and vegetables, some meat and <br> poultry products, ready-to-serve soups |  |
| No. 300 <br> (new) | 24 cans per case | Small cans: <br> Some fruits and meat products |
| No. 2 <br> (Vacuum) | 24 cans per case | Small cans: <br> Principally vacuum-packed corn |
| No. 1 <br> (Picnic) | 48 cans per case | Small cans: <br> Condensed soups, some fruits, vegetables, <br> meat, fish |
| 8 oz | 48 or 72 cans | Small cans: <br> Ready-to-serve soups, fruits, vegetables |
| per case |  |  |

Figure 1
Can Size Template
Lie a can on its side directly on this actual size template to help you determine what size can it is.

## Dimensional Food Can Standards

## Height



Figure 2

## Can Size Template

Position the top side of a can directly on this actual size template to help you determine what size can it is.

## Dimensional Food Can Standards

## Diameter



## Substituting Can Sizes

As you plan menus and make purchasing decisions, you may sometimes want to use a different size can than the ones listed in this guide.

For example, you might have several No. 2 cans of wax beans in inventory you would like to use. The Food Buying Guide lists yield information for this product in No. 2-1/2 cans. On page 2-2, you will see that for 100 servings of heated, drained vegetable, you would need 7.8 No. 2-1/2 cans. How will you know how many No. 2 cans to use for 100 servings?

## Table 4 makes substitutions easy. To use this table:

Read across the top to find the column that begins with the can size you have. In the example above, you would see that No. 2 is listed in the fourth column.

Read down the rows listed under "Can Size In Yield Table." Find the can size for which you want to make the substitution. In the example above, you would read down the third row to find No. 2-1/2.

Find where the column and the row intersect and note the figure listed. This tells you how many cans you will need to make the substitution. In the example above, you would note that " 1.5 " is shown where the fourth column and third row intersect.

## For the example above, this tells you:

In place of each No. 2-1/2 can, you would need to use 1.5 No. 2 cans.
To answer how many No. 2 cans you would need for 100 servings of wax beans: 1) Multiply the number of $2-1 / 2$ cans needed for 100 servings (7.8) times the number of size 2 cans needed to substitute for one $2-1 / 2$ can (1.5).

Calculation: 7.8 multiplied by 1.5 equals 11.7
Therefore, if you need 7.8 No. 2-1/2 cans for 100 servings, you would need 11.7 No. 2 cans for the same 100 servings. Keep in mind that you will have to open 12 cans.

Table 4
A Guide for Substituting Cans

|  | CAN SIZE YOU HAVE |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| CAN SIZE IN <br> YIELD TABLE | No. 10 | No. 3Cy1 | No. 2-1/2 | No. 2 | No. 303 | No. 300 |
| No. 10 | 1.0 | 2.1 | 3.7 | 5.3 | 6.5 | 7.4 |
| No. 3 Cyl | 0.5 | 1.0 | 1.8 | 2.6 | 3.1 | 3.3 |
| No. 2-1/2 | 0.3 | 0.6 | 1.0 | 1.5 | 1.8 | 2.0 |
| No. 2 | 0.2 | 0.4 | 0.7 | 1.0 | 1.3 | 1.5 |
| No. 303 (old) | 0.2 | 0.3 | 0.6 | 0.8 | 1.0 | 1.2 |
| No. 300 (new) | 0.1 | 0.3 | 0.5 | 0.7 | 0.9 | 1.0 |

## Decimal Equivalents

The following four tables will help you convert units of weight and measurement to their decimal equivalents or convert decimal equivalent to measurable or weighable units.

Table 5 lists ounces and their decimal equivalents in pounds.
Table 6 lists common fractions and their number equivalent in decimal form. Use this table as a quick reference when you need to convert a commonly used fraction into numbers.

Table 7 lists numbers in decimal form and converts and rounds them down to the correct fraction of a cup for crediting vegetables/fruits servings.

Table 8 shows decimal equivalents for fractions of pounds, cups, and gallons.
These can be listed in the same table because each breaks down into 16 parts. For example, just as there are 16 ounces in a pound, there are also 16 tablespoons in a cup, and 16 cups in a gallon.

Table 5
Decimal Weight Equivalents

| Ounces | Pounds | Ounces | Pounds |
| :---: | :---: | :---: | :---: |
| $1 \mathrm{oz}=$ | 0.06 lb | $16 \mathrm{oz}=$ | 1.00 lb |
| $2 \mathrm{oz}=$ | 0.12 lb | $32 \mathrm{oz}=$ | 2.00 lb |
| $3 \mathrm{oz}=$ | 0.19 lb | $35 \mathrm{oz}=$ | 2.19 lb |
| $4 \mathrm{oz}=$ | 0.25 lb | $48 \mathrm{oz}=$ | 3.00 lb |
| $5 \mathrm{oz}=$ | 0.31 lb | $64 \mathrm{oz}=$ | 4.00 lb |
| $6 \mathrm{oz}=$ | 0.38 lb | $71 \mathrm{oz}=$ | 4.44 lb |
| $7 \mathrm{oz}=$ | 0.44 lb | $80 \mathrm{oz}=$ | 5.00 lb |
| $8 \mathrm{oz}=$ | 0.50 lb | $96 \mathrm{oz}=$ | 6.00 lb |
| $9 \mathrm{oz}=$ | 0.56 lb | $106 \mathrm{oz}=$ | 6.63 lb |
| $10 \mathrm{oz}=$ | 0.62 lb | $112 \mathrm{oz} \mathrm{=}$ | 7.00 lb |
| $11 \mathrm{oz}=$ | 0.69 lb | $128 \mathrm{oz}=$ | 8.00 lb |
| $12 \mathrm{oz}=$ | 0.75 lb | $141 \mathrm{oz} \mathrm{=}$ | 8.82 lb |
| $13 \mathrm{oz}=$ | 0.81 lb | $144 \mathrm{oz}=$ | 9.00 lb |
| $14 \mathrm{oz}=$ | 0.88 lb | $160 \mathrm{oz} \mathrm{=}$ | 10.00 lb |
| $15 \mathrm{oz}=$ | 0.94 lb |  |  |

Table 6

## Decimal Equivalents of Commonly Used Fractions

| $1 / 8=0.125$ | $1 / 3=0.333$ | $2 / 3=0.666$ |
| :---: | :---: | :---: |
| $1 / 4=0.250$ | $1 / 2=0.500$ | $3 / 4=0.750$ |
| $3 / 8=0.375$ | $5 / 8=0.625$ | $7 / 8=0.875$ |

Use Table 7 to assist in rounding the decimal equivalent of a vegetables/fruits serving to the correct creditable volume towards the vegetables/fruits meal pattern component. The decimal equivalent is not fluid ounces but the fraction of a cup as determined by crediting calculations.

For example, a recipe analysis calculation determined that one portion of a recipe provides 0.68 cups of vegetables/fruits. Based on Table 7, you can count 5/8 cup vegetable towards the vegetables/fruits meal pattern component since 0.68 is between 0.625 and 0.749 . Keep in mind that two or more servings of different vegetables and/or fruits must be served to meet the vegetable/fruit requirement at lunch and/or supper.

Table 7
Converting Decimal Equivalents to the Nearest Portion of a Cup for Fruits and Vegetables
If decimal equivalent is: the recipe contributes:

| $0.125-.249$ | $1 / 8$ cup |
| :--- | :--- |
| $.250-.374$ | $1 / 4$ cup |
| $.375-.499$ | $3 / 8$ cup |
| $.500-.624$ | $1 / 2$ cup |
| $.625-.749$ | $5 / 8$ cup |
| $.750-.874$ | $3 / 4$ cup |
| $.875-.999$ | $7 / 8$ cup |
| $1.000-1.124$ | 1 cup |

## Using Table 8 to Calculate Fractions of a Unit

EXAMPLES:

Cups to Gallons: You want to convert 10-1/2 cups to the equal volume amount of gallons in decimal form.

1. Find the whole number unit in the left-hand column.

For this example, the whole number is " 10 ". Find " 10 " in the Number of Units column on the left of the table.
2. Follow this line across the table towards the right to the column headed " $+1 / 2$ unit." Read the decimal number.

Going right from the number " 10 " and stopping under the heading " $+1 / 2$ unit," the decimal number reads 0.66 .

ANSWER: $10-1 / 2$ cups is equal to 0.66 gallons.

Gallons to Cups: Your recipe calls for 0.53 gallons of an ingredient. You want to know the equal volume amount in cups.

1. Find .53 in the body of the table under the "fraction or part of the unit" columns.

For this example, .53 can be found under the " $+1 / 2$ unit" 9 rows down.
2. Follow this line across the table towards the left. Read the number in the "Number of Units" column.

The Number of Units corresponding to . 53
(which is under the " $+1 / 2$ unit" column) reads " 8 ."
3. Combine the whole unit number from the "Number of Units" column with the fraction listed in the "Fraction or part of the unit" column corresponding to the .53 number.

$$
\begin{aligned}
\text { The whole number } & =8 \\
\text { The fraction of a number } & =+1 / 2 \\
\text { Combining these numbers } & =8-1 / 2
\end{aligned}
$$

ANSWER: 0.53 gallons is equal to $8-1 / 2$ cups.

Table 8

## Decimal Equivalents for Fractions of a Unit

Whole units are on the left. The fraction or part of the unit is to the right.

If the whole units are: ounces $\qquad$ tablespoons. $\qquad$ cups $\qquad$
the decimal equivalents are part of:
1 pound
1 cup
1 gallon

FRACTION OR PART OF THE UNIT

| NUMBER OF UNITS |  | $\begin{gathered} +1 / 4 \\ \text { of unit } \end{gathered}$ | $\begin{aligned} & +1 / 3 \\ & \text { of unit } \end{aligned}$ | $\begin{aligned} & +1 / 2 \\ & \text { of unit } \end{aligned}$ | $\begin{aligned} & +2 / 3 \\ & \text { of unit } \end{aligned}$ | $\begin{gathered} +3 / 4 \\ \text { of unit } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | ------ | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 |
| 1 | 0.06 | . 08 | . 08 | . 09 | . 10 | . 11 |
| 2 | . 12 | . 14 | . 15 | . 16 | . 17 | . 17 |
| 3 | . 19 | . 20 | . 21 | . 22 | . 23 | . 23 |
| 4 | . 25 | . 27 | . 27 | . 28 | . 29 | . 30 |
| 5 | . 31 | . 33 | . 33 | . 34 | . 35 | . 36 |
| 6 | . 38 | . 39 | . 40 | . 41 | . 42 | . 42 |
| 7 | . 44 | . 45 | . 46 | . 47 | . 48 | . 48 |
| 8 | . 50 | . 52 | . 52 | . 53 | . 54 | . 55 |
| 9 | . 56 | . 58 | . 58 | . 59 | . 60 | . 61 |
| 10 | . 62 | . 64 | . 65 | . 66 | . 67 | . 67 |
| 11 | . 69 | . 70 | . 71 | . 72 | . 73 | . 73 |
| 12 | . 75 | . 77 | . 77 | . 78 | . 79 | . 80 |
| 13 | . 81 | . 83 | . 83 | . 84 | . 85 | . 86 |
| 14 | . 88 | . 89 | . 90 | . 91 | . 92 | . 92 |
| 15 | . 94 | . 95 | . 96 | . 97 | . 98 | . 98 |
| 16 | 1.00 | 1.02 | 1.02 | 1.03 | 1.04 | 1.05 |

## Metric Equivalents

Metric quantities are increasingly used for food processing, packaging, and specification writing. The following four tables will help you become familiar with the relationship between metric units (Tables 9, 10 and 11) and customary units (Table 12).

Table 9 is a guide to metric conversions showing, for example, how to change ounces to grams by multiplying by 28.35 . Table 10 shows metric equivalents by weight. Table 11 shows metric equivalents by volume. Table 12 shows customary units for volume.

Note: For Tables 11 and 12, keep in mind that volume is measured in fluid ounces and liters.

Table 9
A Guide to Metric Conversions

| To change | To | Multiply by |
| :--- | :--- | :--- |
| ounces (oz) | grams (g) | 28.35 |
| pounds (lb) | grams (g) | 453.6 |
| pounds (lb) | kilograms (kg) | 0.4536 |
| teaspoons (tsp) | milliliters (mL) | 4.93 |
| tablespoons (Tbsp) | milliliters (mL) | 14.79 |
| fluid ounces (fl oz) | milliliters (mL) | 29.57 |
| cups (c) | liters (L) | 0.236 |
| pints (pt) | liters (L) | 0.473 |
| quarts (qt) | liters (L) | 0.946 |
| gallons (gal) | liters (L) | 3.785 |

Table 10
Metric Equivalents by Weight

| Customary Unit (avoirdupois) | Metric Unit |
| :---: | :---: |
| Ounces (oz) | Grams (g) |
| 1 oz ............................................. | 28.35 g |
| 4 oz ............................................. | 113.4 g |
| $8 \mathrm{oz} \mathrm{............................................}$. | 226.8 g |
| $16 \mathrm{oz} \mathrm{.........................................}$. | 453.6 g |
| Pounds (lb) | Grams (g) |
|  | 453.6 g |
|  | 907.2 g |
| Pounds (lb) | Kilograms (kg) |
|  | $1 \mathrm{~kg}(1000 \mathrm{~g})$ |



Table 11
Metric Equivalents by Volume

| Customary Unit (fluid ounces) | Metric Unit |
| :---: | :---: |
| $1 \operatorname{cup}(8 \mathrm{fl} \mathrm{oz}$ ) ................................ | 236.59 milliliters (mL) |
| 1 quart (32 fl oz) ............................. | 946.36 milliliters (mL) |
| 1.5 quarts (48 fl oz) ......................... | 1.42 liter (L) |
| 33.818 fl oz................................... | 1.0 liter (L) |

Table 12
A Guide to Volume Equivalents for Liquids

| 1 tablespoon | $=3$ teaspoons | $=0.5$ fluid ounces |
| :---: | :---: | :---: |
| 1/8 cup | $=2$ tablespoons | = 1 fluid ounce |
| 1/4 cup | $=4$ tablespoons | $=2$ fluid ounces |
| 1/3 cup | = 5-1/3 tablespoons | $=2.65$ fluid ounces |
| 3/8 cup | $=6$ tablespoons | $=3$ fluid ounces |
| 1/2 cup | $=8$ tablespoons | $=4$ fluid ounces |
| 5/8 cup | $=10$ tablespoons | $=5$ fluid ounces |
| 2/3 cup | $=10-2 / 3$ tablespoons | $=5.3$ fluid ounces |
| 3/4 cup | $=12$ tablespoons | $=6$ fluid ounces |
| 7/8 cup | $=14$ tablespoons | $=7$ fluid ounces |
| 1 cup | = 16 tablespoons | = 8 fluid ounces |
| 1/2 pint | = 1 cup | $=8$ fluid ounces |
| 1 pint | $=2 \mathrm{cups}$ | = 16 fluid ounces |
| 1 quart | $=2$ pints | $=32$ fluid ounces |
| 1 gallon | $=4$ quarts | $=128$ fluid ounces |
| 1 peck | $=8$ quarts (dry) |  |
| 1 bushel | $=4$ pecks |  |

Careful portioning is an important part of any food service operation. It helps to ensure that each serving will be the appropriate size and that a recipe will produce the expected yield (see page I-3 for definitions of yield).

Scoops or dishers, ladles, and measuring-serving spoons of standard sizes are fairly dependable measures for portioning by volume and serving food quickly. Below is portion information on each. Remember, whichever measuring utensil you choose, it must be filled level with the top to maintain equal portioning for each measure.

## Scoops, Dishers, or Dippers

Scoops (sometimes called dishers or dippers) are useful for portioning specific volumes of foods such as drop cookies, muffins, meat patties, and some vegetables and salads.

The number on the scoop tells you how many scoopfuls make 1 quart ( 946 milliliters). The higher the number the smaller the scoop. For example, a Number 24 scoop is smaller than a Number 6 scoop, because it takes more scoopfuls to
 make 1 quart.

Table 13 (below) shows the approximate measure of each scoop or disher in cups, tablespoons, and teaspoons. (Remember, the same volume of different foods will not all weigh the same. If you want to measure by weight, use a scale.)

Table 13
Sizes and Capacities of Scoops (Dishers)

| Number On Scoop (Disher) | Level Measure |
| :---: | :--- |
| $\mathbf{6}$ | $2 / 3 \mathrm{cup}$ |
| 8 | $1 / 2 \mathrm{cup}$ |
| $\mathbf{1 0}$ | $3 / 8 \mathrm{cup}$ |
| $\mathbf{1 2}$ | $1 / 3 \mathrm{cup}$ |
| 16 | $1 / 4 \mathrm{cup}$ |
| $\mathbf{2 0}$ | $3-1 / 3$ tablespoons |
| 24 | $2-2 / 3$ tablespoons |
| 30 | 2 tablespoons |
| 40 | $1-2 / 3$ tablespoons |
| $\mathbf{5 0}$ | $3-3 / 4$ teaspoons |
| $\mathbf{6 0}$ | $3-1 / 4$ teaspoons |
| 70 | $2-3 / 4$ teaspoons |
| $\mathbf{1 0 0}$ | 2 teaspoons |

## Ladles

Table 14 shows the approximate measure for the six ladle sizes most frequently used in serving school lunches.

Ladles are useful for serving soups, stews, creamed dishes, sauces, gravies, and other similar liquid products.

The higher the number on a ladle, the larger its size. For example, a ladle marked "2 ounce" is twice as large as a ladle marked "1 ounce."

Ladles are not labeled "fluid ounce," although this would be more accurate since they measure volume, not weight.

Table 14

## Sizes and Capacities of Ladles

| Number <br> On Ladle | Approximate <br> Measure |
| :--- | :--- |
| $\mathbf{1}$ ounce | $1 / 8$ cup |
| $\mathbf{2}$ ounce | $1 / 4$ cup |
| 4 ounce | $1 / 2$ cup |
| $\mathbf{6}$ ounce | $3 / 4$ cup |
| 8 ounce | 1 cup |
| $\mathbf{1 2}$ ounce | $1-1 / 2$ cups |

## Measuring-Serving Spoons

Measuring-serving spoons are volume-standardized serving spoons identified for a specific volume measure. They are similar to a ladle, scoop, disher, or dipper in that they can be used to measure specific volumes of food but they are shaped like a serving spoon (solid or perforated.)

As with ladles, they are labeled in ounces but not in fluid ounces which would be more accurate since they measure volume, not weight.

Table 15
Sizes and Capacities of Measuring-Serving Spoons

| Size of Measuring/ <br> Serving Spoon | Approximate <br> Measure |
| :--- | :--- |
| 2 oz | $1 / 4 \mathrm{cup}$ |
| 3 oz | $3 / 8 \mathrm{cup}$ |
| 4 oz | $1 / 2 \mathrm{cup}$ |
| $\mathbf{6 o z}$ | $3 / 4 \mathrm{cup}$ |
| 8 oz | 1 cup |

## Serving spoons

Serving spoons (solid or perforated) may be used instead of scoops for variation in portion shapes. However, it is more difficult to ensure correct
portioning. Since serving spoons are not standardized measuring devices, they are not identified and labeled by number.

When using serving spoons, some extra steps are needed to ensure accurate portioning. Before using a particular serving spoon for portioning, 1) measure or weigh the quantity of food the spoon holds, and 2) determine how full to fill the serving spoon. Then determine how many spoonfuls will be needed for the required serving size.

Explanation of Food Buying Guide

On the following pages, you will find answers to the following questions, along with some helpful examples.

## How are the foods in this guide listed and grouped?

## What information do the yield data tables provide?

## How can you use the yield data?

## How are the foods in this guide listed and grouped?

The foods in this guide are listed as individual food items. The foods are arranged alphabetically with in the appropriate food component from the Child Nutrition Meal Patterns. (These patterns are shown in Charts 1 through 6, pages I-7 through I-27.)

For example, if you were looking for information:
on beef, you would look in Section 1: Meats and Meat Alternates;
on sweet potatoes, in Section 2: Vegetables and Fruits;
on cereals, in Section 3: Grains/Breads;

- on milk, in Section 4: Milk;
on hominy, in Section 5: Other Foods.

The foods in Section 5: Other Foods do not meet the requirement for any component in the meal patterns. They are foods frequently used as additional foods, condiments or seasonings to increase menu appeal, improve acceptability, and provide additional calories and nutrients to help meet children's nutritional needs. The Other Foods section is provided to assist you in purchasing these types of foods.

If you are not sure under which component a food is listed, the complete index at the end of the guide will direct you to the correct page.

## What information do the yield tables provide?

Using a six-column format, the yield data tables provide the following information:

1. Food As Purchased, AP
2. Purchase Unit
3. Servings per Purchase Unit, EP (Edible Portion)
4. Serving Size per Meal Contribution
5. Purchase Units for $\mathbf{1 0 0}$ Servings
6. Additional Information

| Food As |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | 4 Serving Size per | Purchase | Additional <br> Units for |

## Additional details on each of these columns include:

Column 1 - Food As Purchased, AP: tells you the name of the food item and the form(s) in which it is purchased. Individual foods are arranged in alphabetical order by type of food. For instance, ham is listed under Pork, mild cured. Within each type, foods are listed according to the forms in which they appear in the market - fresh, canned, frozen, or dehydrated.

Where appropriate, Column 1 also includes a detailed description of the form in which items are purchased. For example, one listing for canned, boned chicken, reads: Cbicken, canned: Boned poultry with broth. The listing for fresh beets reads: Beets, fresh: Without tops.

Column 2 - Purchase Unit: tells you the basic unit of purchase for the food. For most foods, the guide lists "Pound" as the purchase unit.

For some processed foods, the guide lists an institutional pack and, in many cases, a smaller pack, along with the net weight of the pack's contents. For example, the listing for canned asparagus cuts and tips, includes information on two can sizes: No. 10 can (103 oz) and No. 300 can (14-1/2 oz).

You can use data on the 1-pound unit of purchase, together with Table 2 Common Can and Jar Sizes, to determine the number of servings for any size purchase unit available in the market. (Table 2 is on page I-30.)

Column 3 - Servings per Purchase Unit, EP (Edible Portion): shows the number of servings of a given size (found in Column 4) from each purchase unit (found in Column 2). It is based on average yields from good quality foods prepared in ways that result in a minimum of waste.

For example, the purchase unit for fresh cranberries is listed as 1 pound. Column 3 indicates 15.6 servings per purchase unit if $1 / 4$ cup raw, chopped fruit (Column 4 ) is served. This tells us we can expect to obtain $15.61 / 4$-cup servings from 1 pound of good quality fresh cranberries.

Where applicable, numbers have been carried to one decimal, such as 15.6 in this example, because fractions become significant when figuring large numbers of servings. (It is for this reason, and not because the figures represent this degree of accuracy, that they have been reported to the nearest 0.01 of a serving for less than 10 servings per purchase unit.)

How can you use the Yield Data?

Numbers reported in this column have sometimes been rounded down in order to help ensure enough food for the desired number of servings. In other words, 15.65 became 15.6 instead of 15.7 so that more, rather than less, food will be purchased.

Column 4 - Serving Size per Meal Contribution: describes a serving by weight, measure, or number of pieces or slices. Sometimes both measure and weight are given, or the measure and number of pieces or slices.

Items such as a piece of cooked chicken are given an approximate serving size in measure, with weight in parentheses. For example, for 3.7 oz raw chicken drumsticks, Column 4 reads: 1 drumstick (about 1.8 oz cooked chicken with skin).

For foods specified in the meal patterns, the serving size given in this column can be credited toward meeting the meal pattern requirements. For many fruits and vegetables, both pieces and 1/4-cup servings are included.

Column 5 - Purchase Units for 100 Servings: shows the number of purchase units you need for 100 servings. This number was calculated using the purchase unit listed in Column 2 and the serving size (by weight) listed in Column 4. Numbers in Column 5 have been rounded up to help ensure enough food is available for one hundred servings.

Column 6 - Additional Information: provides other information to help you calculate the amount of food you need to purchase and/or prepare.

For many food items, this column shows the quantity of ready-to-cook or cooked food you will get from a pound of food as purchased. For instance, it tells you 1 pound of fresh, whole, 125-138 count apples will yield 0.78 pounds of raw, cored, peeled, ready-to-cook or -serve apples.

For many processed foods, this column also gives the weight or number of cups of drained vegetable or fruit from various can sizes. For example, for carrots, canned, sliced, No. 10 can, Column 6 tells you that one No. 10 size can provides about $9-1 / 4$ cups of heated, drained sliced carrots.

The data in the yield tables can help you in a variety of ways as you plan menus, make purchasing decisions, and check to make sure meals will meet Child $\mathrm{Nu}-$ trition Program requirements.

On the following pages is an easy-to-follow guide. Through a variety of practical examples, it shows you how to:

Determine number of purchase units needed to obtain the desired number of servings of a particular food.

Working with the Food Buying Guide

Adjust portion sizes and calculate servings to meet the basic minimum requirements.
Calculate the quantity of food to buy to obtain the correct amount of ready-to-cook food for a recipe.
Determine correct yields for foods purchased prepared and ready-to-cook or -use. This is especially useful for fresh fruits and vegetables.
Make cost comparisons.

## Calculating how much food you need for a given number of servings

The methods and examples on the following pages illustrate how you might use the yield data tables for a particular purpose.

Foods are most often purchased in case lots. Keep in mind that the purchase amount may differ from the calculated amount to prepare a menu item.

- Always round $u p$ when calculating how much food to buy.

Always round down when calculating the creditable component towards meeting a meal pattern requirement.

To calculate how much of any food to purchase you should begin by asking yourself the following questions:

How many servings will I need?
Will different serving sizes be used for various age/grade groupings?
What is my planned serving size for this food?
In what form will I purchase this food?

- What serving size is listed in Column 4?
- Is the listed serving size the same as my planned serving size?
- How many purchase units of the food will I need to buy?



## Page Examples Description

## Method 1 - Using Column 3

Variation 1 - No conversion of serving size needed

I-51
I-52

I-53
I-54
I-56
I-57
I-58
I-59
A. Carrot slices, cooked
B. Ground beef, commodity

Variation 2 - Conversion of serving size required
C. Roast beef - round, without bone
D. Baked beans, vegetarian, canned
E. Crinkle cut fries, ovenable
F. Nut butters (including peanut butter)
G. Eggs, large, shell, fresh
H. Cereals and cereal grains

## Method 2 - Using Column 5

A. Meatloaf
B. Green beans, frozen, cut
C. Converting Column 5 yield data

## Method 3 - Using Column 6

I-63 A. Broccoli, fresh, ready-to-cook
I-64
B. Iceberg lettuce, fresh shredded

How to make cost comparisons
I-65 A. Comparing cost of cut green beans

## Method 1—

Using
Column 3

General Procedure: Divide the number of servings you need by the number of servings you will get from one purchase unit (pound, can, etc.)
(Column 3).
Examples A and B show you how to calculate the number of purchase units needed to obtain the desired number of servings of a particular food. The serving size you are planning to serve is the same as the serving size listed in Column 4 of this Food Buying Guide. No conversion of the serving size is needed.

Examples C through H show you how to calculate the number of purchase units needed to obtain the desired number of servings of a particular food. The serving size(s) you are planning are not the same as the serving size(s) listed in the Food Buying Guide. Conversion of the serving size is required.

## Method 1 Example A: Carrot Slices, Cooked

You are planning to serve $1 / 4$-cup servings of steamed carrot slices. You will be purchasing frozen, sliced carrots. How many pounds of frozen, sliced carrots will you need to buy?

1: Estimate the number of servings of the prepared food you will need.
You estimate that you will need 195 1/4-cup servings of cooked carrot slices.
2: Locate the food in the Food Buying Guide in the form you intend to serve.
For the listing Carrots, frozen, sliced (found in Column 1, page 2-31) you look for:

Cooked vegetable (found in Column 4)
3: Check the serving size listed in Column 4. Compare this to your planned serving size.
Column 4 reads: $1 / 4$ cup cooked, drained vegetable
This is the same as your planned serving size to all students, so no conversion is needed. (Examples C through H show what to do when conversion is needed.)

4: Refer to Column 2 to find the purchase unit. Refer to Column 3 for the number of servings you will get per purchase unit.

Column 2 reads: Pound
Column 3 reads: 9.87
5: Divide the number of servings needed by the number of servings you will get per purchase unit (Column 3.)
Number of servings needed $=195$
Servings per purchase unit $=9.87$
195 divided by $9.87=19.75$
6: Round up to 20.0 lb to ensure enough food is available.
ANSWER: You will need 20.0 pounds of frozen, sliced carrots for 195 1/4-cup servings of cooked, sliced carrots.

## Method 1 Example B: Ground Beef, USDA Commodity (not more than $16 \%$ fat)

You are planning to serve $1-1 / 2$ ounce portions of cooked ground beef. How many purchase units of frozen ground beef, USDA Commodity, not more than $16 \%$ fat, do you need to buy?

1: Estimate the number of servings of the prepared food you will need.
You estimate that you will need 601-1/2 ounce servings
2: Locate the food in the Food Buying Guide in the form you intend to purchase (Column 1), then locate the form of the food you intend to serve (Column 4).
For the listing Ground Beef, USDA Commodity, not more than $16 \%$ fat, you will need to use the yield data for ground beef, not more than $20 \%$ fat (found in Column 1, page 1-16) you look for:
Cooked lean meat (found in Column 4)
3: Check the serving size listed in Column 4. Compare this to your planned serving size.

Column 4 reads:
$1-1 / 2$ ounces cooked lean meat


This is the same as your planned serving size, so no conversion is needed. (Examples C through H show what to do when conversion is needed.)

4: Refer to Column 2 to find the purchase unit. Refer to Column 3 for the number of servings you will get per purchase unit.
Column 2 reads: Pound
Column 3 reads: 7.89
5: Divide the number of servings needed by the number of servings you will get per purchase unit.
Number of servings needed $=60$
Servings per purchase unit $=7.89$
60 divided by $7.89=7.60$
6: Round up to 7.75 lb to ensure enough food is available.
ANSWER: You will need 7-3/4 pounds of USDA Commodity ground beef, not more than $16 \%$ fat, for 60 1-1/2 oz servings of cooked ground beef.

For multiple serving sizes of meat, poultry, fish, or cheese multiply the number of people to be served times each serving size in ounces to get the ounces needed. Add the results to get the total ounces needed.

Method 1 Example C: Beef Round Roast, without bone

You are planning to serve boneless, cooked roast beef to 75 students of different grade levels. How many pounds of raw beef round roast, without bone, will you need?

1: Estimate the number of servings and the serving size of the prepared food for each age/grade.
You estimate that of the 75 planned servings, 45 will be served 1-1/2 ounces each and 30 will be served 2 ounces each.

2: Locate the food in the Food Buying Guide in the form you intend to purchase (Column 1), then locate the food in the form you intend to serve (Column 4).
For the listing "Beef, round roast, without bone" (found in Column 1 on page 1-18) you look for:
Cooked lean meat (found in Column 4)
3: Check the serving sizes listed in Column 4. Compare this to your planned serving sizes.

Column 4 reads: 1 ounce cooked lean meat and $1-1 / 2$ ounce cooked lean meat
Since there is no serving size for 2 ounces of cooked lean meat, a conversion is needed.

4: Calculate the total ounces of cooked lean meat needed.
45 servings X $1.5 \mathrm{oz}=67.5$ ounces
30 servings $\mathrm{X} 2.0 \mathrm{oz}=\underline{60.0 \text { ounces }}$
127.5 ounces total cooked lean meat

You need a total of 127.5 ounces of cooked lean meat. Since this total is in units of 1 ounce, you can now use the serving size of 1 ounce cooked lean meat as found in Column 4.

5: Refer to Column 2 to find the purchase unit. Refer to Column 3 for the number of servings you will get per purchase unit.
Column 2 reads: Pound
Column 3 reads: 9.76

6: Divide the total number of ounces needed by the number of servings you will get per purchase unit. (Column 3)
Number of total ounces needed $=127.5$
Servings per purchase unit $=9.76$
127.5 divided by $9.76=13.06$

7: Round up to 13.25 lb to ensure enough food is available.
ANSWER: You will need 13-1/4 pounds of raw beef round roast without bone, for the required serving sizes for 75 people.

For multiple serving sizes of cooked dry beans or peas convert each serving size to the number of $1 / 4$-cup servings needed. This is done by dividing each serving size by $1 / 4$ and multiplying the result by the number of people to be served.

If you prefer working with decimals instead of fractions, see Table 6 on page I-37.
For multiple serving sizes, convert each one to $1 / 4$-cup servings and add the results to obtain the total 1/4-cup servings.
If you are crediting beans as the meat alternate component:
$1 / 2$ cup beans $=2 \mathrm{oz}$ equivalent meat alternate
$3 / 8$ cup beans $=1-1 / 2$ oz equivalent meat alternate
$1 / 4$ cup beans $=1 \mathrm{oz}$ equivalent meat alternate
$1 / 8$ cup beans $=0.5 \mathrm{oz}$ equivalent meat alternate

## Method 1 Example D: Baked Beans, Vegetarian, canned

You are planning to serve $1 / 8$-cup servings of canned, vegetarian baked beans for part your vegetables/fruits component. You purchase USDA Commodity baked beans in sauce, vegetarian, in No. 10 cans (108 oz). How many No. 10 ( 108 oz ) cans will you need?

## 1: Estimate the number of servings of prepared food you will need.

You estimate that you will need 120 1/8-cup
 servings.

2: Locate the food in the Food Buying Guide in the form you intend to serve.
For the listing bean products, canned: beans baked or in sauce, vegetarian, includes USDA Commodity (found in Column 1, on page 2-19)
you look for: heated vegetable (found in Column 4)
3: Check the serving size listed in Column 4. Compare this to your planned serving size.
Column 4 reads: $1 / 4$-cup heated vegetable with sauce
Since there is no serving size for $1 / 8$-cup of heated baked beans with sauce, a conversion is needed.

4: Calculate the number of $1 / 4$-cup servings of baked beans with sauce needed.
Divide $1 / 8$ by $1 / 4$ (convert fractions to decimals; see Table 6: $1 / 8=0.125$, and $1 / 4=0.25$ )
0.125 divided by $0.25=0.5$

Multiply the factor (0.5) by the number of servings needed (120)
0.5 multiplied by $120=601 / 4$-cup servings

You need a total of $601 / 4$-cup servings of baked beans with sauce. Since this number is in units of $1 / 4$-cup servings, you can now use the serving size of 1/4-cup baked beans with sauce as found in Column 4.

5: Refer to Column 2 to find the purchase unit. Refer to Column 3 for the number of servings you will get per purchase unit.
Column 2 reads: No. 10 can (108 oz)
Column 3 reads: 47.1
6: Divide the total number of $1 / 4$-cup servings needed by the number of servings you will get per purchase unit. (Column 3)
Number of $1 / 4$-cup servings needed $=60$
Servings per purchase unit $=47.1$
60 divided by $47.1=1.27$
7: Round up to 1-1/3 cans to ensure enough food is available.
ANSWER: Since you can only buy whole cans of product, you will need to open 2 No. 10 ( 108 oz ) cans of USDA commodity baked beans in sauce, vegetarian, but only need to prepare 1-1/3 cans, to serve 120 portions of 1/8-cup vegetarian baked beans.

Note: For products having data for can sizes other than the No. 10 can used in example D, substitute the servings per purchase unit for the size of can of your choice in step 5 .

For multiple serving sizes of vegetables and fruit, convert each serving size to the number of $1 / 4$-cup servings. To do this, divide each serving size by $1 / 4$ and multiply the result by the number of people to be served that size portion.

## Method 1 Example E: Crinkle Cut French Fries, Ovenable

You are planning to serve 1/2-cup servings of baked french fries.

1: Estimate the number of servings of baked french fries you will need.


You estimate that you will need 45 1/2-cup servings of baked french fries.
2: Locate the food in the Food Buying Guide in the form you intend to serve.
For the listing Potatoes, French fries, frozen, Crinkle Cut, Low moisture, Ovenable (found in Column 1 on page 2-68) you look for:
Cooked vegetable (found in Column 4)
3: Check the serving size listed in Column 4. Compare this to your planned serving size.
Column 4 reads: 1/4-cup cooked vegetable
Since there is no serving size for $1 / 2$ cup of cooked french fries, a conversion is needed.

4: Calculate the number of $1 / 4$-cup servings of french fries needed.
Divide $1 / 2$ by $1 / 4$ (convert fractions to decimal; see table 6:
$1 / 2=0.50$ and $1 / 4=0.25)$
0.50 divided by $0.25=2.0$

Multiply the factor (2.0) by the number of servings needed (45)
2.0 multiplied by $45=901 / 4$-cup servings

You need a total of $901 / 4$-cup servings of french fries. Since this number is in units of $1 / 4$-cup servings, you can now use the serving size of $1 / 4$-cup baked vegetable as found in Column 4.

5: Refer to Column 2 to find the purchase unit. Refer to Column 3 for the number of servings you will get per purchase unit.
Column 2 reads: pound
Column 3 reads: 16.2
6: Divide the total number of $1 / 4$-cup servings needed by the number of servings you will get per purchase unit. (Column 3)
Number of $1 / 4$-cup servings needed $=90$
Servings per purchase unit $=16.2$
90 divided by $16.2=5.55$
7: Round up to 5.75 lb to ensure enough food is available.
ANSWER: You will need 5-3/4 pounds of frozen French fries, crinkle cut, low moisture, ovenable, to serve 45 1/2-cup portions of baked french fries.

## Method 1 Example F: Nut Butters (including peanut butter)

You want to serve 1-tablespoon servings of peanut butter as part of the meat/meat alternate component of the meal. How many 32 oz jars of peanut butter do you need to purchase?

1: Estimate the number of servings of peanut butter you will need.

You estimate that you will need 65 servings.
2: Multiply the number of people to be served times the number of tablespoons for each serving (for this example 1 serving is 1 Tbsp). This gives you the total number of tablespoons needed.
65 multiplied by $1=65 \mathrm{Tbsp}$ needed
3: Since the Food Buying Guide does not have data for 1-Tbsp servings, you need to convert the total tablespoons into a serving size that is given in the Food Buying Guide. Divide the total number of single tablespoons needed by 2. This gives you the total number of 2-Tbsp servings needed.
65 divided by $2=32.52-\mathrm{Tbsp}$ servings
4: Refer to Column 2 to find the purchase unit. Refer to Column 3 for the number of 2-Tbsp servings you will get per purchase unit. (peanut butter is found on page 1-40.)
Column 2 reads: 32 oz jar
Column 3 reads: 28.8

5: Divide the number of 2-Tbsp servings by the number of servings per purchase unit (Column 3). This gives you the number of purchase units needed.
32.5 divided by $28.8=1.12$ units

6: Round up to 1.25 jars to ensure enough food is available.
ANSWER: You will need 1-1/4 32-ounce jars of peanut butter to serve 65 1-Tbsp servings of peanut butter. Keep in mind that since only whole jars of any product can be purchased, you will need to purchase 2 32-ozjars of peanut butter to provide 65 1-Tbsp servings.

## Method 1 Example G: Eggs, large, shell, fresh

You want to serve cooked egg in portions that will provide 1-1/2 ounces of equivalent meat alternate. How many whole large shell eggs do you need?

1: Estimate the number of servings of prepared egg you will need.
You estimate that you will need 43 servings of cooked egg.


2: Multiply the number of people to be served times the serving size(s) (in ounces of equivalent meat alternate).

This gives you the total ounces of equivalent meat alternate needed.
43 multiplied by $1.5=64.5$ total ounces of equivalent meat alternate
3: Divide the total ounces of equivalent meat alternate needed by two (2) since one large egg in this FBG provides 2 oz equivalent meat alternate. (Column 3)

This gives you the total number of whole large shell eggs needed.
64.5 divided by $2=32.25$

4: Round up to 33 whole large shell eggs.
ANSWER: You will need 33 whole large shell eggs to provide 43 portions, each of which will provide 1-1/2 ounces of equivalent meat alternate.

You want to serve regular cooked oatmeal as part of an adult care menu. How much dry, regular, rolled oats is needed?

1: Estimate the number of servings of prepared food you will need.

You estimate that you will need 70 1-cup servings.


2: Convert the serving size of cooked cereal or cereal grains to the number of 1/2-cup servings since Column 4 does not provide data for a 1 cup serving.
Divide 1.0 by 1/2 (convert fractions to decimals; see Table 6: $1 / 2=.5$ )
1.0 divided by $.5=2$

Multiply the factor by the number of servings needed.
2 multiplied by $70=1401 / 2$-cup servings of cooked oatmeal needed
3: Locate the item as purchased in Column 1
Cereal Grains, Oats (Group H) Rolled, Regular, dry includes USDA
Commodity (see page 3-23)
4: Refer to Column 2 to find the purchase unit. Refer to Column 3 for the number of $1 / 2$-cup servings you will get per purchase unit.
Column 2 reads: 1 Pound
Column 3 reads: 22.7

5: Divide the total number of $1 / 2$-cup servings of cooked oats needed by the number of servings you will get per purchase unit.
140 divided by $22.7=6.16$ pounds dry oats
6: Round up to 6.25 pounds to ensure enough food is available.
ANSWER: You will need 6-1/4 pounds of dry rolled oats, regular to provide 70 1-cup servings of cooked oatmeal.

## Method 2- <br> Using Column 5

You may use the purchase unit for 100 servings in Column 5 to determine how much of each food you need to prepare a specified number of servings of a given size. This method is useful when planning large numbers of meals.

General Procedure: Multiply the numbers of serving sizes (Column 4) times the number of purchase units (Column 5) and divide by 100.

Examples A and B show you how to calculate the total number of pounds needed to obtain the desired number of servings of a particular food using Column 5 .

Example C shows you how to convert the Column 5 data - purchase units for 100 servings - to the purchase unit for a different number of servings.

## Method 2 Example A: Meat Loaf

Assume that you need enough USDA Commodity ground beef (not more than $16 \%$ fat) to prepare meatloaf for 325 people.

1. Estimate the total number of people in each age group expected to eat that food item.

2. Multiply the total number of servings expected to be taken by each group by the serving size to determine the amount you need for that age group.
3. Add those amounts together to determine the total quantity. (Meat/meat alternate is in ounces, vegetables and fruits are in $1 / 4$-cup servings, and bread is listed in servings or equivalents.)

| Group | Number |  | Serving Size | Total |
| :--- | :--- | :--- | :--- | :--- |
| Group III (K-3) | 153 | (X) | $1-1 / 2 \mathrm{oz}$ | $=229.5 \mathrm{oz}$ |
| Group IV (grades 4-12) | 157 | (X) | 2 oz | $=314.0 \mathrm{oz}$ |
| Group V (grades 7-12) | 15 | (X) | 3 oz | $=45.0 \mathrm{oz}$ |
|  |  |  | Total quantity |  |
|  |  | 588.5 oz |  |  |

4. Determine the purchase unit for $\mathbf{1 0 0}$ servings for your food item according to how it will be served.

According to the yield table, you need 8.5 pounds of ground beef (USDA Commodity, not more than $16 \%$ fat) for 100 1-ounce servings of cooked lean meat. (See page 1-16)
5. Multiply the total quantity by the purchase unit for 100 servings indicated in Column 5 and then divide the answer by 100.
$588.5 \mathrm{X} 8.5 \div 100=50.02$ pounds
6. Round up to 50.1 lb to ensure enough food is purchased.

ANSWER: You will need 50.1 pounds of raw ground beef (USDA Commodity, not more than $16 \%$ fat) for the meatloaf.

Method 2 Example B: Green Beans, frozen, cut
Assume you have an offer-verses-serve school and need enough frozen cut green beans to serve the same 325 people in Method 2 Example A with the servings planned below.

1. Estimate the total number of people in each age group expected to eat that food item.

2. Multiply the total number of servings expected to be taken by each group by the serving size to determine the amount you need for that age group. See Table 6 for cup to decimal conversions.
3. Add those amounts together to determine the total quantity. Then multiply the total cups by 4 to get the total $1 / 4$-cup servings needed. (Meat/meat alternate is listed in ounces, vegetables and fruits are in 1/4-cup servings, and bread is in servings or equivalents.)

| Group | Number | Serving Size | Total |
| :--- | :--- | :--- | :--- |
| Group III (K-3) | 130 | $1 / 8$ cup (.125) | 16.25 cups |
| Group IV (grades 4-12) | 125 | $1 / 4$ cup (.25) | 31.25 cups |
| Group V (grades $7-12)$ | 10 | $1 / 4$ cup (.25) | $\frac{2.50 \text { cups }}{}$ |
|  |  |  | Total |
|  |  |  |  |
|  |  |  | or 20.00 cups |
|  |  |  | $1 / 4$-cups |

4. Determine the purchase unit for $\mathbf{1 0 0}$ servings for your food item according to how it will be served.

According to the yield table (see page 2-16), you need 8.7 pounds of frozen cut green beans for $1001 / 4$-cup servings of cooked beans.
5. Multiply the total quantity of $1 / 4$-cup servings by the purchase unit for 100 servings indicated in Column 5 and then divide the answer by 100.
200.0 X $8.7 \div 100=17.4$ pounds
6. Round up to 17.5 lb to ensure enough food is purchased.

## ANSWER: You will need 17-1/2 pounds of frozen cut green beans.

## Method 2 Example C: Converting Column 5 Yield Data

Column 5 of the yield data tables gives the numbers of purchase units needed for 100 servings. Some programs, such as the Child and Adult Care Food Program, Summer Food Service Program, Afterschool Snack Program, or home day care site providers, may not plan meals for a 100 or more; they may plan for 50 or 25 meals. The Column 5 yield data can easily be converted to provide the number of purchase units needed for a smaller number of meals.

Example: You plan to serve 50 meals and want to know how many pounds of frozen whole kernel corn to buy.

1. Divide 100 by the number of meals you are planning.
100 divided by $50=2$
2. Find, in Column 5, the number of purchase units for pounds of frozen whole kernel corn needed for 100 servings of cooked, drained vegetable.

Purchase units for 100 servings $=9.1 \mathrm{lb}$

3. Divide the answer from Step 2 by the answer in Step 1
9.1 divided by $2=4.55$
4. Round up to the nearest practical measure.
4.55 rounds up to 4.66

Answer: You will need 4-2/3 pounds of frozen whole kernel corn for 50 servings.

If you want to know the purchase units for 25 servings go through the same process above using 25 in step 1.
100 divided by $25=4$
9.1 divided by $4=2.27$
2.27 rounds up to $2.33 \mathrm{lb}(2-1 / 3 \mathrm{lb})$

The same method can be followed for any number of servings you would like to serve.

When would you use Column 6? Use the additional information in Column 6 to calculate yields for foods purchased in a different form from that listed in Column 1. For example, the Food Buying Guide lists iceberg lettuce, whole, as-purchased, and served as shredded lettuce. Column 6 gives the yield information needed to calculate how many servings you would get if you bought the lettuce already shredded.

How to calculate the quantity of food to buy in order to obtain the correct amount of ready-to-cook food for a recipe.

## Method 3 Example A: Broccoli, fresh, ready-to-cook

You are planning to serve a Stir Fry. After adjusting the recipe for the number of servings, you determine that 5 lb 10 oz of chopped, fresh broccoli, ready-tocook is needed.

The ready-to-cook quantity is the amount you need
 of trimmed, chopped vegetable. But how much whole, fresh broccoli will you need to buy to be sure to have the correct amount after trimming?

1: Refer to the yield information in Column 6 for the yield determined from the food you will be purchasing to the form you need for your recipe.
For Broccoli, Fresh, untrimmed, Column 6 (page 2-25) reads:
$1 \mathrm{lb} \mathrm{AP}=0.81 \mathrm{lb}$ ready-to-cook
In other words, 1 pound whole, fresh, untrimmed broccoli as purchased (AP), yields 0.81 pound trimmed, ready-to-cook broccoli.

2: Divide the ready-to-cook (RTC) quantity called for in the recipe by yield data in Column 6.

If the recipe lists the desired RTC quantity in pounds and ounces, begin by determining the decimal equivalent (see Table 8, page I-39).
The stir-fry recipe calls for $5 \mathrm{lb} 10 \mathrm{oz}(5.62 \mathrm{lb})$ of ready-to-cook chopped broccoli.
5.62 lb divided by $0.81=6.93 \mathrm{lb}$

Round up to the next smallest practical measure
$6.93 \mathrm{lb}=7 \mathrm{lb}$
ANSWER: You will need to purchase 7 lb of good quality, whole, raw, fresh broccoli to obtain $5 \mathbf{1 b} 10 \mathrm{oz}$ of chopped ready-to-cook broccoli.

How to determine:
the number of servings obtained from a bulk pack of food purchased prepared and ready-to-cook or use; and
the number of servings from one pound of the same product.

## Method 3 Example B: Iceberg lettuce, fresh

You purchase shredded fresh iceberg lettuce, ready-to-use, in 10 pound bags.
How many $1 / 4$-cup servings of shredded lettuce will each 10 -pound bag provide?

How many 1/4-cup servings will you get from just 1-pound of this product?

1: Refer to the yield information in Column 6 for the form of the food you will be purchasing as described in Column 1.
For lettuce, fresh, iceberg, head, untrimmed (see page 2-45), Column 6 reads:
$1 \mathrm{lb} \mathrm{AP}=0.76 \mathrm{lb}$ ready-to-serve shredded lettuce

2: Determine the number of pounds of fresh head lettuce it would take to get 10 pounds of ready-to-serve shredded lettuce.

Divide the number of pounds of ready-to-use lettuce ( 10 lb ) by the quantity of ready-to-use
 lettuce obtained from 1 pound, untrimmed head lettuce.

10 pounds divided by 0.76 pounds $=13.15$ pounds of head lettuce
3: Refer to Column 3 to find the number of 1/4-cup servings per pound Column 2 reads: pound
Column 3 reads: 22.2

4: Multiply the number of pounds of head lettuce by the number of 1/4-cup servings shredded lettuce provided per pound.
Pounds of head lettuce $=13.15$
$1 / 4$-cup servings per pound $=22.2$
13.15 X 22.2 = 291.9 1/4-cup servings of shredded lettuce

ANSWER 1: You will get 291.9 1/4-cup servings of shredded lettuce from a 10 lb bag of ready-to-use shredded lettuce.

## How To <br> Make Cost Comparisons

5: To calculate the servings per pound: Divide the total unrounded number of servings per bag by the total pounds of product in the unopened bag to get the number of $1 / 4$-cup servings from 1 pound.
Servings per bag $=291.9$
Pound weight of product in unopened bag $=10$
291.9 divided by $10=29.11 / 4$-cup servings

ANSWER 2: You will get 29.1 1/4-cup servings per pound of ready-to-use shredded lettuce.

How to compare the cost per serving for food purchased in different forms by using Column 5.

## Comparing cost of cut green beans

You want to compare the raw food cost per serving of cut green beans to be served cooked to help you decide if you should buy fresh green beans, canned cut green beans, or frozen cut green beans. The cost per pound of each form of green bean (for this example) is as follows: fresh, $\$ 0.30 / \mathrm{lb}$; canned, cut, $\$ 0.24 / \mathrm{lb}$ *; frozen, cut, $\$ 0.36 / \mathrm{lb}$.

1: Using Column 5, obtain the purchase units for 100 servings for cut green beans served cooked with the purchase unit of "Pound." (See pages 2-14 through 2-16).
Fresh green beans $=9.0$
Canned cut green beans $=14.0$
Frozen cut green beans $=8.7$
2: Divide the purchase units for $\mathbf{1 0 0}$ servings by 100 by moving the decimal two places to the left. This gives you the purchase units for 1 serving.
Fresh green beans $=0.090$
Canned cut green beans $=0.140$
Frozen cut green beans $=0.087$


3: Multiply the purchase units for one serving by the cost of one pound of the item. This gives you the cost of one serving size.
Fresh green beans: $0.090 \mathrm{X} .30=\$ 0.027$

* Canned cut green beans 0.140 X $.24=\$ 0.034$

Frozen cut green beans $0.087 \mathrm{X} .36=\$ 0.031$

[^1]4: Compare the raw food cost per servings.
ANSWER: Based on raw food costs only, fresh green beans are the most economical. However, the raw food cost does not take into account labor expenses which will vary according to the form of the food purchased. For example, someone will have to wash, prep, and cook fresh beans. There are also different costs for the various storage conditions. These are only a few of the factors that may add significant cost per pound to the raw food.

Section

1

Food Buying Guide for Child Nutrition Programs

## Meat/Meat Alternates



1-1 Meat and Meat Alternates for the Child Nutrition Programs
1-2 Definitions
1-3 Yields
1-4 Explanation of the Columns
1-5 Yield Data Table for Meat/Meat Alternates

## Meat/Meat Alternates

## Meat and <br> Meat <br> Alternates for the Child Nutrition Programs

For the food-based menu planning approaches, the Child Nutrition Program regulations require that a school or child care lunch or child care supper served must contain the amount of meat or meat alternate given in the Meal Pattern Charts as shown on pages
 I-7 through I-27. A meat or meat alternate may be served as one of the two components of the snack for the National School Lunch, Child and Adult Care, or Summer Food Service Programs or as part of the breakfast for the School Breakfast Program. Meat and meat alternates include meat, poultry, fish, cheese, yogurt, dry beans and peas, whole eggs, alternate protein products, ${ }^{1}$ peanut butter or other nut or seed butters, and nuts and seeds.

For the NSLP and SFSP, enriched macaroni-type products with fortified protein may be counted as meeting part of the meat and meat alternate requirement. Alternate protein products may be counted as meeting all or part of the meat/ meat alternate requirement for all Child Nutrition Programs. For detailed information and assistance on the proper use of these products, contact your State agency.

- The meat or meat alternate for the lunch or supper must be served in the main dish or in the main dish and one other menu item.
- A serving of a finished food served as part of a meal must contribute a minimum of 0.25 ounces of meat or meat alternate to be eligible to count towards the meat/meat alternate requirement.


## This section contains yield data for:

servings of fresh and frozen boneless meat, poultry, and fish, and yields for some fresh and frozen meat, poultry, and fish with bones (e.g., chicken drumstick) given in 1 - and $1-1 / 2$-ounce servings;

- servings of dry beans and peas given in $1 / 4$-cup and $3 / 8$-cup servings, and peanut butter and other nut butters given in 2 Tbsp and 3 Tbsp measures equivalent to 1 and 1-1/2 ounces of meat alternate, respectively;

[^2]
## Definitions

whole eggs expressed in large egg equivalents (1 large egg $=2$ ounces equivalent meat alternate) and $1 / 2$ large egg equivalents ( $1 / 2$ large egg $=1$ ounce equivalent meat alternate);
"USDA Commodity" or "Market pack" food items and are designated as such in Column 1. For items where the USDA commodity and market pack are both available, the items are designated as "Includes USDA Commodity;" certain commercially prepared combination foods having USDA, Food Safety and Inspection Service (FSIS) standards requiring a minimum percent of meat or poultry. Products listed include canned and frozen meat and poultry products at portion sizes to provide at least 1 ounce of cooked meat or poultry per average-size serving; and
standard commercially prepared canned bean, and canned pea soups where one $1 / 2$-cup serving provides $1 / 4$-cup cooked beans ( 1 oz equivalent meat alternate).

Note: Information for nonspecific products such as chicken, beef, or pork nuggets and patties is not provided in this Food Buying Guide. Nonspecific products do not require a minimum amount of meat by FSIS labeling standards of identity. There is no general way to determine how much meat or poultry is contained in these products, especially since each manufacturer has its own formulation. School districts using these products must either obtain a CN label (see Appendix C for information about the CN labeling program) or manufacturer's documentation to credit each specific product used.

A serving of cooked meat is understood to be lean meat without bone.
A serving of cooked fresh or frozen poultry includes boneless meat and skin unless otherwise indicated.

A serving of yogurt includes plain or flavored, unsweetened or sweetened - all types of yogurt must be commercially prepared. Yogurt is further defined in the program regulations under 7 CFR parts 210.2, $220.2(\mathrm{bb}), 226.2$, and 225.2.

"Market pack" refers to foods available on the market.
IMPS stands for Institutional Meat Purchase Specifications. These specifications describe in exact detail items most commonly used by foodservice establishments and institutional purchasers for purchasing meat. They are also used in USDA commodity specifications. Only meat certified by the Meat Grading and Certification Branch (MGCB) may be labeled "IMPS."

## Yields

Like IMPS: Products having the description "like IMPS" imply that the IMPS standard for the described meat cut has been met but the meat has not been certified by the MGCB - hence it is "like" or "similar" to IMPS meat but is not labeled as such. The data for the products contained in the Food Buying Guide was derived using certified IMPS meat, but meats matching the descriptions and specifications may use the food buying guide yield for the matching IMPS product.
PFF stands for "Protein Fat Free" which is a procedure used by cured pork processors to reflect the presence of added ingredients, including water in cured pork products, and relates labeling claims to the percent of meat protein in the product. Manufacturers must monitor the PFF since adding water and other ingredients dilutes the natural protein content. Labeling regulations established by the Food Safety Inspection Service state that products such as "Ham," "Ham with Natural Juices," Ham Water Added," etc., must comply with the minimum meat PFF percentages as stated in the regulations.

Note: Products named "Ham and Water Product, X\% of weight is added ingredients" do not have standardized PFF values since the amount of water/ingredients added is not limited. For products labeled "Ham and Water Products $\mathrm{X} \%$ of weight is added ingredients" to be properly utilized in Child Nutrition programs, you should either 1) purchase a CN labeled product or 2 ) take out the percent of added water/ingredients by multiplying the finished weight by the percent added ingredients and then subtracting that amount from the finished weight, divide by the manufacturer's cooking yield to obtain the raw weight of the product, and then multiply by the food buying guide yield for the specific cut of pork used to process the product.

Standard commercially prepared combination foods: The yields for commercially prepared combination foods having Federal standards of identity (see 9 CFR parts 319 and 381 for FSIS regulations pertaining to standards of identity for meat and poultry products) listed under Chicken Products (and Beef or Turkey Products) are based on the minimum meat and poultry requirements for food products that are packed for interstate shipment under Federal Meat and Poultry Inspection. The serving size listed for these products will provide at least one equivalent ounce of cooked meat or poultry. Purchasers of these products will need to ensure that the name of the food on the product label exactly matches the Food Buying Guide description for the "Food As Purchased" in Column 1 before using the crediting information.

Breaded fish portions or sticks: Yields are based on raw fish portions or sticks and the amount of fish in the product. "Precooked" or "Fried" seafood is not fully cooked; only the breading or batter is flash-fried to set. The fish is raw. For serving purposes the product must be fully


## Explanation of the Columns

cooked. For crediting purposes, the calculations were done using the weights and yields for raw fish served cooked.

Yields of cooked meat and poultry vary with type, age, fat content, and weight of the animal, and the method, time, and temperature of cooking. The quantities of food to purchase are based on average yields of cooked meat and poultry.

The yield information is presented in tabular form for easy reference. The columns are numbered 1 through 6 as follows:

Column 1 Food As Purchased, AP: The individual foods are arranged in alphabetical order by species (for example, ham is listed under PORK, MILD CURED). Within each species, all of the raw items are listed first followed by cooked and/or canned and/or products. For Chicken and Turkey, the raw items are presented starting with the whole bird followed by whole parts and then the remaining raw items. Other characteristics are given, such as fat content, with or without bone, percent of fish in fish products, and weight of individual pieces of chicken. The items are listed according to the forms in which they appear in the market - fresh, canned, frozen, or dehydrated.

Column 2 Purchase Unit: The purchase unit is generally given as either a pound, a No. 10 can, or, in many cases, a smaller size can.

Column 3 Servings per Purchase Unit, EP (Edible Portion): This column shows the number of 1 or $1-1 / 2$ ounce lean meat equivalent servings you will get from each purchase unit. Numbers in this column have been rounded down in order to help ensure enough food is purchased for the number of servings stated.

Column 4 Serving Size per Meal Contribution: The size of a serving is given as 1 or $1-1 / 2$ ounce cooked lean meat or equivalent ( $1 / 4$ cup or $3 / 8$ cup of cooked beans or peas, 1 or $1-1 / 2$ ounces of cheese, 1 egg ( 2 ounces), or 2 or 3 tablespoons of peanut butter). Individual servings such as frankfurters, chicken pieces, or fish portions are listed by the piece along with the equivalent ounces of lean meat given in parentheses under the portion size.

Column 5 Purchase Units for 100 Servings: This column shows the number of purchase units you need for 100 servings of the corresponding serving size listed in Column 4. Numbers in this column have been generally rounded $u p$ in order to help ensure enough food is purchased for the number of servings.

Column 6 Additional Information: This column gives other information to help you calculate the amount of food you need to prepare meals. It shows the amount of cooked ready-to-serve meat you will get from 1 pound of meat, poultry, seafood, or acceptable meat alternate as purchased.

# Food Buying Guide for Child Nutrition Programs Section 1 Meat/Meat Alternates 

## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | 6 Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEANS, BLACK (TURTLE)

| Beans, Black (Turtle), dry, canned Whole Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (110 oz) } \end{array}$ | 27.8 | 1/4 cup heated, drained beans | 3.6 | 1 No. 10 can = about 62.0 oz (6-7/8 cups) heated, drained beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (110 oz) } \end{array}$ | 18.5 | 3/8 cup heated, drained beans | 5.5 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-1 / 2 \text { oz) } \end{aligned}$ | 5.91 | 1/4 cup heated, drained beans | 17.0 | 1 No. 300 can = about 10.5 oz (1-3/8 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-1 / 2 \mathrm{oz}) \end{aligned}$ | 3.94 | 3/8 cup heated, drained beans | 25.4 |  |
| Beans, Black (Turtle), dry Whole | Pound | 18.3 | 1/4 cup cooked beans | 5.5 | 1 lb dry $=2-1 / 4$ cups dry beans |
|  | Pound | 12.2 | 3/8 cup cooked beans | 8.2 |  |

## BEANS, BLACK-EYED or PEAS

| Beans, Black-eyed (or Peas), dry, canned Whole Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (108 oz) } \end{array}$ | 37.7 | 1/4 cup heated, drained beans | 2.7 | 1 No. 10 can = about 65.0 oz (9-3/8 cups) heated, drained beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ (108 \mathrm{oz}) \end{array}$ | 25.1 | 3/8 cup heated, drained beans | 4.0 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \text { oz }) \end{aligned}$ | 4.91 | 1/4 cup heated, drained beans | 20.4 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 3.27 | 3/8 cup heated, drained beans | 30.6 |  |
| Beans, Black-eyed (or Peas), dry Whole Includes USDA Commodity | Pound | 28.3 | 1/4 cup cooked beans | 3.6 | 1 lb dry $=$ about $2-3 / 4$ cups dry beans |
|  | Pound | 18.8 | $3 / 8$ cup cooked beans | 5.4 |  |

Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2 Purchase | Servings <br> Unit |
| :--- | :--- | :--- |
|  | per <br> Purchase <br> Unit, EP |  |


| Serving Size per |  |  |
| :---: | :---: | :---: |
| Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | 6 Additional <br> Information |

## BEANS, GARBANZO or CHICKPEAS

| Beans, Garbanzo or Chickpeas, dry, canned Whole Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (105 oz) } \end{array}$ | 42.0 | 1/4 cup drained beans | 2.4 | 1 No. 10 can = about 68.4 oz (about 10-1/2 cups) drained, unheated beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ (105 \mathrm{oz}) \end{array}$ | 28.0 | 3/8 cup drained beans | 3.6 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 6.70 | 1/4 cup drained beans | 15.0 | 1 No. 300 can = about 9.6 oz (1-2/3 cups) drained, unheated beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 4.46 | 3/8 cup drained beans | 22.5 |  |
|  | Pound | 6.31 | 1/4 cup drained beans | 15.9 |  |
|  | Pound | 4.20 | 3/8 cup drained beans | 23.9 |  |
| Beans, Garbanzo or Chickpeas, dry Whole | Pound | 24.6 | 1/4 cup cooked beans | 4.1 | 1 lb dry = about 2-1/2 cups dry beans |
|  | Pound | 16.4 | 3/8 cup cooked beans | 6.1 |  |
| BEANS, GREAT NORTHERN |  |  |  |  |  |
| Beans, Great <br> Northern, dry, canned <br> Whole <br> Includes USDA <br> Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (110 oz) } \end{array}$ | 32.4 | 1/4 cup heated, drained beans | 3.1 | 1 No. 10 can = about 68.5 oz (about 8-1/8 cups) heated, drained beans |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ (110 \mathrm{oz}) \end{array}$ | 21.6 | 3/8 cup heated, drained beans | 4.7 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14 \mathrm{oz}) \end{aligned}$ | 4.37 | 1/4 cup heated, drained beans | 22.9 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14 \mathrm{oz}) \end{aligned}$ | 2.91 | 3/8 cup heated, drained beans | 34.4 |  |
| Beans, Great <br> Northern, dry Whole Includes USDA Commodity | Pound | 25.5 | 1/4 cup cooked beans | 4.0 | 1 lb dry = about $2-1 / 2$ cups dry beans |
|  | Pound | 17.0 | 3/8 cup cooked beans | 5.9 |  |

## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEANS, KIDNEY |  |  |  |  |  |
| Beans, Kidney, dry, canned <br> Whole Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 38.9 | 1/4 cup heated, drained beans | 2.6 | 1 No. 10 can = about 65.0 oz (9-5/8 cups) heated, drained beans |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ (108 \mathrm{oz}) \end{array}$ | 25.9 | 3/8 cup heated, drained beans | 3.9 |  |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 43.4 | 1/4 cup drained beans | 2.4 |  |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 28.9 | $3 / 8$ cup drained beans | 3.5 | 1 No. 10 can = about 71.0 oz (10-3/4 cups) drained, unheated beans |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (30 oz) } \end{aligned}$ | 11.6 | 1/4 cup heated, drained beans | 8.7 |  |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (30 oz) } \end{aligned}$ | 7.73 | 3/8 cup heated, drained beans | 13.0 |  |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (30 oz) } \end{array}$ | 12.6 | 1/4 cup drained beans | 8.0 |  |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (30 oz) } \end{aligned}$ | 8.40 | $3 / 8$ cup drained beans | 12.0 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (15-1/2 oz) } \end{aligned}$ | 5.61 | 1/4 cup heated, drained beans | 17.9 | 1 No. 300 can = about 9.5 oz (1-3/8 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (15-1/2 oz) } \end{aligned}$ | 3.74 | 3/8 cup heated, drained beans | 26.8 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (15-1/2 oz) } \end{aligned}$ | 5.88 | 1/4 cup drained beans | 17.1 | 1 No. 300 can = about 10.0 oz (1-3/8 cups) drained, unheated beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (15-1/2 oz) } \end{aligned}$ | 3.92 | 3/8 cup drained beans | 25.6 |  |
| Beans, Kidney, dry Whole Includes USDA Commodity | Pound | 24.8 | 1/4 cup cooked beans | 4.1 | 1 lb dry = about 2-1/2 cups dry beans |
|  | Pound | 16.5 | 3/8 cup cooked beans | 6.1 |  |

Section 1—Meat/Meat Alternates

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEANS, LIMA |  |  |  |  |  |
| Beans, Lima, dry, canned <br> Green <br> Whole <br> Includes USDA <br> Commodity | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (105 oz) } \end{array}$ | 42.4 | 1/4 cup heated, drained beans | 2.4 | 1 No. 10 can = about 70.9 oz (11-3/4 cup) drained, unheated beans |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ (105 \mathrm{oz}) \end{array}$ | 28.2 | 3/8 cup heated, drained beans | 3.6 |  |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (40 oz) } \end{aligned}$ | 15.7 | 1/4 cup heated, drained beans | 6.4 | 1 No. 2-1/2 can = about 27.0 oz ( $4-1 / 2$ cups) drained, unheated beans |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (40 oz) } \end{aligned}$ | 10.4 | 3/8 cup heated, drained beans | 9.7 |  |
|  | Pound | 6.46 | 1/4 cup heated, drained beans | 15.5 | 1 lb AP = about 11.0 oz (1-3/4 cups) drained, unheated beans |
|  | Pound | 4.30 | 3/8 cup heated, drained beans | 23.3 |  |
| Beans, Lima, dry <br> Baby <br> Whole <br> Includes USDA <br> Commodity | Pound | 23.4 | 1/4 cup cooked beans | 4.3 | 1 lb dry = about 2-3/8 cups dry beans |
|  | Pound | 15.6 | $3 / 8$ cup cooked beans | 6.5 |  |
| Beans, Lima, dry Fordhook (large) Whole | Pound | 27.0 | 1/4 cup cooked beans | 3.8 | 1 lb dry = about 2-5/8 cups dry beans |
|  | Pound | 18.0 | $3 / 8$ cup cooked beans | 5.6 |  |
| BEANS, MUNG |  |  |  |  |  |
| Beans, Mung, dry Whole | Pound | 28.1 | 1/4 cup cooked beans | 3.6 | 1 lb dry = about 2-1/4 cups dry beans |
|  | Pound | 18.7 | $3 / 8$ cup cooked beans | 5.4 |  |
| BEANS, NAVY or PEA |  |  |  |  |  |
| Beans, Navy or Pea, dry Whole Includes USDA Commodity | Pound | 23.9 | 1/4 cup cooked beans | 4.2 | 1 lb dry = about 2-1/4 cups dry beans |
|  | Pound | 15.9 | $3 / 8$ cup cooked beans | 6.3 |  |

## Section 1-Meat/Meat Alternates

Food As
Purchased, AP
BEANS, PINK

| Beans, Pink, dry, canned Inc/udes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (110 oz) } \end{aligned}$ | 34.0 | 1/4 cup heated, drained beans | 3.0 | 1 No. 10 can = about 12-1/4 cups drained, unheated beans or about $8-1 / 2$ cups heated, drained beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (110 oz) } \end{aligned}$ | 22.6 | 3/8 cup heated, drained beans | 4.5 |  |
| Beans, Pink, dry Includes USDA Commodity | Pound | 19.3 | 1/4 cup cooked beans | 5.2 | 1 lb dry $=2-1 / 4$ cups dry beans |
|  | Pound | 12.8 | 3/8 cup cooked beans | 7.9 |  |
| BEANS, PINTO² |  |  |  |  |  |
| Beans, Pinto, dry, canned Whole Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 37.2 | 1/4 cup heated, drained beans | 2.7 | 1 No. 10 can = about 67.4 oz (9-1/4 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 24.8 | 3/8 cup heated, drained beans | 4.1 |  |
|  | Pound | 5.51 | 1/4 cup heated, drained beans | 18.2 |  |
|  | Pound | 3.67 | 3/8 cup heated, drained beans | 27.3 |  |
| Beans, Pinto, dry Whole Includes USDA Commodity | Pound | 21.0 | 1/4 cup cooked beans | 4.8 | 1 lb dry $=2-3 / 8$ cups dry beans |
|  | Pound | 14.0 | $3 / 8$ cup cooked beans | 7.2 |  |
| Beans, Pinto, dehydrated ${ }^{2}$ | Pound | 21.7 | 1/4 cup cooked beans | 4.7 | 1 lb AP $=3-3 / 4$ cups dehydrated beans |
|  | Pound | 14.4 | 3/8 cup cooked beans | 7.0 | 1 lb AP $=$ about $5-1 / 8$ cups rehydrated, cooked beans when the water to dry beans ratio $=2: 1$ |

[^3]Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEANS, RED, SMALL

| Beans, Red, Small, dry, canned Whole Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (111 oz) } \end{array}$ | 31.9 | 1/4 cup heated, drained beans | 3.2 | 1 No. 10 can = about 71.2 oz ( 8 cups) heated, drained beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (111 oz) } \end{array}$ | 21.2 | 3/8 cup heated, drained beans | 4.8 |  |
|  | $\begin{array}{\|l} \text { No. } 300 \text { can } \\ (15-1 / 2 \text { oz) } \end{array}$ | 4.94 | 1/4 cup heated, drained beans | 20.3 | 1 No. 300 can = about 8.5 oz (1-1/8 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-1 / 2 \text { oz) } \end{aligned}$ | 3.29 | 3/8 cup heated, drained beans | 30.4 |  |
| Beans, Red, Small, dry Whole Includes USDA Commodity | Pound | 20.4 | 1/4 cup cooked beans | 5.0 | 1 lb dry = about 2-1/8 cups dry beans |
|  | Pound | 13.6 | $3 / 8$ cup cooked beans | 7.4 |  |
| BEANS, SOY |  |  |  |  |  |
| Beans, Soy, dry, canned | Pound | 7.30 | 1/4 cup heated, drained beans | 13.7 |  |
|  | Pound | 4.86 | $3 / 8$ cup heated, drained beans | 20.6 |  |
| Beans, Soy, dry | Pound | 25.9 | 1/4 cup cooked beans | 3.9 | 1 lb dry = about $2-1 / 2$ cups dry beans |
|  | Pound | 17.2 | 3/8 cup cooked beans | 5.9 |  |

## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $\begin{aligned} & \text { 2urchase } \\ & \text { Unit } \end{aligned}$ |  | Serving Size per Meal Contribution | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEAN PRODUCTS |  |  |  |  |  |
| Bean Products, dry beans, canned Beans Baked or in Sauce with Pork | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (110 oz) } \end{aligned}$ | 48.9 | 1/4 cup heated beans | 2.1 |  |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (110 oz) } \end{aligned}$ | 32.6 | 3/8 cup heated beans | 3.1 |  |
|  | No. 2-1/2 <br> can (30 oz) | 13.3 | 1/4 cup heated beans | 7.6 |  |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (30 oz) } \end{aligned}$ | 8.86 | 3/8 cup heated beans | 11.3 |  |
|  | $\begin{aligned} & \text { No. } 300 \\ & \text { can (16 oz) } \end{aligned}$ | 7.10 | 1/4 cup heated beans | 14.1 |  |
|  | $\begin{aligned} & \text { No. } 300 \\ & \text { can (16 oz) } \end{aligned}$ | 4.73 | 3/8 cup heated beans | 21.2 |  |
| Bean Products, dry beans, canned Beans Baked in Sauce, Vegetarian Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 47.1 | $1 / 4$ cup heated beans with sauce | 2.2 | 1 No. 10 can = about $11-3 / 4$ cups heated beans with sauce |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (108 oz) } \end{array}$ | 31.4 | 3/8 cup heated beans with sauce | 3.2 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 6.94 | 1/4 cup heated beans with sauce | 14.5 | 1 No. 300 can = about $1-3 / 4$ cups heated beans with sauce |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 4.62 | 3/8 cup heated beans with sauce | 21.7 |  |
| Bean Products, dry beans, canned Beans with Bacon in Sauce | Pound | 4.70 | 3/8 cup serving (about <br> 1/4 cup heated beans) | 21.3 |  |
|  | Pound | 3.13 | 1/2-cup plus 1 Tbsp serving (about $3 / 8$-cup heated beans) | 32.0 |  |
| Bean Products, dry beans, canned Beans with Frankfurters in Sauce | Pound | 5.30 | $1 / 3$ cup serving (about 1.0 oz meat/meat alternate) | 18.9 |  |
|  | Pound | 3.53 | 1/2-cup serving (about 1.5 oz meat/meat alternate) | 28.4 |  |

## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEAN PRODUCTS ${ }^{3}$ (continued)

| Bean, Products, dry beans, canned Refried Beans Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ (115 \text { oz) } \end{array}$ | 49.6 | 1/4 cup heated beans | 2.1 | 1 No. 10 can = about 12-1/4 cups heated refried beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (115 oz) } \end{array}$ | 33.0 | 3/8 cup heated beans | 3.1 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 7.08 | 1/4 cup heated beans | 14.2 | 1 No. 300 can = about $1-3 / 4$ cups heated refried beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 4.72 | $3 / 8$ cup heated beans | 21.2 |  |
| Bean Products, dehydrated Refried Beans ${ }^{3}$ | Pound | 20.5 | 1/4 cup cooked beans | 4.9 | 1 lb AP = about $3-1 / 2$ cups dehydrated beans |
|  | Pound | 13.6 | $3 / 8$ cup cooked beans | 7.4 | 1 lb AP = about 5-1/8 cups rehydrated, cooked beans when the water to dry beans ratio $=2: 1$ |
| BEAN SOUP, canned |  |  |  |  |  |
| Bean Soup, dry beans, canned Condensed (1 part soup to 1 part water) | $\begin{array}{\|l} \begin{array}{l} \text { No. } 3 \text { Cyl } \\ \text { (54 oz) } \end{array} \end{array}$ | 23.0 | $1 / 2$ cup reconstituted <br> (1/4 cup heated beans) | 4.4 | Reconstitute 1 part soup with not more than 1 part water |
|  | $\begin{array}{\|l} \text { No. } 3 \text { Cyl } \\ (54 \mathrm{oz}) \end{array}$ | 15.3 | 3/4 cup reconstituted <br> ( $3 / 8$ cup heated beans) | 6.6 |  |
|  | Pound | 6.80 | $1 / 2$ cup reconstituted <br> ( $1 / 4$ cup heated beans) | 14.8 |  |
|  | Pound | 4.53 | 3/4 cup reconstituted <br> ( $3 / 8$ cup heated beans) | 22.1 |  |
| Bean Soup, dry beans, canned Ready-to-Serve | 8 oz can | 1.00 | 1 cup serving (1/2 cup heated beans) | 100.0 |  |
|  | 8 oz can | 0.66 | $3 / 4$ cup serving <br> (3/8 cup heated beans) | 151.6 |  |

BEEF, FRESH OR FROZEN
BEEF BRISKET, fresh or frozen

| Beef Brisket, fresh or frozen Without bone 1/4-inch Trim | Pound | 7.36 | 1 oz cooked lean meat | 13.6 | 1 lb AP $=0.46 \mathrm{lb}$ cooked, lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 4.90 | 1-1/2 oz cooked lean meat | 20.5 |  |
| Beef Brisket, fresh or frozen <br> Without bone <br> Practically-free-of-fat | Pound | 11.0 | 1 oz cooked lean meat | 9.1 | 1 lb AP $=0.69 \mathrm{lb}$ cooked, sliced lean meat |
|  | Pound | 7.36 | 1-1/2 oz cooked lean meat | 13.6 |  |

[^4]
## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |

## BEEF BRISKET, CORNED, chilled

| Beef Brisket, <br> Corned, chilled <br> Without bone <br> $1 / 4$-inch trim | Pound | 11.2 | 10 oz cooked lean meat | 9.0 | $1 \mathrm{lb} \mathrm{AP}=0.70 \mathrm{lb}$ cooked, <br> sliced lean meat |
| :--- | :--- | :--- | :--- | :--- | :--- |

BEEF CHEEK MEAT, fresh or frozen

| Beef Cheek Meat, <br> fresh or frozen <br> no more than $25 \%$ fat | Pound | 12.3 | 1 oz cooked lean meat | 8.2 | 1 lb AP $=0.77 \mathrm{lb}$ cooked, <br> drained, lean meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| BEand | 8.21 | $1-1 / 2$ oz cooked lean meat | 12.2 |  |  |


| Beef Chuck Roast, <br> fresh or frozen |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| With bone <br> Practically-free-of-fat | Pound | 8.64 | 10 oz cooked lean meat | 11.6 | $1 \mathrm{lb} \mathrm{AP}=0.54 \mathrm{lb}$ cooked <br> lean meat |
| Beef Chuck Roast, <br> fresh or frozen <br> Without bone <br> Practically-free-of-fat | Pound | 5.76 | 10.0 | $1-1 / 2 \mathrm{oz}$ cooked lean meat | 17.4 |

[^5]
## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEEF CHUCK ROAST, fresh or frozen ${ }^{4,5}$ (continued)

| Beef Chuck Roast, fresh or frozen ${ }^{5}$ <br> Roll <br> Without bone Practically-free-of-fat (Like IMPS \#116A) | Pound | 6.56 | 1 oz cooked lean meat | 15.3 | 1 lb AP $=0.41 \mathrm{lb}$ cooked, trimmed, sliced lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 4.37 | 1-1/2 oz cooked lean meat | 22.9 |  |
| Beef Chuck Roast, fresh or frozen ${ }^{5}$ <br> Shoulder clod Without bone 1/4-inch trim (Like IMPS \#114) | Pound | 9.76 | $10 z$ cooked lean meat | 10.3 | 1 lb AP $=0.61 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
|  | Pound | 6.50 | 1-1/2 oz cooked lean meat | 15.4 |  |
| Beef Chuck Roast, fresh or frozen ${ }^{5}$ <br> Shoulder clod <br> Arm <br> Without bone <br> 1/4-inch trim <br> (Like IMPS \#114E) | Pound | 9.60 | $10 z$ cooked lean meat | 10.5 | 1 lb AP $=0.60 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
|  | Pound | 6.40 | 1-1/2 oz cooked lean meat | 15.7 |  |
| Beef Chuck Roast, fresh or frozen ${ }^{5}$ <br> Shoulder clod <br> Arm <br> Without bone <br> Practically-free-of-fat <br> (Like IMPS \#114E) | Pound | 9.12 | $10 z$ cooked lean meat | 11.0 | 1 lb AP $=0.57 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
|  | Pound | 6.08 | 1-1/2 oz cooked lean meat | 16.5 |  |
| Beef Chuck Roast, fresh or frozen ${ }^{5}$ <br> Square cut <br> Divided <br> Blade <br> Without bone <br> 1/4-inch trim <br> (Like IMPS \#113A) | Pound | 8.48 | 1 oz cooked lean meat | 11.8 | 1 lb AP $=0.53 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
|  | Pound | 5.65 | 1-1/2 oz cooked lean meat | 17.7 |  |

[^6]
## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEEF CHUCK ROAST, fresh or frozen ${ }^{4,5}$ (continued)

| Beef Chuck Roast, <br> fresh or frozen |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Under blade <br> Without bone <br> $1 / 4-$-inch trim <br> (Like IMPS \#116E) | Pound | 10.2 | 1 oz cooked lean meat | 9.9 | 1 lb AP $=0.64 \mathrm{lb}$ cooked, <br> trimmed, sliced lean meat |
| Beef Chuck Roast, <br> fresh or frozen |  |  |  |  |  |
| Under blade <br> Without bone <br> Practically-free-of-fat <br> (Like IMPS \#116E) | Pound | Pound | 6.82 | 10.4 | 1 oz cooked lean meat |
| BEEF CHUCK | 6.93 | $1-1 / 2$ oz cooked lean meat lean meat | 14.7 | 14.5 | 1 lb AP $=0.65 \mathrm{lb}$ cooked, <br> trimmed, sliced, lean meat |


| Beef Chuck Steak, <br> fresh or frozen <br> Eye roll | Pound | 11.8 | 1 oz cooked lean meat | 8.5 | 1 lb AP $=0.74 \mathrm{lb}$ cooked <br> lean meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Without bone <br> Practically-free-of-fat <br> (Like IMPS \#1116D) | Pound | 7.89 | $1-1 / 2$ oz cooked lean meat | 12.7 |  |


| Beef Flank Steak, fresh or frozen 1/4-inch Trim | Pound | 10.7 | 1 oz cooked lean meat | 9.4 | 1 lb AP $=0.67 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 7.14 | 1-1/2 oz cooked lean meat | 14.1 |  |
| Beef Flank Steak, fresh or frozen Practically-free-of-fat | Pound | 11.6 | 1 oz cooked lean meat | 8.7 | 1 lb AP (and sliced) $=$ 0.73 lb cooked lean meat |
|  | Pound | 7.78 | 1-1/2 oz cooked lean meat | 12.9 |  |
| BEEF GROUND, ${ }^{\text {c, 7, }}$ fresh or frozen |  |  |  |  |  |
| Beef, Ground, fresh or frozen Market Style ${ }^{6,8}$ no more than $30 \%$ fat (Like IMPS \#136) | Pound | 11.2 | 1 oz cooked lean meat | 9.0 | 1 lb AP $=0.70 \mathrm{lb}$ cooked, drained, lean meat |
|  | Pound | 7.46 | 1-1/2 oz cooked lean meat | 13.5 |  |

[^7]
## Section 1—Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Beef, Ground, fresh or frozen ${ }^{7,8}$ <br> no more than $26 \%$ fat (Like IMPS \#136) | Pound | 11.5 | 1 oz cooked lean meat | 8.7 | $1 \mathrm{lb} \mathrm{AP}=.72 \mathrm{lb}$ cooked, drained lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 7.68 | 1-1/2 oz cooked lean meat | 13.1 |  |
| Beef, Ground, fresh or frozen ${ }^{7,8}$ <br> no more than $24 \%$ fat (Like IMPS \#136) | Pound | 11.6 | 1 oz cooked lean meat | 8.7 | 1 lb AP $=0.73 \mathrm{lb}$ cooked, drained lean meat |
|  | Pound | 7.78 | 1-1/2 oz cooked lean meat | 12.9 |  |
| Beef, Ground, fresh or frozen ${ }^{7,8}$ <br> no more than $20 \%$ fat Includes USDA Commodity (Like IMPS \#136) | Pound | 11.8 | 1 oz cooked lean meat | 8.5 | 1 lb AP $=0.74 \mathrm{lb}$ cooked, drained lean meat |
|  | Pound | 7.89 | 1-1/2 oz cooked lean meat | 12.7 |  |
| Beef, Ground, fresh or frozen ${ }^{7,8}$ <br> no more than $15 \%$ fat (Like IMPS \#136) | Pound | 12.0 | 1 oz cooked lean meat | 8.4 | 1 lb AP $=0.75 \mathrm{lb}$ cooked, drained lean meat |
|  | Pound | 8.00 | 1-1/2 oz cooked lean meat | 12.5 |  |
| Beef, Ground, fresh or frozen ${ }^{7,8}$ <br> no more than $10 \%$ fat (Like IMPS \#136) | Pound | 12.1 | 1 oz cooked lean meat | 8.3 | 1 lb AP $=0.76 \mathrm{lb}$ cooked, drained lean meat |
|  | Pound | 8.10 | 1-1/2 oz cooked lean meat | 12.4 |  |

BEEF HEART, fresh or frozen

| Beef Heart, fresh or <br> frozen <br> Trimmed | Pound | 8.96 | 1 oz cooked lean meat | 11.2 | 1 lb AP $=0.56 \mathrm{lb}$ cooked, <br> trimmed, lean heart |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Pound | 5.97 | $1-1 / 2$ oz cooked lean meat | 16.8 |  |  |
| BEEF KIDNEY, fresh or frozen |  |  |  |  |  |
| Beef Kidney, fresh <br> or frozen <br> Trimmed | Pound | 8.64 | 1 oz cooked lean meat | 11.6 | $1 \mathrm{lb} \mathrm{AP}=0.54 \mathrm{lb}$ cooked <br> kidney |

[^8]
## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution |
| :--- | :--- | :--- | :--- | :--- |

## BEEF LIVER, fresh or frozen

| Beef Liver, fresh or <br> frozen <br> Trimmed | Pound | 11.2 | 1 oz cooked lean meat | 9.0 | $1 \mathrm{lb} A P=0.70 \mathrm{lb}$ cooked <br> liver |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pound | 7.46 | $1-1 / 2$ oz cooked lean meat | 13.5 |  |  |

BEEF LOIN STEAK, fresh or frozen

| Beef Loin Steak, fresh or frozen <br> Bottom sirloin butt <br> Tri-tip steak <br> Defatted <br> Without bone <br> Practically-free-of-fat <br> (Like IMPS \#1185D) | Pound | 10.8 | 1 oz cooked lean meat | 9.3 | $1 \mathrm{lb} \mathrm{AP}=0.68 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 7.25 | 1-1/2 oz cooked lean meat | 13.8 |  |
| Beef Loin Steak, fresh or frozen Tenderloin steak Side muscle on Defatted 1/4-inch trim (Like IMPS \#1189A) | Pound | 12.0 | 1 oz cooked lean meat | 8.4 | 1 lb AP $=0.75 \mathrm{lb}$ cooked lean meat |
|  | Pound | 8.00 | 1-1/2 oz cooked lean meat | 12.5 |  |
| BEEF OXTAIL, fresh or frozen |  |  |  |  |  |
| Beef Oxtail, fresh or frozen <br> Trimmed With bone (Like IMPS \#721) | Pound | 4.96 | 1 oz cooked lean meat | 20.2 | 1 lb AP $=0.31 \mathrm{lb}$ cooked, defatted, boned, lean meat |
|  | Pound | 3.30 | 1-1/2 oz cooked lean meat | 30.4 |  |
| BEEF PLATE, fresh or frozen |  |  |  |  |  |
| Beef Plate, fresh or frozen Inside skirt steak (Like IMPS \#1121D) | Pound | 10.2 | 1 oz cooked lean meat | 9.9 | $1 \mathrm{lb} \mathrm{AP}=0.64 \mathrm{lb}$ sliced, cooked lean meat |
|  | Pound | 6.82 | 1-1/2 oz cooked lean meat | 14.7 |  |
| Beef Plate, fresh or frozen <br> Outside skirt steak <br> Skinned <br> Practically-free-of-fat <br> (Like IMPS \#1121E) | Pound | 11.3 | 1 oz cooked lean meat | 8.9 | $1 \mathrm{lb} \mathrm{AP}=0.71 \mathrm{lb}$ sliced, cooked lean meat |
|  | Pound | 7.57 | 1-1/2 oz cooked lean meat | 13.3 |  |

## Section 1—Meat/Meat Alternates

| Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |

## BEEF RIB, RIBEYE, fresh or frozen

| Beef Rib, Ribeye, <br> fresh or frozen <br> Roll roast or steak <br> Without bone <br> Practically-free-of-fat <br> (Like IMPS \#112) | Pound | 10.0 | 1 oz cooked lean meat | 10.0 | 1 lb AP $=0.63 \mathrm{lb}$ cooked, <br> trimmed, sliced, lean meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| BEEF RIB ROAST, fresh or frozen | 6.72 | $1-1 / 2$ oz cooked lean meat | 14.9 |  |  |
| Beef Rib Roast, fresh <br> or frozen <br> Blade meat <br> Without bone <br> Practically-free-of-fat <br> (Like IMPS \#109B) | Pound | 8.96 | 1 oz cooked lean meat | 11.2 | $1 \mathrm{lb} \mathrm{AP}=0.56 \mathrm{lb}$ cooked, <br> trimmed, sliced, lean meat |

## BEEF ROUND ROAST, fresh or frozen ${ }^{9}$

| Beef Round Roast, fresh or frozen ${ }^{9}$ <br> Without bone 1/4-inch trim | Pound | 9.76 | 1 oz cooked lean meat | 10.3 | 1 lb AP $=0.61 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 6.50 | 1-1/2 oz cooked lean meat | 15.4 |  |
| Beef Round Roast, fresh or frozen ${ }^{9}$ <br> Bottom (Gooseneck) <br> Heel out <br> Without bone <br> 1/4-inch trim <br> (Like IMPS \#170A) | Pound | 9.28 | 1 oz cooked lean meat | 10.8 | 1 lb AP $=0.58 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
|  | Pound | 6.18 | 1-1/2 oz cooked lean meat | 16.2 |  |
| Beef Round Roast, fresh or frozen ${ }^{9}$ <br> Eye of round Without bone Practically-free-of-fat (Like IMPS \#171C) | Pound | 9.44 | 1 oz cooked lean meat | 10.6 | 1 lb AP $=0.59 \mathrm{lb}$ cooked, sliced, lean meat |
|  | Pound | 6.29 | 1-1/2 oz cooked lean meat | 15.9 |  |
| Beef Round Roast, fresh or frozen ${ }^{9}$ <br> Knuckle <br> Peeled <br> Without bone <br> Practically-free-of-fat <br> (Like IMPS \#167A) | Pound | 9.60 | 1 oz cooked lean meat | 10.5 | $1 \mathrm{lb} \mathrm{AP}=0.60 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
|  | Pound | 6.40 | 1-1/2 oz cooked lean meat | 15.7 |  |

[^9]
## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEEF ROUND ROAST, fresh or frozen ${ }^{9}$ (continued)

| Beef Round Roast, fresh or frozen ${ }^{9}$ | Pound | 10.4 | 1 oz cooked lean meat | 9.7 | 1 lb AP $=0.65 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Without bone 1/4-inch trim (Like IMPS \#171B) | Pound | 6.93 | 1-1/2 oz cooked lean meat | 14.5 |  |
| Beef Round Roast, fresh or frozen ${ }^{9}$ Outside | Pound | 10.0 | 102 cooked lean meat | 10.0 | 1 lb AP $=0.63 \mathrm{lb}$ cooked, sliced, lean meat |
| Without bone Practically-free-of-fat (Like IMPS \#171B) | Pound | 6.72 | 1-1/2 oz cooked lean meat | 14.9 |  |
| Beef Round Roast, fresh or frozen ${ }^{9}$ | Pound | 10.0 | 1 oz cooked lean meat | 10.0 | 1 lb AP $=0.63 \mathrm{lb}$ cooked, trimmed, sliced, lean meat |
| Without bone (Like IMPS \#169) | Pound | 6.72 | 1-1/2 oz cooked lean meat | 14.9 |  |
| Beef Round Roast, fresh or frozen ${ }^{9}$ | Pound | 10.7 | $10 z$ cooked lean meat | 9.4 | $1 \mathrm{lb} \mathrm{AP}=0.67 \mathrm{lb}$ cooked, sliced, lean meat |
| Without bone (Like IMPS \#169A) | Pound | 7.14 | 1-1/2 oz cooked lean meat | 14.1 |  |


| Beef Round Steak, fresh or frozen Bottom <br> (Gooseneck) Without bone (Like IMPS \#1170A) | Pound | 11.0 | 1 oz cooked lean meat | 9.1 | 1 lb AP $=0.69 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 7.36 | 1-1/2 oz cooked lean meat | 13.6 |  |
| Beef Round Steak, fresh or frozen Knuckle | Pound | 10.4 | 1 oz cooked lean meat | 9.7 | 1 lb AP $=0.65 \mathrm{lb}$ cooked lean meat |
| Peeled Without bone (Like IMPS \#1167A) | Pound | 6.93 | 1-1/2 oz cooked lean meat | 14.5 |  |

[^10]
## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEEF ROUND STEAK, fresh or frozen (continued)

| Beef Round Steak, <br> fresh or frozen <br> Top (Inside) <br> Without bone <br> (Like IMPS \#1169) | Pound | 11.2 | 1 oz cooked lean meat | 9.0 | 1 lb AP $=0.70 \mathrm{lb}$ cooked, <br> trimmed, sliced, lean meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Beef Round Steak, <br> fresh or frozen <br> Whole <br> With bone <br> Practically-free-of-fat | Pound | 10.0 | $1-1 / 2$ oz cooked lean meat | 13.5 | 1 oz lean cooked meat |
|  | 6.72 | $1-1 / 2$ oz lean cooked meat | 14.9 | $1 \mathrm{lb} \mathrm{AP}=0.63 \mathrm{lb}$ cooked <br> lean meat |  |

## BEEF RUMP ROAST, fresh or frozen

| Beef Rump Roast, <br> fresh or frozen <br> With bone Pound |
| :--- |
| Beef Rump Roast, <br> fresh or frozen <br> Without bone |
| Pound |
| Pound |

[^11]
## Section 1—Meat/Meat Alternates

| 11 Food As <br> Purchased, AP |
| :--- |
| BEEF, STEAK, frozen (continued) |


| Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | 6 Additional <br> Information |
| :---: | :---: | :---: |


| Beef Steak, frozen <br> Sandwich Steak <br> Flaked, Chopped, <br> Formed and Wafer <br> sliced <br> (Like IMPS \#1138A) | Pound | 9.92 | 1 oz cooked lean meat | 10.1 | $1 \mathrm{lb} \mathrm{AP}=0.62 \mathrm{lb}$ cooked <br> lean meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Beef Steak, frozen <br> Flaked and Formed <br> Sliced <br> (Like IMPS \#1138) | Pound | Pound | 6.61 | 12.6 | $1 / 2 \mathrm{oz}$ cooked lean meat |


| Pooked lean meat |
| :--- |


| Beef Steak, frozen |
| :--- |
| Sliced and Formed |
| (Like IMPS \#1138B) |

Pound
Pound

| Beef Tongue, fresh or <br> frozen | Pound | 9.28 | 1 oz cooked lean meat | 10.8 | $1 \mathrm{lb} \mathrm{AP}=0.58 \mathrm{lb}$ cooked <br> tongue |
| :--- | :--- | :--- | :--- | :--- | :--- |
| BEand | 6.18 | $1-1 / 2$ oz cooked lean meat | 16.2 |  |  |
| Beef Tripe, fresh or <br> frozen <br> Scalded, Bleached, <br> (Denuded) <br> Honeycomb <br> (Like IMPS \#726) | Pound | 12.3 | 1 oz cooked lean meat | 8.2 | 1 lb AP thawed $=0.77 \mathrm{lb}$ <br> cooked lean meat |

## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEEF, COOKED

## BEEF, canned ${ }^{11}$

| Beef, canned Beef with Natural Juices USDA Commodity ${ }^{11}$ | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 14.7 | 1 oz heated lean meat | 6.9 | 1 lb AP $=0.51 \mathrm{lb}$ heated meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 9.86 | 1-1/2 oz heated lean meat | 10.2 |  |
|  | Pound | 8.16 | 1 oz heated lean meat | 12.3 |  |
|  | Pound | 5.44 | $1-1 / 2$ oz heated lean meat | 18.4 |  |

## BEEF PRODUCTS, canned or frozen ${ }^{12,13}$

| Beef Products Barbecue Sauce with Beef ${ }^{12,13}$ | Pound | 3.50 | $1 / 2$ cup serving (about 1 oz cooked lean meat) | 28.6 | 1 lb AP $=0.25 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Beef Products Beef and Dumplings with Gravy ${ }^{12,13}$ | Pound | 2.33 | 3/4 cup serving (about 1 oz cooked lean meat) | 43.0 | 1 lb AP $=0.18 \mathrm{lb}$ cooked lean meat |
| Beef Products <br> Beef Goulash ${ }^{12,13}$ | Pound | 2.33 | 3/4 cup serving (about 1 oz cooked lean meat) | 43.0 | 1 lb AP $=0.18 \mathrm{lb}$ cooked lean meat |
| Beef Products <br> Beef Hash ${ }^{12,13}$ | Pound | 4.66 | 3/8 cup serving (about 1 oz cooked lean meat) | 21.5 | 1 lb AP $=0.35 \mathrm{lb}$ cooked lean meat |
| Beef Products <br> Beef Salad ${ }^{12,13}$ | Pound | 4.66 | 3/8 cup serving (about 1 oz cooked lean meat) | 21.5 | 1 lb AP $=0.35 \mathrm{lb}$ cooked lean meat |
| Beef Products Beef Stew ${ }^{12,13}$ | Pound | 2.33 | 3/4 cup serving (about 1 oz cooked lean meat) | 43.0 | 1 lb AP $=0.18 \mathrm{lb}$ cooked lean meat |
| Beef Products Beef Taco Filling ${ }^{12,13}$ | Pound | 3.50 | $1 / 2$ cup serving (about 1 oz cooked lean meat) | 28.6 | 1 lb AP $=0.28 \mathrm{lb}$ cooked lean meat |
| Beef Products Beef with Barbecue Sauce ${ }^{12,13}$ | Pound | 7.00 | 1/4 cup serving (about 1 oz cooked lean meat) | 14.3 | 1 lb AP $=0.50 \mathrm{lb}$ cooked lean meat |
| Beef Products Beef and Gravy ${ }^{12,13}$ | Pound | 7.00 | 1/4 cup serving (about 1 oz cooked lean meat) | 14.3 | 1 lb AP $=0.50 \mathrm{lb}$ cooked lean meat |

[^12]
## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEEF PRODUCTS, canned or frozen ${ }^{12,13}$ (continued) |  |  |  |  |  |
| Beef Products <br> Chili con Carne ${ }^{12,13}$ | Pound | 3.50 | $1 / 2$ cup serving (about 1 oz cooked lean meat) | 28.6 | 1 lb AP $=0.28 \mathrm{lb}$ cooked lean meat |
| Beef Products Chili con Carne with Beans ${ }^{12,13}$ | Pound | 2.33 | 3/4 cup serving (about 1 oz cooked lean meat) | 43.0 | 1 lb AP $=0.18 \mathrm{lb}$ cooked lean meat |
| Beef Products Corned Beef and Cabbage ${ }^{12,13}$ | Pound | 3.50 | 1/2 cup serving (about 1 oz cooked lean meat) | 28.6 | 1 lb AP $=0.25 \mathrm{lb}$ cooked lean meat |
| Beef Products <br> Corned Beef Hash ${ }^{12,13}$ | Pound | 4.66 | 3/8 cup serving (about 1 oz cooked lean meat) | 21.5 | 1 lb AP $=0.35 \mathrm{lb}$ cooked lean meat |
| Beef Products Gravy and Beef ${ }^{12,13}$ | Pound | 3.50 | 1/2 cup serving (about 1 oz cooked lean meat) | 28.6 | 1 lb AP $=0.25 \mathrm{lb}$ cooked lean meat |
| Beef Products <br> Gravy and Swiss <br> Steak ${ }^{12,13}$ | Pound | 4.66 | 3/8 cup serving (about 1 oz cooked lean meat) | 21.5 | 1 lb AP $=0.35 \mathrm{lb}$ cooked lean meat |
| Beef Products Swiss Steak and Gravy ${ }^{12,13}$ | Pound | 7.00 | 1/4 cup serving (about 1 oz cooked lean meat) | 14.3 | 1 lb AP $=0.50 \mathrm{lb}$ cooked lean meat |


| Cheese <br> American, Cheddar, <br> Mozzarella, or Swiss ${ }^{14}$ <br> Natural or Process <br> Includes USDA <br> Commodity | Pound | 16.0 | 1 oz cheese | 6.3 | $1 \mathrm{lb}=$ about 4 cups <br> shredded cheese |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cheese <br> Feta, Brie, <br> Camembert ${ }^{14,15}$ <br> Natural | Pound | 10.6 | $1-1 / 2$ oz cheese | 9.5 | 1 lb AP $=$ about 2 cups <br> cubed cheese |

[^13]
## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

CHEESE (includes reduced fat, lowfat, nonfat, and lite versions of cheese, cheese food, and cheese spread) ${ }^{14}$ (continued)

| Cheese <br> Cottage or Ricotta ${ }^{14}$ | Pound | 8.00 | 2 oz serving - about $1 / 4$ cup (1 oz meat alternate) | 12.5 | $1 \mathrm{lb}=$ about 2 cups |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 5.33 | 3 oz serving - about $3 / 8$ cup (1-1/2 oz meat alternate) | 18.8 |  |
| Cheese <br> Parmesan or Romano ${ }^{14}$ Grated | Pound | 16.0 | 1 oz cheese (3/8 cup serving) | 6.3 | $1 \mathrm{lb}=$ about $5-2 / 3$ cups grated |
|  | Pound | 10.6 | 1-1/2 oz cheese (5/8 cup serving) | 9.5 |  |
| Cheese <br> Cheese food ${ }^{14}$ <br> Process | Pound | 8.00 | 2 oz serving <br> (1 oz meat alternate) | 12.5 |  |
|  | Pound | 5.33 | 3 oz serving <br> (1-1/2 oz meat alternate) | 18.8 |  |
| Cheese <br> Cheese spread ${ }^{14}$ <br> Process | Pound | 8.00 | 2 oz serving <br> (1 oz meat alternate) | 12.5 |  |
|  | Pound | 5.33 | $\begin{aligned} & 3 \text { oz serving } \\ & \text { (1-1/2 oz meat alternate) } \end{aligned}$ | 18.8 |  |
| CHEESE SUBSTITUTES (includes reduced fat, lowfat, nonfat, and lite versions of cheese substitute, cheese foo substitute, and cheese spread substitute) ${ }^{14,16}$ |  |  |  |  |  |
| Cheese Substitutes American, Cheddar, Mozzarella, or Swiss Cheese Substitute ${ }^{14,16}$ Natural or Process | Pound | 16.0 | 1 oz cheese substitute | 6.3 | $1 \mathrm{lb}=$ about 4 cups shredded |
|  | Pound | 10.6 | 1-1/2 oz cheese substitute | 9.5 | $1 \mathrm{lb} \mathrm{AP}=$ about 2 cups cubed cheese |
| Cheese Substitutes Parmesan or Romano cheese substitute ${ }^{14,16}$ Grated | Pound | 16.0 | 1 oz cheese substitute <br> (3/8 cup serving) | 6.3 | $1 \mathrm{lb}=$ about 5-2/3 cup |
|  | Pound | 10.6 | $1-1 / 2$ oz cheese substitute <br> (5/8 cup serving) | 9.5 |  |

[^14]
## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CHEESE SUBSTITUTES (includes reduced fat, lowfat, nonfat, and lite versions of cheese substitute, cheese food substitute, and cheese spread substitute) ${ }^{14,16}$ (continued) |  |  |  |  |  |
| Cheese Substitutes <br> Cheese food <br> Substitute ${ }^{14,16}$ <br> Process | Pound | 8.00 | 2 oz serving <br> (1 oz meat alternate) | 12.5 | $1 \mathrm{lb}=$ about $5-2 / 3$ cup |
|  | Pound | 5.33 | 3 oz serving <br> (1-1/2 oz meat alternate) | 18.8 |  |
| Cheese Substitutes <br> Cheese spread substitute ${ }^{14,16}$ Process | Pound | 8.00 | $20 z$ serving <br> (1 oz meat alternate) | 12.5 | $1 \mathrm{lb}=$ about 5-2/3 cup |
|  | Pound | 5.33 | 3 oz serving <br> (1-1/2 oz meat alternate) | 18.8 |  |

CHICKEN, FRESH OR FROZEN

## CHICKEN, WHOLE, fresh or frozen

| Chicken, Whole, <br> fresh or frozen <br> With neck and giblets | Pound | 5.76 | 1 oz cooked poultry <br> excluding neck meat and <br> giblets | 17.4 | 1 lb AP $=0.36 \mathrm{lb}$ cooked, <br> boned, chicken meat with- <br> out skin, excluding <br> neck meat and giblets |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pound | 3.84 | $1-1 / 2$ oz cooked poultry <br> excluding neck meat and <br> giblets | 26.1 |  |  |
| 1 oz cooked poultry with <br> neck meat and giblets | 15.3 | 1 lb AP $=0.41 \mathrm{lb}$ cooked, <br> boned, chicken meat with- <br> out skin, with neck meat <br> and giblets |  |  |  |
| Pound | 4.37 | 6.56 | $1-1 / 2$ oz cooked poultry <br> with neck meat and giblets | 22.9 |  |

[^15]
## Section 1—Meat/Meat Alternates

| Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- | :--- | :--- | :--- |

## Additional

Information

## CHICKEN, WHOLE, fresh or frozen (continued)

| Chicken, Whole, <br> fresh or frozen <br> Without neck and <br> giblets | Pound | 7.04 | 1 oz cooked poultry with <br> skin | 14.3 | 1 lb AP $=0.44 \mathrm{lb}$ cooked, <br> boned, chicken meat with <br> skin |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 4.69 | $1-1 / 2$ oz cooked poultry <br> with skin | 21.4 | 1 lb AP $=0.36 \mathrm{lb}$ cooked, <br> boned, chicken meat <br> without skin |
| Pound | 5.76 | 1 oz cooked poultry without <br> skin | 17.4 |  |  |
| $1-1 / 2$ oz cooked poultry | 26.1 | Chicken, Whole, <br> without skin | 40 lb box <br> (fresh or frozen <br> Cut up | (about 83) | 2 oz or more cooked poultry <br> with skin <br> chicken) |

hicken pieces:
2 breast pieces 2 drumsticks
2 thighs with back 2 wings

## CHICKEN PARTS, fresh or frozen ${ }^{17}$

| Chicken Parts, fresh <br> or frozen <br> Back <br> Pieces <br> With skin <br> (about 6.0 oz each) | Pound | 2.66 | 1 back piece (about 1.9 oz <br> cooked poultry with skin) | 37.6 | 1 lb AP $=0.32 \mathrm{lb}$ cooked, <br> boned, chicken meat with <br> skin |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 2.66 | 1 back piece (about 1.4 oz <br> cooked poultry without skin) | 37.6 | 1 lb AP $=0.24 \mathrm{lb}$ cooked, <br> boned, chicken meat <br> without skin |
|  | Pound | 3.84 | 1 oz cooked poultry with <br> skin <br> 1 oz cooked poultry without <br> skin <br> Pound | 3.419 .6 | 26.1 |

[^16]
## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings |  |
| :---: | :---: | :---: | :---: | :---: | :---: |

## CHICKEN PARTS, fresh or frozen ${ }^{17}$ (continued)

| Chicken Parts, fresh or frozen <br> Breast ${ }^{17}$ <br> Halves with Backs With skin (about 7.5 oz each) from 8 piece cut | Pound | 2.13 | 1 breast half with back (about 4.1 oz cooked poultry with skin) | 47.0 | 1 lb AP $=0.55 \mathrm{lb}$ cooked, boned, chicken meat with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 2.13 | 1 breast half with back (about 3.5 oz cooked poultry without skin) | 47.0 | $1 \mathrm{lb} \mathrm{AP}=0.47 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 8.80 | 1 oz cooked poultry with skin | 11.4 |  |
|  | Pound | 7.52 | 1 oz cooked poultry without skin | 13.3 |  |
|  | Pound | 5.86 | 1-1/2 oz cooked poultry with skin | 17.1 |  |
|  | Pound | 5.01 | 1-1/2 oz cooked poultry without skin | 20.0 |  |
| Chicken Parts, fresh or frozen <br> Breast ${ }^{17}$ <br> Halves with Ribs With skin <br> (about 6.1 oz each) | Pound | 2.62 | 1 breast half (about 4.0 oz cooked poultry with skin) | 38.2 | $1 \mathrm{lb} \mathrm{AP}=0.66 \mathrm{lb}$ cooked, boned, chicken meat with skin |
|  | Pound | 2.62 | 1 breast half (about $3.40 z$ cooked poultry without skin) | 38.2 | $1 \mathrm{lb} \mathrm{AP}=0.56 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 10.5 | 1 oz cooked poultry with skin | 9.6 |  |
|  | Pound | 8.96 | 1 oz cooked poultry without skin | 11.2 |  |
|  | Pound | 7.04 | 1-1/2 oz cooked poultry with skin | 14.3 |  |
|  | Pound | 5.97 | 1-1/2 oz cooked poultry without skin | 16.8 |  |

[^17]Section 1—Meat/Meat Alternates

| Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## CHICKEN PARTS, fresh or frozen ${ }^{17}$ (continued)

| Chicken Parts, fresh or frozen <br> Breast ${ }^{17}$ <br> Portions without Backs With skin (about 3.9 oz each) from 9 piece cut | Pound | 4.10 | 1 breast portion without back (about 2.4 oz cooked poultry with skin) | 24.4 | $1 \mathrm{lb} \mathrm{AP}=0.64 \mathrm{lb}$ cooked, boned, chicken meat with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 4.10 | 1 breast portion without back (about 2.0 oz cooked poultry without skin) | 24.4 | $1 \mathrm{lb} \mathrm{AP}=0.52 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 10.2 | 1 oz cooked poultry with skin | 9.9 |  |
|  | Pound | 8.32 | 1 oz cooked poultry without skin | 12.1 |  |
|  | Pound | 6.82 | 1-1/2 oz cooked poultry with skin | 14.7 |  |
|  | Pound | 5.54 | 1-1/2 oz cooked poultry without skin | 18.1 |  |
| Chicken Parts, fresh or frozen Breast ${ }^{17}$ <br> Portions with Backs With skin (about 5.9 oz each) from 9 piece cut | Pound | 2.71 | 1 breast portion with back (about 2.8 oz cooked poultry with skin) | 37.0 | 1 lb AP $=0.48 \mathrm{lb}$ cooked, boned, chicken meat with skin |
|  | Pound | 2.71 | 1 breast portion with back (about 2.3 oz cooked poultry without skin) | 37.0 | $1 \mathrm{lb} \mathrm{AP}=0.40 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 7.68 | 1 oz cooked poultry with skin | 13.1 |  |
|  | Pound | 6.40 | 1 oz cooked poultry without skin | 15.7 |  |
|  | Pound | 5.12 | 1-1/2 oz cooked poultry with skin | 19.6 |  |
|  | Pound | 4.26 | 1-1/2 oz cooked poultry without skin | 23.5 |  |

[^18]
## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution |  | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |

## CHICKEN PARTS, fresh or frozen ${ }^{17}$ (continued)

| Chicken Parts, fresh or frozen <br> Drumsticks ${ }^{17}$ <br> With bone <br> With Skin <br> (about 3.7 oz each) | Pound | 4.32 | 1 drumstick (about 1.8 oz cooked chicken with skin) | 23.2 | 1 lb AP $=0.49 \mathrm{lb}$ cooked, boned, chicken meat with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 4.32 | 1 drumstick (about 1.5 oz cooked chicken without skin) | 23.2 | 1 lb AP $=0.41 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 7.84 | 1 oz cooked poultry with skin | 12.8 |  |
|  | Pound | 6.56 | 1 oz cooked poultry without skin | 15.3 |  |
|  | Pound | 5.22 | 1-1/2 oz cooked poultry with skin | 19.2 |  |
|  | Pound | 4.37 | 1-1/2 oz cooked poultry without skin | 22.9 |  |
| Chicken Parts, fresh or frozen <br> Drumsticks ${ }^{17}$ <br> With bone Without skin (about 2.5 oz each) | Pound | 6.40 | 1 drumstick (1.1 oz cooked poultry meat) | 15.7 | $1 \mathrm{lb} \mathrm{AP}=0.47 \mathrm{lb}$ cooked, boned, chicken meat |
|  | Pound | 7.52 | 1 oz cooked poultry meat | 13.3 |  |
|  | Pound | 5.01 | 1-1/2 oz cooked poultry meat | 20.0 |  |
| Chicken Parts, fresh or frozen <br> Leg Quarters ${ }^{17}$ <br> With bone <br> Without skin <br> (about 7.0 oz each) | Pound | 2.28 | 1 leg quarter (3.1 oz cooked poultry meat) | 43.9 | 1 lb AP $=0.45 \mathrm{lb}$ cooked, boned, chicken meat |
|  | Pound | 7.20 | 1 oz cooked poultry meat | 13.9 |  |
|  | Pound | 4.80 | 1-1/2 oz cooked poultry meat | 20.9 |  |
| Chicken Parts, fresh or frozen <br> Leg Quarters ${ }^{17}$ <br> With bone <br> With Skin <br> (9.5 oz each) | Pound | 1.68 | 1 leg quarter (3.9 oz cooked poultry with skin) | 59.6 | 1 lb AP $=0.42 \mathrm{lb}$ cooked, boned, chicken meat with skin |
|  | Pound | 6.72 | 1 oz cooked poultry with skin | 14.9 |  |
|  | Pound | 4.48 | 1-1/2 oz cooked poultry with skin | 22.4 |  |

[^19]Section 1—Meat/Meat Alternates
$\left.\begin{array}{|l|l|l|l|l|}\hline 1 \begin{array}{l}\text { Food As } \\ \text { Purchased, AP }\end{array} & 2 \text { Purchase } \\ \text { Unit }\end{array} \quad \begin{array}{l}\text { Servings } \\ \text { per } \\ \text { Purchase } \\ \text { Unit, EP }\end{array}\right)$

## Additional

 Information
## CHICKEN PARTS, fresh or frozen ${ }^{17}$ (continued)

| Chicken Parts, fresh or frozen <br> Thighs ${ }^{17}$ <br> With backs <br> With bone <br> With skin <br> (about 8.7 oz each) | Pound | 1.83 | 1 thigh with back (about 3.6 oz cooked poultry with skin) | 54.7 | 1 lb AP $=0.42 \mathrm{lb}$ cooked, boned, chicken meat with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 1.83 | 1 thigh with back (about 2.8 oz cooked poultry without skin) | 54.7 | 1 lb AP $=0.33 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 6.72 | $10 z$ cooked poultry with skin | 14.9 |  |
|  | Pound | 5.28 | 1 oz cooked poultry without skin | 19.0 |  |
|  | Pound | 4.48 | 1-1/2 oz cooked poultry with skin | 22.4 |  |
|  | Pound | 3.52 | 1-1/2 oz cooked poultry without skin | 28.5 |  |
| Chicken Parts, fresh or frozen <br> Thigh ${ }^{17}$ <br> With bone <br> With skin <br> (about 4.0 oz each) | Pound | 4.00 | 1 thigh (about 2.0 oz cooked poultry with skin) | 25.0 | 1 lb AP $=0.52 \mathrm{lb}$ cooked, boned, chicken meat with skin |
|  | Pound | 4.00 | 1 thigh (about 1.7 oz cooked poultry without skin) | 25.0 | 1 lb AP $=0.43 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 8.32 | $10 z$ cooked poultry with skin | 12.1 |  |
|  | Pound | 6.88 | 1 oz cooked poultry without skin | 14.6 |  |
|  | Pound | 5.54 | 1-1/2 oz cooked poultry with skin | 18.1 |  |
|  | Pound | 4.58 | 1-1/2 oz cooked poultry without skin | 21.9 |  |
| Chicken Parts, fresh or frozen <br> Thighs ${ }^{17}$ <br> With bone <br> Without skin <br> (about 2.8 oz each) | Pound | 5.71 | 1 thigh (about 1.4 oz cooked poultry) | 17.6 | 1 lb AP thawed $=0.53 \mathrm{lb}$ cooked, boned, chicken meat |
|  | Pound | 8.48 | 1 oz cooked poultry | 11.8 |  |
|  | Pound | 5.65 | 1-1/2 oz cooked poultry | 17.7 |  |

[^20]
## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## CHICKEN PARTS, fresh or frozen ${ }^{17}$ (continued)

| Chicken Parts, fresh or frozen Wings ${ }^{17}$ | Pound | 5.16 | 1 wing (about 1.0 oz cooked poultry with skin) | 19.4 | 1 lb AP $=0.34 \mathrm{lb}$ cooked, boned, chicken meat with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
| With bone <br> With skin <br> (about 3.1 oz each) | Pound | 5.16 | 1 wing (about 0.8 oz cooked poultry without skin) | 19.4 | 1 lb AP $=0.26 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 5.44 | 1 oz cooked poultry with skin | 18.4 |  |
|  | Pound | 4.16 | 1 oz cooked poultry without skin | 24.1 |  |
|  | Pound | 3.62 | 1-1/2 oz cooked poultry with skin | 27.7 |  |
|  | Pound | 2.77 | 1-1/2 oz cooked poultry without skin | 36.2 |  |
| Chicken Parts, fresh or frozen <br> Wing Drumettes <br> (First section of wing) <br> With bone <br> With skin | Pound | 5.76 | 1 oz cooked poultry with skin | 17.4 | $1 \mathrm{lb} \mathrm{AP}=0.36 \mathrm{lb}$ cooked, boned, chicken meat with skin |
|  | Pound | 3.84 | 1-1/2 oz cooked poultry with skin | 26.1 |  |
| Chicken Parts, fresh or frozen <br> Wing Portions <br> (Two sections of wing without tip) <br> With bone <br> With skin | Pound | 3.84 | 1 oz cooked poultry without skin | 26.1 | $1 \mathrm{lb} \mathrm{AP}=0.24 \mathrm{lb}$ cooked, boned, chicken meat without skin |
|  | Pound | 2.56 | 1-1/2 oz cooked poultry without skin | 39.1 |  |
| CHICKEN, BONELESS, fresh or frozen |  |  |  |  |  |
| Chicken, Boneless, fresh or frozen With skin in natural proportions | Pound | 11.2 | 1 oz cooked poultry with skin | 9.0 | 1 lb AP $=0.70 \mathrm{lb}$ cooked chicken meat with skin |
|  | Pound | 7.46 | 1-1/2 oz cooked poultry with skin | 13.5 |  |

[^21]
## Section 1—Meat/Meat Alternates

| Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution |
| :--- | :--- | :--- | :--- | :--- |

## CHICKEN, BONELESS, fresh or frozen (continued)

| Chicken Boneless, <br> fresh or frozen | Pound | 11.6 | 1 oz cooked poultry | 8.7 | $1 \mathrm{lb} \mathrm{AP}=0.73 \mathrm{lb}$ cooked <br> chicken meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Tenders <br> Tenderloins (boneless, <br> chicken breast pieces <br> without skin) | Pound | 7.78 | $1-1 / 2$ oz cooked poultry | 12.9 |  |

## CHICKEN GIBLETS, fresh or frozen

| Chicken Giblets, fresh <br> or frozen <br> Gizzards | Pound | 9.28 | 1 oz cooked poultry | 10.8 | 1 lb AP $=0.58 \mathrm{lb}$ cooked <br> gizzards |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Chicken Giblets, fresh <br> or frozen <br> Hearts | Pound | 9.18 | $1-1 / 2$ oz cooked poultry | 16.2 |  |
| Chicken Giblets, fresh <br> or frozen <br> Livers | Pound | 9.92 | 1 oz cooked poultry | 10.8 | $1 \mathrm{lb} \mathrm{AP}=0.58 \mathrm{lb}$ cooked <br> hearts |
| CHICK EN, GROUND, frozen | 6.18 | $1-1 / 2$ oz cooked poultry | 16.2 |  |  |
| Chicken, Ground, <br> Chicken <br> frozen <br> With skin in natural <br> proportions | Pound | 11.2 | 1 oz cooked poultry | 9.0 | $1 \mathrm{lb}=0.70$ cooked chicken <br> meat with skin |

Section 1-Meat/Meat Alternates

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \text { Purchase }$ | $\begin{aligned} & 3 \begin{array}{l} \text { Servings } \\ \text { per } \\ \text { Purchase } \end{array} \end{aligned}$ | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | $\begin{aligned} & 5 \text { Purchase } \\ & \text { Units } \\ & \text { for 100 } \\ & \text { con } \end{aligned}$ | $6 \begin{gathered} \text { Additional } \\ \text { Information } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |

## CHICKEN, COOKED

## CHICKEN, canned

| Chicken, canned Boned poultry with broth | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 20.8 | 1 oz heated, drained poultry | 4.9 | 1 No. 2-1/2 can = about 20.8 oz heated, drained chicken meat and skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 13.8 | 1-1/2 oz heated, drained poultry | 7.3 |  |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 20.8 | 1.2 oz unheated, drained chicken (1 oz cooked poultry) | 4.9 |  |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 13.8 | 1.8 oz unheated, drained chicken (1-1/2 oz cooked poultry) | 7.3 |  |
|  | Pound | 11.5 | 1 oz heated, drained poultry | 8.7 |  |
|  | Pound | 7.66 | 1-1/2 oz heated, drained poultry | 13.1 |  |
|  | Pound | 11.5 | 1.2 oz unheated, drained chicken (1 oz cooked poultry) | 8.7 |  |
|  | Pound | 7.66 | 1.8 oz unheated, drained chicken (1-1/2 oz cooked poultry) | 13.1 |  |
| Chicken, canned Boned Solid pack | Pound | 14.8 | 1/8 cup serving (about 1 oz cooked, drained poultry with skin) | 6.8 | 1 lb AP $=0.93 \mathrm{lb}$ cooked chicken meat with skin |

Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |



## Additional

 Information
## CHICKEN, canned ${ }^{18}$ (continued)

| Chicken, canned <br> Boned <br> Includes USDA <br> Commodity | 50 oz can | 46.5 | 1 oz heated, drained poultry | 2.2 | 50 oz can $=$ about 46.5 oz <br> heated, drained chicken <br> meat with skin |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 50 oz can | 31.0 | No. 2-1/2 <br> can (29 oz) | 26.3 | $1-1 / 2$ oz heated, drained <br> poultry <br> 1 oz heated poultry |
|  | No. 2-1/2 <br> can (29 oz) <br> Pound | 17.5 | 14.7 | $1-1 / 2$ oz heated poultry | 5.9 |

## CHICKEN, COOKED, frozen

| Chicken, cooked, frozen <br> Diced or Pulled <br> no skin, wing meat, neck meat, giblets, or kidneys Includes USDA Commodity | Pound | 16.0 | 1 oz cooked poultry | 6.3 | 1 lb AP $=1.0 \mathrm{lb}$ cooked chicken meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 10.6 | 1-1/2 oz cooked poultry | 9.5 |  |
|  | 40 lb pkg | 640.0 | 1 oz cooked poultry | 0.16 |  |
|  | 40 lb pkg | 426.6 | 1-1/2 oz cooked poultry | 0.24 |  |
| Chicken, cooked, frozen <br> Whole, Cut up, Breaded <br> 8 Pieces <br> Breaded <br> (about 2-3/4 Ib <br> without neck and <br> giblets) <br> USDA Commodity <br> Chicken pieces: <br> 2 breast pieces, <br> 2 drumsticks <br> 2 thighs with back <br> 2 wings | 30 lb box (pre-cooked breaded) | (about 66) | 2 oz or more cooked poultry with skin (1 serving = 1 breast piece, or 1 drumstick and 1 wing, or 1 thigh with back) | (about 1.6) | 1 box contains about 10 chickens weighing 2-1/2 to $3-3 / 4 \mathrm{lb}$ |

[^22]
## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |
| CHICKEN PRODUCTS, canned or frozen ${ }^{19,20}$ |  |  |  |  |  |


| Chicken Products Chicken a La King ${ }^{19,20}$ | Pound | 2.30 | 3/4-cup serving (about 1.3 oz cooked poultry) | 43.5 | 1 lb AP $=0.20 \mathrm{lb}$ cooked chicken meat with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Chicken Products Chicken Barbeque, Minced ${ }^{19,20}$ | Pound | 3.50 | 1/2-cup serving (about <br> 1.8 oz cooked poultry) | 28.6 | 1 lb AP $=0.40 \mathrm{lb}$ cooked chicken meat with skin |
| Chicken Products Chicken Chili ${ }^{19,20}$ | Pound | 2.30 | 3/4-cup serving (about 1.9 oz cooked poultry) | 43.5 | 1 lb AP $=0.28 \mathrm{lb}$ cooked chicken meat with skin |
| Chicken Products Chicken Chili with Beans ${ }^{19,20}$ | Pound | 2.62 | 2/3-cup serving (about 1.0 oz cooked meat) | 38.2 | 1 lb AP $=0.17 \mathrm{lb}$ cooked chicken meat with skin |
| Chicken Products <br> Chicken Hash ${ }^{19,20}$ | Pound | 2.60 | 2/3-cup serving (about <br> 1.8 oz cooked poultry) | 38.5 | 1 lb AP $=0.30 \mathrm{lb}$ cooked chicken meat with skin |
| Chicken Products Chicken Salad ${ }^{19,20}$ | Pound | 3.46 | 1/2-cup serving (about <br> 1.1 oz cooked poultry with skin) | 29.0 | 1 lb AP $=0.25 \mathrm{lb}$ cooked chicken meat with skin |
| Chicken Products Chicken with Gravy ${ }^{19,20}$ | Pound | 5.30 | 1/3-cup serving (about <br> 1.0 oz cooked poultry) | 18.9 | 1 lb AP $=0.35 \mathrm{lb}$ cooked chicken meat with skin |
| Chicken Products Chicken with Noodles or Dumplings ${ }^{19,20}$ | Pound | 1.70 | 1 cup serving (about 1.4 oz cooked poultry) | 58.9 | 1 lb AP $=0.15 \mathrm{lb}$ cooked chicken meat with skin |
| Chicken Products Creamed Chicken ${ }^{19,20}$ | Pound | 2.30 | 3/4-cup serving (about 1.3 oz cooked poultry) | 43.5 | 1 lb AP $=0.20 \mathrm{lb}$ cooked chicken meat with skin |
| CHICKPEAS (see BEANS, GARBANZ0) |  |  |  |  |  |

[^23]
## Section 1—Meat/Meat Alternates

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EGGS ${ }^{21,22,23}$ |  |  |  |  |  |
| Eggs <br> Shell Eggs, fresh ${ }^{21,22}$ <br> Large <br> Whole | $\begin{array}{\|l\|l\|} \hline \text { Dozen } \\ \text { (24 oz) } \end{array}$ | 12.0 | 1 large egg | 8.4 | 1 qt (34 oz) about 19 large whole eggs, or 29 whites, or 57 yolks |
|  | $\begin{array}{\|l} \text { Dozen } \\ \text { (24 oz) } \end{array}$ | 24.0 | 1/2 large egg | 4.2 |  |
| Eggs <br> Frozen Whole Eggs <br> Pasteurized <br> Includes USDA <br> Commodity | 5 lb pkg | 45.0 | 1 large egg | 2.3 | $\begin{aligned} & 1 \mathrm{lb} \text { frozen = about } \\ & 1-7 / 8 \text { cups ( } 9 \text { large eggs) } \end{aligned}$ |
|  | 5 lb pkg | 90.0 | 1/2 large egg | 1.2 |  |
|  | Pound | 9.00 | 1 large egg | 11.2 |  |
|  | Pound | 18.0 | 1/2 large egg | 5.6 |  |
| Eggs Dried Whole Eggs ${ }^{23}$ | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (48 oz) } \end{array}$ | 96.0 | 1 large egg | 1.1 | 1 lb AP = about 5-1/3 cups dried egg |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (48 oz) } \end{array}$ | 192.0 | 1/2 large egg | 0.6 | 2 cups (6 oz) dried eggs and 2 cups water $=1$ dozen large eggs |
|  | Pound | 32.0 | 1 large egg | 3.2 |  |
|  | Pound | 64.0 | 1/2 large egg | 1.6 |  |
| FRANKFURTERS, BOLOGNA ${ }^{24,25}$ |  |  |  |  |  |
| Bologna ${ }^{24,25}$ | Pound | 16.0 | 1 oz serving | 6.3 |  |
| Frankfurters ${ }^{24,25}$ 8 per pound | Pound | 8.00 | 2 oz frankfurter | 12.5 |  |

[^24]
## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | 6 Additional |
| :---: | :---: | :---: | :---: | :---: | :---: |

## FRANKFURTERS, BOLOGNA ${ }^{24,}{ }^{25}$ (continued)

| Frankfurters ${ }^{24,25}$ <br> 10 per pound | Pound | 10.0 | 1.6 oz frankfurter | 10.0 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Knockwurst ${ }^{24,25}$ | Pound | 16.0 | 1 oz serving | 6.3 |  |
| Vienna Sausage ${ }^{24,25}$ | Pound <br> (drained <br> weight) | 16.0 | 1 oz serving | 6.3 |  |


| Game <br> Buffalo <br> Ground | Pound | 11.5 | 1 oz cooked lean meat | 8.7 | $1 \mathrm{lb} \mathrm{AP}=0.72 \mathrm{lb}$ cooked, <br> drained lean buffalo |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Game ${ }^{26}$ <br> Goat <br> Roast | Pound | 7.68 | 8.00 | $1-1 / 2$ oz cooked lean meat | 13.1 |

## LAMB, FRESH OR FROZEN

LAMB, CHOPS, fresh or frozen

| Lamb, Chops, fresh <br> or frozen <br> Shoulder chops <br> With bone | Pound | 7.36 | 1 oz cooked lean meat | 13.6 | $1 \mathrm{lb} \mathrm{AP}=0.46 \mathrm{lb}$ cooked <br> lean lamb |
| :--- | :--- | :--- | :--- | :--- | :--- |

[^25]
## Section 1—Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LAMB, GROUND, frozen |  |  |  |  |  |
| Lamb, Ground, frozen | Pound | 10.2 | 1 oz cooked lean meat | 9.9 | 1 lb AP $=0.64 \mathrm{lb}$ cooked, drained lean lamb |
|  | Pound | 6.82 | 1-1/2 oz cooked lean meat | 14.7 |  |
| LAMB, LEG ROAST, fresh or frozen |  |  |  |  |  |
| Lamb, Leg Roast, fresh or frozen Without bone | Pound | 9.76 | 1 oz cooked lean meat | 10.3 | 1 lb AP $=0.61 \mathrm{lb}$ cooked Iean lamb |
|  | Pound | 6.50 | 1-1/2 oz cooked lean meat | 15.4 |  |
| LAMB, SHOULDER ROAST, fresh or frozen |  |  |  |  |  |
| Lamb, Shoulder Roast, fresh or frozen Without bone | Pound | 8.64 | $10 z$ cooked lean meat | 11.6 | 1 lb AP $=0.54 \mathrm{lb}$ cooked lean lamb |
|  | Pound | 5.76 | 1-1/2 oz cooked lean meat | 17.4 |  |
| LAMB, STEW MEAT, fresh or frozen |  |  |  |  |  |
| Lamb, Stew Meat, fresh or frozen Without bone | Pound | 10.4 | 1 oz cooked lean meat | 9.7 | 1 lb AP $=0.65 \mathrm{lb}$ cooked lean lamb |
|  | Pound | 6.93 | 1-1/2 oz cooked lean meat | 14.5 |  |
| LENTILS, dry |  |  |  |  |  |
| Lentils, dry | Pound | 29.6 | 1/4 cup cooked lentils | 3.4 | 1 lb dry $=$ about $2-3 / 8$ cups dry |
|  | Pound | 19.7 | $3 / 8$ cup cooked lentils | 5.1 |  |
| NUTS: TREE NUTS and OTHER NUTS, shelled ${ }^{27}$ |  |  |  |  |  |
| Tree Nuts <br> Almonds ${ }^{27}$ <br> Includes USDA <br> Commodity | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $3-1 / 2$ cups chopped almonds |
|  | 2 lb pkg | 32.0 | 1 oz nuts | 3.2 |  |
|  | 25 lb pkg | 400.0 | 1 oz nuts | 0.25 |  |
| Tree Nuts Brazil nuts ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $3-1 / 4$ cups whole Brazil nuts |

[^26]Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## NUTS: TREE NUTS and OTHER NUTS, shelled ${ }^{27}$ (continued)

| Tree Nuts Cashew nuts ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $3-1 / 3$ cups cashew nuts, whole or halves |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tree Nuts Filberts (Hazelnuts) ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about 4 cups chopped filberts |
| Tree Nuts Macadamia nuts ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $3-1 / 3$ cups whole macadamia nuts |
| Tree Nuts Pecans ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $3-3 / 4$ cups chopped pecans |
| Tree Nuts <br> Pine nuts (Pinyons) ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $2-7 / 8$ cups whole pine nuts |
| Tree Nuts Pistachio nuts ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $3-1 / 2$ cups pistachio nuts |
| Tree Nuts Walnuts ${ }^{27}$ Black | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $3-5 / 8$ cups chopped black walnuts |
| Tree Nuts <br> Walnuts ${ }^{27}$ <br> English <br> Includes USDA <br> Commodity | Pound 30 lb pkg | 16.0 480.0 | 1 oz nuts 1 oz nuts | 6.3 0.21 | $1 \mathrm{lb}=$ about $3-3 / 4$ cups pieces English walnuts |
| Other Nuts Peanut granules ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $3-1 / 4$ cups peanut granules |
| Other Nuts Peanuts ${ }^{27}$ Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (64 oz) } \end{aligned}$ | 64.0 | 1 oz nuts | 1.6 | 1 No. 10 can = about 12 cups roasted peanuts |
|  | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about 3 cups whole peanuts |
|  | 12 oz can | 12.0 | 1 oz nuts | 8.4 |  |
| Other Nuts Soy nuts ${ }^{27}$ | Pound | 16.0 | 1 oz nuts | 6.3 | $1 \mathrm{lb}=$ about $4-1 / 4$ cups whole soy nuts |

[^27]
## Section 1—Meat/Meat Alternates

| Food As <br> Purchased, AP | 2 Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | 4 Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | C Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| PEANUT BUTTER and OTHER NUT or SEED BUTTERS |  |  |  |  |  |

## PEAS

| PEAS, dry | Pound | 23.1 | $1 / 4$ cup cooked peas | 4.4 | 1 lb dry $=$ about 2-1/4 cups <br> dry <br> Peas, dry <br> Split |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 15.4 | $3 / 8$ cup cooked peas | 6.5 |  |
| Peas, dry <br> Whole | Pound | 25.6 | $1 / 4$ cup cooked peas | 4.0 | 1 lb dry $=$ about $2-1 / 3$ cups <br> dry |
|  | Pound | 17.0 | $3 / 8$ cup cooked peas | 5.9 |  |

## PEAS, BLACKEYED (see BEANS, BLACKEYED)

PEA SOUP

| Pea Soup, dry peas, <br> canned <br> Condensed <br> (1 part soup to 1 part <br> water) | No. 3 Cyl <br> (50 oz) | 23.0 | $1 / 2$ cup reconstituted <br> $(1 / 4$ cup cooked peas) | 4.4 | Reconstitute 1 part soup <br> with not more than 1 part <br> water |
| :--- | :--- | :--- | :--- | :--- | :--- |
| ncludes Cream of <br> pea soup | Pound | 7.30 | $1 / 2$ cup reconstituted <br> $(1 / 4$ cup cooked peas) | 13.7 |  |
| Pea Soup, dry peas, <br> canned <br> Ready-to-serve | 8 oz can | 1.00 | 1 cup serving <br> $(1 / 2$ cup cooked peas) | 100.0 |  |

## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | 4Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | 6Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## PORK, FRESH OR FROZEN

PORK, GROUND, fresh or frozen², 29

| Pork, Ground, fresh or frozen ${ }^{28}$ <br> no more than 30\% fat Market Style (Like IMPS \#496) | Pound | 11.2 | 1 oz cooked lean meat | 9.0 | 1 lb AP $=0.70 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 7.46 | 1-1/2 oz cooked lean meat | 13.5 |  |
| Pork, Ground, fresh or frozen ${ }^{29}$ <br> no more than 26\% fat (Like IMPS \#496) | Pound | 11.5 | 1 oz cooked lean meat | 8.7 | 1 lb AP $=0.72 \mathrm{lb}$ cooked lean meat |
|  | Pound | 7.68 | 1-1/2 oz cooked lean meat | 13.1 |  |
| Pork, Ground, fresh or frozen ${ }^{29}$ <br> no more than 24\% fat (Like IMPS \#496) | Pound | 11.6 | 1 oz cooked lean meat | 8.7 | 1 lb AP $=0.73 \mathrm{lb}$ cooked lean meat |
|  | Pound | 7.78 | 1-1/2 oz cooked lean meat | 12.9 |  |
| Pork, Ground, fresh or frozen ${ }^{29}$ no more than $20 \%$ fat Includes USDA Commodity (Like IMPS \#496) | Pound | 11.8 | $10 z$ cooked lean meat | 8.5 | 1 lb AP $=0.74 \mathrm{lb}$ cooked lean meat |
|  | Pound | 7.89 | 1-1/2 oz cooked lean meat | 12.7 |  |
| Pork, Ground, fresh or frozen ${ }^{29}$ <br> no more than $15 \%$ fat (Like IMPS \#496) | Pound | 12.0 | 1 oz cooked lean meat | 8.4 | 1 lb AP $=0.75 \mathrm{lb}$ cooked lean meat |
|  | Pound | 8.00 | 1-1/2 oz cooked lean meat | 12.5 |  |
| Pork, Ground, fresh or frozen ${ }^{29}$ no more than 10\% fat (Like IMPS \#496) | Pound | 12.1 | 1 oz cooked lean meat | 8.3 | 1 lb AP $=0.76 \mathrm{lb}$ cooked lean meat |
|  | Pound | 8.10 | 1-1/2 oz cooked lean meat | 12.4 |  |

[^28]
## Section 1—Meat/Meat Alternates

| Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |


| 4 Serving Size per Meal Contribution | Purchase Units for 100 Servings |
| :---: | :---: |

Purchase
Units
for 100
Servings
Additional Information

## PORK, HEART, fresh or frozen

| Pork, Heart, fresh or <br> frozen <br> Trimmed | Pound | 9.12 | 1 oz cooked lean meat | 11.0 | $1 \mathrm{lb} \mathrm{AP}=0.57 \mathrm{lb}$ cooked <br> pork heart |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pork, Heart, fresh <br> or frozen <br> Untrimmed | Pound | 6.08 | $1-1 / 2$ oz cooked lean meat | 16.5 | 1 oz cooked lean meat |
|  | Pound | 5.44 | $1-1 / 2$ oz cooked lean meat | 18.4 | 1 lb AP $=0.51 \mathrm{lb}$ cooked, <br> trimmed pork heart |
| PORK LEC (FRESH HAM), fresh or frozen |  |  |  |  |  |


| Pork Leg (Fresh Ham), fresh or frozen <br> Short shank With bone (Like IMPS \#401A) | Pound | 7.20 | 1 oz cooked lean meat | 13.9 | 1 lb AP $=0.45 \mathrm{lb}$ cooked, trimmed, boned, sliced lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 4.80 | 1-1/2 oz cooked lean meat | 20.9 |  |
| Pork Leg (Fresh Ham), fresh or frozen <br> Outside, Roast Without bone Practically-free-of-fat (Like IMPS \#402E) Includes USDA Commodity | Pound | 9.28 | 1 oz cooked lean meat | 10.8 | $1 \mathrm{lb} \mathrm{AP}=0.58 \mathrm{lb}$ cooked, trimmed, sliced lean meat |
|  | Pound | 6.18 | 1-1/2 oz cooked lean meat | 16.2 |  |
| Pork Leg (Fresh Ham), fresh or frozen Inside roast Without bone Practically-free-of-fat (Like IMPS \#402F) Includes USDA Commodity | Pound | 8.64 | 1 oz cooked lean meat | 11.6 | 1 lb AP $=0.54 \mathrm{lb}$ cooked, trimmed, sliced lean meat |
|  | Pound | 5.76 | 1-1/2 oz cooked lean meat | 17.4 |  |
| Pork Leg (Fresh Ham), fresh or frozen <br> Pork leg tip Without bone Practically-free-of-fat (Like IMPS \#402H) | Pound | 9.92 | 1 oz cooked lean meat | 10.1 | 1 lb AP $=0.62 \mathrm{lb}$ cooked lean meat |
|  | Pound | 6.61 | 1-1/2 oz cooked lean meat | 15.2 |  |
| PORK LIVER, fresh or frozen |  |  |  |  |  |
| Pork Liver, fresh or frozen <br> Whole <br> Untrimmed <br> (Like IMPS \#710) | Pound | 12.4 | 1 oz cooked lean meat | 8.1 | 1 lb AP $=0.78 \mathrm{lb}$ cooked, trimmed, sliced pork liver |
|  | Pound | 8.32 | 1-1/2 oz cooked lean meat | 12.1 |  |

## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution |
| :--- | :--- | :--- | :--- | :--- |

## PORK LOIN CHOPS, fresh or frozen

| Pork Loin Chops, fresh or frozen With bone 1/4-inch trim | Pound | 7.20 | 1 oz cooked lean meat | 13.9 | 1 lb AP $=0.45 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 4.80 | 1-1/2 oz cooked lean meat | 20.9 |  |
| Pork Loin Chops, fresh or frozen Without bone 1/4-inch trim (Like IMPS \#1413) | Pound | 9.44 | 1 oz cooked lean meat | 10.6 | $1 \mathrm{lb} \mathrm{AP}=0.59 \mathrm{lb}$ cooked, trimmed, sliced lean meat |
|  | Pound | 6.29 | 1-1/2 oz cooked lean meat | 15.9 |  |
| Pork Loin Chops, fresh or frozen Without bone, Practically-free-of-fat (Like IMPS \#1413) | Pound | 11.2 | 1 oz cooked lean meat | 9.0 | 1 lb AP $=0.70 \mathrm{lb}$ cooked lean meat |
|  | Pound | 7.46 | 1-1/2 oz cooked lean meat | 13.5 |  |

## PORK LOIN END CHOPS, fresh or frozen

| Pork Loin End Chops, <br> fresh or frozen <br> With bone <br> 1/4-inch trim <br> (Like IMPS \#1410B) | Pound | 5.60 | 1 oz cooked lean meat | 17.9 | 1 lb AP $=0.35 \mathrm{lb}$ cooked, <br> trimmed, boned sliced lean <br> meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pork Loin End Chops, <br> fresh or frozen <br> With bone <br> Practically-free-of-fat <br> (Like IMPS \#1410B) | Pound | Pound | 6.56 | $1-1 / 2$ oz cooked lean meat | 26.9 |

## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per |  |
| :---: | :---: |
| Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings |
|  |  |

Serving Size per
Meal Contribution

## PORK LOIN ROAST, fresh or frozen

| Pork Loin Roast, fresh or frozen With bone 1/4-inch trim (Like IMPS \#410) | Pound | 7.68 | 1 oz cooked lean meat | 13.1 | 1 lb AP $=0.48 \mathrm{lb}$ cooked, trimmed, boned, sliced lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 5.12 | 1-1/2 oz cooked lean meat | 19.6 |  |
| Pork Loin Roast, fresh or frozen Without bone 1/4-inch trim (Like IMPS \#413) | Pound | 9.28 | 1 oz cooked lean meat | 10.8 | 1 lb AP $=0.58 \mathrm{lb}$ cooked, trimmed, sliced lean meat |
|  | Pound | 6.18 | 1-1/2 oz cooked lean meat | 16.2 |  |
| Pork Loin Roast, fresh or frozen Without bone Practically-free-of-fat (Like IMPS \#413 ) | Pound | 10.2 | 1 oz cooked lean meat | 9.9 | 1 lb AP $=0.64 \mathrm{lb}$ cooked, trimmed, sliced lean meat |
|  | Pound | 6.82 | 1-1/2 oz cooked lean meat | 14.7 |  |
| Pork Loin Roast, fresh or frozen Center cut 11 Ribs With bone 1/4-inch trim (Like IMPS \#412C) | Pound | 5.28 | 1 oz cooked lean meat | 19.0 | 1 lb AP $=0.33 \mathrm{lb}$ cooked, boned, trimmed, sliced lean meat |
|  | Pound | 3.52 | 1-1/2 oz cooked lean meat | 28.5 |  |
| Pork Loin Roast, fresh or frozen <br> Center cut <br> 11 Ribs <br> With bone <br> Practically free of fat <br> (Like IMPS \#412C ) | Pound | 8.16 | 1 oz cooked lean meat | 12.3 | 1 lb AP $=0.51 \mathrm{lb}$ cooked, boned, trimmed, sliced lean meat |
|  | Pound | 5.44 | 1-1/2 oz cooked lean meat | 18.4 |  |
| Pork Loin Roast, fresh or frozen Center cut 11 ribs Without bone 1/4-inch trim (Like IMPS \#412E) | Pound | 9.92 | 1 oz cooked lean meat | 10.1 | 1 lb AP $=0.62 \mathrm{lb}$ cooked, trimmed, sliced lean meat |
|  | Pound | 6.61 | 1-1/2 oz cooked lean meat | 15.2 |  |

## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution |
| :--- | :--- | :--- | :--- | :--- |

## PORK SAUSAGE, fresh or frozen ${ }^{30,31}$

| Pork Sausage, fresh <br> or frozen <br> Bulk, Link, or Patty 30 <br> Market Style <br> Raw | Pound | 7.52 | 1 oz cooked lean meat | 13.3 | $1 \mathrm{lb} \mathrm{AP}=0.47 \mathrm{lb}$ cooked <br> lean meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pork Sausage, fresh <br> or frozen <br> Italian style 31 <br> no more than 35\% fat <br> (3\% water maximum) <br> Raw <br> (Like IMPS \#818) | Pound | 5.01 | $1-1 / 2$ oz cooked lean meat | 20.0 | 10 cz cooked lean meat |
|  |  |  |  |  |  |


| Pork Shoulder, Boston Butt, fresh or frozen With bone 1/4-inch trim (Like IMPS \#406) | Pound | 8.32 | 1 oz cooked lean meat | 12.1 | $1 \mathrm{lb} \mathrm{AP}=0.52 \mathrm{lb}$ cooked, boned, trimmed, sliced lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 5.54 | 1-1/2 oz cooked lean meat | 18.1 |  |
| Pork Shoulder, Boston Butt, fresh or frozen Without bone 1/4-inch trim (Like IMPS \#406A) | Pound | 9.60 | 1 oz cooked lean meat | 10.5 | 1 lb AP $=0.60 \mathrm{lb}$ cooked lean meat |
|  | Pound | 6.40 | 1-1/2 oz cooked lean meat | 15.7 |  |
| PORK SHOULDER, PICNIC, fresh or frozen |  |  |  |  |  |
| Pork Shoulder, Picnic, fresh or frozen With bone 1/4-inch trim (Like IMPS \#405) | Pound | 6.88 | 1 oz cooked lean meat | 14.6 | 1 lb AP $=0.43 \mathrm{lb}$ cooked, boned, trimmed, sliced lean meat |
|  | Pound | 4.58 | 1-1/2 oz cooked lean meat | 21.9 |  |

[^29]
## Section 1—Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | 6 Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PORK SHOULDER, PICNIC, fresh or frozen (continued) |  |  |  |  |  |
| Pork Shoulder, Picnic, fresh or frozen Without bone | Pound | 9.12 | 1 oz cooked lean meat | 11.0 | 1 lb AP $=0.57 \mathrm{lb}$ cooked, trimmed, sliced lean meat |
| 1/4-inch trim (Like IMPS \#405A) Includes USDA Commodity | Pound | 6.08 | 1-1/2 oz cooked lean meat | 16.5 |  |
| Pork Shoulder, Picnic, fresh or frozen Cushion | Pound | 10.4 | $10 z$ cooked lean meat | 9.7 | 1 lb AP $=0.65 \mathrm{lb}$ cooked, sliced lean meat |
| Without bone <br> Practically-free-of-fat <br> (Like IMPS \#405B) | Pound | 6.93 | 1-1/2 oz cooked lean meat | 14.5 |  |

## PORK SIRLOIN, ROAST, fresh or frozen

| Pork Sirloin Roast, fresh or frozen Without bone 1/4-inch trim (Like IMPS \#414A) | Pound | 9.92 | $10 z$ cooked lean meat | 10.1 | 1 lb AP $=0.62 \mathrm{lb}$ cooked, sliced lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 6.61 | 1-1/2 oz cooked lean meat | 15.2 |  |
| Pork Sirloin Roast, fresh or frozen Without bone Practically-free-of-fat (Like IMPS \#414A) | Pound | 9.12 | $10 z$ cooked lean meat | 11.0 | $1 \mathrm{lb} \mathrm{AP}=0.57 \mathrm{lb}$ cooked, sliced lean meat |
|  | Pound | 6.08 | 1-1/2 oz cooked lean meat | 16.5 |  |
| PORK SPARERIBS, fresh or frozen |  |  |  |  |  |
| Pork Spareribs, fresh or frozen | Pound | 6.24 | 1 oz cooked lean meat | 16.1 | 1 lb AP $=0.39 \mathrm{lb}$ cooked lean meat |
|  | Pound | 4.16 | 1-1/2 oz cooked lean meat | 24.1 |  |
| PORK STEAK, frozen |  |  |  |  |  |
| Pork Steak, fresh or frozen <br> Cubed <br> (Like IMPS \#1400) | Pound | 5.16 | One 3.1 oz raw steak when cooked provides 2 oz cooked lean meat | 19.4 | 1 lb AP $=0.65 \mathrm{lb}$ cooked lean meat |
|  | Pound | 3.40 | One 4.7 oz raw steak when cooked provides 3 oz lean cooked meat | 29.5 |  |
|  | Pound | 10.4 | 1 oz cooked lean meat | 9.7 |  |
|  | Pound | 6.93 | 1-1/2 oz cooked lean meat | 14.5 |  |

## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

PORK STEAK, frozen (continued)

| Pork Steak, fresh or frozen <br> Flaked and Formed 4 oz raw steaks (Like IMPS \#1438) | Pound | 4.00 | One 4.0 oz raw steak when cooked provides 2.7 oz cooked lean meat | 25.0 | 1 lb AP $=0.68 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |

PORK STEW MEAT, fresh or frozen

| Pork Stew Meat, <br> fresh or frozen <br> Composite of trimmed <br> retail cuts <br> Without bone <br> 1/4-inch trim <br> (Like IMPS \#435A) | Pound | 9.28 | 1 oz cooked lean meat | 10.8 | 1 lb AP $=0.58 \mathrm{lb}$ cooked, <br> trimmed, drained lean meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| PORK STOMACH (MAWS), fresh or frozen | 6.18 | $1-1 / 2$ oz cooked lean meat | 16.2 |  |  |
| Pork Stomach <br> (Maws), fresh or <br> frozen <br> Scalded <br> (Like IMPS \#729) | Pound | 11.3 | 1 oz cooked lean meat | 8.9 | 1 lb AP $=0.71 \mathrm{lb}$ cooked, <br> drained pork stomach |

PORK, MILD CURED

| PORK, MILD CURED, Ready-to-cook, chilled or frozen ${ }^{32}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pork, Mild Cured, Ready-to-cook, chilled or frozen | Pound | 11.0 | 1 oz cooked lean meat | 9.1 | 1 lb AP $=0.69 \mathrm{lb}$ cooked lean meat |
| Canadian bacon ${ }^{32}$ | Pound | 7.36 | 1-1/2 oz cooked lean meat | 13.6 |  |
| Pork, Mild Cured, Ready-to-cook, chilled or frozen Pork shoulder Boston butt ${ }^{32}$ With bone | Pound | 8.64 | 10 cooked lean meat | 11.6 | 1 lb AP $=0.54 \mathrm{lb}$ cooked lean meat |
|  | Pound | 5.76 | 1-1/2 oz cooked lean meat | 17.4 |  |
| Pork, Mild Cured, Ready-to-cook, chilled or frozen Pork shoulder Boston butt ${ }^{32}$ Without bone | Pound | 9.60 | 1 oz cooked lean meat | 10.5 | 1 lb AP $=0.60 \mathrm{lb}$ cooked lean meat |
|  | Pound | 6.40 | 1-1/2 oz cooked lean meat | 15.7 |  |

[^30]
## Section 1—Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |

PORK, MILD CURED, Ready-to-cook, chilled or frozen ${ }^{32}$ (continued)

| Pork, Mild Cured, <br> Ready-to-cook, chilled or frozen <br> Pork shoulder <br> Picnic ${ }^{32}$ <br> With bone | Pound | 6.72 | 1 oz cooked lean meat | 14.9 | 1 lb AP $=0.42 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 4.48 | 1-1/2 oz cooked lean meat | 22.4 |  |
| Pork, Mild Cured, Ready-to-cook, chilled or frozen | Pound | 8.48 | 1 oz cooked lean meat | 11.8 | 1 lb AP $=0.53 \mathrm{lb}$ cooked lean meat |
| Pork Shoulder Picnic ${ }^{32}$ <br> Without bone | Pound | 5.65 | 1-1/2 oz cooked lean meat | 17.7 |  |

PORK, MILD CURED, Fully Cooked, chilled or frozen ${ }^{32,33}$

| Pork, Mild Cured, Ready-to-cook, chilled or frozen | Pound | 10.0 | 1 oz cooked lean meat | 10.0 | 1 lb AP $=0.63 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{Ham}^{32}$ <br> Without bone | Pound | 6.72 | 1-1/2 oz cooked lean meat | 14.9 |  |
| Pork, Mild Cured, Fully Cooked, chilled or frozen <br> Ham | Pound | 14.2 | 1.12 oz ham with natural juices (provides 1 oz lean cooked meat) | 7.0 | 1 lb AP $=0.90 \mathrm{lb}$ cooked lean meat (Protein Fat Free value of 18.5) |
| With natural juices ${ }^{32}$ <br> Boiled <br> Without bone <br> (Like IMPS \#508 <br> Style B) | Pound | 9.58 | 1.67 oz ham with natural juices (provides 1-1/2 oz cooked lean meat) | 10.5 |  |
| Pork, Mild Cured, Fully Cooked, chilled or frozen Ham | Pound | 14.2 | 1.12 oz ham with natural juices (provides 1 oz lean cooked meat) | 7.0 | 1 lb AP $=0.90 \mathrm{lb}$ cooked lean meat (Protein Fat Free value of 18.5) |
| With natural juices ${ }^{32}$ <br> Smoked <br> Without bone <br> (Like IMPS \#509 <br> Style B) | Pound | 9.58 | 1.67 oz ham with natural juices (provides 1-1/2 oz cooked lean meat) | 10.5 |  |

[^31]
## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |

## PORK, MILD CURED, Fully Cooked, chilled or frozen ${ }^{32}$ (continued)

| Pork, Mild Cured, Fully Cooked, chilled or frozen | Pound | 13.1 | 1.22 oz ham water added (provides 1 oz cooked lean meat) | 7.7 | 1 lb AP $=0.82 \mathrm{lb}$ cooked Iean meat (Protein Fat Free value of 17.0) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Water added ${ }^{32}$ <br> Smoked <br> Rolled <br> Fully cooked <br> (Like IMPS \#505 <br> Style C) <br> USDA Commodity | Pound | 8.74 | 1.83 oz ham water added (provides 1-1/2 oz cooked lean meat) | 11.5 |  |
| Pork, Mild Cured, Fully Cooked, chilled or frozen Ham | Pound | 13.1 | 1.22 oz ham water added (provides 1 oz cooked lean meat) | 7.7 | 1 lb AP $=0.82 \mathrm{lb}$ cooked Iean meat (Protein Fat Free value of 17.0) |
| Water added ${ }^{32}$ <br> Boiled <br> Without bone <br> (Like IMPS \#508 <br> Style C) | Pound | 8.74 | 1.83 oz ham water added (provides 1-1/2 oz cooked lean meat) | 11.5 |  |
| Pork, Mild Cured, Fully Cooked, chilled or frozen Ham | Pound | 13.1 | 1.22 oz ham water added (provides 1 oz cooked lean meat) | 7.7 | 1 lb AP $=0.82 \mathrm{lb}$ cooked lean meat (Protein Fat Free value of 17.0) |
| Water added ${ }^{32}$ <br> Chunked and Formed <br> Smoked <br> Without bone <br> (Like IMPS \#511 <br> Style C) | Pound | 8.74 | 1.83 oz ham water added (provides 1-1/2 oz cooked lean meat) | 11.5 |  |
| Pork, Mild Cured, Fully Cooked, chilled or frozen <br> Pork Shoulder | Pound | 11.5 | 1.39 oz cooked pork water added (provides 1.0 oz lean cooked meat) | 8.7 | 1 lb AP $=0.72 \mathrm{lb}$ cooked pork shoulder water added $($ Protein fat free value $=16.5)$ |
| Boston butt <br> Water added ${ }^{32}$ <br> Without bone <br> Smoked <br> Special <br> (Like IMPS \#531 Style C) | Pound | 7.61 | 2.1 oz cooked pork water added (provides 1-1/2 oz lean cooked meat) | 13.2 |  |

[^32]
## Section 1—Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | 6 <br> Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PORK, MILD CURED, canned ${ }^{32}$ |  |  |  |  |  |
| Pork, Mild Cured, canned $\mathrm{Ham}^{32}$ | Pound | 10.2 | 1 oz heated lean meat | 9.9 | 1 lb AP $=0.64 \mathrm{lb}$ cooked lean meat |
|  | Pound | 6.82 | 1-1/2 oz heated lean meat | 14.7 |  |
|  | Pound | 10.2 | 1.2 oz unheated meat (provides 1 oz heated lean meat) | 9.9 |  |
|  | Pound | 6.82 | 1.8 oz unheated meat (provides 1.5 oz cooked lean meat) | 14.7 |  |

## PORK, COOKED

PORK, CANNED

| Pork, canned <br> Pork with Natural <br> Juices <br> USDA Commodity | No. 2-1/2 <br> can (29 oz) | 14.7 | 1 oz heated, drained lean <br> meat 2-1/2 <br> can (29 oz) | 9.86 | 6.9 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pound | 8.16 | $1-1 / 2$ oz heated, drained <br> lean meat | 10.2 | 1 lb AP $=0.51 \mathrm{lb}$ heated, <br> drained pork <br> meat |  |
| Pound | 5.44 | $1-1 / 2$ oz heated, drained <br> lean meat | 18.4 | 12.3 |  |

## SEAFOOD

Seafood, CLAMS, fresh, frozen or canned

| Seafood, fresh or <br> frozen <br> Clams <br> Shucked <br> Drained | Pound | 8.00 | 1 oz cooked fish | 12.5 | $1 \mathrm{lb} \mathrm{AP}=0.50 \mathrm{lb}$ cooked <br> clams |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Seafood, fresh or <br> frozen <br> Clams <br> Minced | Pound | 5.33 | 10.5 | $1-1 / 2$ oz cooked fish | 18.8 |

[^33]
## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Seafood, CLAMS, fresh, frozen or canned (continued)

| Seafood, canned <br> Clams <br> Minced 51 oz can 19.3 1 oz heated fish 5.2 51 oz can $=$ about 22.0 oz <br> drained, unheated clams <br>  51 oz can <br> $7-1 / 2$ oz <br> can <br> $7-1 / 2 ~ o z ~$ <br> can 12.8 2.83 $1-1 / 2$ oz heated fish 1 oz heated fish |
| :--- |



## Seafood, CRAWFISH, fresh or frozen

| Seafood, fresh <br> Crawfish <br> Whole <br> In shell | Pound | 1.28 | 1 oz cooked fish | 78.2 | $1 \mathrm{lb} \mathrm{AP}=0.08 \mathrm{lb}$ cooked, <br> shelled crawfish tail meat |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Live | Pound | 0.85 | $1-1 / 2 \mathrm{oz}$ cooked fish | 117.7 |  |
| Seafood, fresh or <br> frozen <br> Crawfish <br> Tail meat <br> Peeled and Deveined <br> Cooked | Pound | 14.4 | 1 oz heated fish | 7.0 | $1 \mathrm{lb} \mathrm{AP}=0.90 \mathrm{lb}$ heated <br> crawfish tail meat |

Seafood, FISH FILLETS and STEAKS, fresh or frozen

| Seafood, fresh or <br> frozen <br> Fish Fillets | Pound | 11.2 | 1 oz cooked fish | 9.0 | 1 lb AP $=0.70 \mathrm{lb}$ cooked fish |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Seafood, fresh or <br> frozen <br> Fish Steaks <br> Cross cut <br> With bone | Pound | Pound | 7.46 | $1-1 / 2$ oz cooked fish | 13.5 |

## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Seafood, FISH PORTIONS, frozen ${ }^{34,35,36}$

| Seafood, frozen Fish Portions ${ }^{34}$ Fried battered (45 percent fish) ${ }^{35}$ (Not from minced fish) | Pound | 5.33 | 1 portion (about 1.1 oz cooked fish) | 18.8 | $1 \mathrm{lb} \mathrm{AP}=0.37 \mathrm{lb}$ cooked fish |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 oz portion | Pound | 8.00 | 1 portion (about 0.7 oz cooked fish) | 12.5 | $1 \mathrm{lb} \mathrm{AP}=0.37 \mathrm{lb}$ cooked fish |
| Seafood, frozen <br> Fish Portions ${ }^{34}$ <br> Fried breaded ( 65 percent fish) ${ }^{36}$ (Not from minced fish) |  |  |  |  |  |
| 4 oz portion | Pound | 4.00 | 1 portion (about 2.2 oz cooked fish) | 25.0 | $1 \mathrm{lb} \mathrm{AP}=0.54 \mathrm{lb}$ cooked fish |
| 3 oz portion | Pound | 5.33 | 1 portion (about 1.6 oz cooked fish) | 18.8 | $1 \mathrm{lb} \mathrm{AP}=0.54 \mathrm{lb}$ cooked fish |
| 2 oz portion | Pound | 8.00 | 1 portion (about 1.1 oz cooked fish) | 12.5 | $1 \mathrm{lb} \mathrm{AP}=0.54 \mathrm{lb}$ cooked fish |

[^34]
## Section 1-Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | Additional information |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Seafood, frozen <br> Fish Portions ${ }^{34}$ <br> Raw breaded <br> (75 percent fish) ${ }^{37}$ <br> (Not from minced <br> fish) <br> 4 oz portion | Pound | 4.00 | 1 portion (about 2.3 oz cooked fish) | 25.0 | $1 \mathrm{lb} \mathrm{AP}=0.58 \mathrm{lb}$ cooked fish |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 oz portion | Pound | 5.33 | 1 portion (about 1.7 oz cooked fish) | 18.8 | $1 \mathrm{lb} \mathrm{AP}=0.58 \mathrm{lb}$ cooked fish |
| 2 oz portion | Pound | 8.00 | 1 portion (about 1.2 oz cooked fish) | 12.5 | $1 \mathrm{lb} \mathrm{AP}=0.58 \mathrm{lb}$ cooked fish |
| Seafood, frozen Fish Portions ${ }^{34}$ Raw unbreaded (not from minced fish) |  |  |  |  |  |
| 4 oz portion | Pound | 4.00 | 1 portion (about 3.1 oz cooked fish) | 25.0 | $1 \mathrm{lb} \mathrm{AP}=0.78 \mathrm{lb}$ cooked fish |
| 3 oz portion | Pound | 5.33 | 1 portion (about 2.3 oz cooked fish) | 18.8 | $1 \mathrm{lb} \mathrm{AP}=0.78 \mathrm{lb}$ cooked fish |
| 2 oz portion | Pound | 8.00 | 1 portion (about 1.6 oz cooked fish) | 12.5 | $1 \mathrm{lb} \mathrm{AP}=0.78 \mathrm{lb}$ cooked fish |

[^35]
## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Cidditional |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Information |  |  |  |  |  |

## Seafood, FISH STICKS, frozen ${ }^{34,38}$

| Seafood, frozen <br> Fish Sticks ${ }^{34}$ <br> Fried breaded <br> ( 60 percent fish) ${ }^{38}$ <br> (Not from minced <br> fish) <br> 1 oz stick | Pound | 16.0 | 1 stick (about 0.5 oz cooked fish) | 6.3 | $1 \mathrm{lb} \mathrm{AP}=0.49 \mathrm{lb}$ cooked fish |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 8.00 | 2 sticks (about 1.0 oz cooked fish) | 12.5 |  |
|  | Pound | 5.33 | 3 sticks (about 1.5 oz cooked fish) | 18.8 |  |
|  | Pound | 4.00 | 4 sticks (about 2.0 oz cooked fish) | 25.0 |  |
| Seafood, frozen <br> Fish Sticks ${ }^{34}$ <br> Raw breaded <br> (72 percent fish) (Not from minced fish) <br> 1 oz stick | Pound | 16.0 | 1 stick (about 0.6 oz cooked fish) | 6.3 | $1 \mathrm{lb} \mathrm{AP}=0.56 \mathrm{lb}$ cooked fish |
|  | Pound | 8.00 | 2 sticks (about 1.1 oz cooked fish) | 12.5 |  |
|  | Pound | 5.33 | 3 sticks (about 1.7 oz cooked fish) | 18.8 |  |
|  | Pound | 4.00 | 4 sticks (about 2.2 oz cooked fish) | 25.0 |  |
| Seafood, MACKEREL, chilled, frozen, or canned |  |  |  |  |  |
| Seafood, chilled or frozen <br> Mackerel <br> Smoked, Cooked <br> Whole <br> Split <br> With bone <br> With skin | Pound | 9.76 | 1 oz fish without bone or skin | 10.3 | 1 lb AP $=0.61 \mathrm{lb}$ deheaded, skinned, boned, mackerel |
|  | Pound | 6.50 | $1-1 / 2$ oz fish without bone or skin | 15.4 |  |

[^36]
## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per |
| :--- | :--- |
| Meal Contribution |$\quad$| 5Purchase <br> Units <br> for 100 <br> Servings |
| :--- |

Serving Size per
Meal Contribution

## Seafood, MACKEREL, chilled, frozen, or canned (continued)

| Seafood, canned Mackerel | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 8.87 | $10 z$ drained fish | 11.3 | 1 No. 300 can = about 8-7/8 oz drained, unheated mackerel |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. } 300 \text { can } \\ (15 \mathrm{oz}) \end{array}$ | 5.91 | 1-1/2 oz drained fish | 17.0 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 7.95 | $10 z$ heated, drained fish | 12.6 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 5.30 | 1-1/2 oz heated, drained fish | 18.9 |  |
| Seafood, OYSTERS, fresh or frozen |  |  |  |  |  |
| Seafood, fresh or frozen Oysters Shucked Drained | Pound | 8.00 | 1 oz cooked fish | 12.5 | 1 lb AP $=0.50 \mathrm{lb}$ cooked oysters |
|  | Pound | 5.33 | 1-1/2 oz cooked fish | 18.8 |  |
| Seafood, SALMON, pouch pack or canned |  |  |  |  |  |
| Seafood, pouch pack <br> Salmon <br> Without bone <br> Without skin <br> Water-packed <br> Includes USDA <br> Commodity | Pound | 13.7 | $10 z$ drained fish | 7.3 | 1 lb AP $=0.86 \mathrm{lb}$ drained salmon |
|  | Pound | 9.17 | 1-1/2 oz drained fish | 11.0 |  |
|  | 4 lb pouch | 55.0 | 102 drained fish | 1.9 |  |
|  | 4 lb Pouch | 36.6 | 1-1/2 drained fish | 2.8 |  |
| Seafood, canned Salmon Pink | 64 oz can | 48.0 | 1 oz heated fish | 2.1 | 64 oz can = about 52.0 oz drained, unheated pink salmon |
|  | 64 oz can | 32.0 | 1-1/2 oz heated fish | 3.2 |  |

## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Seafood, SALMON, pouch pack or canned (continued)

| Seafood, canned <br> Salmon <br> Water-packed <br> Includes USDA <br> Commodity | $15-1 / 2$ oz <br> can | 11.6 | 1 oz heated fish | 8.7 | $15-1 / 2$ oz can $=$ about <br> can |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | $12-3 / 4$ oz drained, unheated <br> salmon with bones and skin |  |  |  |  |
| $14-3 / 4 ~ o z$ <br> can <br> $14-3 / 4 ~ o z ~$ <br> can | 9.09 | 6.06 | 1 oz heated fish | 11.1 | $14-3 / 40 z$ can $=10.0$ oz <br> drained, unheated salmon <br> with bones and skin |

Seafood, SARDINES, canned

| Seafood, canned <br> Sardines <br> Whole | 15 oz can | 13.2 | $10 z$ fish | 7.6 | 15 oz can = about <br> 13-1/4 oz drained sardines |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 150 c can | 8.80 | 1-1/2 oz fish | 11.4 |  |
| Seafood, SCALLOPS, frozen |  |  |  |  |  |
| Seafood, frozen Scallops | Pound | 8.48 | 1 oz cooked fish | 11.8 | 1 lb AP $=0.53 \mathrm{lb}$ cooked scallops |
|  | Pound | 5.65 | 1-1/2 oz cooked fish | 17.7 |  |
| Seafood, SHRIMP, fresh or frozen |  |  |  |  |  |
| Seafood, fresh or frozen <br> Shrimp <br> In shell <br> Deheaded <br> Undeveined | Pound | 8.64 | 1 oz cooked fish | 11.6 | 1 lb AP $=0.54 \mathrm{lb}$ cooked shrimp |
|  | Pound | 5.76 | 1-1/2 oz cooked fish | 17.4 |  |
| Seafood, fresh or frozen <br> Shrimp <br> Peeled <br> Undeveined <br> 60/70 count//b <br> (medium) | Pound | 11.5 | 1 oz cooked fish | 8.7 | 1 lb AP $=0.72 \mathrm{lb}$ cooked shrimp |
|  | Pound | 7.68 | 1-1/2 oz cooked fish | 13.1 |  |

## Section 1-Meat/Meat Alternates

Food As
Purchased, AP

| 2 Purchase |
| :---: | :---: | :---: |
| Unit |$\quad$| Servings |
| :--- |
| per <br> Purchase <br> Unit, EP |


| 5 Purchase |
| :---: |
| Units for |
| 100 Serv- |
| ings |

## Additional

 InformationSeafood, SHRIMP, fresh or frozen (continued)

| Seafood, fresh or <br> frozen <br> Shrimp <br> Peeled <br> Deveined | Pound | 9.92 | 1 oz cooked fish | 10.1 |
| :--- | :--- | :--- | :--- | :--- |

## Seafood, SHRIMP, COOKED, frozen

| Seafood, cooked, frozen <br> Shrimp <br> Peeled <br> Deveined <br> All sizes except for <br> salad size | Pound (frozen) | 13.2 | 1 oz heated fish | 7.6 | 1 lb AP $=0.83 \mathrm{lb}$ thawed, ready-to-eat shrimp |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound (frozen) | 8.85 | 1-1/2 oz heated fish | 11.3 |  |
|  | Pound (thawed) | 16.0 | 1 oz heated fish | 6.3 | 1 lb thawed $=1.00 \mathrm{lb}$ ready-to-eat shrimp |
|  | Pound (thawed) | 10.6 | 1-1/2 oz heated fish | 9.5 |  |
| Seafood, cooked, frozen <br> Shrimp <br> Peeled <br> Deveined or <br> Undeveined <br> Salad size <br> (150-200 count/lb) | Pound (frozen) | 12.8 | 1 oz heated fish | 7.9 | 1 lb AP $=0.80 \mathrm{lb}$ thawed shrimp |
|  | Pound (frozen) | 8.53 | 1-1/2 oz heated fish | 11.8 |  |
|  | Pound (thawed) | 16.0 | 1 oz heated fish | 6.3 | 1 lb thawed $=1.00 \mathrm{lb}$ ready-to-eat shrimp |
|  | Pound (thawed) | 10.6 | 1-1/2 oz heated fish | 9.5 |  |
| Seafood, SHRIMP, canned |  |  |  |  |  |
| Seafood, canned Shrimp | 13-1/4 oz can (drained weight) | 13.2 | $10 z$ fish | 7.6 | 1 can $=13-1 / 4$ oz drained, shrimp |
|  | $13-1 / 4 \text { oz }$ <br> can (drained weight) | 8.80 | 1-1/2 oz fish | 11.4 |  |
| Seafood, SQUID, CALAMARI, frozen |  |  |  |  |  |
| Seafood, frozen Squid, Calamari Rings only | Pound | 10.7 | 1 oz cooked fish | 9.4 | 1 lb AP $=0.67 \mathrm{lb}$ cooked squid |
|  | Pound | 7.14 | 1-1/2 oz cooked fish | 14.1 |  |

## Section 1—Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Seafood, TUNA, canned |  |  |  |  |  |
| Seafood, canned <br> Tuna <br> Chunk style <br> Water packed <br> Includes USDA <br> Commodity | $\begin{aligned} & 66-1 / 2 \text { oz } \\ & \text { can } \end{aligned}$ | 51.2 | $10 z$ drained fish | 2.0 | 66-1/2 oz can = about 51.2 oz drained tuna |
|  | $66-1 / 2 \text { oz }$ | 34.1 | 1-1/2 oz drained fish | 3.0 |  |
|  | 12 oz can | 10.5 | $10 z$ drained fish | 9.6 | $\begin{aligned} & 12 \mathrm{oz} \text { can = about } 10.5 \mathrm{oz} \\ & \text { drained tuna } \end{aligned}$ |
|  | 12 oz can | 7.00 | 1-1/2 oz drained fish | 14.3 |  |
|  | 6 oz can | 5.26 | $10 z$ drained fish | 19.2 | 6 oz can $=$ about 5.2 oz drained tuna |
|  | 6 oz can | 3.50 | 1-1/2 oz drained fish | 28.8 |  |
| Seafood, canned <br> Tuna <br> Solid <br> Water packed | $\begin{aligned} & 66-1 / 2 \text { oz } \\ & \text { can } \end{aligned}$ | 50.5 | $10 z$ drained fish | 2.0 | 66-1/2 oz can = about 50.5 oz drained tuna |
|  | $\begin{aligned} & 66-1 / 2 \text { oz } \\ & \text { can } \end{aligned}$ | 33.6 | 1-1/2 oz drained fish | 3.0 |  |
|  | 12 oz can | 10.4 | $10 z$ drained fish | 9.7 | $\begin{aligned} & 12 \mathrm{oz} \text { can = about } 10.4 \mathrm{oz} \\ & \text { drained tuna } \end{aligned}$ |
|  | 12 oz can | 6.95 | 1-1/2 oz drained fish | 14.4 |  |
|  | 6 oz can | 5.40 | $10 z$ drained fish | 18.6 | 6 oz can $=$ about 5.4 oz drained tuna |
|  | 6 oz can | 3.60 | 1-1/2 oz drained fish | 27.8 |  |
| Seafood, canned Tuna Grated or Flake | 60 oz can | 55.0 | $10 z$ drained fish | 1.9 | 60 oz can = about 55.0 oz drained tuna |
|  | 60 oz can | 36.6 | 1-1/2 oz drained fish | 2.8 |  |
|  | 6 oz can | 5.40 | $10 z$ drained fish | 18.6 | 6 oz can = about 5.4 oz drained tuna |
|  | 6 oz can | 3.60 | 1-1/2 oz drained fish | 27.8 |  |

## Section 1-Meat/Meat Alternates

| Food As <br> Purchased, AP | 2 Purchase | $3$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## SEEDS ${ }^{39}$

| SEEDS |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Seeds <br> Sig <br> Pumpkin and Squash <br> Shelled | Pound | 16.0 | 1 oz seeds | 6.3 | $1 \mathrm{lb}=$ about 2 cups pumpkin <br> or squash seeds |
| Seeds 39 <br> Sesame | Pound | 16.0 | 1 oz seeds | 6.3 | $1 \mathrm{lb}=$ about $3-1 / 8$ cups <br> sesame seeds |
| Seeds ${ }^{39}$ <br> Sunflower <br> Shelled | Pound | 16.0 | 1 oz seeds | 6.3 | $1 \mathrm{lb}=$ about $3-1 / 2$ cups <br> sunflower seeds |

## TURKEY, FRESH OR FROZEN

## TURKEY, WHOLE, fresh or frozen

| Turkey, Whole, fresh or frozen <br> Without neck and Giblets Includes USDA Commodity | Pound | 8.48 | 1 oz cooked turkey with skin | 11.8 | 1 lb AP $=0.53 \mathrm{lb}$ cooked turkey with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 5.65 | 1-1/2 oz cooked turkey with skin | 17.7 |  |
|  | Pound | 7.52 | 1 oz cooked turkey without skin | 13.3 | 1 lb AP $=0.47 \mathrm{lb}$ cooked turkey without skin |
|  | Pound | 5.01 | 1-1/2 oz cooked turkey without skin | 20.0 |  |
| Turkey, Whole, fresh or frozen With Neck and Giblets | Pound | 7.68 | $10 z$ cooked turkey with skin without meat from neck and giblets | 13.1 | $1 \mathrm{lb} \mathrm{AP}=0.48 \mathrm{lb}$ cooked turkey with skin without meat from neck and giblets |
|  | Pound | 5.12 | 1-1/2 oz with skin without meat from neck and giblets | 19.6 |  |
|  | Pound | 6.72 | 1-1/2 oz cooked turkey without skin, giblets, and meat from neck | 14.9 | 1 lb AP $=0.42 \mathrm{lb}$ cooked turkey without skin, giblets and meat from neck |
|  | Pound | 4.48 | 1-1/2 oz without skin, giblets and meat from neck | 22.4 |  |

[^37]Section 1-Meat/Meat Alternates

| Food As |  |  |
| :--- | :--- | :--- |
| Purchased, AP | 2 Purchase | Servings <br> Unit <br> per <br> Purchase <br> Unit, EP |


| Serving Size per | $\begin{array}{l}\text { Purchase } \\ \text { Meal Contribution } \\ \text { Units } \\ \text { for } 100 \\ \text { Servings }\end{array}$ |
| :--- | :--- | per Meal Contribution

Additional Information

## TURKEY PARTS, fresh or frozen

| Turkey parts, fresh or frozen <br> Turkey Backs <br> With bone Ready-to-cook | Pound | 6.88 | 1 oz cooked turkey with skin | 14.6 | 1 lb AP $=0.43 \mathrm{lb}$ cooked turkey with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 4.58 | $1-1 / 2$ oz cooked turkey with skin | 21.9 |  |
|  | Pound | 5.44 | 1 oz cooked turkey without skin | 18.4 | 1 lb AP $=0.34 \mathrm{lb}$ cooked turkey without skin |
|  | Pound | 3.62 | 1-1/2 oz cooked turkey without skin | 27.7 |  |
| Turkey parts, fresh or frozen <br> Turkey Breasts <br> Whole or Halves <br> With bone | Pound | 10.2 | 1 oz cooked turkey with skin | 9.9 | 1 lb AP $=0.64 \mathrm{lb}$ cooked turkey with skin |
|  | Pound | 6.82 | 1-1/2 oz cooked turkey with skin | 14.7 |  |
|  | Pound | 9.12 | 1 oz cooked turkey without skin | 11.0 | 1 lb AP $=0.57 \mathrm{lb}$ cooked turkey without skin |
|  | Pound | 6.08 | 1-1/2 oz cooked turkey without skin | 16.5 |  |
| Turkey parts, fresh or frozen <br> Turkey Drumsticks With bone | Pound | 7.68 | 1 oz cooked turkey with skin | 13.1 | 1 lb AP $=0.48 \mathrm{lb}$ cooked turkey with skin |
|  | Pound | 5.12 | $1-1 / 2$ oz cooked turkey with skin | 19.6 |  |
|  | Pound | 7.04 | 1 oz cooked turkey without skin | 14.3 | 1 lb AP $=0.44 \mathrm{lb}$ cooked turkey without skin |
|  | Pound | 4.69 | 1-1/2 oz cooked turkey without skin | 21.4 |  |
| Turkey parts, fresh or frozen <br> Turkey Halves <br> With bone | Pound | 8.48 | 1 oz cooked turkey with skin | 11.8 | 1 lb AP $=0.53 \mathrm{lb}$ cooked turkey with skin |
|  | Pound | 5.65 | 1-1/2 oz cooked turkey with skin | 17.7 |  |
|  | Pound | 7.36 | 1 oz cooked turkey without skin | 13.6 | 1 lb AP $=0.46 \mathrm{lb}$ cooked turkey without skin |
|  | Pound | 4.90 | 1-1/2 oz cooked turkey without skin | 20.5 |  |

## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## TURKEY PARTS, fresh or frozen (continued)

| Turkey parts, fresh or frozen <br> Turkey Leg Quarters With bone | Pound | 8.48 | 1 oz cooked turkey with skin | 11.8 | 1 lb AP $=0.53 \mathrm{lb}$ cooked turkey with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 5.65 | 1-1/2 oz cooked turkey with skin | 17.7 |  |
|  | Pound | 7.68 | 1 oz cooked turkey without skin | 13.1 | $1 \mathrm{lb} \mathrm{AP}=0.48 \mathrm{lb}$ cooked turkey without skin |
|  | Pound | 5.12 | 1-1/2 oz cooked turkey without skin | 19.6 |  |
| Turkey parts, fresh or frozen <br> Turkey Necks <br> With bone | Pound | 7.68 | 1 oz cooked turkey | 13.1 | 1 lb AP $=0.48 \mathrm{lb}$ cooked turkey |
|  | Pound | 5.12 | 1-1/2 oz cooked turkey | 19.6 |  |
| Turkey parts, fresh or frozen <br> Turkey Thighs <br> With bone | Pound | 8.64 | 1 oz cooked turkey with skin | 11.6 | 1 lb AP $=0.54 \mathrm{lb}$ cooked turkey with skin |
|  | Pound | 5.76 | 1-1/2 oz cooked turkey with skin | 17.4 | 1 lb AP $=0.50 \mathrm{lb}$ cooked turkey without skin |
|  | Pound | 8.00 | 1 oz cooked turkey without skin | 12.5 |  |
|  | Pound | 5.33 | 1-1/2 oz cooked turkey without skin | 18.8 |  |
| Turkey parts, fresh or frozen <br> Turkey Wings <br> With bone <br> Whole | Pound | 5.28 | 1 oz cooked turkey without skin | 19.0 | 1 lb AP $=0.33 \mathrm{lb}$ cooked turkey without skin |
|  | Pound | 3.52 | 1-1/2 oz cooked turkey without skin | 28.5 |  |
| TURKEY ROAST, frozen ${ }^{40}$ |  |  |  |  |  |
| Turkey Roast, frozen ${ }^{40}$ Without bone USDA Commodity only | Pound | 10.5 | 1 oz cooked turkey with skin | 9.6 | 1 lb AP $=0.66 \mathrm{lb}$ cooked turkey with skin |
|  | Pound | 7.04 | 1-1/2 oz cooked turkey with skin | 14.3 |  |

[^38]Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per Meal Contribution | Purchase Units for 100 Servings | 6 Additional Information |
| :---: | :---: | :---: |

TURKEY, BONELESS, fresh or frozen

| Turkey, Boneless, <br> fresh or frozen <br> With skin in natural <br> proportions | Pound | 11.2 | 1 oz cooked turkey with skin | 9.0 | $1 \mathrm{lb} \mathrm{AP}=0.70 \mathrm{lb}$ cooked <br> turkey with skin |
| :--- | :--- | :--- | :--- | :--- | :--- |

TURKEY BURGERS, frozen
$\left.\begin{array}{|l|l|l|l|l|l|}\hline \begin{array}{l}\text { Turkey Burgers, } \\ \text { frozen } \\ \text { 100\% ground turkey } \\ \text { 3 oz raw weight }\end{array} & 1 \text { pound } & 5.33 & \begin{array}{l}\text { One 3-oz raw turkey burger } \\ \text { when cooked provides } \\ \text { USDA Commodity } \\ \text { only }\end{array} & 6 \mathrm{lb} \text { pkg oz cooked turkey }\end{array}\right\}$

TURKEY GIBLETS, fresh or frozen
\(\left.$$
\begin{array}{l|l|l|l|l|l}\hline \begin{array}{l}\text { Turkey Giblets, fresh } \\
\text { or frozen } \\
\text { Gizzards }\end{array} & \text { Pound } & 9.12 & 1 \text { oz cooked turkey } & 11.0 & \begin{array}{l}1 \mathrm{lb} \mathrm{AP}=0.57 \mathrm{lb} \text { cooked } \\
\text { whole gizzards }\end{array}
$$ <br>
\hline \begin{array}{l}Turkey Giblets, fresh <br>
or frozen <br>

Hearts\end{array} \& Pound \& 6.08 \& 9.12 \& 1-1 / 2 oz cooked turkey \& 16.5\end{array}\right]\)| Pound |
| :--- |

## Section 1-Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## TURKEY, COOKED

TURKEY, canned

| Turkey, canned Boned Turkey | Pound | 14.0 | 1 oz cooked turkey with skin | 7.2 | 1 lb AP $=0.88 \mathrm{lb}$ cooked turkey with skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 9.38 | $1-1 / 2$ oz cooked turkey with skin | 10.7 |  |
| Turkey, canned Boned Turkey Solid pack | Pound | 14.8 | 1 oz cooked turkey with skin | 6.8 | 1 lb AP $=0.93 \mathrm{lb}$ cooked turkey with skin |
|  | Pound | 9.92 | $1-1 / 2$ oz cooked turkey with skin | 10.1 |  |
| Turkey, canned Boned Turkey With Broth | Pound | 12.4 | 1 oz cooked turkey with skin | 8.1 | 1 lb AP $=0.78 \mathrm{lb}$ cooked turkey with skin |
|  | Pound | 8.32 | $1-1 / 2$ oz cooked turkey with skin | 12.1 |  |

## TURKEY, COOKED, frozen

| Turkey, cooked, frozen <br> Diced or pulled <br> Light and dark meat <br> in natural proportions <br> (no skin, wing meat, Pound 16.0 1 oz cooked turkey 6.3 $1 \mathrm{lb} \mathrm{AP}=1.00 \mathrm{lb}$ (about <br> neck meat, giblets or <br> kidneys) <br> TURK 10.6 $1-1 / 2$ cups) cooked turkey    |
| :--- |


| Turkey Ham, Fully cooked, chilled or frozen ${ }^{41}$ | Pound | 11.2 | 1.4 oz serving ( 1 oz cooked turkey) | 9.0 | 1 lb AP $=0.70 \mathrm{lb}$ cooked turkey |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 7.46 | 2.1 oz serving (1-1/2 oz cooked turkey) | 13.5 |  |
| Turkey Ham, Fully cooked, chilled or frozen <br> 15\% added ingredients Includes USDA Commodity | Pound | 9.41 | 1.7 oz serving ( 1 oz cooked turkey) | 10.6 | 1 lb AP $=0.59 \mathrm{lb}$ cooked turkey |
|  | Pound | 6.27 | 2.6 oz serving (1-1/2 oz cooked turkey) | 15.9 |  |
| TURKEY PRODUCTS, canned or frozen ${ }^{42,43}$ |  |  |  |  |  |
| Turkey Products Creamed Turkey ${ }^{42,43}$ | Pound | 2.30 | $3 / 4$ cup serving (about 1.3 oz cooked turkey) | 43.5 | 1 lb AP $=0.20 \mathrm{lb}$ cooked turkey |

[^39]
## Section 1—Meat/Meat Alternates

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- | :--- | :--- | :--- |

Additional Information

TURKEY PRODUCTS, canned or frozen ${ }^{42,43}$ (continued)

| Turkey Products Turkey A La King ${ }^{42,43}$ | Pound | 2.30 | 3/4 cup serving (about 1.3 oz cooked turkey) | 43.5 | 1 lb AP $=0.20 \mathrm{lb}$ cooked turkey |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Turkey Products Turkey Barbecue, minced ${ }^{42,43}$ | Pound | 3.50 | $1 / 2$ cup serving (about <br> 1.8 oz cooked turkey) | 28.6 | 1 lb AP $=0.40 \mathrm{lb}$ cooked turkey |
| Turkey Products Turkey Chilii ${ }^{42,43}$ | Pound | 2.30 | 3/4 cup serving (about 1.9 oz cooked turkey) | 43.5 | $1 \mathrm{lb} \mathrm{AP}=0.28 \mathrm{lb}$ cooked turkey |
| Turkey Products Turkey Chili with Beans ${ }^{42,43}$ | Pound | 2.62 | 2/3 cup serving (about <br> 1.0 oz cooked turkey) | 38.2 | 1 lb AP $=0.17 \mathrm{lb}$ cooked turkey |
| Turkey Products Turkey Hash ${ }^{42,43}$ | Pound | 2.60 | 2/3 cup serving (about <br> 1.8 oz cooked turkey) | 38.5 | 1 lb AP $=0.30 \mathrm{lb}$ cooked turkey |
| Turkey Products Turkey Salad ${ }^{42,43}$ | Pound | 3.46 | $1 / 2$ cup serving (about <br> 1.1 oz cooked turkey) | 29.0 | $1 \mathrm{lb} \mathrm{AP}=0.25 \mathrm{lb}$ cooked turkey |
| Turkey Products Turkey with Gravy ${ }^{42}$ | Pound | 5.30 | $1 / 3$ cup serving (about <br> 1.0 oz cooked turkey) | 18.9 | $1 \mathrm{lb} \mathrm{AP}=0.35 \mathrm{lb}$ cooked turkey |
| Turkey Products Turkey with Noodles or Dumplings ${ }^{42,43}$ | Pound | 1.70 | 1 cup serving (about <br> 1.4 oz cooked turkey) | 58.9 | 1 lb AP $=0.15 \mathrm{lb}$ cooked turkey |
| TURTLE BEANS [see BEANS, BLACK (TURTLE)] |  |  |  |  |  |

VEAL, FRESH OR FROZEN
VEAL, CUTLETS, fresh or frozen

| Veal, Cutlets, fresh <br> or frozen <br> Cutes from leg <br> Without bone Pound 8.64 1 oz cooked lean meat 11.6 1 lb AP $=0.54 \mathrm{lb}$ cooked <br> lean meat <br> VEAL, GROUND, fresh or frozen 5.76 $1-1 / 2$ oz cooked lean meat 17.4   <br> Veal, Ground, fresh <br> or frozen <br> No more than $16 \%$ fat Pound 12.6 1 oz cooked lean meat 8.0 $1 \mathrm{lb} \mathrm{AP}=0.79 \mathrm{lb}$ cooked <br> lean meat |
| :--- |

[^40]
## Section 1-Meat/Meat Alternates

1 Food As
2 Purchase 3 Servings per Purchase Unit, EP

| Serving Size per |
| :--- | :--- |
| Meal Contribution |$\quad$| 5Purchase <br> Units <br> for 100 <br> Servings |
| :--- |

Additional Information

## VEAL, HEART, fresh or frozen

| Veal, Heart, fresh or <br> frozen <br> Trimmed | Pound | 9.44 | 10 oz cooked lean meat | 10.6 | $1 \mathrm{lb} \mathrm{AP}=0.59 \mathrm{lb}$ cooked <br> heart |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 6.29 | $1-1 / 2 \mathrm{oz}$ cooked lean meat | 15.9 |  |

VEAL, LIVER, fresh or frozen

| Veal, Liver, fresh or frozen <br> Trimmed | Pound | 10.8 | 1 oz cooked lean meat | 9.3 | 1 lb AP $=0.68 \mathrm{lb}$ cooked liver |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 7.25 | 1-1/2 oz cooked lean meat | 13.8 |  |
| VEAL, ROAST, fresh or frozen |  |  |  |  |  |
| Veal, Roast, fresh or frozen <br> Chuck roast <br> Without bone | Pound | 9.44 | 1 oz cooked lean meat | 10.6 | 1 lb AP $=0.59 \mathrm{lb}$ cooked lean meat |
|  | Pound | 6.29 | 1-1/2 oz cooked lean meat | 15.9 |  |
| Veal, Roast, fresh or frozen <br> Leg roast Without bone | Pound | 9.76 | 1 oz cooked lean meat | 10.3 | 1 lb AP $=0.61 \mathrm{lb}$ cooked lean meat |
|  | Pound | 6.50 | 1-1/2 oz cooked lean meat | 15.4 |  |


| Veal, Steak, fresh or <br> frozen <br> Flaked and formed <br> 4 oz raw weight <br> (Like IMPS \#1338) Pound 4.00 One 4.0 oz raw steak when <br> cooked provides 2.7 oz <br> cooked lean meat 25.0 $1 \mathrm{lb} \mathrm{AP}=0.69 \mathrm{lb}$ cooked <br> lean meat <br>  Pound 7.36 11.0 1 oz cooked meat $1-1 / 2$ oz cooked meat |
| :--- |
| VEAL, STEW MEAT, fresh or frozen |
| Veal, Stew Meat, <br> fresh or frozen <br> Without bone |
| Pound |

## Section 1—Meat/Meat Alternates

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YOGURT ${ }^{44}$ |  |  |  |  |  |
| Yogurt, fresh ${ }^{44}$ <br> Plain or Flavored <br> Sweetened or <br> Unsweetened - <br> Commercially- <br> prepared | $320 z$ container | 8.00 | 1/2 cup or 4 oz yogurt <br> (1 oz meat alternate) | 12.5 |  |
|  | 32 oz container | 5.33 | $3 / 4$ cup or 6 oz yogurt (1-1/2 oz meat alternate) | 18.8 |  |
|  | 32 oz container | 4.00 | 1 cup or 8 oz yogurt (2 oz meat alternate) | 25.0 |  |
|  | $40 z$ container | 1.00 | One 4 oz container yogurt (1 oz meat alternate) | 100.0 |  |
|  | $60 z$ container | 1.00 | One 6 oz container yogurt (1-1/2 oz meat alternate) | 100.0 |  |
|  | $80 z$ container | 1.00 | One 8 oz container yogurt (2 oz meat alternate) | 100.0 |  |

[^41]
# 2 Vegetables/ Fruits 



2-1 Requirements
2-2 Crediting of Fruits and Vegetables
2-3 Crediting of Vegetable and Fruit Concentrates
2-4 Factors Affecting Yields
2-4 Definitions
2-4 Products That Do Not Meet Requirements
2-5 Information Included in this Section
2-5 Explanation of the Columns
2-7 Yield Data Table for Vegetables/Fruits

## Requirements

## Vegetables/ Fruits

Regulations for the Child Nutrition Programs require that each reimbursable breakfast, lunch,
or supper served contain vegetables and/or fruits. Vegetables and fruits may also be served as part of reimbursable snacks for the National School Lunch, Child and Adult Care Food, or Summer Food Service Programs. The food pattern requirements are described in the Meal Pattern Charts on pages I-7 through I-27.


## Specific requirements:

- Two or more servings of different vegetables and/or fruits must be served to meet the vegetable/fruit requirement at lunch and/or supper.
- You may not count any single fruit or vegetable toward the recommended serving size unless it provides at least $1 / 8$ cup. The importance of adequate and recognizable amounts of fruits and vegetables must be considered in menu planning in order to ensure a well-balanced meal and to illustrate healthy choices from the Food Guide Pyramid.
- Any liquid or frozen product labeled "juice," "full-strength juice," "singlestrength juice," or "reconstituted juice" is considered full-strength juice. To be used in meeting a part of the vegetable/fruit requirement for lunches and snacks, the product must contain a minimum of 50 percent full-strength juice. Only the amount of full strength juice contained in a juice drink product is creditable.
- Only 100-percent full-strength juice may be used in a breakfast. This means that $50 \%$ juice drink products may not be served as part of a reimbursable breakfast meal.

For lunch or supper you may meet no more than $1 / 2$ of the total requirement with full-strength vegetable or fruit juice. Full-strength juice may be used to meet the total requirement for breakfast or as one component of a snack.

- You may not serve juice if you serve milk as the only other component of a snack.
- You may count a serving of cooked dry beans or peas as a vegetable or as a meat alternate, but not as both components in the same meal.

Menu items that are mixtures, for example fruit cocktail and mixed vegetables, only count as one vegetable/fruit serving.

Large combination vegetable/fruit salads, served as an entrée containing at least $3 / 4$ cup or more of two or more different vegetables/ fruits in combination with a meat/meat alternate, such as a chef's salad or a fruit plate with cottage cheese, are considered as two or more servings of the vegetable/fruit component and will meet the full requirement. If only two
 vegetables/fruits are included in the salad, the second vegetable/fruit must contain a minimum of $1 / 8$ cup.

## To help meet nutritional standards and/or goals, and respond to dietary guidelines, USDA recommends that:

- meals include a vitamin A-rich vegetable or fruit at least two to three times a week;
meals include a vitamin C-rich vegetable or fruit three to four times a week, and breakfasts include them frequently;
meals include a variety of vegetables and fruits; and
meals include foods that are good sources of fiber, such as fresh fruits and vegetables and whole grain products.

For further information refer to the appropriate program planning guide: Menu Planner for Healthy School Meals (FNS-303); Building Blocks for Fun and Healthy Meals - A Menu Planner for the CACFP (FNS-305); or the Sponsor Meal Preparation Handbook for the Summer Food Service Program (FNS-207).

## Crediting of Fruits and Vegetables

A serving of cooked vegetable is considered to be drained. If it is a canned, heated vegetable, use the listing in Column 4 that reads " $1 / 4$ cup heated, drained vegetable." If it is served unheated, the appropriate listing is " $1 / 4$ cup drained vegetable."

- A serving of raw vegetable used in salads with dressing is shown as " $1 / 4$ cup raw vegetable (pieces, shredded, chopped) with dressing."

A serving of canned fruit (as described in Column 4) may include the juice or syrup in which the fruit is packed. Serving information is also provided for drained fruit.

## Crediting of Vegetable and Fruit Concentrates

A serving of fruit consists of fruit and juice or syrup even where it is only described as "cooked."

- A serving of thawed frozen fruit consists of fruit plus the juice or syrup that accumulated during thawing.

Vegetable and fruit concentrates are allowed to be credited on an "as if single-strength reconstituted basis" rather than on the actual volume as served. See the examples that follow:

## How to Use Information on Concentrates:

Method 1 - Multiply the number of pounds of concentrate used by the creditable $1 / 4$-cup servings per pound of concentrate.

Example: A recipe calls for $4 \mathrm{lb} 12 \mathrm{oz}(4.75 \mathrm{lb})$ of tomato paste. Each pound of tomato paste provides 27.6 creditable servings of vegetable. Thus, 4.75 x
 $27.6=131.1$ servings. Therefore, the tomato paste in the recipe provides 131.1 creditable $1 / 4$-cup servings of vegetable.

Method 2 - Multiply the number of No. 10 cans of concentrate in the recipe by the number of creditable $1 / 4$-cup servings provided by one No. 10 can of the concentrate.

Example: Two No. 10 cans of tomato puree are used in a recipe. One No. 10 can of tomato puree provides 96 creditable $1 / 4$-cup servings of vegetable. Thus, $2 \times 96$ $=192$. Therefore, 192 creditable $1 / 4$-cup servings would be provided by the two No. 10 cans of tomato puree.

Yield figures for vegetables and fruits are for on-site preparation. They do not allow for losses that may occur in prepared products (both preportioned and bulk) during freezing, storage, heating, and serving. Other factors may affect yields: quality and condition of the food, storage conditions, handling procedures, equipment used in preparation, cooking and holding times, serving utensils, and portion control.

## Factors Affecting Yields

## Definitions

Products That Do Not Meet Requirements

Yields of vegetables and fruits vary according to the form of food used. For example:

Frozen vegetables usually yield more servings per pound than fresh vegetables since the frozen ones are cleaned, blanched, and ready to cook.
Dehydrated vegetables and fruits yield more servings per pound than fresh, frozen, or canned because they gain weight and volume as they absorb water during soaking and cooking. Some dehydrated products, particularly fruits, continue to expand while cooling.
The weight of canned vegetables and fruits varies due to different densities of the food. A No. 10 can yields an average of 12 to 13-2/3 cups, from $96 \mathrm{oz}(6 \mathrm{lb})$ to $117 \mathrm{oz}(7 \mathrm{lb} 5 \mathrm{oz})$.

Count - The number of whole fruits or vegetables contained or packed in a specific container. The higher the count, the smaller the size of each fruit or vegetable.
Pared - When the outer covering (skin or peel) of a fruit or vegetable has been removed.
Tempered - Frozen fruit or vegetable brought to room temperature; thawed but not heated.
Size - The number of pieces of whole fruits or vegetables in 10 pounds of product.
Unpared - When the outer covering (skin or peel) of a fruit or vegetable has not been removed.

The following products do not qualify as vegetable or fruit and may not be credited toward meeting the vegetable/fruit requirement in any meal served under the Child Nutrition Programs:
snack-type foods made from vegetables or fruits, such as potato chips, banana chips, or popcorn;
pickle relish, jam, or jelly;
tomato catsup and chili sauce;
home canned products (for food safety reasons); or
dehydrated vegetables used for seasoning.

## Information Included in this Section

Over 700 entries for vegetables and fruits-fresh, canned, frozen, and dehydrated-are listed alphabetically. Data for canned and frozen juices and canned soups are also provided in this section.

## Vegetable and fruit information includes:

yield information on common institutional packs, smaller packs, and 1-pound units of many fresh, canned, and frozen vegetables and fruits;
whenever available, data on unsweetened canned and frozen fruits or those packed in juice, light syrup, or water;
net weight of contents of the can (including liquid) under the can size in Column 2, except where noted;
minimum weight and volume of drained vegetables or fruits in Column 6; yields in terms of $1 / 4$-cup servings, unless noted;
contribution to the meal patterns;
yield information on juice concentrates, tomato paste, and tomato puree as if reconstituted to full strength;
yield information on canned soups that contain at least $1 / 4$ cup of vegetable per cup of soup; and
yield information for all vegetables/fruits based on volume, not weight. This includes dry or dehydrated fruits and vegetables.

The data on vegetables and fruits in the following table include yield information on common types and customary serving sizes of products that you can buy on the market as well as some USDA Commodity products.

Column 1 Food As Purchased, AP: The individual foods are arranged in alphabetical order.

Column 2 Purchase Unit: The purchase unit is specified, such as, 1 can (generally No. 10, No. 2-1/2, or No. 300), 1 pound, or 1 package. You can use data for one purchase unit to determine how much you need for any number of servings.

Column 3 Servings per Purchase Unit EP (Edible Portion): This column shows the number of servings of a given size (found in Column 4) from each purchase unit (found in Column 2). Numbers in this column are sometimes rounded down in order to help ensure enough food for the number of servings.

Column 4 Serving Size per Meal Contribution: The size of a serving is given as a measure and/or weight or number of pieces. In most cases the serving size and contribution to the meal pattern are the same. When they differ, the contribution is shown in parentheses under the serving size.

Column 5 Purchase Units for $\mathbf{1 0 0}$ Servings: This column shows the number of purchase units (found in Column 2) you need for 100 servings. Numbers in this column are generally rounded $u p$ in order to ensure enough food is purchased for the number of servings.

Column 6 Additional Information: This column gives other information to help you calculate the amount of food you need to prepare meals.

# Food Buying Guide for Child Nutrition Programs Section 2 Vegetables/Fruits 

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| APPLES |  |  |  |  |  |
| Apples, fresh 125-138 count Whole | Pound | 14.8 | 1/4 cup raw, unpeeled fruit (about $1 / 4$ apple) | 6.8 | 1 lb AP $=0.91 \mathrm{lb}$ (3-2/3 cups) ready-tocook or -serve raw, cored, unpeeled apple |
|  | Pound | 3.00 | 1 baked apple (about $1 / 2$ cup cooked fruit) | 33.4 |  |
|  | Pound | 11.4 | 1/4 cup raw, cored, peeled fruit | 8.8 | $1 \mathrm{lb} \mathrm{AP}=0.78 \mathrm{lb}$ (about 2-3/4 cups) ready-to-cook or -serve raw, cored, peeled apple |
|  | Pound | 6.80 | 1/4 cup cored, peeled, cooked, unsweetened fruit | 14.8 | $1 \mathrm{lb} \mathrm{AP}=0.78 \mathrm{lb}$ (about 1-3/4 cups) cored, peeled, cooked apple |
|  | Pound | 5.80 | 1/4 cup cooked, sieved unsweetened fruit | 17.3 |  |
| Apples, fresh 100 count Whole | Pound | 15.6 | 1/4 cup raw, unpeeled fruit (about $1 / 5$ apple) | 6.5 | $1 \mathrm{lb} \mathrm{AP}=0.93 \mathrm{lb}$ (about 3-7/8 cups) ready-to-cook or -serve raw, cored, unpeeled apple |
| Apples, canned Slices Solid pack Includes USDA Commodity | $\begin{array}{\|l\|l} \text { No. } 10 \text { can } \\ \text { (100 oz) } \end{array}$ | 50.4 | 1/4 cup fruit and juice | 2.0 | 1 No. 10 can = about 89.0 oz (11-7/8 cups) drained apple |
|  | Pound | 8.06 | 1/4 cup fruit and juice | 12.5 |  |
| Apples, frozen Sliced, IQF Includes USDA Commodity | Pound | 12.7 | 1/4 cup tempered fruit | 7.9 | $1 \mathrm{lb} \mathrm{AP}=0.99 \mathrm{lb}$ (about <br> 3-1/8 cups) tempered ready <br> to-cook or serve apples |
|  | Pound | 8.80 | 1/4 cup heated fruit | 11.4 |  |
| Apples, dehydrated Slices or Rings Regular moisture | Pound | 21.1 | 1/4 cup dehydrated fruit | 4.8 | 1 lb AP = about 5-1/4 cups dehydrated apple |
|  | Pound | 28.7 | 1/4 cup cooked fruit | 3.5 |  |

## Section 2—Vegetables/Fruits

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| APPLESAUCE |  |  |  |  |  |
| Applesauce, canned <br> Smooth or Chunky <br> Includes USDA <br> Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (108 oz) } \end{array}$ | 47.6 | 1/4 cup fruit | 2.2 | 1 No. 10 can = about 12 cups applesauce |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 12.8 | 1/4 cup fruit | 7.9 | 1 No. 2-1/2 can = about $3-1 / 8$ cups applesauce |
|  | 23 oz jar | 10.1 | 1/4 cup fruit | 10.0 |  |
| APRICOTS |  |  |  |  |  |
| Apricots, fresh <br> Medium <br> (approx. 1-3/8 inch diameter) <br> Whole | Pound | 11.9 | 1/4 cup fruit (about 1 whole, medium, raw apricot) | 8.5 | $\begin{aligned} & 1 \mathrm{lb} \mathrm{AP}=0.93 \mathrm{lb} \\ & \text { ready-to-serve raw apricots } \end{aligned}$ |
|  | Pound | 10.8 | 1/4 cup raw, seeded and unpeeled fruit halves | 9.3 |  |
| Apricots, canned Diced Includes USDA Commodity | 1 No. 10 can (108 oz) | 48.0 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 12 cups fruit and juice |
| Apricots, canned Halves Unpeeled | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (106 oz) } \end{array}$ | 48.0 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 62.0 oz ( $7-1 / 3$ cups) drained apricots |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 13.2 | 1/4 cup fruit and juice | 7.6 | 1 No. 2-1/2 can = about 16.0 oz (1-7/8 cups) drained apricots |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-1 / 4 \text { oz) } \end{aligned}$ | 6.54 | 1/4 cup fruit and juice | 15.3 |  |
|  | $\begin{array}{\|l} \text { No.300 can } \\ \text { (15-1/4 oz) } \end{array}$ | 6.08 | 1/4 cup heated, drained fruit | 16.5 |  |
| Apricots, canned Slices <br> Peeled | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (106 oz) } \end{array}$ | 45.7 | 1/4 cup fruit and juice | 2.2 | 1 No. 10 can = about 62.0 oz (7-2/3 cups) drained apricots |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can }(29 \mathrm{oz}) \end{array}$ | 12.5 | 1/4 cup fruit and juice | 8.0 | 1 No. 2-1/2 can = about 17.2 oz ( 2 cups) drained apricots |
|  | Pound | 6.90 | 1/4 cup fruit and juice | 14.5 | 1 lb AP = about 8.9 oz (1-1/8 cups) drained apricots |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- |

Serving Size per
Meal Contribution
/4 cup pitted fruit and juice
Apricots, canned
Whole
With pits
Peeled

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |


| Serving Size per |
| :--- | :--- |
| Meal Contribution |\(\quad \begin{aligned} \& Purchase <br>

\& $$
\begin{array}{l}\text { Units } \\
\text { for 100 } \\
\text { Servings }\end{array}
$$\end{aligned}\)

Additional Information

## APRICOTS (continued)

Apricots, dehydrated
Halves
Regular moisture
ARTICHOKES

| Artichokes, fresh 36 count (large) Untrimmed Whole | Pound | 1.49 | 1/4 cup cooked, drained vegetable from leaves | 67.2 | $1 \mathrm{lb} \mathrm{AP}=0.23 \mathrm{lb}$ (about $1 / 3$ cup) cooked, drained artichoke |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 1.38 | 1/4 cup cooked, drained vegetable (bottoms only) | 72.5 | $1 \mathrm{lb} \mathrm{AP}=$ about $1 / 3$ cup cooked artichoke from bottoms only |
|  | Pound | 2.84 | 1/4 cup cooked, drained vegetable (bottoms \& leaves) | 35.3 | 1 lb AP $=$ about $2 / 3$ cup cooked, drained artichoke bottoms and leaves |
| Artichokes, canned Bottoms | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14 \mathrm{oz}) \end{aligned}$ | 5.97 | 1/4 cup drained vegetable | 16.8 | 1 No. 300 can = about 7.7 oz (1-3/8 cups) drained, unheated artichoke |
| Artichokes, canned Hearts | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14 \mathrm{oz}) \end{aligned}$ | 4.67 | 1/4 cup drained vegetable | 21.5 | 1 No. 300 can = about 8.0 oz (1-1/8 cups) drained, unheated artichoke |
| Artichokes, frozen Hearts | Pound | 10.0 | 1/4 cup cooked, drained vegetable | 10.0 | 1 lb AP $=0.99 \mathrm{lb}$ (about 2-1/2 cups) cooked, drained artichoke |
| ASPARAGUS |  |  |  |  |  |
| Asparagus, fresh Whole | Pound | 4.80 | 1/4 cup cooked vegetable | 20.9 | $1 \mathrm{lb} \mathrm{AP}=0.53 \mathrm{lb}$ ready-tocook trimmed, raw asparagus |
|  | Pound | 4.80 | 1/4 cup cooked cuts and tips ( $1 / 4$ cup vegetable) | 20.9 | 1 lb AP $=0.50 \mathrm{lb}$ cooked asparagus |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per |
| :--- | :--- |
| Meal Contribution |$\quad$| 5Purchase <br> Units <br> for 100 <br> Servings |
| :--- |

Serving Size per
Meal Contribution $\square$ Servings

## ASPARAGUS (continued)

| Asparagus, canned Cuts and Tips | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (103 oz) } \end{aligned}$ | 27.8 | 1/4 cup heated, drained vegetable | 3.6 | 1 No. 10 can = about 57.3 oz (6-7/8 cups) heated, drained asparagus |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l\|l} \text { No. } 10 \text { can } \\ \text { (103 oz) } \end{array}$ | 32.4 | 1/4 cup drained vegetable | 3.1 | 1 No. 10 can = about 57.1 oz ( 8 cups) drained, unheated asparagus |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz) } \end{aligned}$ | 3.45 | 1/4 cup heated, drained vegetable | 29.0 | 1 No. 300 can = about 6.8 oz (3/4 cup) heated, drained asparagus |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (14-1/2 oz) } \end{aligned}$ | 4.83 | 1/4 cup drained vegetable | 20.8 | 1 No. 300 can = about 8.7 oz (1-1/8 cups) drained, unheated asparagus |
|  | Pound | 4.31 | 1/4 cup heated, drained vegetable | 23.3 |  |
|  | Pound | 5.03 | 1/4 cup drained vegetable | 19.9 |  |
| Asparagus, canned Spears | No. 5 squat can (64 oz) | 26.4 | 1/4 cup drained vegetable | 3.8 | 1 No. 5 can = about 38.0 oz ( $6-2 / 3$ cups) drained, unheated asparagus |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 3.87 | 1/4 cup heated, drained vegetable | 25.9 | 1 No. 300 can = about 7.3 oz ( $7 / 8$ cup) heated, drained asparagus |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 4.59 | 1/4 cup drained vegetable | 21.8 | 1 No. 300 can = about 8.5 oz (1-1/8 cups) drained, unheated asparagus |
|  | Pound | 6.60 | 1/4 cup drained vegetable | 15.2 |  |
| Asparagus, frozen Cuts and Tips | Pound | 8.10 | 1/4 cup cooked vegetable | 12.4 |  |
| Asparagus, frozen Spears | Pound | 10.7 | 1/4 cup cooked vegetable | 9.4 |  |
| AVOCADOS |  |  |  |  |  |
| Avocados, fresh <br> All sizes <br> Whole | Pound | 8.20 | 1/4 cup raw, diced vegetable | 12.2 | $1 \mathrm{lb} \mathrm{AP}=0.67 \mathrm{lb}$ ready-toserve raw avocado |
|  | Pound | 5.10 | 1/4 cup raw, mashed vegetable | 19.7 |  |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## AVOCADOS (continued)

| Avocados, fresh <br> California <br> 48 count (approx. <br> 2.5-inch width by <br> 3.5-inch length) <br> Whole | Pound | 5.52 | $1 / 4$ cup peeled, sliced, raw <br> vegetable (about 3 slices) <br> (3/8-inch by 3.5-inch slices) | 18.2 | 1 lb AP $=0.69 \mathrm{lb}$ ready-to- <br> serve, raw, peeled avocado <br> [about 2-2/3 portions <br> (1/4 cup each portion) per <br> avocado] |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Avocados, fresh <br> Florida <br> (approx. 3.5-inch <br> width by 4.75-inch <br> length) <br> Whole | Pound | 7.07 | $1 / 4$ cup peeled, sliced, raw <br> vegetable (about 2 slices) <br> (1/2-inch by 4.5-inch <br> slices) | 14.2 | 1 lb AP $=0.59 \mathrm{lb}$ ready-to- <br> serve, raw, peeled, sliced <br> [about $7-1 / 2$ portions <br> (1/4 cup each portion) per <br> avocado] |
| BAMBOO SHOOTS |  |  |  |  |  |


| Bamboo Shoots, canned Sliced | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (104 oz) } \end{array}$ | 47.4 | 1/4 cup drained vegetable | 2.2 | 1 No. 10 can = about 72.7 oz (11-3/4 cups) drained, unheated bamboo shoots |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BANANAS ${ }^{1}$ |  |  |  |  |  |
| Bananas, fresh 150 count Petite Whole | Pound | 3.60 | 1 banana (about $3 / 8$ cup fruit) | 27.8 |  |
|  | Pound | 6.51 | 1/4 cup sliced fruit | 15.4 | 1 lb AP $=0.64 \mathrm{lb}$ (about 1-5/8 cups) ready-to-serve banana slices |
| Bananas, fresh 100-120 count Regular Whole | Pound | 7.07 | 1/4 cup raw 1/2-inch sliced fruit | 14.2 | 1 lb AP $=0.64 \mathrm{lb}$ (about <br> $1-3 / 4$ cups) peeled <br> $1 / 2$-inch slices of banana |
|  | Pound | 5.39 | 1/4 cup raw fruit, unpeeled (about 1/2 banana) | 18.6 |  |
|  | Pound | 5.20 | 1/4 cup mashed fruit | 19.3 |  |
| Bananas, canned Mashed | $\begin{array}{\|l\|l} \text { No. } 10 \text { can } \\ (116 \mathrm{oz}) \end{array}$ | 50.9 | 1/4 cup fruit | 2.0 |  |
|  | Pound | 7.00 | 1/4 cup fruit | 14.3 |  |
| Bananas, dehydrated ${ }^{1}$ Slices 100\% dried fruit only | Pound | 19.6 | 1/4 cup dehydrated fruit slices | 5.2 | 1 lb AP $=1 \mathrm{lb}$ (about 4-7/8 cups) ready-to-serve dehydrated banana |

[^42]Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |

## BEANS, BLACK (TURTLE BEANS)

| Beans, Black (Turtle beans), dry, canned Whole | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (110 oz) } \end{aligned}$ | 27.8 | 1/4 cup heated, drained vegetable | 3.6 | 1 No. 10 can = about 62.0 oz (6-7/8 cups) heated, drained beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-1 / 2 \text { oz) } \end{aligned}$ | 5.91 | 1/4 cup heated, drained vegetable | 17.0 | 1 No. 300 can = about 10.5 oz (1-3/8 cups) heated, drained beans |
| Beans, Black (Turtle beans), dry Whole | Pound | 18.3 | 1/4 cup cooked vegetable | 5.5 | 1 lb dry $=2-1 / 4$ cups dry beans |

BEANS, BLACK-EYED (or PEAS)

| Beans, Black-eyed (or Peas), fresh Shelled | Pound | 10.3 | 1/4 cup cooked, drained vegetable | 9.8 | 1 lb in pod $=0.51 \mathrm{lb}$ ready-to-cook beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Beans, Black-eyed (or Peas), dry, canned Whole Includes USDA Commodity | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (108 oz) } \end{array}$ | 37.7 | 1/4 cup heated, drained vegetable | 2.7 | 1 No. 10 can = about 65.0 oz (9-3/8 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 4.91 | 1/4 cup heated, drained vegetable | 20.4 |  |
| Beans, Black-eyed (or Peas), frozen Whole | Pound | 11.2 | 1/4 cup cooked, drained vegetable | 9.0 |  |
| Beans, Black-eyed (or Peas), dry Whole Inc/udes USDA Commodity | Pound | 28.3 | 1/4 cup cooked vegetable | 3.6 | 1 lb dry = about 2-3/4 cups dry beans |
| BEANS, GARBANZO or CHICKPEAS |  |  |  |  |  |
| Beans, Garbanzo or Chickpeas, dry, canned Whole Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (105 oz) } \end{array}$ | 42.0 | 1/4 cup drained vegetable | 2.4 | 1 No. 10 can = about 68.4 oz (10-1/2 cups) unheated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 6.70 | 1/4 cup drained vegetable | 15.0 | 1 No. 300 can = about 9.6 oz (1-2/3 cups) unheated, drained beans |
|  | Pound | 6.31 | 1/4 cup drained vegetable | 15.9 |  |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEANS, GARBANZO OR CHICKPEAS (continued) |  |  |  |  |  |
| Beans, Garbanzo or Chickpeas, dry Whole | Pound | 24.6 | 1/4 cup cooked vegetable | 4.1 | 1 lb dry = about 2-1/2 cups dry beans |

BEANS, GREAT NORTHERN

| Beans, Great Northern, dry, canned | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (110 oz) } \end{array}$ | 32.4 | 1/4 cup heated, drained vegetable | 3.1 | 1 No. 10 can = about 68.5 oz (about 8-1/8 cups) heated, drained beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Includes USDA Commodity | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14 \mathrm{oz}) \end{aligned}$ | 4.37 | 1/4 cup heated, drained vegetable | 22.9 |  |
| Beans, Great <br> Northern, dry Whole Includes USDA Commodity | Pound | 25.5 | 1/4 cup cooked vegetable | 4.0 | 1 lb dry = about 2-1/2 cups dry beans |
| BEANS, GREEN |  |  |  |  |  |
| Beans, Green, fresh <br> Trimmed <br> Whole <br> Ready-to-use | Pound | 22.0 | 1/4 cup whole, raw vegetable | 4.6 | 1 lb AP $=1 \mathrm{lb}$ (about 5-3/8 cups) ready-to-cook |
|  | Pound | 12.4 | 1/4 cup whole, cooked, drained vegetable | 8.1 | $1 \mathrm{lb} \mathrm{AP}=0.86 \mathrm{lb}$ (about 3 cups) cooked, drained beans |
|  | Pound | 16.4 | 1/4 cup cut, raw vegetable | 6.1 | 1 lb AP $=1 \mathrm{lb}$ (about 4 cups) ready-to-cook beans |
|  | Pound | 11.2 | 1/4 cup cut, cooked, drained vegetable | 9.0 | 1 lb AP $=0.89 \mathrm{lb}$ (about 2-3/4 cups) cooked, drained, cut beans |
| Beans, Green, fresh Untrimmed Whole | Pound | 11.1 | 1/4 cup whole, cooked vegetable | 9.1 | $1 \mathrm{lb} \mathrm{AP}=0.88 \mathrm{lb}$ ready-tocook beans |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEANS, GREEN (continued) |  |  |  |  |  |
| Beans, Green, canned Cut Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 45.3 | 1/4 cup heated, drained vegetable | 2.3 |  |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (101 oz) } \end{aligned}$ | 51.1 | 1/4 cup drained vegetable | 2.0 | 1 No. 10 can = about 60.0 oz (12-7/8 cups) drained, unheated beans |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (28 oz) } \end{aligned}$ | 12.5 | 1/4 cup heated, drained vegetable | 8.0 |  |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (28 oz) } \end{aligned}$ | 14.1 | 1/4 cup drained vegetable | 7.1 | 1 No. 2-1/2 can = about 16.0 oz (3-1/2 cups) drained, unheated beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 5.00 | 1/4 cup heated, drained vegetable | 20.0 | 1 No. 300 can = about 7.4 oz (1-1/4 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{ob}) \end{aligned}$ | 5.77 | 1/4 cup drained vegetable | 17.4 | 1 No. 300 can = about 7.7 oz (1-3/8) cups drained, unheated beans |
|  | Pound | 7.17 | 1/4 cup heated, drained vegetable | 14.0 |  |
|  | Pound | 8.10 | 1/4 cup drained vegetable | 12.4 |  |
| Beans, Green, canned French style Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (101 oz) } \end{aligned}$ | 36.5 | 1/4 cup heated, drained vegetable | 2.8 | 1 No. 10 can = about 59.0 oz (12 cups) drained, unheated beans |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (28 oz) } \end{aligned}$ | 10.1 | 1/4 cup heated, drained vegetable | 10.0 | 1 No. 2-1/2 can = about 16.2 oz (3-1/4 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz) } \end{aligned}$ | 3.60 | 1/4 cup heated, drained vegetable | 27.8 | 1 No. 300 can = about 5.7 oz (7/8 cup) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz) } \end{aligned}$ | 4.50 | 1/4 cup drained vegetable | 22.3 | 1 No. 300 can = about 10.1 oz (1-1/8 cup) drained, unheated beans |
|  | Pound | 5.80 | 1/4 cup heated, drained vegetable | 17.3 |  |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |


| 4 | Serving Size per <br> Meal Contribution |
| :--- | :--- |
|  | Purchase <br> Units <br> for 100 <br> Servings |

## BEANS, GREEN (continued)

| Beans, Green, canned Whole Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 39.5 | 1/4 cup heated, drained vegetable | 2.6 | 1 No. 10 can = about 58.0 oz (13 cups) drained, unheated beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 52.2 | 1/4 cup drained vegetable | 2.0 |  |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (28 oz) } \end{array}$ | 14.4 | 1/4 cup heated, drained vegetable | 7.0 | 1 No. 2-1/2 can = about 16.0 oz (3-5/8 cups) drained, unheated beans |
|  | $\begin{array}{\|l} \text { No. } 300 \text { can } \\ (14-1 / 2 ~ o z) \end{array}$ | 4.58 | 1/4 cup heated, drained vegetable | 21.9 | 1 No. 300 can = about 7.3 oz (1-1/8 cups) heated, drained beans |
|  | $\begin{array}{\|l} \text { No. } 300 \text { can } \\ (14-1 / 2 ~ o z) \end{array}$ | 6.95 | 1/4 cup drained vegetable | 14.4 | 1 No. 300 can = about 7.6 oz (1-5/8 cups) drained, unheated beans |
|  | Pound | 8.20 | 1/4 cup drained vegetable | 12.2 |  |
| Beans, Green, frozen Cut Includes USDA Commodity | Pound | 11.6 | 1/4 cup cooked, drained vegetable | 8.7 |  |
| Beans, Green, frozen <br> French style <br> Includes USDA <br> Commodity | Pound | 12.0 | 1/4 cup cooked, drained vegetable | 8.4 |  |
| Beans, Green, frozen Whole Includes USDA Commodity | Pound | 10.7 | 1/4 cup cooked, drained vegetable | 9.4 | 1 lb AP $=0.88 \mathrm{lb}$ (about 2-5/8 cups) cooked, drained vegetable |
| BEANS, GREEN, FLAT ITALIAN |  |  |  |  |  |
| Beans, Green, Flat Italian, canned Whole | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (103 oz) } \end{array}$ | 35.1 | 1/4 cup heated, drained vegetable | 2.9 | 1 No. 10 can = about 56.6 oz (8-3/4 cups) heated, drained beans |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (103 oz) } \end{array}$ | 42.7 | 1/4 cup drained vegetable | 2.4 | 1 No. 10 can = about 63.3 oz (10-5/8 cups) drained, unheated beans |

Section 2-Vegetables/Fruits

| 1Food As <br> Purchased, AP | Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | 4 Serving Size per |
| :--- | :--- | :--- | :--- | :--- |
| Meal Contribution |  |  |  |$\quad$| Purchase |
| :---: |
| Units |
| for 100 |
| Servings |

## BEANS, GREEN, FLAT ITALIAN (continued)

| Beans, Green, Flat Italian, frozen Whole | Pound | 9.30 | 1/4 cup cooked, drained vegetable | 10.8 | 1 lb AP $=0.91 \mathrm{lb}$ (about 2-1/4 cups) cooked, drained beans |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEANS, KIDNEY |  |  |  |  |  |
| Beans, Kidney, dry, canned <br> Whole <br> Includes USDA <br> Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 38.9 | 1/4 cup heated, drained vegetable | 2.6 | 1 No. 10 can = about 65.0 oz (9-5/8 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 43.4 | 1/4 cup drained vegetable | 2.4 | 1 No. 10 can = about 71.0 oz (10-3/4 cups) drained, unheated beans |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (30 oz) } \end{aligned}$ | 11.6 | 1/4 cup heated, drained vegetable | 8.7 |  |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (30 oz) } \end{aligned}$ | 12.6 | 1/4 cup drained vegetable | 8.0 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-1 / 2 \mathrm{oz}) \end{aligned}$ | 5.61 | 1/4 cup heated, drained vegetable | 17.9 | 1 No. 300 can = about 9.5 oz (1-3/8 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No } 300 \text { can } \\ & (15-1 / 2 \text { oz) } \end{aligned}$ | 5.88 | 1/4 cup drained vegetable | 17.1 | 1 No. 300 can = about 10.0 oz (1-3/8 cups) drained, unheated beans |
| Beans, Kidney, dry Whole Includes USDA Commodity | Pound | 24.8 | 1/4 cup cooked vegetable | 4.1 | 1 lb dry = about 2-1/2 cups dry beans |

## BEANS, LIMA

| Beans, Lima, fresh <br> Shelled <br> Whole | Pound | 10.8 | $1 / 4$ cup cooked, drained <br> vegetable | 9.3 | 1 lb in pod $=0.44 \mathrm{lb}$ ready- <br> to-cook beans |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Beans, Lima, dry, <br> canned <br> Green | No. 10 can <br> (105 oz) | 42.4 | $1 / 4$ cup heated, drained <br> vegetable | 2.4 | $1 \mathrm{No}$.10 can $=$ about <br> 70.9 oz (11-3/4 cup) <br> drained, unheated beans |
| Includes USDA <br> Commodity | No. 2-1/2 <br> can (40 oz) | 15.7 | $1 / 4$ cup heated, drained <br> vegetable | 6.4 | 1 No. 2-1/2 can = about <br> 27.0 oz ( (4-1/2 cups) <br> drained, unheated beans |
|  | Pound | 6.46 | $1 / 4$ cup heated, drained <br> vegetable | 15.5 | 1 lb AP =about 11.0 oz <br> $(1-3 / 4$ cups) drained, <br> unheated beans |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## BEANS, LIMA (continued)

| Beans, Lima, frozen <br> Baby <br> Whole | Pound | 10.9 | $1 / 4$ cup cooked, drained <br> vegetable | 9.2 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Beans, Lima, frozen <br> Fordhook <br> Whole | Pound | 11.1 | $1 / 4$ cup cooked, drained <br> vegetable | 9.1 |  |
| Beans, Lima, dry <br> Baby <br> Whole <br> Includes USDA <br> Commodity | Pound | 23.4 | $1 / 4$ cup cooked vegetable | 4.3 | 1 lb dry $=$ about 2-3/8 cups <br> dry beans |
| Beans, Lima, dry <br> Fordhook <br> Whole | Pound | 27.0 | $1 / 4$ cup cooked vegetable | 3.8 | 1 lb dry $=$ about 2-5/8 cups <br> dry beans |

## BEANS, MUNG

| Beans, Mung, dry <br> Whole | Pound | 28.1 | $1 / 4$ cup cooked vegetable | 3.6 | 1 lb dry $=$ about $2-1 / 4$ cups <br> dry beans |
| :--- | :--- | :--- | :--- | :--- | :--- |

BEANS, NAVY or PEA

| Beans, Navy or Pea, <br> dry <br> Whole <br> Includes USDA <br> Commodity | Pound | 23.9 | $1 / 4$ cup cooked vegetable | 4.2 | 1 lb dry $=$ about $2-1 / 4$ cups <br> dry beans |
| :--- | :--- | :--- | :--- | :--- | :--- |
| BEANS, PINK |  |  |  |  |  |
| Beans, Pink, dry, <br> canned <br> Whole <br> Includes USDA <br> Commodity | No. 10 can <br> (110 oz) | 34.0 | $1 / 4$ cup heated, drained <br> vegetable | 3.0 | 1 No. 10 can $=$ about <br> $12-1 / 4$ cups drained, <br> unheated beans or <br> $8-1 / 2$ cups heated, <br> drained beans |
| Beans, Pink, dry <br> Whole <br> Includes USDA <br> Commodity | Pound | 19.3 | $1 / 4$ cup cooked vegetable | 5.2 | 1 lb dry = about 2-1/4 cups <br> dry beans |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $\begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEANS, PINTO² |  |  |  |  |  |
| Beans, Pinto, dry, canned Whole Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 37.2 | 1/4 cup heated, drained vegetable | 2.7 | 1 No. 10 can = about 67.4 oz (9-1/4 cups) heated, drained beans |
|  | Pound | 5.51 | 1/4 cup heated, drained vegetable | 18.2 |  |
| Beans, Pinto, dry Whole Includes USDA Commodity | Pound | 21.0 | 1/4 cup cooked vegetable | 4.8 | 1 lb dry $=$ about $2-3 / 8$ cups dry beans |
| Beans, Pinto, dehydrated ${ }^{2}$ | Pound | 21.7 | 1/4 cup cooked vegetable | 4.7 | 1 lb AP = about 3-3/4 dehydrated beans 1 lb AP = about 5-3/8 cups rehydrated, cooked beans when the water to dry beans ratio $=2: 1$ |

## BEAN PRODUCTS

| Bean Products, dry beans, canned Beans Baked or | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 47.1 | 1/4 cup heated vegetable with sauce | 2.2 | No. 10 can = about 11-3/4 cups heated beans with sauce |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Vegetarian <br> Includes USDA <br> Commodity | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 6.94 | 1/4 cup heated vegetable with sauce | 14.4 | 1 No. 300 can = about $1-3 / 4$ cups heated beans with sauce |
| Bean Products, dry beans, canned Beans Baked or in Sauce with Pork | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (110 oz) } \end{aligned}$ | 48.9 | 1/4 cup heated vegetable | 2.1 |  |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can }(30 \mathrm{oz}) \end{aligned}$ | 13.3 | 1/4 cup heated vegetable | 7.6 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 7.10 | 1/4 cup heated vegetable | 14.1 |  |
| Bean Products, dry beans, canned Beans with Bacon in Sauce | Pound | 4.70 | $3 / 8$ cup serving (about <br> $1 / 4$ cup heated vegetable) | 21.3 |  |
|  | Pound | 3.13 | 1/2 cup plus 1 Tbsp serving (about $3 / 8$ cup heated vegetable) | 32.0 |  |

[^43]
## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{array}{\|l} \hline \text { Purchase } \\ \text { Units } \\ \text { for } 100 \\ \text { Servings } \end{array}$ | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEANS, REFRIED |  |  |  |  |  |
| Beans, Refried, canned Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (115 oz) } \end{aligned}$ | 49.6 | 1/4 cup heated vegetable | 2.1 | 1 No. 10 can = about 12-1/4 cups heated, refried beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 7.08 | 1/4 cup heated vegetable | 14.2 | 1 No. 300 can = about $1-3 / 4$ cups heated refried beans |
| Beans, Refried, dehydrated | Pound | 20.5 | 1/4 cup cooked vegetable | 4.9 | 1 lb AP = about 3-1/2 cups dehydrated 1 lb AP = about 5-1/8 cups rehydrated, cooked beans when the water to dry beans ratio $=2: 1$ |
| BEANS, RED, SMALL |  |  |  |  |  |
| Beans, Red, Small, dry, canned Whole Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (111 oz) } \end{aligned}$ | 31.9 | 1/4 cup heated, drained vegetable | 3.2 | 1 No. 10 can = about 71.2 oz ( 8 cups) heated, drained beans |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (15-1/2 oz) } \end{aligned}$ | 4.94 | 1/4 cup heated, drained vegetable | 20.3 | 1 No. 300 can = about 8.5 oz (1-1/8 cups) heated, drained beans |
| Beans, Red, Small, dry Whole Includes USDA Commodity | Pound | 20.4 | 1/4 cup cooked, drained vegetable | 5.0 | 1 lb dry $=$ about $2-1 / 8$ cups dry beans |
| BEANS, SOY |  |  |  |  |  |
| Beans, Soy, fresh (Edamame) Shelled | Pound | 10.7 | 1/4 cup cooked, drained vegetable | 9.4 |  |
| Beans, Soy, fresh <br> (Edamame) <br> Whole <br> In shell | Pound | 6.90 | 1/4 cup cooked, drained, shelled vegetable | 14.5 | 1 lb in $\mathrm{pod}=0.65 \mathrm{lb}$ (about $1-3 / 4$ cups) blanched, shelled beans |
| Beans, Soy, dry, canned Shelled | Pound | 7.30 | 1/4 cup heated, drained vegetable | 13.7 |  |
| Beans, Soy, dry Shelled | Pound | 25.9 | 1/4 cup cooked vegetable | 3.9 | 1 lb dry about 2-1/2 cup dry beans |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | 6 Additional |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Information |  |  |  |  |  |

BEAN SPROUTS ${ }^{3}$

| Bean Sprouts, fresh ${ }^{3}$ Mung | Pound | 14.6 | 1/4 cup parboiled, drained vegetable | 6.9 | $1 \mathrm{lb} \mathrm{AP}=0.89 \mathrm{lb}$ parboiled |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bean Sprouts, fresh ${ }^{3}$ <br> Soybean | Pound | 17.2 | 1/4 cup parboiled, drained vegetable | 5.9 | $1 \mathrm{lb} \mathrm{AP}=0.95 \mathrm{lb}$ parboiled |
| Bean Sprouts, canned | $\begin{aligned} & \text { No. } 10 \text { can } \\ & (102 \mathrm{oz}) \end{aligned}$ | 29.1 | 1/4 cup heated, drained vegetable | 3.5 | 1 No. 10 can = about 48.4 oz (7-1/4 cups) heated, drained bean sprouts |
|  | No. 10 can (102 oz) | 42.2 | 1/4 cup drained vegetable | 2.4 | 1 No. 10 can = about 59.0 oz (10-1/2 cups) drained, unheated bean sprouts |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14 \mathrm{oz}) \end{aligned}$ | 3.99 | 1/4 cup heated, drained vegetable | 25.1 | 1 No. 300 can = about 6.5 oz (1 cup) heated, drained bean sprouts |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14 \mathrm{oz}) \end{aligned}$ | 5.34 | 1/4 cup drained vegetable | 18.8 | 1 No. 300 can = about 8.0 oz (1-1/3 cups) drained, unheated bean sprouts |
| BEANS, WAX |  |  |  |  |  |
| Beans, Wax, fresh Whole Untrimmed | Pound | 10.5 | 1/4 cup whole, cooked, drained vegetable | 9.6 | 1 lb AP $=0.95 \mathrm{lb}$ (about $4-1 / 3$ cups) ready-to-cook cut beans |

[^44]
## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEANS, WAX (continued) |  |  |  |  |  |
| Beans, Wax, canned | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 34.3 | 1/4 cup heated, drained vegetable | 3.0 | 1 No. 10 can = about 53.7 oz (8-1/2 cups) heated, drained beans |
|  | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 43.2 | 1/4 cup drained vegetable | 2.4 | 1 No. 10 can = about 59.3 oz (10-3/4 cups) drained, unheated beans |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (28 oz) } \end{array}$ | 12.9 | 1/4 cup heated, drained vegetable | 7.8 |  |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (28 oz) } \end{array}$ | 14.0 | 1/4 cup drained vegetable | 7.2 | $\begin{aligned} & 1 \text { No. } 2-1 / 2 \text { can = about } \\ & 16.0 \text { oz ( } 3-1 / 2 \text { cups) } \\ & \text { drained, unheated beans } \end{aligned}$ |
|  | $\begin{array}{\|l} \text { No. } 300 \text { can } \\ (14-1 / 2 \text { oz }) \end{array}$ | 4.58 | 1/4 cup heated, drained vegetable | 21.9 | 1 No. 300 can = about 7.1 oz (1-1/8 cups) heated, drained vegetable |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (14-1/2 oz) } \end{aligned}$ | 6.17 | 1/4 cup drained vegetable | 16.3 | 1 No. 300 can = about 7.0 oz (1-1/2 cups) drained, unheated beans |
|  | Pound | 5.43 | 1/4 cup heated, drained vegetable | 18.5 |  |
|  | Pound | 6.84 | 1/4 cup drained vegetable | 14.7 |  |
| BEETS |  |  |  |  |  |
| Beets, fresh Without tops | Pound | 11.6 | 1/4 cup raw, pared vegetable sticks | 8.7 | $1 \mathrm{lb} \mathrm{AP}=0.77 \mathrm{lb}$ pared |
|  | Pound | 7.60 | 1/4 cup diced, cooked vegetable | 13.2 |  |
|  | Pound | 7.70 | 1/4 cup sliced, cooked vegetable | 13.0 | 1 lb AP $=0.73 \mathrm{lb}$ cooked slices |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | 5 <br> Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BEETS (continued) |  |  |  |  |  |
| Beets, canned Baby <br> Whole | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (103 oz) } \end{aligned}$ | 36.7 | 1/4 cup heated, drained vegetable | 2.8 | 1 No. 10 can = about 60.2 oz ( $9-1 / 8$ cups) heated, drained beets |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (103 oz) } \end{aligned}$ | 40.2 | 1/4 cup drained vegetable | 2.5 | 1 No. 10 can = about 64.0 oz (10 cups) drained, unheated beets |
|  | Pound | 5.70 | 1/4 cup heated, drained vegetable | 17.6 |  |
|  | Pound | 6.24 | 1/4 cup drained vegetable | 16.1 |  |
| Beets, canned Diced | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (104 oz) } \end{aligned}$ | 37.6 | 1/4 cup heated, drained vegetable | 2.7 | 1 No. 10 can = about 63.3 oz (9-3/8 cups) heated, drained beets |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (104 oz) } \end{aligned}$ | 40.9 | 1/4 cup drained vegetable | 2.5 | 1 No. 10 can = about 66.4 oz (10-1/8 cups) drained, unheated beets |
|  | Pound | 5.78 | 1/4 cup heated, drained vegetable | 17.4 |  |
|  | Pound | 6.29 | 1/4 cup drained vegetable | 15.9 |  |
| Beets, canned Sliced | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (104 oz) } \end{aligned}$ | 36.4 | 1/4 cup heated, drained vegetable | 2.8 | 1 No. 10 can = about 60.1 oz ( 9 cups) heated, drained beets |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (104 oz) } \end{aligned}$ | 38.8 | 1/4 cup drained vegetable | 2.6 | 1 No. 10 can = about 64.9 oz (9-2/3 cups) drained, unheated beets |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 5.16 | 1/4 cup heated, drained vegetable | 19.4 | 1 No. 300 can = about 7.9 oz (1-1/4 cups) heated, drained beets |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 5.33 | 1/4 cup drained vegetable | 18.8 | 1 No. 300 can = about 8.9 oz (1-1/3 cups) drained, unheated beets |
| BEET GREENS |  |  |  |  |  |
| Beet Greens, fresh Untrimmed | Pound | 3.50 | 1/4 cup cooked vegetable | 28.6 | $1 \mathrm{lb} \mathrm{AP}=0.48 \mathrm{lb}$ ready-tocook |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |

## BLACKBERRRIES (BOYSENBERRIES)

| Blackberries (Boysenberries), fresh <br> Whole | Quart $(20 \mathrm{oz})$ | 14.9 | 1/4 cup raw fruit | 6.8 | $1 \mathrm{gt} \mathrm{AP}=1.2 \mathrm{lb}$ (about 3-3/4 cups) ready-to-serve raw berries |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 11.9 | 1/4 cup raw fruit | 8.5 | 1 lb AP $=0.96 \mathrm{lb}$ (about 2-7/8 cups) ready-to-serve raw berries |
| Blackberries (Boysenberries), canned Whole | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (103 oz) } \end{array}$ | 47.8 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 66.0 oz (10-2/3 cups) drained berries |
|  | Pound | 7.42 | 1/4 cup fruit and juice | 13.5 | 1 lb AP = about 9.2 oz <br> (1-1/2 cups) drained berries |
| Blackberries (Boysenberries), frozen Whole | Pound | 8.00 | 1/4 cup cooked fruit, sugar added | 12.5 |  |
|  | Pound | 9.00 | 1/4 cup thawed fruit, sugar added | 11.2 |  |
| Blackberries <br> (Boysenberries), frozen <br> Puree <br> Includes USDA <br> Commodity | Pound | 7.70 | 1/4 cup thawed fruit puree | 13.0 | $1 \mathrm{lb}=$ about 1-7/8 cups thawed fruit puree |
|  | 5 lb 12 oz container | 44.2 | 1/4 cup thawed fruit puree | 2.3 | 5 lb 12 oz container = about 11 cups thawed fruit puree |
| BLUEBERRIES |  |  |  |  |  |
| Blueberries, fresh Whole Includes USDA Commodity | $\begin{array}{\|l} \text { Pint } \\ (14-1 / 4 ~ o z) \end{array}$ | 10.7 | 1/4 cup raw fruit | 9.4 | $1 \mathrm{pt} \mathrm{AP}=0.87 \mathrm{lb}$ (about 2-2/3 cups) ready-to-serve raw berries |
|  | Pound | 11.9 | 1/4 cup raw fruit | 8.5 | 1 lb AP $=0.96 \mathrm{lb}$ ready-toserve raw berries |
| Blueberries, canned Whole | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (105 oz) } \end{array}$ | 47.6 | 1/4 cup fruit and juice | 2.2 | 1 No. 10 can = about 55.0 oz ( $9-1 / 4$ cups) drained berries |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 6.80 | 1/4 cup fruit and juice | 14.8 | 1 No. 300 can = about 8.2 oz (1-3/8 cups) drained berries |
|  | Pound | 7.20 | 1/4 cup fruit and juice | 13.9 |  |

Section 2—Vegetables/Fruits

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | $3 \begin{gathered} \text { Servings } \\ \text { per } \\ \text { Purchase } \\ \text { Unit, EP } \end{gathered}$ | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | 5 Purchase <br> Units <br> for 100 <br> Servings | $6 \begin{gathered} \text { Additional } \\ \text { Information } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BLUEBERRIES (continued) |  |  |  |  |  |
| Blueberries, frozen Whole | Pound | 7.80 | 1/4 cup cooked fruit, sugar added | 12.9 |  |
| Blueberries, frozen Whole <br> Individually-quickfrozen | Pound | 11.9 | 1/4 cup thawed fruit unsweetened | 8.5 | 1 lb AP $=0.91 \mathrm{lb}$ (about 2-7/8 cups) ready-to-serve berries |
| Blueberries, dehydrated Whole | Pound | 12.4 | 1/4 cup dehydrated fruit | 8.1 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about 3 cups) ready-to-serve dried berries |
| BOKCHOY |  |  |  |  |  |
| Bokchoy, fresh Whole | Pound | 14.4 | 1/4 cup raw, shredded vegetable | 7.0 | $1 \mathrm{lb} \mathrm{AP}=0.77 \mathrm{lb}$ (about $3-1 / 2$ cups) ready-to-serve bokchoy |
| BOYSENBERRIES (see BLACKBERRIES) |  |  |  |  |  |

## BREADFRUIT

| Breadfruit, fresh Guatemalan | Pound | 5.69 | 1/4 cup baked, mashed fruit | 17.6 | 1 lb AP $=0.60 \mathrm{lb}$ (about 1-3/8 cup) cooked mashed fruit, 1 breadfruit = about 2.6 lb |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BROCCOLI |  |  |  |  |  |
| Broccoli, fresh Untrimmed | Pound | 9.80 | $1 / 4$ cup raw vegetable spears | 10.3 | 1 lb AP $=0.81 \mathrm{lb}$ ready-tocook broccoli |
|  | Pound | 9.40 | 1/4 cup cooked, drained vegetable spears | 10.7 | $\begin{aligned} & 1 \text { medium spear = about } \\ & 1 / 4 \text { cup } \end{aligned}$ |
|  | Pound | 10.2 | 1/4 cup cut, cooked, drained vegetable | 9.9 |  |
| Broccoli, fresh <br> Florets <br> Trimmed <br> Ready-to-use | Pound | 28.8 | 1/4 cup cut, raw vegetable | 3.5 | 1 lb AP $=1 \mathrm{lb}$ (about 7-1/8 cups) ready-to-cook broccoli |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BROCCOLI (continued) |  |  |  |  |  |
| Broccoli, fresh <br> Spears <br> Trimmed <br> Ready-to-use | Pound | 17.1 | 1/4 cup raw vegetable spears | 5.9 | $1 \mathrm{lb} \mathrm{AP}=1.0 \mathrm{lb}$ (about 4-1/4 cups) ready-to-cook broccoli |
|  | Pound | 13.0 | 1/4 cup cooked, drained vegetable spears | 7.7 | 1 lb AP $=1.00 \mathrm{lb}$ (about 3-1/4 cups) cooked broccoli |
| Broccoli, fresh <br> Slaw <br> Ready-to-use | Pound | 21.1 | 1/4 cup raw vegetable | 4.8 | 1 lb AP $=1 \mathrm{lb}$ (about 5-1/4 cups) ready-to-serve or -cook broccoli slaw |
| Broccoli, frozen Spears | Pound | 10.9 | 1/4 cup cooked, drained vegetable | 9.2 | 1 lb AP $=0.90 \mathrm{lb}$ (about 2-5/8 cups) cooked broccoli |
| Broccoli, frozen Cut or chopped | Pound | 9.60 | 1/4 cup cooked, drained vegetable | 10.5 |  |

## BRUSSELS SPROUTS

| Brussels Sprouts, <br> fresh <br> Whole | Pound | 8.50 | $1 / 4$ cup cooked, drained <br> vegetable | 11.8 | 1 lb AP $=0.76 \mathrm{lb}$ ready-to- <br> cook Brussels sprouts |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Brussels Sprouts, <br> fresh <br> Trimmed <br> Ready-to-use | Pound | 16.1 | $1 / 4$ cup raw vegetable | 6.3 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about 4 cups) <br> ready-to-serve Brussels <br> sprouts |
| Pound | 13.4 | $1 / 4$ cup cooked, drained <br> vegetable | 7.5 | $1 \mathrm{lb} \mathrm{AP}=1.00 \mathrm{lb}$ (about <br> $3-1 / 3$ cups) steamed <br> Brussels sprouts |  |
| Brussels Sprouts, <br> frozen <br> Ready-to-use | Pound | 10.4 | $1 / 4$ cup cooked, drained <br> vegetable | 9.7 |  |
| CABBAGE, CHINESE or CELERY | Pound | 20.4 | $1 / 4$ cup raw vegetable <br> strips | 5.0 | 1 lb AP $=0.93 \mathrm{lb}$ (about <br> 5 cups) ready-to-serve, raw <br> cabbage |
| Cabbage, Chinese <br> or Celery, fresh <br> Untrimmed | Pound | 10.6 | $1 / 4$ cup cooked, drained <br> vegetable strips | 9.5 |  |

Section 2-Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | 5 Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- | :--- | :--- | :--- |

## CABBAGE, GREEN



| Cabbage, Red, fresh Whole Untrimmed | Pound | 13.0 | 1/4 cup raw, chopped vegetable | 7.7 | 1 lb AP $=0.64 \mathrm{lb}$ (about 3-1/4 cups) ready-to-cook or -serve raw chopped cabbage |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 24.6 | 1/4 cup raw, shredded vegetable | 4.1 | $1 \mathrm{lb} \mathrm{AP}=0.83 \mathrm{lb}$ (about 6 cups) ready-to-cook or -serve raw, shredded cabbage |
|  | Pound | 13.3 | 1/4 cup cooked, shredded vegetable | 7.6 |  |
| Cabbage, Red, fresh Shredded Ready-to-use | Pound | 22.8 | 1/4 cup raw vegetable | 4.4 | 1 lb AP $=1 \mathrm{lb}$ (about $5-2 / 3$ cups) ready-to-serve raw, shredded cabbage |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## CACTUS (NOPALES)

| Cactus (Nopales), <br> fresh <br> Leaves (or petals) <br> Unpeeled <br> With thorns | Pound | 6.80 | $1 / 4$ cup unpeeled, diced <br> cooked, drained vegetable <br> (thorns removed) | 14.8 | $1 \mathrm{lb} \mathrm{AP}=0.96 \mathrm{lb}$ (about <br> $1-2 / 3$ cups) unpeeled, <br> thorns removed, diced, <br> cooked, drained cactus |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cactus (Nopales), <br> fresh <br> Leaves (or Petals) <br> Unpeeled <br> Without thorns | Pound | 6.96 | $1 / 4$ cup unpeeled diced, <br> cooked, drained vegetable | 14.4 | $1 \mathrm{lb} \mathrm{AP}=0.99 \mathrm{lb}$ ready-to- <br> cook diced cactus <br> $1 \mathrm{lb} \mathrm{AP}=$ about $1-2 / 3$ cups <br> diced, cooked, drained <br> cactus |
| Cactus (Nopalitos), <br> canned <br> Leaves (or Petals) <br> Cut | 14 oz jar | 3.04 | $1 / 4$ cup heated, drained <br> vegetable | 32.9 | 14 oz jar $=$ about 5.7 oz <br> $(3 / 4$ cup) cooked, drained <br> cactus |
| 14 oz jar | 3.65 | $1 / 4$ cup drained vegetable | 27.4 | 14 oz jar $=$ about 6.3 oz <br> $(7 / 8$ cup) drained, unheated <br> cactus |  |

CACTUS FRUIT (PRICKLY PEAR)

| Cactus Fruit (Prickly <br> Pear), fresh <br> Whole fruit |
| :--- |
|  |
| Pound |
| Pound |

[^45]
## Section 2—Vegetables/Fruits

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | $\begin{gathered} \text { Servings } \\ \text { per } \\ \text { Purchase } \\ \text { Unit, EP } \end{gathered}$ | $4 \begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | $\begin{array}{\|c\|} \hline 5 \text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings } \end{array}$ | $6 \begin{gathered} \text { Additional } \\ \text { Information } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CANTALOUPE ${ }^{4}$ (continued) |  |  |  |  |  |
| Cantaloupe, frozen Melon balls Packed in syrup | Pound | 7.80 | 1/4 cup fruit and juice | 12.9 |  |
| Cantaloupe, frozen Melon balls Unsweetened | Pound | 8.70 | 1/4 cup fruit | 11.5 | $1 \mathrm{lb}=35$ balls |
| CARAMBOLA (see STAR FRUIT) |  |  |  |  |  |


| CARROTS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Carrots, fresh Without tops | Pound | 10.3 | 1/4 cup raw vegetable strips (about 3 strips, 4 -inch by $1 / 2$ inch) | 9.8 | $1 \mathrm{lb} \mathrm{AP}=0.70 \mathrm{lb}$ ready-tocook, or -serve raw carrot sticks |
|  | Pound | 10.6 | 1/4 cup raw, chopped vegetable | 9.5 |  |
|  | Pound | 15.4 | 1/4 cup raw, shredded vegetable | 6.5 | 1 lb AP $=0.83 \mathrm{lb}$ (about $3-3 / 4$ cups) trimmed, peeled, shredded carrot |
|  | Pound | 8.10 | 1/4 cup raw shredded vegetable with dressing | 12.4 |  |
|  | Pound | 8.63 | 1/4 cup cooked, drained shredded vegetable | 11.6 | $1 \mathrm{lb} \mathrm{AP}=0.79 \mathrm{lb}$ (about 2-1/8 cups) trimmed, peeled, shredded, cooked carrot |
|  | Pound | 10.9 | 1/4 cup raw, sliced vegetable ( $5 / 16$-inch slices) | 9.2 | 1 lb AP $=0.83 \mathrm{lb}$ (about 2-2/3 cups) trimmed, peeled, sliced carrots |
|  | Pound | 8.16 | 1/4 cup cooked, drained sliced vegetable ( $5 / 16$-inch slices) | 12.3 | 1 lb AP $=0.76 \mathrm{lb}$ (about 2 cups) cooked, sliced carrots |
| Carrots, fresh Shredded Ready-to-use | Pound | 19.9 | 1/4 cup raw vegetable | 5.1 | 1 lb AP $=1 \mathrm{lb}$ (about 4-7/8 cups) ready-to-use raw, shredded carrot |
|  | Pound | 11.2 | 1/4 cup cooked, drained vegetable | 9.0 | 1 lb AP $=0.92 \mathrm{lb}$ (about 2-3/4 cups) cooked carrot |

[^46]
## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CARROTS (continued) |  |  |  |  |  |
| Carrots, fresh <br> Sliced <br> Peeled <br> Ready-to-use | Pound | 12.6 | 1/4 cup raw vegetable slices ( $5 / 16$-inch slices) | 8.0 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about 3-1/8 cups) ready-to-serve or -cook carrot |
| Carrots, fresh <br> Sticks <br> Ready-to-use <br> (1/2-inch by 4-inch) | Pound | 15.4 | 1/4 cup raw vegetable (about 3 sticks) | 6.5 | 1 lb AP $=1 \mathrm{lb}$ (about 3-3/4 cups) carrot sticks |
| Carrots, fresh <br> Baby <br> Ready-to-use | Pound | 12.9 | 1/4 cup raw vegetable | 7.8 | 1 lb AP $=1 \mathrm{lb}$ (about 3-1/8 cups) ready-to-serve raw carrots |
|  | Pound | 11.4 | 1/4 cup cooked, drained vegetable | 8.8 | $1 \mathrm{lb} \mathrm{AP}=0.97 \mathrm{lb}$ (about 2-3/4 cups) cooked carrots |
| Carrots, canned Diced Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 34.3 | 1/4 cup heated, drained vegetable | 3.0 | 1 No. 10 can = about 62.0 oz ( $8-1 / 2$ cups) heated, drained carrots |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 40.0 | 1/4 cup drained vegetable | 2.5 | 1 No. 10 can = about 67.0 oz (10 cups) drained, unheated carrots |
|  | Pound | 5.22 | 1/4 cup heated, drained vegetable | 19.2 |  |
|  | Pound | 6.09 | 1/4 cup drained vegetable | 16.5 |  |
| Carrots, canned Sliced Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 37.2 | 1/4 cup heated, drained vegetable | 2.7 | 1 No. 10 can = about 65.0 oz (9-1/4 cups) heated, drained carrot |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 43.4 | 1/4 cup drained vegetable | 2.4 | 1 No. 10 can = about 70.0 oz (10-3/4 cups) drained, unheated carrots |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 5.20 | 1/4 cup heated, drained vegetable | 19.3 | 1 No. 300 can = about 8.6 oz (1-1/4 cups) heated, drained carrots |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 5.88 | 1/4 cup drained vegetable | 17.1 | 1 No. 300 can = about 8.5 oz (1-3/8 cups) drained, unheated carrots |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & 1 \begin{array}{l} \text { Food As } \\ \text { Purchased, AP } \end{array} \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \begin{array}{c} \text { pervings } \\ \text { per } \\ \text { Purchase } \\ \text { Unit, EP } \end{array} \\ \hline \end{array}$ | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | $\begin{array}{\|c\|} \hline 5 \text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings } \end{array}$ | $6 \begin{aligned} & \text { Additional } \\ & \text { Information } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CARROTS (continued) |  |  |  |  |  |
| Carrots, frozen <br> Sliced <br> Includes USDA <br> Commodity | Pound | 9.87 | 1/4 cup cooked, drained vegetable | 10.2 | $1 \mathrm{lb} \mathrm{AP}=0.95 \mathrm{lb}$ (about 2-3/8 cups) cooked, drained carrot |
| Carrots, frozen Baby | Pound | 10.9 | 1/4 cup cooked, drained vegetable | 9.2 |  |
| CASSAVA (see YUCCA) |  |  |  |  |  |

## CAULIFLOWER

| Cauliflower, fresh Whole Trimmed | Pound | 12.5 | 1/4 cup raw, sliced vegetable | 8.0 | $1 \mathrm{lb} \mathrm{AP}=0.62 \mathrm{lb}$ ready-tocook or -serve raw cauliflower |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 12.3 | 1/4 cup raw vegetable florets | 8.2 | 1 medium head = about 6 cups cauliflower florets |
|  | Pound | 8.80 | 1/4 cup cooked, drained vegetable florets | 11.4 | 1 lb AP $=0.61 \mathrm{lb}$ cooked cauliflower |
| Cauliflower, fresh Florets Ready-to-use | Pound | 18.3 | 1/4 cup raw vegetable florets | 5.5 | 1 lb AP $=1 \mathrm{lb}$ (about 4-1/2 cups) ready-to-cook or -serve cauliflower |
|  | Pound | 14.1 | 1/4 cup cooked, drained vegetable florets | 7.1 |  |
| Cauliflower, frozen | Pound | 9.20 | 1/4 cup cooked, drained vegetable | 10.9 |  |
| CELERY |  |  |  |  |  |
| Celery, fresh Trimmed | Pound | 12.2 | 1/4 cup raw vegetable sticks or strips (about 3 sticks, $1 / 2$-inch by 4-inch sticks) | 8.2 |  |
|  | Pound | 12.5 | 1/4 cup raw, chopped vegetable | 8.0 | $1 \mathrm{lb} \mathrm{AP}=0.83 \mathrm{lb}$ (about 3-1/8 cups) ready-to-cook or -serve raw celery |
|  | Pound | 12.3 | 1/4 cup raw, diced vegetable | 8.2 |  |
|  | Pound | 8.70 | 1/4 cup diced, cooked, drained vegetable | 11.5 | 1 lb AP $=0.74 \mathrm{lb}$ (about 2-1/8 cups) cooked celery |
|  | Pound | 8.10 | 1/4 cup sliced, cooked, drained vegetable | 12.4 |  |

## Section 2—Vegetables/Fruits

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CELERY (continued) |  |  |  |  |  |
| Celery, fresh Sticks <br> Ready-to-use (1/2-inch by 4-inch) | Pound | 14.0 | 1/4 cup raw vegetables (about 3 sticks) | 7.2 | 1 lb AP $=1 \mathrm{lb}$ (about $3-1 / 2$ cups) ready-to-serve raw celery |
| Celery, fresh <br> Diced <br> Ready-to-use | Pound | 12.9 | 1/4 cup raw vegetable | 7.8 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about <br> 3-1/8 cups) ready-to-cook or -serve raw celery |
| Celery, canned Diced | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (102 oz) } \end{array}$ | 38.4 | 1/4 cup heated, drained vegetable | 2.7 | 1 No. 10 can = about 64.0 oz (9-1/2 cups) heated, drained celery |
|  | $\begin{array}{\|l\|} \hline \text { No } 10 \text { can } \\ \text { (102 oz) } \end{array}$ | 49.0 | 1/4 cup drained vegetable | 2.1 | 1 No 10 can = about 74.0 oz (12-3/8 cups) drained celery |
|  | Pound (drained weight) | 8.27 | 1/4 cup heated, drained vegetable | 12.1 |  |
|  | Pound (drained weight) | 10.5 | 1/4 cup drained vegetable | 9.6 |  |
| Celery, canned Diced In sauce | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (104 oz) } \end{array}$ | 49.7 | 1/4 cup heated, drained vegetable | 2.1 | 1 No. 10 can = about 100.0 oz (12-3/8 cups) heated, drained celery |

## CHARD, SWISS (see SWISS CHARD)

## CHAYOTE (MIRLITON)

| Chayote (Mirliton), <br> fresh <br> Whole <br> Unpeeled Pound |
| :--- |
| Pound |

Section 2-Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \text { Purchase }$ | Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | 5 Purchase Units for 100 Servings |  |
| :---: | :---: | :---: | :---: | :---: | :---: |

## CHERRIES, MARASCHINO (continued)

| Cherries, <br> Maraschino, canned <br> Small | Pound | 5.70 | $1 / 4$ cup drained fruit | 17.6 |
| :--- | :--- | :--- | :--- | :--- |

CHERRIES, RED TART

| Cherries, Red Tart, fresh <br> Whole | Pound | 6.40 | 1/4 cup cooked, pitted fruit, sugar added | 15.7 | 1 lb AP $=0.87 \mathrm{lb}$ pitted cherries |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cherries, Red Tart, canned <br> Pitted <br> Water packed <br> Includes USDA <br> Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (102 oz) } \end{aligned}$ | 46.8 | 1/4 cup fruit and juice | 2.2 | 1 No. 10 can = about 11-3/4 cups net pitted cherries and juice |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (102 oz) } \end{aligned}$ | 36.2 | 1/4 cup drained fruit | 2.8 | 1 No. 10 can = about 70.0 oz ( 9 cups) drained, pitted cherries |
|  | Pound | 7.29 | 1/4 cup fruit and juice | 13.8 |  |
|  | Pound | 5.79 | 1/4 cup drained fruit | 17.3 |  |
| Cherries, Red Tart, frozen <br> Pitted <br> Includes USDA <br> Commodity | Pound | 11.4 | 1/4 cup thawed fruit and juice | 8.8 | 1 lb AP $=0.98 \mathrm{lb}$ (about 2-3/4 cups) thawed cherries and juice |
|  | Pound | 7.00 | 1/4 cup drained fruit | 14.3 | 1 lb AP $=0.70 \mathrm{lb}$ (about $1-3 / 4$ cups) thawed, drained cherries |
|  | Pound | 5.90 | 1/4 cup cooked fruit and juice | 17.0 |  |
|  | 40 lb pkg | 457.4 | 1/4 cup thawed fruit and juice | 0.22 | $40 \mathrm{lb} \mathrm{pkg}=$ about 114-1/4 cups thawed cherries and juice |
|  | 40 lb pkg | 280.8 | 1/4 cup thawed, drained fruit | 0.36 | $40 \mathrm{lb} \mathrm{pkg}=$ about 70-1/8 cups thawed, drained cherries |
|  | 40 lb pkg | 236.7 | 1/4 cup cooked fruit and juice | 0.43 |  |

## Section 2—Vegetables/Fruits

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CHERRIES, RED TART (continued) |  |  |  |  |  |
| Cherries, Red Tart, dehydrated Whole | Pound | 11.8 | 1/4 cup dehydrated fruit | 8.5 | 1 lb AP = 1 lb (about 2-7/8 cups) dried cherries |
| Without pits | 2 lb pkg | 23.6 | 1/4 cup dehydrated fruit | 4.3 |  |
| Includes USDA Commodity | 4 lb pkg | 47.2 | 1/4 cup dehydrated fruit | 2.2 |  |
| CHERRIES, SWEET |  |  |  |  |  |
| Cherries, Sweet, fresh <br> Whole <br> With pits | Pound | 8.50 | 1/4 cup raw, pitted cherries (about 7 whole) | 11.8 | 1 lb AP $=0.98 \mathrm{lb}$ ready-toserve cherries with pits or 0.84 lb pitted cherries |
| Cherries, Sweet, canned Whole With pits | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 45.8 | 1/4 cup pitted fruit and juice | 2.2 | 1 No. 10 can = about 59.0 oz (9-1/4 cups) drained, pitted cherries |
|  | No. 2-1/2 <br> can (29 oz) | 12.5 | 1/4 cup pitted fruit and juice | 8.0 | $\begin{aligned} & 1 \text { No. } 2-1 / 2 \text { can = about } \\ & 17.6 \text { oz ( } 2-3 / 8 \text { cups) } \\ & \text { drained cherries } \end{aligned}$ |
|  | Pound | 6.91 | 1/4 cup pitted fruit and juice | 14.5 | 1 lb AP = about 8.4 oz (1-1/3 cups) drained, pitted cherries |

CHICKPEAS (see BEANS, GARBANZ0)

| CHICORY |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Chicory, fresh | Pound | 47.4 | $1 / 4$ cup raw vegetable <br> pieces <br> $1 / 4$ cup raw vegetable <br> pieces with dressing | 2.2 | 1 lb AP $=0.89 \mathrm{lb}$ ready-to- <br> serve raw chicory |


| CLEMENTINES |
| :--- |
| Clementines, fresh |
| Whole |

Pound
Pound

Section 2-Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| 4 Serving Size per Meal Contribution | Purchase Units for 100 Servings | 6 <br> Additional Information |
| :---: | :---: | :---: |

## COLLARD GREENS

| Collard Greens, fresh Untrimmed | Pound | 6.20 | 1/4 cup cooked, drained vegetable leaves | 16.2 | $1 \mathrm{lb} \mathrm{AP}=0.57 \mathrm{lb}$ ready-tocook collard leaves |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 10.5 | 1/4 cup cooked, drained vegetable leaves and stems | 9.6 | $1 \mathrm{lb} \mathrm{AP}=0.74 \mathrm{lb}$ ready -to-cook collard leaves and stems |
| Collard Greens, canned | $\begin{array}{\|l\|l} \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 27.2 | 1/4 cup heated, drained vegetable | 3.7 | 1 No. 10 can = about 54.0 oz (6-3/4 cups) heated, drained collards |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 35.9 | 1/4 cup drained vegetable | 2.8 | 1 No. 10 can = about 66.4 oz ( 9 cups) drained, unheated collards |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (27 oz) } \end{aligned}$ | 6.80 | 1/4 cup heated, drained vegetable | 14.7 | 1 No. 2-1/2 can = about 17.6 oz (3 cups) drained collards |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz) } \end{aligned}$ | 3.67 | 1/4 cup heated, drained vegetable | 27.3 |  |
| Collard Greens, frozen Chopped or Whole leaf | Pound | 9.20 | 1/4 cup cooked, drained vegetable | 10.9 |  |
| CORN |  |  |  |  |  |
| Corn, fresh <br> With husks <br> (5 to 6-inch length) <br> Medium | Pound | 1.67 | 1 medium ear (about $1 / 2$ cup cooked vegetable) | 59.9 |  |
|  | Pound | 3.35 | 1/4 cup cooked vegetable (about $1 / 2 \mathrm{cob}$ ) | 29.9 | 1 lb AP $=0.34 \mathrm{lb}$ raw cut corn |
| Corn, fresh Without husks (5 to 6-inch length) Medium | Pound | 2.33 | 1 medium ear (about <br> $1 / 2$ cup cooked vegetable) | 43.0 |  |
|  | Pound | 5.27 | 1/4 cup cooked vegetable (about $1 / 2$ cob) | 19.0 | $1 \mathrm{lb} \mathrm{AP}=0.54 \mathrm{lb}$ raw cut corn |
| Corn, canned Cream style Includes USDA Commodity | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (106 oz) } \end{array}$ | 46.4 | 1/4 cup heated vegetable | 2.2 | 1 No. 10 can = about 100.7 oz (11-1/2 cups) heated corn |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \text { oz) } \end{aligned}$ | 6.35 | 1/4 cup heated vegetable | 15.8 | 1 No. 300 can = about 13.0 oz (1-1/2 cups) heated corn |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CORN (continued) |  |  |  |  |  |
| Corn, canned <br> Whole kernel Vacuum packed Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (75 oz) } \end{aligned}$ | 34.1 | 1/4 cup heated, drained vegetable | 3.0 | 1 No. 10 can = about 60.5 oz ( $8-1 / 2$ cups) heated, drained corn |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (75 oz) } \end{aligned}$ | 36.8 | 1/4 cup drained vegetable | 2.8 | 1 No. 10 can = about 63.0 oz ( 9 cups) drained, unheated corn |
|  | $\text { No. } 2 \text { can }$ (12 oz) | 6.60 | 1/4 cup heated, drained vegetable | 15.2 | 1 No. 2 can = about 10.0 oz (1-2/3 cups) drained, heated corn |
| Corn, canned Whole kernel Liquid pack Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 39.6 | 1/4 cup heated, drained vegetable | 2.6 | 1 No. 10 can = about 66.0 oz (9-7/8 cups) heated, drained corn |
|  | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (106 oz) } \end{array}$ | 40.7 | 1/4 cup drained vegetable | 2.5 | 1 No. 10 can = about 73.3 oz (10-2/3 cups) drained, unheated corn |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (15-1/4 oz) } \end{aligned}$ | 5.68 | 1/4 cup heated, drained vegetable | 17.7 | 1 No. 300 can = about 9.3 oz ( $1-3 / 8 \mathrm{cups}$ ) heated, drained corn |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-1 / 4 \text { oz }) \end{aligned}$ | 5.86 | 1/4 cup drained vegetable | 17.1 | 1 No. 300 can = about 9.6 oz (1-3/8 cups) drained, unheated corn |
| Corn, frozen Whole Kernel Includes USDA Commodity | Pound | 11.1 | 1/4 cup tempered vegetable (unheated for salads) | 9.1 | 1 lb AP $=0.99 \mathrm{lb}$ (about 2-3/4 cups) ready-to-serve, raw, tempered corn |
|  | Pound | 11.0 | 1/4 cup cooked vegetable | 9.1 |  |
| Corn, frozen <br> Corn on the cob 3-inch ear (cobbette) Includes USDA Commodity | Pound | 4.25 | 1/4 cup cooked vegetable (about 1 cobbette) | 23.6 | 1 lb AP $=0.53 \mathrm{lb}$ (about 1 cup) edible portion cooked corn |
| Corn, frozen Corn on the cob 5-1/4-inch ear (medium) Includes USDA Commodity | Pound | 2.44 | 1 medium cooked ear (about $1 / 2$ cup cooked vegetable) | 41.0 | 1 lb AP $=0.52 \mathrm{lb}$ (about $1-1 / 8$ cups) edible portion cooked corn |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |

\(\left.$$
\begin{array}{|c|c|c}\text { Serving Size per } \\
\text { Meal Contribution }\end{array}
$$ \quad \begin{array}{|c}Purchase <br>
Units <br>
for 100 <br>

Servings\end{array}\right) ~ 6\)| Additional |
| :--- |
| Information |

## CRANBERRIES

| Cranberries, fresh Whole | Pound | 15.6 | 1/4 cup raw, chopped fruit | 6.5 | $1 \mathrm{lb} \mathrm{AP}=0.95 \mathrm{lb}$ ready-tocook or -serve raw berries |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 11.1 | 1/4 cup cooked fruit, sugar added, whole berry | 9.1 |  |
|  | Pound | 9.90 | 1/4 cup cooked fruit, sugar added, strained | 10.2 |  |
| Cranberries, dehydrated Sweetened Whole Includes USDA Commodity | Pound | 13.8 | 1/4 cup dehydrated fruit | 7.3 | 1 lb AP $=1 \mathrm{lb}$ (about $3-3 / 8$ cups) ready-to-cook or -serve berries |
|  | 5 lb pkg | 69.0 | 1/4 cup dehydrated fruit | 1.5 |  |
|  | 30 lb pkg | 414.0 | 1/4 cup dehydrated fruit | 0.25 |  |


| Cranberry Relish or Sauce, canned Whole | No. 10 can (117 oz) | 48.0 | 1/4 cup fruit | 2.1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Includes USDA Commodity | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 6.70 | 1/4 cup fruit | 15.0 |  |
| Cranberry Relish or Sauce, canned Strained | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (117 oz) } \end{aligned}$ | 47.9 | 1/4 cup fruit | 2.1 |  |
| Includes USDA Commodity | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (16 \mathrm{oz}) \end{aligned}$ | 6.50 | 1/4 cup fruit | 15.4 |  |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CUCUMBERS |  |  |  |  |  |
| Cucumbers, fresh Whole Unpared | Pound | 11.1 | 1/4 cup unpared, diced vegetable | 9.1 | 1 lb AP $=0.98 \mathrm{lb}$ (about 2-3/4 cups) ready-to-serve raw, unpared, diced cucumber |
|  | Pound | 12.4 | 1/4 cup unpared, sliced vegetable | 8.1 |  |
|  | Pound | 10.5 | 1/4 cup pared, diced or sliced vegetable | 9.6 | 1 lb AP $=0.84 \mathrm{lb}$ ready-to-serve raw, pared, sliced cucumber |
|  | Pound | 9.71 | 1/4 cup pared vegetable sticks (about 3 sticks, 3 -inch by 3/4-inch sticks) | 10.3 | 1 lb AP $=0.81 \mathrm{lb}$ (about 2-3/8 cups) ready-to-serve raw, pared cucumber sticks |
|  | Pound | 11.8 | 1/4 cup unpared vegetable sticks (about 3 sticks, 3 -inch by 3/4-inch sticks) | 8.5 | $1 \mathrm{lb} \mathrm{AP}=0.98 \mathrm{lb}$ (about 3 cups) ready-to-serve raw, unpared cucumber sticks |
| CURRANTS |  |  |  |  |  |
| Currants, dehydrated | Pound | 13.8 | 1/4 cup dehydrated fruit | 7.3 | 1 lb dry = about $3-3 / 8$ cups dry currants |
| DATES |  |  |  |  |  |
| Dates, dehydrated <br> Moisturized <br> With pits <br> Whole | Pound | 10.0 | 1/4 cup pitted, dehydrated fruit | 10.0 |  |
| Dates, dehydrated <br> Pieces <br> Regular moisture <br> Includes USDA <br> Commodity | Pound | 12.7 | 1/4 cup dehydrated fruit | 7.9 | 1 lb dry $=$ about $3-1 / 8$ cups |
|  | 30 lb pkg | 383.6 | 1/4 cup dehydrated fruit | 0.27 | 30 lb box = about <br> 95-7/8 cups dried dates |
| Dates, dehydrated <br> Pitted <br> Regular moisture Includes USDA Commodity | Pound | 11.1 | 1/4 cup whole, dehydrated fruit | 9.1 | 1 lb dry = about 2-3/4 cups whole dry dates |
|  | Pound | 10.6 | 1/4 cup chopped, dehydrated fruit | 9.5 | 1 lb dry = about $2-2 / 3$ cups chopped dry dates |
| EGGPLANT |  |  |  |  |  |
| Eggplant, fresh Whole | Pound | 6.70 | 1/4 cup pared, cubed, cooked vegetable | 15.0 | $1 \mathrm{lb} \mathrm{AP}=0.81 \mathrm{lb}$ ready-tocook eggplant |

Section 2—Vegetables/Fruits

| Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- | :--- | :--- | :--- |

## ENDIVE, ESCAROLE

| Endive or Escarole, fresh <br> Whole | Pound | 19.9 | 1/4 cup raw vegetable pieces | 5.1 | 1 lb AP $=0.78 \mathrm{lb}$ ready-toserve raw endive (escarole) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FIGS |  |  |  |  |  |
| Figs, fresh Small Whole | Pound | 8.00 | 1/4 cup small raw fruit (about 2-1/2 figs) | 12.5 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about 2 cups) ready-to-serve, raw figs, $1 \mathrm{lb}=$ about 20 small figs |
| Figs, canned Puree Includes USDA Commodity | 2 gal | 128.0 | 1/4 cup fruit puree | 0.79 | 2-gallon container $=32$ cups fruit puree |
| Figs, canned Whole | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (110 oz) } \end{array}$ | 49.3 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 64.0 oz (8-3/4 cups) drained figs |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (30 oz) } \end{array}$ | 13.4 | 1/4 cup fruit and juice | 7.5 | $\begin{aligned} & 1 \text { No. } 2-1 / 2 \text { can = about } \\ & 18.6 \text { oz ( } 2-1 / 2 \text { cups) } \\ & \text { drained figs } \end{aligned}$ |
|  | Pound | 7.17 | 1/4 cup fruit and juice | 14.0 |  |
| Figs, dehydrated Whole Includes USDA Commodity | Pound | 10.4 | 1/4 cup dehydrated fruit (about 3 figs) | 9.7 | $\begin{aligned} & 1 \mathrm{lb} \text { dry = about 2-5/8 cups } \\ & \text { or } 30 \text { figs } \end{aligned}$ |
|  | Pound | 13.4 | 1/4 cup cooked fruit and juice | 7.5 |  |
| Figs, dehydrated Diced and Sugared Includes USDA Commodity | Pound | 12.7 | 1/4 cup dehydrated fruit pieces (about 28 pieces) | 7.9 | 1 lb dry $=3-1 / 8$ cups dried, sugared figs |
|  | 25 lb Box | 319.9 | 1/4 cup diced fruit (about 28 pieces) | 0.32 | 25 lb Box = about <br> 80 cups dried, sugared figs |
| FRUIT, MIXED |  |  |  |  |  |
| Fruit, Mixed, chilled may include: honeydew melon, cantaloupe, watermelon, grapes, etc. | $\begin{aligned} & 1 \mathrm{gal} \\ & (97.7 \mathrm{oz}) \end{aligned}$ | 64.0 | 1/4 cup fruit and juice | 1.6 | 1 gallon container = 16 cups fruit and juice |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | per Purchase Unit, EP |
| :---: | :---: | :---: |


| $\begin{array}{l}\text { Serving Size per } \\ \text { Meal Contribution }\end{array}$ | $\begin{array}{l}\text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings }\end{array}$ |
| :--- | :--- |
|  |  |

Additional
Information

## FRUIT, MIXED (continued)

| Fruit, Mixed, canned <br> Fruit Cocktail <br> (peaches, pears, pineapple, grapes, cherries) <br> Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 46.9 | 1/4 cup fruit and juice | 2.2 | 1 No. 10 can = about 69.0 oz (9-1/4 cups) drained fruit |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 12.8 | 1/4 cup fruit and juice | 7.9 | 1 No. 2-1/2 can = about 18.3 oz (2-3/8 cups) drained fruit |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 6.30 | 1/4 cup fruit and juice | 15.9 |  |
| Fruit, Mixed, canned may include: apricots, peaches, pears, pineapple, cherries, grapes, etc. Includes USDA Commodity (peaches, pears, grapes) | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 48.6 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 62.0 oz (8-1/2 cups) drained fruit |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 13.3 | 1/4 cup fruit and juice | 7.6 | 1 No. 2-1/2 can = about 16.9 oz (2-1/3 cups) drained fruit |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 6.50 | 1/4 cup fruit and juice | 15.4 |  |
| Fruit, Mixed, frozen <br> may include: <br> peaches, grapes, <br> apricots, pears, <br> pineapple, cherries, etc. | 136 oz tub | 58.2 | 1/4 cup thawed fruit and juice | 1.8 | 136 oz tub = about 14-3/8 cups thawed fruit and juice |
|  | 136 oz tub | 23.4 | 1/4 cup thawed, drained fruit | 4.3 | 136 oz tub = about 49.4 oz (5-3/4 cups) thawed, drained fruit |
| Fruit, Mixed, dehydrated Regular moisture | Pound | 9.70 | 1/4 cup dehydrated fruit | 10.4 |  |

## GRAPEFRUIT

| Grapefruit, fresh <br> $27-32$ Count (large) <br> Whole | Pound | 6.48 | $1 / 4$ cup fruit sections <br> peeled (about 2 sections) | 15.5 | $1 \mathrm{lb} \mathrm{AP}=0.74 \mathrm{lb}$ (about <br> $1-5 / 8$ cups) peeled, ready- <br> to-serve raw grapefruit <br> sections |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 4.53 | $1 / 4$ cup fruit sections, <br> peeled, without membrane <br> (about 2 sections) | 22.1 | $1 \mathrm{lb} \mathrm{AP}=0.58 \mathrm{lb}$ (about <br> $1-1 / 8$ cups) ready-to-serve <br> raw, peeled grapefruit <br> sections without membrane |
|  | Pound | 2.00 | $1 / 2$ grapefruit (about <br> $1 / 2$ cup fruit and juice) | 50.0 | $1 \mathrm{lb} \mathrm{AP}=0.48 \mathrm{lb}$ ( $7 / 8 \mathrm{cup}$ ) <br> grapefruit juice |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution |
| :--- | :--- | :--- | :--- | :--- |

## GRAPEFRUIT (continued)

| Grapefruit, canned <br> Sections | No. 3 Cyl <br> $(50 \mathrm{oz})$ | 23.3 | $1 / 4$ cup fruit and juice | 4.3 | $1 \mathrm{No.3} \mathrm{Cyl}=$ about 26.0 <br> oz (3-1/8 cups) drained <br> grapefruit |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 7.45 | $1 / 4$ cup fruit and juice | 13.5 |  |
| Grapefruit, frozen <br> Sections | Pound | 7.50 | $1 / 4$ cup fruit and juice | 13.4 | 1 lb AP $=$ about 0.55 lb <br> $(1-1 / 8$ cups) thawed, <br> drained grapefruit |

## GRAPEFRUIT and ORANGE SECTIONS

| Grapefruit and Orange Sections, chilled | $\begin{aligned} & 1 \text { gal } \\ & (136 \mathrm{oz}) \end{aligned}$ | 63.9 | 1/4 cup fruit and juice | 1.6 | 1 gallon = about 91.0 oz (13-1/4 cups) drained fruit |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 7.51 | 14 cup fruit and juice | 13.4 |  |
| Grapefruit and Orange Sections, canned | $\begin{aligned} & \text { No. } 3 \text { Cyl } \\ & (50 \mathrm{oz}) \end{aligned}$ | 22.6 | 1/4 cup fruit and juice | 4.5 | 1 No. 3 Cyl = about 26.0 oz (3-1/2 cups) drained fruit |
|  | Pound | 7.23 | 1/4 cup fruit and juice | 13.9 | 1 lb AP $=$ about 8.5 oz (1-1/8 cups) drained fruit |
| GRAPES |  |  |  |  |  |
| Grapes, fresh <br> Seedless <br> Whole <br> With stem | Pound | 10.5 | 1/4 cup whole fruit (about 7 large grapes) | 9.6 | 1 lb AP $=0.97 \mathrm{lb}$ (about 2-5/8 cups) ready-to-serve grapes |
|  | Pound | 9.27 | 1/4 cup fruit halves (about 14 large grape halves) | 10.8 | 1 lb AP $=0.97 \mathrm{lb}$ (about 2-1/4 cups) ready-to-serve grape halves |
| Grapes, fresh <br> Seedless <br> Whole <br> Without stem | Pound | 10.8 | 1/4 cup whole fruit (about 7 large grapes) | 9.3 |  |
| Grapes, fresh <br> Whole <br> With seeds and stem | Pound | 10.1 | 1/4 cup seeded fruit halves (about 12 grape halves) | 10.0 | 1 lb AP $=0.89 \mathrm{lb}$ raw seeded grapes |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | Purchase Units for 100 Servings |  |
| :---: | :---: | :---: | :---: | :---: | :---: |

## GRAPES (continued)

| Grapes, canned <br> Seedless <br> Whole | No. 10 can <br> $(108$ oz) | 50.0 | $1 / 4$ cup fruit and juice | 2.0 | 1 No. 10 can = about <br> 67.0 oz (10 cups) drained <br> grapes |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | No. 2-1/2 <br> can (30 oz) | 13.8 | $1 / 4$ cup fruit and juice | 7.3 | 1 No. 2-1/2 can = about <br> 18.6 oz (2-3/4 cups) <br> drained grapes |
| Pound | 7.40 | $1 / 4$ cup fruit and juice | 13.6 | 1 lb AP $=$ about 9.9 oz <br> $(1-1 / 2$ cups $)$ drained grapes |  |
| GRAPE LEAVES |  |  |  |  |  |


| Grape Leaves, fresh Whole with stem | Pound | 27.4 | 1/4 cup cooked, drained vegetable (about 3 leaves) | 3.7 | 1 lb AP $=0.80 \mathrm{lb}$ (about 6-3/4 cups) cooked, steamed grape leaves without stem |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Grape Leaves, canned Pickled | 14 oz jar | 17.0 | 1/4 cup drained vegetable (about 3 leaves) | 5.9 | $14 \mathrm{oz} \mathrm{jar}=$ about 8.0 oz <br> (4-1/4 cups) drained leaves |
| GUAVA PUREE |  |  |  |  |  |
| Guava Puree, frozen | 30 oz container | 13.3 | 1/4 cup fruit puree | 7.6 | 30 oz container = about 29.6 oz (3-1/3 cups) thawed fruit puree |
|  | Pound | 7.20 | 1/4 cup fruit puree | 13.9 |  |
| HONEYDEW MELON ${ }^{5}$ |  |  |  |  |  |
| Honeydew Melon, fresh ${ }^{5}$ <br> Whole | Pound | 4.90 | 1/4 cup fruit cubes | 20.5 | 1 lb AP $=0.46 \mathrm{lb}$ (about $1-1 / 8$ cups) ready-to-serve melon cubes |
| Honeydew Melon, frozen | Pound | 8.70 | 1/4 cup fruit balls | 11.5 | $1 \mathrm{lb}=$ about 35 fruit balls |

[^47]
## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | 5 <br> Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| JICAMA (YAM BEAN) |  |  |  |  |  |
| Jicama (Yam Bean), fresh Whole | Pound | 11.9 | 1/4 cup raw peeled, julienned vegetable strips | 8.5 | $1 \mathrm{lb} \mathrm{AP}=0.89 \mathrm{lb}$ (about 2-7/8 cups) ready-to-serve raw peeled, julienned jicama strips |
|  | Pound | 9.61 | 1/4 cup peeled, cooked, julienned vegetable strips | 10.5 | 1 lb AP $=0.87 \mathrm{lb}$ (about 2-3/8 cups) cooked jicama strips |

## JUICES ${ }^{6,7}$

| Juices, canned ${ }^{6}$ <br> Single strength <br> (100\% juice) | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (96 fl oz) } \end{array}$ | 48.0 | 1/4 cup fruit or vegetable juice | 2.1 | $\begin{aligned} & 1 \text { No. } 10 \text { can = } 12 \text { cups } \\ & \text { juice } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Vegetable or Fruit (such as Apple, | No. 3 Can (46 fl oz) | 23.0 | $1 / 4$ cup fruit or vegetable juice | 4.4 |  |
| Grapefruit-Orange, Lemon, Lime, | $\begin{aligned} & \text { Quart } \\ & \text { (32 fl oz) } \end{aligned}$ | 16.0 | 1/4 cup fruit or vegetable juice | 6.3 |  |
| Prune, Tomato, and Tangerine) | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can } \\ & (25-1 / 2 \mathrm{fl} \text { oz) } \end{aligned}$ | 12.7 | 1/4 cup fruit or vegetable juice | 7.9 |  |
| Juices, frozen ${ }^{7}$ <br> Concentrated, any fruit (such as Apple, Grape, Grapefruit, Grapefruit-Orange, and Orange. | 32 floz can <br> (about 38 oz) | 64.0 | 1 tablespoon concentrate (1/4 cup fruit juice) | 1.6 | 32 fl oz can reconstituted = 16 cups ( 128 fl oz ) Reconstitute 1 part juice concentrate with not more than 3 parts water |
| (1 part juice concentrate to 3 parts water) Includes USDA Commodity | 6 fl oz can (about 7 oz) | 12.0 | 1 tablespoon concentrate (1/4 cup fruit juice) | 8.4 | 6 fl oz can reconstituted $=3$ cups ( 24 fl oz ) |

[^48]
## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{array}{\|l} \hline \text { Purchase } \\ \text { Units } \\ \text { for } 100 \\ \text { Servings } \end{array}$ | 6 <br> Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KALE |  |  |  |  |  |
| Kale, fresh <br> Trimmed <br> With stem <br> Ready-to-use | Pound | 35.7 | 1/4 cup raw, chopped vegetable (no stem) | 2.9 | 1 lb AP $=0.73 \mathrm{lb}$ ready-tocook, stemmed kale leaves |
|  | Pound | 10.0 | 1/4 cup cooked, drained vegetable (no stem) | 10.0 | 1 lb AP $=0.77 \mathrm{lb}$ (about 2-1/2 cups) stemmed, chopped, cooked kale |
| Kale, fresh <br> Trimmed Without stem | Pound | 48.8 | 1/4 cup raw, chopped vegetable | 2.1 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ ready-to-cook |
|  | Pound | 13.7 | 1/4 cup cooked, drained vegetable | 7.3 | 1 lb AP $=1.15 \mathrm{lb}$ (about 3-3/8 cups) cooked, drained kale |
| Kale, fresh Untrimmed | Pound | 11.8 | 1/4 cup cooked, drained vegetable | 8.5 | $1 \mathrm{lb} \mathrm{AP}=0.67 \mathrm{lb}$ ready-tocook kale |
| Kale, canned | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (98 oz) } \end{array}$ | 26.7 | 1/4 cup heated, drained vegetable | 3.8 | 1 No. 10 can = about 49.6 oz (6-2/3 cups) heated, drained kale |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (98 oz) } \end{array}$ | 40.2 | 1/4 cup drained vegetable | 2.5 | 1 No. 10 can = about 58.0 oz (10 cups) drained kale |
|  | $\begin{array}{\|l} \text { No 2-1/2 } \\ \text { can (27 oz) } \end{array}$ | 7.35 | 1/4 cup heated, drained vegetable | 13.7 | 1 No. 2-1/2 can = about $1-3 / 4$ cups heated, drained kale |
|  | $\begin{array}{\|l} \text { No 2-1/2 } \\ \text { can (27 oz) } \end{array}$ | 11.0 | 1/4 cup drained vegetable | 9.1 | 1 No. 2-1/2 can = about 15.9 oz (2-3/4 cups) drained, unheated kale |
|  | Pound | 4.35 | 1/4 cup heated, drained vegetable | 23.0 |  |
|  | Pound | 6.56 | 1/4 cup drained vegetable | 15.3 |  |
| Kale, frozen Chopped | Pound | 12.1 | 1/4 cup cooked, drained vegetable | 8.3 |  |
| Kale, frozen <br> Whole leaf | Pound | 9.50 | 1/4 cup cooked, drained vegetable | 10.6 |  |

## Section 2—Vegetables/Fruits

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | 5 Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KIWI |  |  |  |  |  |
| Kiwi, fresh 33-39 Count Whole | Pound | 8.38 | 1/4 cup peeled fruit chunks | 12.0 | 1 lb AP $=0.87 \mathrm{lb}$ (about 2 cups) ready-to-serve peeled kiwi chunks |
|  | Pound | 10.6 | $1 / 4$ cup unpeeled fruit chunks | 9.5 | 1 lb AP $=0.99 \mathrm{lb}$ (about 2-2/3 cups) ready-to-serve unpeeled kiwi chunks |
|  | Pound | 8.99 | 1/4 cup peeled fruit slices (about six 1/4-inch slices) | 11.2 | 1 lb AP $=0.85 \mathrm{lb}$ (about 2-1/4 cups) ready-to-serve peeled 1/4-inch kiwi slices |
|  | Pound | 11.6 | 1/4 cup unpeeled fruit slices (about six 1/4-inch slices) | 8.7 | 1 lb AP $=0.99 \mathrm{lb}$ (about 2-7/8 cups) ready-to-serve unpeeled $1 / 4$-inch kiwi slices |
|  | Pound | 10.8 | 1/4 cup unpeeled fruit halves (about 2 halves or $3 / 4$ of a whole kiwi) | 9.3 | 1 lb AP $=0.99 \mathrm{lb}$ ready-toserve unpeeled kiwi halves |
| KOHLRAB |  |  |  |  |  |
| Kohlrabi, fresh Untrimmed | Pound | 5.10 | 1/4 cup cooked, drained vegetable | 19.7 | $1 \mathrm{lb} \mathrm{AP}=0.45 \mathrm{lb}$ ready-tocook, pared kohlrabi |
| Kohlrabi, fresh <br> Whole <br> With leaves and stems | Pound | 9.30 | 1/4 cup raw peeled vegetable sticks | 10.8 | $1 \mathrm{lb} \mathrm{AP}=0.73 \mathrm{lb}$ ready-to-serve or -cook, pared kohlrabi |
|  | Pound | 10.1 | 1/4 cup raw vegetable chunks | 10.0 | 1 lb AP $=0.82 \mathrm{lb}$ (about 2-1/2 cups) ready-to-serve or -cook, pared kohlrabi chunks |
| LEMONS |  |  |  |  |  |
| Lemons, fresh Whole | Pound | 3.10 | 1/4 cup fruit juice | 32.3 | 1 lb AP $=0.43 \mathrm{lb}$ (about $3 / 4$ ) cup juice |
| LENTILS |  |  |  |  |  |
| Lentils, dry | Pound | 29.6 | 1/4 cup cooked lentils | 3.4 | $\begin{aligned} & 1 \mathrm{lb} \text { dry = about 2-3/8 } \\ & \text { cup dry } \end{aligned}$ |
|  | Pound | 19.7 | 3/8 cup cooked lentils | 5.1 |  |
| LETTUCE |  |  |  |  |  |
| Lettuce, fresh <br> Iceberg <br> Head <br> Untrimmed | Pound | 22.2 | 1/4 cup raw, shredded vegetable | 4.6 | 1 lb AP $=0.76 \mathrm{lb}$ (about 5-1/2 cups) ready-to-serve shredded lettuce |
|  | Pound | 20.8 | 1/4 cup raw vegetable pieces | 4.9 |  |
|  | Pound | 13.9 | 1/4 cup raw vegetable pieces with dressing | 7.2 |  |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | Purchase <br> Units <br> for 100 <br> Servings | 6 Additional |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LETTUCE (continued) |  |  |  |  |  |
| Lettuce, fresh <br> Leaf <br> Untrimmed | Pound | 21.7 | 1/4 cup raw vegetable pieces | 4.7 | 1 lb AP $=0.66 \mathrm{lb}$ ready-toserve raw lettuce |
|  | Pound | 14.5 | 1/4 cup raw vegetable pieces with dressing | 6.9 |  |
| Lettuce, fresh <br> Iceberg <br> Head <br> Cleaned and cored <br> Ready-to-use | Pound | 29.2 | 1/4 cup raw vegetable pieces | 3.5 | 1 lb AP $=1 \mathrm{lb}$ (about 7-1/3 cups) ready-to-serve raw lettuce |
| Lettuce, fresh Salad mix (mostly Iceberg, some Romaine with shredded Carrot and Red Cabbage) | Pound | 26.4 | 1/4 cup raw vegetable pieces | 3.8 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about 6-1/2 cups) ready-to-serve raw lettuce |
| Lettuce, fresh Mixed greens (equal amounts of Iceberg and Romaine with shredded Carrots and Red Cabbage) | Pound | 25.7 | 1/4 cup raw vegetable pieces | 3.9 | 1 lb AP = 1 lb (about 6-3/8 cups) ready-to-serve raw lettuce |
| Lettuce, fresh <br> Romaine <br> Untrimmed | Pound | 31.3 | 1/4 cup raw vegetable pieces | 3.2 | 1 lb AP $=0.64 \mathrm{lb}$ ready-toserve raw lettuce |
|  | Pound | 20.9 | 1/4 cup raw vegetable pieces with dressing | 4.8 |  |


| LIMES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Limes, fresh Whole | Pound | 3.50 | 1/4 cup fruit juice | 28.6 | 1 lb AP $=0.47 \mathrm{lb}$ (about 7/8 cup) juice |
| MALANGA (TARO) |  |  |  |  |  |
| Malanga (Taro), fresh Whole | Pound | 11.2 | 1/4 cup raw, peeled, diced vegetable | 9.0 | 1 lb AP $=0.89 \mathrm{lb}$ (about 2-3/4 cups) ready-to-cook, peeled, diced taro |
|  | Pound | 7.95 | 1/4 cup peeled, diced, cooked vegetable | 12.6 | 1 lb AP $=1.07 \mathrm{lb}$ (about 1-7/8 cups) cooked, peeled, diced vegetable |

Section 2—Vegetables/Fruits

| $\begin{aligned} & 1 \begin{array}{l} \text { Food As } \\ \text { Purchased, AP } \end{array} \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Servings } \\ \text { per } \\ \text { Purchase } \end{array} \\ \text { Unit, EP } \end{array}$ | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | $\begin{array}{\|c\|} \hline 5 \text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings } \end{array}$ | $6 \begin{gathered} \text { Additional } \\ \text { Information } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MANGOES |  |  |  |  |  |
| Mangoes, fresh Whole | Pound | 7.60 | 1/4 cup cubed or sliced fruit | 13.2 | $1 \mathrm{lb} \mathrm{AP}=0.69 \mathrm{lb}$ ready-toserve raw mango |

## MUSHROOMS

| Mushrooms, fresh Whole | Pound | 18.7 | 1/4 cup raw, sliced vegetable | 5.4 | $1 \mathrm{lb} \mathrm{AP}=0.98 \mathrm{lb}$ ready-tocook mushrooms |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 8.30 | 1/4 cup sliced, cooked, drained vegetable | 12.1 | 1 lb AP $=0.43 \mathrm{lb}$ cooked, sliced mushrooms |
| Mushrooms, fresh Slices Ready-to-use | Pound | 18.5 | 1/4 cup sliced vegetable (about 7 slices) | 5.5 | 1 lb AP $=1 \mathrm{lb}$ (about 4-5/8 cups) ready-to-serve mushrooms |
| Mushrooms, canned | No. 10 can (68 oz drained weight) | 49.4 | 1/4 cup drained vegetable | 2.1 | 1 No. 10 can = 12-1/3 cups drained mushrooms |
|  | Pound (drained weight) | 11.6 | 1/4 cup drained vegetable | 8.7 |  |
|  | No. 300 <br> can (8 oz <br> drained <br> weight) | 5.80 | 1/4 cup drained vegetable | 17.3 | 1 No. 300 can = about $1-1 / 2$ cups drained mushrooms |
| Mushrooms, frozen Slices | Pound | 12.2 | 1/4 cup tempered vegetable | 8.2 | $1 \mathrm{lb} \mathrm{AP}=0.90 \mathrm{lb}$ (about 3 cups) ready-to-serve, tempered mushrooms |
| MUSTARD GREENS |  |  |  |  |  |
| Mustard greens, fresh Trimmed Without stems | Pound | 49.2 | 1/4 cup raw vegetable pieces | 2.1 | $1 \mathrm{lb} \mathrm{AP}=0.99 \mathrm{lb}$ (about 12-1/8 cups) ready-to-serve or -cook greens |
|  | Pound | 14.1 | 1/4 cup cooked, drained vegetable | 7.1 |  |
| Mustard greens, fresh Untrimmed | Pound | 13.2 | 1/4 cup cooked, drained vegetable | 7.6 | $1 \mathrm{lb} \mathrm{AP}=0.93 \mathrm{lb}$ ready-tocook greens |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## MUSTARD GREENS (continued)

| Mustard Greens, canned | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 31.0 | 1/4 cup drained vegetable | 3.3 | 1 No. 10 can = about 61.0 oz (7-3/4 cups) drained greens |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (101 oz) } \end{array}$ | 20.3 | 1/4 cup heated, drained vegetable | 5.0 | 1 No. 10 can = about 40.1 oz (5 cups) drained greens |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (27 oz) } \end{array}$ | 11.8 | 1/4 cup drained vegetable | 8.5 | 1 No. 2-1/2 can = about 15.9 oz (2-3/4 cups) drained greens |
|  | $\begin{array}{\|l} \text { No. } 300 \text { can } \\ (14-1 / 2 ~ o z) \end{array}$ | 3.81 | 1/4 cup drained vegetable | 26.3 |  |
|  | No. 300 can (14-1/2 oz) | 2.74 | 1/4 cup heated, drained vegetable | 36.5 |  |
| Mustard Greens, frozen Chopped | Pound | 11.6 | 1/4 cup cooked, drained vegetable | 8.7 |  |
| Mustard Greens, frozen Leaf | Pound | 12.3 | 1/4 cup cooked, drained vegetable | 8.2 |  |
| NECTARINES |  |  |  |  |  |
| Nectarines, fresh All sizes | Pound | 10.7 | 1/4 cup unpeeled, diced fruit | 9.4 | $1 \mathrm{lb} \mathrm{AP}=0.88 \mathrm{lb}$ ready-toserve unpeeled, $1 / 2$-inch nectarine slices |
| Nectarines, fresh <br> Size 88-96 <br> (2-1/4 inch diameter) <br> Whole | Pound | 4.40 | 1 whole, raw nectarine (about $1 / 2$ cup fruit) | 22.8 |  |
|  | Pound | 8.80 | 1/4 cup fruit and juice (about $1 / 2$ nectarine) | 11.4 |  |
| Nectarines, fresh <br> Size 56-64 <br> (2-3/4 inch diameter) <br> Whole | Pound | 3.05 | 1 whole, raw nectarine (about $3 / 4$ cup fruit) | 32.8 |  |
|  | Pound | 9.15 | 1/4 cup fruit and juice (about $1 / 3$ nectarine) | 11.0 |  |
| NOPALES (see CACTUS) |  |  |  |  |  |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per |  |
| :--- | :--- |
| Meal Contribution | $\begin{array}{l}\text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings }\end{array}$ |

## Additional

 Information
## OKRA

| Okra, fresh Whole | Pound | 9.70 | 1/4 cup cooked, drained whole vegetable | 10.4 | $1 \mathrm{lb} \mathrm{AP}=0.87 \mathrm{lb}$ ready-tocook okra |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 9.00 | 1/4 cup cooked, drained sliced vegetable | 11.2 |  |
| Okra, canned Cut | $\begin{array}{\|l\|} \hline \text { No. } 10 \text { can } \\ \text { (99 oz) } \end{array}$ | 38.8 | 1/4 cup heated, drained vegetable | 2.6 | 1 No. 10 can = about 60.0 oz (10-1/8 cups) drained okra |
|  | Pound | 6.20 | 1/4 cup heated, drained vegetable | 16.2 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14 \mathrm{oz}) \end{aligned}$ | 4.58 | 1/4 cup heated, drained vegetable | 21.9 | 1 No. 300 can = about 7.1 oz (1-1/8 cups) drained okra |
| Okra, frozen Cut | Pound | 9.10 | 1/4 cup cooked, drained vegetable | 11.0 |  |
| Okra, frozen Whole | Pound | 11.8 | 1/4 cup cooked, drained vegetable | 8.5 |  |


| Olives, canned Green Stuffed | No. 10 can (72 oz drained weight) | 55.5 | 1/4 cup drained vegetable | 1.9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound (drained weight) | 12.3 | 1/4 cup drained vegetable | 8.2 |  |
| Olives, canned <br> Green <br> Whole <br> With pits | 1 gal (65 oz drained weight) | 60.4 | 1/4 cup whole, pitted vegetable (about 14 small olives) | 1.7 | 1 gallon = about 848 olives |
|  | Pound (drained weight) | 14.8 | 1/4 cup pitted vegetable | 6.8 |  |
| Olives, canned Green Whole Pitted | 1 gal (69 oz drained weight) | 63.9 | 1/4 cup whole vegetable (about 14 small olives) | 1.6 | 1 gallon = about 16 cups drained or 847 olives |

## Section 2—Vegetables/Fruits

| $1 \text { Food As }$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OLIVES (continued) |  |  |  |  |  |
| Olives, canned <br> Ripe <br> Pitted <br> Large <br> Whole | No. 10 can (50 oz drained weight) | 48.0 | 1/4 cup whole vegetable (about 8 large olives) | 2.1 | $\begin{aligned} & 1 \text { No. } 10 \text { can = about } 380 \\ & \text { olives } \end{aligned}$ |
|  | No. 10 can (50 oz drained weight) | 42.0 | 1/4 cup chopped vegetable | 2.4 |  |
|  | Pound (drained weight) | 15.3 | 1/4 cup whole vegetable | 6.6 |  |
|  | Pound (drained weight) | 12.9 | 1/4 cup chopped vegetable | 7.8 |  |
| Olives, canned Ripe Sliced | No. 10 can <br> (103 oz net) | 47.9 | 1/4 cup sliced vegetable | 2.1 | $\begin{aligned} & 1 \text { No. } 10 \text { can = about } \\ & 56.0 \text { oz (11-7/8 cups) } \\ & \text { drained olives } \end{aligned}$ |
| Olives, frozen Ripe 1/4-inch slices | Pound | 14.9 | 1/4 cup tempered vegetable slices | 6.8 | 1 lb AP $=0.99 \mathrm{lb}$ (about $3-2 / 3$ cups) ready-to-serve tempered olives |
| ONIONS, GREEN |  |  |  |  |  |
| Onions, Green, fresh Whole | Pound | 15.0 | 1/4 cup raw vegetable, with tops | 6.7 | 1 lb AP $=0.83 \mathrm{lb}$ ready-toserve raw onions with tops |
|  | Pound | 13.8 | 1/4 cup cooked with tops | 7.3 |  |
|  | Pound | 6.70 | 1/4 cup raw, chopped or sliced vegetable without tops | 15.0 | 1 lb AP $=0.37 \mathrm{lb}$ ready-toserve, raw onions without tops |
| ONIONS, MATURE |  |  |  |  |  |
| Onions, Mature, fresh <br> All sizes <br> Whole | Pound | 9.30 | 1/4 cup raw, chopped vegetable | 10.8 | 1 lb AP $=0.88 \mathrm{lb}$ ready-tocook or -serve raw onion |
|  | Pound | 14.2 | 1/4 cup raw, sliced vegetable | 7.1 |  |
|  | Pound | 7.90 | 1/4 cup cooked vegetable pieces | 12.7 | 1 lb AP $=0.78 \mathrm{lb}$ cooked onion |
|  | Pound | 7.10 | 1/4 cup cooked, whole vegetable | 14.1 |  |

Section 2-Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## ONIONS MATURE (continued)

| Onions, Mature, fresh <br> Yellow <br> Jumbo <br> Whole | Pound | 5.70 | 1/4 cup sliced, grilled vegetable | 17.6 | 1 lb AP $=0.65 \mathrm{lb}$ (about 1-3/8 cups) peeled, sliced, cooked onion Jumbo $=3$-inch diameter and over |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Onions, Mature, fresh <br> Diced Ready-to-use | Pound | 12.6 | 1/4 cup diced, raw vegetable | 8.0 | 1 lb AP $=1 \mathrm{lb}$ (about 3-1/8 cups) ready-to-serve or -cook raw, 1/4-inch diced onion |
| Onions, Mature, fresh <br> Sliced <br> Ready-to-use | Pound | 12.7 | 1/4 cup sliced, raw vegetable | 7.9 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ ready-to-serve or -cook onion |
| Onions, Mature, canned <br> Whole | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 26.6 | 1/4 cup heated vegetable | 3.8 | 1 No. 10 can = about 55.8 oz (6-2/3 cups) heated, drained onion |
|  | Pound | 4.90 | 1/4 cup heated, drained vegetable | 20.5 |  |
|  | 15 oz jar | 5.10 | 1/4 cup vegetable (about 5 onions) | 19.7 | $15 \mathrm{oz} \mathrm{jar}=$ about 9.0 oz (1-1/4 cups) drained or about 23 onions |
| Onions, Mature, frozen Chopped | Pound | 7.92 | 1/4 cup thawed vegetable | 12.7 | 1 lb AP $=0.80 \mathrm{lb}$ (about 1-7/8 cups) ready-to-cook thawed onion |
|  | Pound | 5.94 | 1/4 cup cooked vegetable | 16.9 | 1 lb AP $=0.67 \mathrm{lb}$ (about $1-3 / 8$ cups) cooked onion |
| Onions, Mature, dehydrated Chopped | Pound | 49.9 | 1/4 cup rehydrated, cooked vegetable | 2.1 | 1 lb dry $=$ about $4-2 / 3$ cups dehydrated onion |
|  | Pound | 18.7 | 1/4 cup uncooked, rehydrated vegetable | 5.4 |  |
| ORANGES |  |  |  |  |  |
| Oranges, fresh <br> All sizes <br> Whole <br> Includes USDA <br> Commodity | Pound | 3.50 | 1/4 cup fruit sections membrane removed, drained | 28.6 | $1 \mathrm{lb} \mathrm{AP}=0.40 \mathrm{lb}$ ready-toserve oranges |
|  | Pound | 3.60 | 1/4 cup fruit juice | 27.8 | $1 \mathrm{lb} \mathrm{AP}=0.48 \mathrm{lb}(7 / 8 \mathrm{cup})$ juice |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{array}{\|l} \hline \text { Purchase } \\ \text { Units } \\ \text { for } 100 \\ \text { Servings } \end{array}$ | 6 <br> Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ORANGES (continued) |  |  |  |  |  |
| Oranges, fresh 138 count Arizona or California Whole | Pound | 3.40 | 1 orange (about $1 / 2$ cup fruit and juice) | 29.5 |  |
|  | Pound | 6.80 | 1/4 cup fruit and juice (about $1 / 2$ orange) | 14.8 |  |
| Oranges, fresh 125 count Florida or Texas Whole | Pound | 2.90 | 1 orange (about 5/8 cup fruit and juice) | 34.5 |  |
|  | Pound | 7.02 | 1/4 cup fruit and juice (about 1/2 orange) | 14.3 | 1 lb AP = about 0.76 lb (1-3/4 cups) ready-to-serve peeled orange |
| Oranges, fresh 113 count Arizona or California Whole | Pound | 2.80 | 1 orange (about 5/8 cup fruit and juice) | 35.8 |  |
|  | Pound | 5.60 | 1/4 cup fruit and juice (about 1/2 orange) | 17.9 |  |
| Oranges, canned Mandarin | Pound | 7.30 | 1/4 cup fruit and juice | 13.7 | $1 \mathrm{lb} \mathrm{AP}=$ about 0.61 lb (about 1-1/2 cups) drained oranges |
| PAPAYA |  |  |  |  |  |
| Papaya, fresh Whole | Pound | 8.60 | 1/4 cup cubed fruit | 11.7 | $1 \mathrm{lb} \mathrm{AP}=$ about 0.67 lb ready-to-serve papaya |
|  | Pound | 5.10 | 1/4 cup mashed fruit | 19.7 |  |
| Papaya, frozen Puree | 30 oz container | 12.8 | 1/4 cup fruit puree | 7.9 | 30 oz container $=$ about $3-1 / 4$ cups thawed papaya puree |
|  | Pound | 7.21 | 1/4 cup fruit puree | 13.9 | 1 lb AP = about 1-3/4 cups thawed papaya puree |
| PARSLEY |  |  |  |  |  |
| Parsley, fresh Curly | Pound | 83.4 | 1/4 cup chopped, raw vegetable | 1.2 | $1 \mathrm{lb} \mathrm{AP}=0.92 \mathrm{lb}$ ready-toserve raw parsley |
| PARSNIPS |  |  |  |  |  |
| Parsnips, fresh Whole | Pound | 8.10 | 1/4 cup cooked, drained vegetable pieces | 12.4 | $1 \mathrm{lb} \mathrm{AP}=0.83 \mathrm{lb}$ ready-tocook parsnips |
|  | Pound | 7.20 | 1/4 cup cooked, drained, mashed vegetable | 13.9 |  |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Passion Fruit, fresh <br> Whole | Pound | 3.45 | $1 / 4$ cup juice and pulp <br> (no seeds) | 29.0 | 1 lb AP $=0.45 \mathrm{lb}$ (about <br> $1-3 / 4$ cups) ready-to-serve <br> seedless, raw passion fruit <br> juice and pulp |
| :--- | :--- | :--- | :--- | :--- | :--- |


| Serving Size per |
| :--- | :--- |
| Meal Contribution |\(\quad \begin{aligned} \& Purchase <br>

\& $$
\begin{array}{l}\text { Units } \\
\text { for 100 } \\
\text { Servings }\end{array}
$$\end{aligned}\)

## Additional

 Information
## PASSION FRUIT

PEACHES
\(\left.$$
\begin{array}{l|l|l|l|l|l}\begin{array}{l}\text { Peaches, fresh } \\
\text { Size } 88 \text { and } 84 \\
\text { (small) } \\
\text { (2-1/8 inch diameter) } \\
\text { Whole }\end{array}
$$ \& Pound \& 5.50 \& \begin{array}{l}1 whole, raw, small peach <br>
(about 3 / 8 cup fruit) <br>
1 / 4 cup fruit <br>

(about 2 / 3 peach)\end{array} \& 18.2 \& 12.2\end{array}\right]\)| Peaches, fresh |
| :--- |
| Peach <br> Size 80 <br> Whole |
| Pound |
| Pound |
| Pound |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PEACHES (continued) |  |  |  |  |  |
| Peaches, fresh <br> Size 56 <br> Whole | Pound | 2.89 | 1 whole raw peach (about $3 / 4$ cup fruit) | 34.7 | 1 lb AP $=0.96 \mathrm{lb}$ (about 2-2/3 cups) ready-to-serve unpeeled, pitted, diced peach |
|  | Pound | 8.67 | 1/4 cup fruit (about $1 / 3$ peach) | 11.6 |  |
| Peaches, canned <br> Cling <br> Diced <br> Light syrup pack Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (106 oz) } \end{array}$ | 48.6 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 12-1/8 cups fruit and juice |
|  | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (106 oz) } \end{array}$ | 35.4 | 1/4 cup drained fruit | 2.9 | 1 No. 10 can = about 79.0 oz (8-3/4 cups) drained peaches |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 13.3 | 1/4 cup fruit and juice | 7.6 | 1 No. 2-1/2 can = about $3-1 / 3$ cups peaches and juice |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 9.10 | 1/4 cup drained fruit | 11.0 | 1 No. 2-1/2 can = about 17.5 oz (2-1/4 cups) drained peaches |
|  | Pound | 7.33 | 1/4 cup fruit and juice | 13.7 | 1 lb AP = about 9.8 oz (1-1/4 cups) drained peaches |
|  | Pound | 5.34 | 1/4 cup drained fruit | 18.8 |  |
| Peaches, canned Cling or Freestone Halves Includes USDA Commodity | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (106 oz) } \end{array}$ | 47.1 | 1/4 cup fruit and juice (about 1 peach half with juice) | 2.2 | 1 No. 10 can = about 64.0 oz (8-1/8 cups) drained clings or about 60.0 oz (6-2/3 cups) drained Freestones |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 12.9 | 1/4 cup fruit and juice | 7.8 | 1 No. 2-1/2 can = about 17.0 oz (2-1/8 cups) drained clings or about 15.7 oz (2 cups) drained Freestones |
|  | $\begin{array}{\|l\|} \text { No. } 300 \\ \text { can (15 oz) } \end{array}$ | 6.36 | 1/4 cup fruit and juice | 15.8 |  |

Section 2-Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## PEACHES (continued)

| Peaches, canned <br> Cling <br> Sliced <br> Packed in light syrup <br> Includes USDA <br> Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 50.0 | 1/4 cup fruit and juice | 2.0 | $\begin{aligned} & 1 \text { No. } 10 \text { can = about } \\ & 105.0 \text { oz (12-1/2 cups) } \\ & \text { fruit and juice } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 36.1 | 1/4 cup drained fruit | 2.8 | 1 No. 10 can = about 72.0 oz ( 9 cups) drained peaches |
| Peaches, canned Cling Quarters Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 48.5 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 71.0 oz (9-7/8 cups) drained peaches |
| Peaches, canned <br> Freestone <br> Sliced <br> Includes USDA <br> Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 47.5 | 1/4 cup fruit and juice | 2.2 | 1 No. 10 can = about 60.0 oz ( $6-3 / 4$ cups) drained Freestones |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 13.0 | 1/4 cup fruit and juice | 7.7 | 1 No. 2-1/2 can = about 15.7 oz ( 2 cups) drained Freestones |
|  | $\begin{aligned} & \text { No. } 300 \\ & \text { can (16 oz) } \end{aligned}$ | 6.40 | 1/4 cup fruit and juice | 15.7 | 1 No. 300 can = about 8.1 oz (3/4 cup) drained Freestones |
| Peaches, canned Spiced Whole | Pound | 2.70 | 2 small peaches <br> (about $1 / 4$ cup pitted fruit) | 37.1 | 1 lb AP $=0.34 \mathrm{lb}$ drained, pitted peaches |
| Peaches, frozen Diced Sweetened | $\begin{aligned} & \text { No. } 12 \text { tub } \\ & \text { (136 oz) } \end{aligned}$ | 64.0 | 1/4 cup thawed fruit and juice | 1.6 | 1 No. 12 tub = about 136.0 oz ( 16 cups) thawed peaches and juice |
|  | $\begin{aligned} & \text { No. } 12 \text { tub } \\ & \text { (136 oz) } \end{aligned}$ | 47.9 | 1/4 cup thawed, drained fruit | 2.1 | 1 No. 12 tub = about 102.4 oz (12 cups) thawed, drained fruit |
|  | Pound | 7.47 | 1/4 cup thawed fruit and juice | 13.4 | 1 lb AP $=1 \mathrm{lb}$ (about $1-3 / 4$ cups) thawed fruit and juice |
|  | Pound | 5.60 | 1/4 cup thawed, drained fruit | 17.9 | $1 \mathrm{lb} \mathrm{AP}=0.72 \mathrm{lb}$ (about $1-3 / 8$ cups) thawed, drained fruit |

## Section 2—Vegetables/Fruits

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ |  | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PEACHES (continued) |  |  |  |  |  |
| Peaches, frozen <br> Sliced <br> Sweetened or <br> Unsweetened <br> Includes USDA <br> Commodity | Pound | 7.34 | 1/4 cup thawed fruit and juice | 13.7 | 1 lb AP = about $1-3 / 4$ cups thawed peaches and juice |
|  | Pound | 5.46 | 1/4 cup thawed, drained fruit | 18.4 | 1 lb AP $=0.97 \mathrm{lb}$ (about 1-1/3 cups) thawed, drained peaches |
|  | Pound | 7.10 | 1/4 cup cooked fruit | 14.1 |  |
|  | 20 lb Bag | 147.4 | 1/4 cup thawed fruit and juice | 0.68 | $20 \mathrm{lb} \mathrm{Bag}=$ about 36-7/8 cups thawed peaches and juice |
|  | 20 lb Bag | 109.3 | 1/4 cup thawed, drained fruit | 0.92 | 20 lb Bag = about 27-1/3 cups thawed, drained peaches |
|  | 20 lb bag | 142.0 | 1/4 cup cooked fruit | 0.71 |  |
| Peaches, dehydrated Halves | Pound | 12.7 | 1/4 cup dehydrated fruit | 7.9 | 1 lb AP $=$ about $3-1 / 8$ cups ready-to-serve dehydrated peach halves |
|  | Pound | 22.9 | 1/4 cup cooked fruit and juice | 4.4 |  |
| PEARS |  |  |  |  |  |
| Pears, fresh <br> All sizes <br> Whole <br> Includes USDA <br> Commodity | Pound | 7.90 | 1/4 cup raw, pared, sliced fruit | 12.7 |  |
|  | Pound | 5.70 | 1/4 cup cooked, pared, fruit halves, sugar added | 17.6 |  |
| Pears, fresh 150 count Whole | Pound | 4.10 | 1 whole, raw pear (about $1 / 2$ cup fruit) | 24.4 | $1 \mathrm{lb} \mathrm{AP}=0.92 \mathrm{lb}$ ready-tocook or -serve raw, unpared pears |
| Pears, fresh 120 count Whole | Pound | 3.30 | 1 whole, raw, medium pear (about $3 / 4$ cup fruit) | 30.4 |  |
|  | Pound | 7.10 | 1/4 cup raw, pared, cubed fruit | 14.1 | $1 \mathrm{lb} \mathrm{AP}=0.78 \mathrm{lb}$ ready-tocook or -serve raw, pared pears |
| Pears, fresh 100 count D'Anjou or Bosc or Bartlett Whole | Pound | 2.29 | 1 whole, raw pear (about 1-1/4 cups fruit and juice) | 43.7 | 1 lb AP $=0.94 \mathrm{lb}$ (about 3 cups) ready-to-cook or -serve raw, cored, wedged pear |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## PEARS (continued)

| Pears, canned Diced <br> Packed in juice or light syrup Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 47.6 | 1/4 cup fruit and juice | 2.2 | 1 No. 10 can = about 66.0 oz ( $9-1 / 2$ cups) drained pears |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 13.1 | 1/4 cup fruit and juice | 7.7 | 1 No. 2-1/2 can = about 18.4 oz (2-5/8 cups) drained pears |
|  | Pound | 7.20 | 1/4 cup fruit and juice | 13.9 | 1 lb AP $=$ about 10.2 oz (1-1/2 cups) drained pears |
| Pears, canned Halves Packed in juice or light syrup Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 52.0 | 1/4 cup fruit and juice (about 1 pear half with juice) | 2.0 | 1 No. 10 can = about 62.0 oz (7-3/4 cups) drained pears |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 14.3 | 1/4 cup fruit and juice (about 1 pear half with juice) | 7.0 | 1 No. 2-1/2 can = about 15.8 oz (2 cups) drained pears |
|  | $\begin{aligned} & \text { No. } 300 \\ & \text { can (15 oz) } \end{aligned}$ | 7.02 | 1/4 cup fruit and juice (about 1 pear half with juice) | 14.3 | 1 No. 300 can = about 7.3 oz (3/4 cup) drained pears |
| Pears, canned <br> Sliced <br> Packed in juice or <br> light syrup <br> Includes USDA <br> Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 49.7 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 12-3/8 cups pears and juice |
|  | $\begin{array}{\|l\|} \text { No } 10 \text { can } \\ (105 \mathrm{oz}) \end{array}$ | 29.5 | 1/4 cup drained fruit | 3.4 | 1 No. 10 can = about 59.6 oz ( $7-3 / 8$ cups) drained pears |
| Pears, dehydrated Regular moisture Halves | Pound | 10.7 | 1/4 cup dehydrated fruit (about 2-1/2 halves) | 9.4 | 1 lb AP = about 2-2/3 cups or 22 dehydrated pear halves |
|  | Pound | 20.3 | 1/4 cup cooked fruit and juice | 5.0 |  |

PEAS, CHINESE SNOW

| Peas, Chinese Snow, <br> frozen <br> Edible podded <br> Whole | Pound | 11.4 | $1 / 4$ cup cooked, drained <br> vegetable | 8.8 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PEAS, FIELD |  |  |  |  |  |
| Peas, Field, canned With snaps | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (111 oz) } \end{aligned}$ | 37.6 | 1/4 cup heated, drained vegetable | 2.7 | 1 No. 10 can = about 72.3 oz ( $9-3 / 8$ cups) heated, drained field peas with snaps |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (111 oz) } \end{aligned}$ | 46.3 | 1/4 cup drained vegetable | 2.2 | $\begin{aligned} & 1 \text { No. } 10 \text { can = about } \\ & 85.5 \text { oz ( } 11-1 / 2 \text { cups) } \\ & \text { drained, unheated field peas } \\ & \text { with snaps } \end{aligned}$ |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 5.12 | 1/4 cup heated, drained vegetable | 19.6 | 1 No. 300 can = about 7.95 oz (1-1/4 cups) heated, drained field peas with snaps |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 5.59 | 1/4 cup drained vegetable | 17.9 | $\begin{aligned} & 1 \text { No. } 300 \text { can = about } \\ & 8.52 \text { oz (1-3/8 cups) } \\ & \text { drained, unheated field peas } \\ & \text { with snaps } \end{aligned}$ |
| PEAS, GREEN |  |  |  |  |  |
| Peas, Green, fresh Shelled | Pound | 10.6 | 1/4 cup cooked, drained vegetable | 9.5 | 1 lb in pod $=0.38 \mathrm{lb}$ ready-to-cook peas |
| Peas, Green, canned Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 36.7 | 1/4 cup heated, drained vegetable | 2.8 | 1 No. 10 can = about 68.0 oz (9-1/8 cups) heated, drained peas |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 42.0 | 1/4 cup drained vegetable (unheated, for salads) | 2.4 | 1 No. 10 can = about 10-1/5 cups drained, unheated peas |
|  | $\text { No. } 300 \text { can }$ $(15-1 / 4 \mathrm{oz})$ | 4.95 | 1/4 cup heated, drained vegetable | 20.3 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & \text { (15-1/4 oz) } \end{aligned}$ | 5.67 | 1/4 cup drained vegetable (unheated, for salads) | 17.7 |  |
| Peas, Green, frozen Includes USDA Commodity | Pound | 9.59 | 1/4 cup cooked, drained vegetable | 10.5 | 1 lb AP $=0.98 \mathrm{lb}$ (about 2-3/8 cups) cooked, drained peas |
| Peas, Green, dry Whole | Pound | 25.6 | 1/4 cup cooked vegetable | 4.0 | 1 lb dry = about 2-1/3 cups dry peas |
| Peas, Green, dry <br> Split <br> Includes USDA <br> Commodity | Pound | 23.1 | 1/4 cup cooked vegetable | 4.4 | 1 lb dry = about 2-1/4 cups dry, split peas |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit |
| :--- | :--- | :--- |

$3 \begin{aligned} & \text { Servings } \\ & \text { per } \\ & \text { Purchase } \\ & \text { Unit, EP }\end{aligned}$
Serving Size per
Meal Contribution

1/4 cup cooked, drained vegetable


| 9.5 | $1 \mathrm{lb} \mathrm{AP}=0.96 \mathrm{lb}$ (about |
| :--- | :--- | 2-2/3 cups) cooked, drained peas

PEAS, SUGAR SNAP

| Peas, Sugar Snap, <br> frozen <br> Whole | Pound | 9.78 | $1 / 4$ cup cooked, drained <br> vegetable | 10.3 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about <br> $2-3 / 8$ cups) cooked, <br> drained peas |
| :--- | :--- | :--- | :--- | :--- | :--- |

PEAS AND CARROTS

| Peas and Carrots, canned | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 41.3 | 1/4 cup heated, drained vegetable | 2.5 | 1 No. 10 can = about 66.0 oz (11-1/2 cups) drained, unheated vegetable |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 6.30 | 1/4 cup heated, drained vegetable | 15.9 |  |
| Peas and Carrots, frozen | Pound | 10.9 | 1/4 cup cooked, drained vegetable | 9.2 |  |
| PEPPEROCINI |  |  |  |  |  |
| Pepperocini, canned Whole | 1 gal (72 oz drained weight) | 64.0 | 1/4 cup drained vegetable | 1.6 | 1 gallon container = about 207 pepperocini |
| PEPPERS, BELL |  |  |  |  |  |
| Peppers, Bell, fresh <br> Green or Red Medium or Large Whole | Pound | 9.70 | 1/4 cup chopped or diced, raw vegetable | 10.4 | 1 lb AP $=0.80 \mathrm{lb}$ ready-toserve or -cook raw pepper |
|  | Pound | 14.7 | 1/4 cup raw vegetable strips | 6.9 | 1 lb AP $=0.73 \mathrm{lb}$ cooked pepper |
|  | Pound | 9.80 | 1/4 cup cooked, drained vegetable strips | 10.3 |  |
| Peppers, Bell, frozen Green or Red Diced | Pound | 12.1 | 1/4 cup thawed vegetable | 8.3 | 1 lb AP $=1 \mathrm{lb}$ (about 3 cups) thawed peppers |
|  | Pound | 7.30 | 1/4 cup cooked, drained vegetable | 13.7 |  |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP |
| :---: | :---: | :---: |


| Serving Size per |
| :--- | :--- |
| Meal Contribution |$\quad$| Purchase |
| :---: |
| Units <br> for 100 <br> Servings |

Serving Size per
Meal Contribution

Additional Information

PEPPERS, BELL (continued)

| Peppers, Bell, <br> dehydrated <br> Diced | Pound | 99.2 | $1 / 4$ cup rehydrated, cooked <br> vegetable | 1.1 | 1 lb dry $=$ about $9-1 / 4$ cups <br> dehydrated pepper |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $1 / 4$ cup dehydrated <br> vegetable | 2.6 |  |  |  |  |

## PEPPERS, CHERRY

| Peppers, Cherry, <br> fresh <br> Whole with stem | Pound | 14.4 | $1 / 4$ cup raw vegetable <br> (about 3 peppers) | 7.0 | $1 \mathrm{lb} \mathrm{AP}=0.95 \mathrm{lb}$ (about <br> $3-1 / 2$ cups) ready-to-serve <br> or -cook raw pepper |
| :--- | :--- | :--- | :--- | :--- | :--- |

PEPPERS, GREEN CHILIES

| Peppers, Green Chilies, fresh Anaheim Whole with stem | Pound | 11.4 | 1/4 cup chopped, seeded, raw vegetable | 8.8 | 1 lb AP $=0.80 \mathrm{lb}$ (about 2-3/4 cups) ready-to-serve raw, stemmed, seeded, chopped chili pepper |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Peppers, Green Chilies, fresh Jalapeño Whole with stem | Pound | 15.6 | 1/4 cup raw vegetable (about 2 peppers) | 6.5 | 1 lb AP $=0.98 \mathrm{lb}$ (about 3-7/8 cups) ready-to-serve raw, whole peppers |
| Peppers, Green Chilies, canned Chopped | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (103 oz) } \end{aligned}$ | 51.4 | 1/4 cup heated vegetable | 2.0 | 1 No. 10 can = about 12-7/8 cups drained peppers |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (99 oz) } \end{aligned}$ | 47.1 | 1/4 cup unheated vegetable | 2.2 | 1 No. 10 can = about 11-3/4 cups peppers |
|  | Pound | 7.98 | 1/4 cup heated vegetable | 12.6 |  |
| Peppers, Green Chilies, canned Jalapeño Slices | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 46.2 | 1/4 cup drained vegetable slices | 2.0 | 1 No. 10 can = about 64.4 oz (11-1/2 cups) drained peppers |
| Peppers, Green Chilies, canned Jalapeño Whole | No. 10 can (96 oz) | 35.0 | 1/4 cup drained, whole vegetable | 2.9 | 1 No. 10 can = about 60.0 oz ( $8-3 / 4$ cups) drained peppers |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |


| Persimmons, fresh Japanese Fuyu Whole | Pound | 11.7 | 1/4 cup unpeeled, diced raw fruit | 8.6 | 1 lb AP $=0.98 \mathrm{lb}$ (about 2-7/8 cups) ready-toserve raw, 1/2-inch diced, unpeeled persimmon |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 15.7 | 1/4 cup unpeeled, raw fruit wedges | 6.4 | 1 lb AP $=0.98 \mathrm{lb}$ (about 3-7/8 cups) ready-to-serve raw, unpeeled persimmon wedges |
| PICKLES |  |  |  |  |  |
| Pickles, canned Chips | 1 Quart (about 20 oz drained weight) | 13.9 | 1/4 cup drained vegetable | 7.2 | 1 quart container $=$ about 3-1/2 cups drained or 52 pickle chips |
|  | 1 gal (about 87 oz drained weight) | 60.3 | 1/4 cup drained vegetable | 1.7 |  |
|  | Pound (drained weight) | 11.1 | 1/4 cup drained vegetable | 9.1 |  |
| Pickles, canned <br> Spears <br> Medium size <br> $4.75 \times 0.75 \mathrm{x}$ <br> 1.5-inches | 24 oz jar (about 15.4 oz drained weight) | 8.80 | 1/4 cup drained vegetable (about 1-1/4 spears) | 11.4 | 24 oz container $=$ about 2-1/4 cups chopped, drained or 11 whole pickle spears |
| Pickles, canned Whole | 1 gal (about 87 oz drained weight) | 55.2 | 1/4 cup whole vegetable (about: <br> 3-3/4 gherkins-small, 1-1/4 gherkins-large, 1 small pickle, $1 / 2$ medium pickle, 1/3 large pickle, 1/4 extra large pickle) | 1.9 | Length of pickles: <br> gherkins = 2 - 2-3/4 inch, small $=2-3 / 4-3-1 / 2$ inch, medium $=3-1 / 2-4$ inch, large $=4-4-3 / 4$ inch, extra-large $=4-3 / 4$ -5-1/4 inch |
|  | 1 gal (about 87 oz drained weight) | 84.4 | 1/8 cup length-wise sliced vegetable | 1.2 |  |
|  | 1 gal (about 87 oz drained weight) | 108.0 | 1/8 cup chopped vegetable | 1.0 |  |


| Serving Size per |
| :--- | :--- |
| Meal Contribution |\(\quad \begin{aligned} \& 5 Purchase <br>

\& Units <br>
\& for 100 <br>
\& Servings\end{aligned}\)

## Additional

 Information
## PERSIMMONS

## Section 2—Vegetables/Fruits

| Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |


| 4Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- |

## Additional <br> Information

## PIMIENTOS (PIMENTOS)

| Pimientos, canned Chopped or Diced | $\begin{array}{\|l} \hline \text { No. } 10 \text { can } \\ \text { (102 oz) } \end{array}$ | 40.7 | 1/4 cup drained vegetable | 2.5 | 1 No. 10 can = about 74.0 oz (10-1/8 cups) drained pimientos |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can } \\ & \text { (27-1/2 oz) } \end{aligned}$ | 8.39 | 1/4 cup drained vegetable | 12.0 | 1 No. 2-1/2 can = about 17.6 oz (2 cups) drained pimientos |
|  | Pound | 6.40 | 1/4 cup drained vegetable | 15.7 |  |
| Pimientos, canned Whole | $\begin{array}{\|l\|l} \hline \text { No. } 10 \text { can } \\ \text { (102 oz) } \end{array}$ | 38.5 | 1/4 cup drained, chopped vegetable | 2.6 | 1 No. 10 can = about 71.0 oz (9-3/4 cups) drained pimientos |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (28 oz) } \end{array}$ | 11.0 | 1/4 cup drained, chopped vegetable | 9.1 | 1 No. 2-1/2 can = about 20.2 oz (2-3/4 cups) drained pimientos |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (13-3 / 4 \text { oz) } \end{aligned}$ | 4.97 | 1/4 cup drained vegetable | 20.2 | 1 No. 300 can = about 9.2 oz (1-1/8 cups) drained pimientos |
|  | 7 oz can | 2.80 | 1/4 cup drained, chopped vegetable | 35.8 | 7 oz can $=$ about 5.2 oz <br> (2/3 cup) drained pimientos |
|  | Pound | 6.03 | 1/4 cup drained, chopped vegetable | 16.6 |  |
| PINEAPPLE |  |  |  |  |  |
| Pineapple, fresh Whole | Pound | 6.40 | 1/4 cup raw, cubed fruit | 15.7 | 1 lb AP $=0.54 \mathrm{lb}$ ready-toserve raw pineapple |
|  | Pound | 4.61 | 1/4 cup raw sticks (about 3 sticks, $1 / 2$-inch by 3 -inch sticks) | 21.7 | 1 lb AP $=0.57 \mathrm{lb}$ (about $1-1 / 8$ cups) ready-to-serve $1 / 2$-inch by 3 -inch pineapple sticks |
|  | Pound | 7.50 | 1/4 cup fruit and juice | 13.4 |  |

Section 2-Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| $\begin{array}{l}\text { Serving Size per } \\ \text { Meal Contribution }\end{array}$ | $\begin{array}{l}\text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings }\end{array}$ |
| :--- | :--- |

## Additional

 Information
## PINEAPPLE (continued)

| Pineapple, canned <br> Chunks <br> Packed in juice or light syrup Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 49.9 | 1/4 cup fruit and syrup | 2.1 | 1 No. 10 can = about 12-3/8 cups pineapple and juice |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 31.8 | 1/4 cup drained fruit | 3.2 | 1 No. 10 can = about 64.6 oz ( 8 cups) drained pineapple |
|  | $\begin{aligned} & \text { No. } 2 \text { can } \\ & (20 \mathrm{oz}) \end{aligned}$ | 9.40 | 1/4 cup fruit and syrup | 10.7 | 1 No. 2 can = about 12.4 oz (1-7/8 cups) drained pineapple |
|  | Pound | 7.53 | 1/4 cup fruit and juice | 13.3 |  |
| Pineapple, canned <br> Crushed <br> Packed in juice or light syrup Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 49.5 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 12-3/8 cups pineapple and juice |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 36.1 | 1/4 cup drained fruit | 2.8 | 1 No. 10 can = about 75.6 oz ( 9 cups) drained pineapple |
|  | $\begin{aligned} & \text { No. } 2 \text { can } \\ & \text { (20 oz) } \end{aligned}$ | 9.20 | 1/4 cup fruit and juice | 10.9 | 1 No. 2 can = about 13.8 oz ( 2 cups) drained pineapple |
|  | Pound | 7.56 | 1/4 cup fruit and juice | 13.3 |  |
| Pineapple, canned <br> Slices <br> Packed in juice or light syrup Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (107 oz) } \end{aligned}$ | 47.5 | 1/4 cup fruit and juice | 2.2 | 1 No. 10 can = about 62.0 oz ( $9-1 / 3$ cups or 60 slices) drained pineapple |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & (107 \mathrm{oz}) \end{aligned}$ | 37.7 | 1/4 cup drained fruit (about 1-3/4 slices) | 2.7 |  |
|  | $\begin{aligned} & \text { No. } 2 \text { can } \\ & (20 \mathrm{oz}) \end{aligned}$ | 8.87 | 1/4 cup fruit and juice | 11.3 | 1 No. 2 can = about 13.0 oz ( 2 cups) drained pineapple |
|  | $\begin{aligned} & \text { No. } 2 \text { can } \\ & (20 \mathrm{oz}) \end{aligned}$ | 7.04 | 1/4 cup drained fruit | 14.3 |  |
|  | Pound | 7.10 | 1/4 cup fruit and juice | 14.1 |  |
|  | Pound | 5.63 | 1/4 cup drained fruit | 17.8 |  |
| Pineapple, canned Tidbits Packed in juice or light syrup Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 50.1 | 1/4 cup fruit and juice | 2.0 | 1 No. 10 can = about 12 cups pineapple and juice |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 33.4 | 1/4 cup drained fruit | 3.0 | 1 No. 10 can = about 67.3 oz (8-1/4 cups) drained pineapple |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | 6 <br> Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PINEAPPLE (continued) |  |  |  |  |  |
| Pineapple, frozen Chunks | Pound | 7.30 | 1/4 cup thawed, drained fruit | 13.7 | 1 lb AP $=0.61 \mathrm{lb}$ (about $1-1 / 3$ cups) thawed, drained pineapple |
| PLANTAIN |  |  |  |  |  |
| Plantain, fresh Green | Pound | 7.50 | 1/4 cup peeled, sliced, cooked fruit | 13.4 | $1 \mathrm{lb}=0.62 \mathrm{lb}$ ready-to-cook peeled, sliced plantains |
| Plantain, fresh Ripe | Pound | 5.60 | 1/4 cup peeled, sliced, cooked fruit | 17.9 | $1 \mathrm{lb}=0.65 \mathrm{lb}$ ready-to-cook peeled, sliced plantains |
| PLUMS |  |  |  |  |  |
| Plums, fresh Italian 1.5-inch by 2-inch Whole | Pound | 9.32 | 1/4 cup quartered fruit (about 5 quarters) | 10.8 | 1 lb AP $=0.93 \mathrm{lb}$ (about 2-1/3 cups) ready-to-cook or -serve unpeeled, pitted, quartered, raw plum |
| Plums, fresh <br> Purple, Red, or Black <br> Size 45 \& 50 <br> 2-inch diameter <br> Whole | Pound | 4.99 | 1 whole, raw plum (about $1 / 2$ cup fruit and juice) | 20.1 | 1 lb AP $=0.98 \mathrm{lb}$ (about 2-2/3 cups) ready-to-cook or -serve unpeeled, pitted, raw plum |
|  | Pound | 10.7 | 1/4 cup fruit, quartered (about 2 quarters) | 9.4 |  |
| Plums, fresh Japanese or Hybrid Size 60 \& 65 Whole | Pound | 6.40 | 1 whole, raw plum (about $3 / 8$ cup fruit and juice) | 15.7 | 1 plum = about 1-1/2 inch diameter |
| Plums, canned <br> Purple or Red Halves <br> Unpeeled | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (105 oz) } \end{array}$ | 49.2 | 1/4 cup fruit and juice | 2.1 | 1 No. 10 can = about 12-1/8 cups plums and juice without pits |
| No pits Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ (105 \mathrm{oz}) \end{array}$ | 24.7 | 1/4 cup drained fruit | 4.1 | 1 No. 10 can = about 54.4 oz (6-1/8 cups) drained plums without pits |

Section 2-Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per |
| :--- | :--- |
| Meal Contribution |\(\quad \begin{aligned} \& Purchase <br>

\& Units <br>
\& for 100 <br>
\& Servings\end{aligned}\)

## Additional

 Information
## PLUMS ${ }^{8}$ (continued)

| Plums, canned <br> Purple or Red Unpeeled With pits Whole Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 48.5 | 1/4 cup pitted fruit and juice | 2.1 | 1 No. 10 can = about 12 cups plums with pits and juice |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 27.8 | 1/4 cup pitted drained fruit | 3.6 | 1 No. 10 can = about 58.2 oz ( $6-7 / 8$ cups) drained plums with pits |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can }(30 \mathrm{oz}) \end{aligned}$ | 14.5 | $1 / 4$ cup pitted fruit and juice | 6.9 | 1 No. 2-1/2 can = about 16.5 oz (2 cups) drained plums with pits |
|  | Pound | 7.32 | $1 / 4$ cup pitted fruit and juice | 13.7 | 1 lb AP $=8.8 \mathrm{oz}$ (1 cup) drained plums with pits |
|  | Pound | 4.19 | 1/4 cup pitted drained fruit | 23.9 |  |
| Plums, dehydrated (Prunes), canned With pits | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 46.0 | 1/4 cup fruit and juice (about 4 prunes with juice) | 2.2 | 1 No. 10 can = about 57.0 oz (7-1/8 cups) drained, pitted prunes |
|  | 25 oz jar | 10.6 | 1/4 cup fruit and juice | 9.5 | $25 \mathrm{oz} \mathrm{jar}=$ about 13.2 oz (1-2/3 cups) drained, pitted prunes |
|  | Pound | 6.81 | 1/4 cup fruit and juice | 14.7 |  |
| Plums, dehydrated (Prunes), canned ${ }^{8}$ Paste or Puree USDA Commodity | $\begin{aligned} & 1 \text { gal } \\ & (11 \mathrm{lb}) \end{aligned}$ | 64.0 | 1/4 cup fruit puree | 1.6 | 1 gallon ( 11 lb ) $=16$ cups dehydrated plum puree |
|  | Pound | 6.38 | 1/4 cup fruit puree | 15.7 | 1 lb AP = about 1-1/2 cups puree |
| Plums, dehydrated (Prunes) Whole | Pound | 9.60 | 1/4 cup dehydrated fruit (about 6 medium prunes) | 10.5 | 1 lb dry = about 2-3/8 cups dehydrated plums with pits |
| Regular moisture With pits | Pound | 12.9 | 1/4 cup cooked fruit and juice | 7.8 |  |
| Plums, dehydrated <br> (Prunes) <br> Whole <br> Without pits <br> USDA Commodity | Pound | 10.6 | 1/4 cup dehydrated fruit (about 6 medium prunes) | 9.5 | 1 lb dry = about $2-2 / 3$ cups dehydrated plums without pits |
|  | Pound | 14.7 | 1/4 cup cooked fruit and juice | 6.9 |  |

[^49]
## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | 4 Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| POI |  |  |  |  |  |
| Poi Undiluted | Pound | 5.67 | 1/2 cup diluted | 17.7 | add 1 cup water to each 1 lb bag undiluted poi |
|  | Pound | 2.83 | 1 cup diluted | 35.4 | 1 lb AP $=1.52 \mathrm{lb}$ (about 2-3/4 cups) diluted ready-to-serve poi |
| POMEGRANATE |  |  |  |  |  |
| Pomegranate, fresh Whole | Pound | 2.70 | 1/4 cup juice and pulp (no seeds) | 37.1 | 1 lb AP $=0.35 \mathrm{lb}$ (about 2/3 cups) ready-to-serve peeled, raw pomegranate juice and pulp without seeds |
|  | Pound | 6.34 | 1/4 cup fruit kernels | 15.8 | 1 lb AP = about $1-1 / 2$ cups pomegranate kernels |
| POTATOES |  |  |  |  |  |
| Potatoes, fresh Red <br> Whole | Pound | 9.88 | 1/4 cup diced, cooked vegetable with skin | 10.2 | 1 lb AP $=0.97 \mathrm{lb}$ (about 2-3/8 cups) cooked potato |
| Potatoes, fresh White or Russet All sizes Whole Includes USDA Commodity | Pound | 8.90 | 1/4 cup pared, cooked, diced vegetable | 11.3 | 1 lb AP $=0.74 \mathrm{lb}$ baked potato without skin |
|  | Pound | 8.40 | 1/4 cup pared, cooked, mashed vegetable | 12.0 | 1 lb AP $=0.81 \mathrm{lb}$ ready-tocook pared potato |
|  | Pound | 9.90 | 1/4 cup pared, cooked, sliced vegetable | 10.2 |  |
|  | Pound | 5.30 | 1/4 cup pared, cooked hash browns (1/4 cup vegetable) | 18.9 |  |
|  | Pound | 9.70 | 1/4 cup diced, cooked vegetable with skin | 10.3 | $1 \mathrm{lb} \mathrm{AP}=0.99 \mathrm{lb}$ (about 2-3/8 cups) cooked, unpeeled, diced potato |
| Potatoes, fresh <br> White or Russet 120 Count <br> (approx. 6 oz each) <br> Whole | Pound | 2.66 | 1 whole, baked potato (about $1 / 2$ cup vegetable) | 37.6 | 1 lb AP $=0.82 \mathrm{lb}$ (about 1-2/3 cups) baked potato with skin |
|  | Pound | 6.53 | 1/4 cup baked vegetable with skin | 15.4 |  |

Section 2-Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| POTATOES (continued) |  |  |  |  |  |
| Potatoes, fresh <br> White or Russet 100 Count (approx. 8 oz each) Whole | Pound | 2.00 | 1 whole, baked potato (about $3 / 4$ cup vegetable) | 50.0 | 1 lb AP $=0.82 \mathrm{lb}$ (about $1-2 / 3$ cups) baked potato with skin |
|  | Pound | 6.76 | 1/4 cup baked vegetable with skin | 14.8 |  |
| Potatoes, fresh <br> White or Russet 80 Count (approx. 10 oz each) Whole | Pound | 1.60 | 1 whole baked potato (about 1 cup vegetable) | 62.5 | 1 lb AP $=0.82 \mathrm{lb}$ (about $1-2 / 3$ cups) baked potato with skin |
|  | Pound | 7.01 | 1/4 cup baked vegetable with skin | 14.3 |  |
| Potatoes, canned Diced | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (102 oz) } \end{aligned}$ | 39.9 | 1/4 cup drained, unheated vegetable | 2.6 | 1 No. 10 can = about 73.7 oz (9-7/8 cups) drained, unheated potato |
| Potatoes, canned Sliced | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (102 oz) } \end{aligned}$ | 44.2 | 1/4 cup drained, unheated vegetable | 2.3 | 1 No. 10 can = about 74.6 oz (11 cups) drained, unheated potato |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz) } \end{aligned}$ | 5.73 | 1/4 cup drained, unheated vegetable | 17.5 | 1 No. 300 can = about 9.9 oz (1-3/8 cups) drained, unheated potato |
| Potatoes, canned Whole Small | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (102 oz) } \end{aligned}$ | 43.7 | 1/4 cup heated, drained vegetable | 2.3 | 1 No. 10 can = about 10-7/8 cups heated, drained potato |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (102 oz) } \end{array}$ | 43.4 | 1/4 cup drained, unheated, vegetable | 2.4 | 1 No. 10 can = about 74.0 oz (10-3/4 cups) drained, unheated potato |
|  | $\begin{aligned} & \text { No 2-1/2 } \\ & \text { can }(29 \mathrm{oz}) \end{aligned}$ | 10.9 | 1/4 cup heated, drained vegetable | 9.2 | 1 No. 2-1/2 can = about 17.7 oz (2-3/4 cups) drained potato |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz) } \end{aligned}$ | 5.90 | 1/4 cup heated, drained vegetable | 17.0 |  |
| Potatoes, frozen Diced Precooked | Pound | 10.1 | 1/4 cup tempered, unheated vegetable | 10.0 | 1 lb AP $=1 \mathrm{lb}$ (about 2-1/2 cups) tempered potato |
|  | Pound | 8.97 | 1/4 cup cooked vegetable | 11.2 | 1 lb AP $=0.83 \mathrm{lb}$ (about 2-1/8 cups) cooked potato |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |

## POTATOES (continued)

| Potatoes, frozen Shells | Pound | 11.1 | 1/4 cup baked vegetable | 9.1 | 1 lb AP $=0.90 \mathrm{lb}$ baked potato shell |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Potatoes, frozen <br> Wedges <br> USDA Commodity | Pound | 11.9 | 1/4 cup baked vegetable | 8.5 | 1 lb AP $=0.71 \mathrm{lb}$ (about 2-7/8 cups) baked potato |
|  | 5 lb pkg | 59.5 | 1/4 cup baked vegetable | 1.7 | 5 lb bag $=$ about <br> 14-7/8 cups baked potato |
| Potatoes, frozen Whole <br> Small | Pound | 10.1 | 1/4 cup cooked vegetable | 10.0 |  |
| Potatoes, dehydrated Diced Low moisture Includes USDA Commodity | Pound | 45.1 | 1/4 cup reconstituted, heated vegetable | 2.3 | 1 lb dry $=$ about $5-1 / 8$ cups dehydrated diced potatoes |
| Potatoes, dehydrated <br> Flake <br> Low moisture <br> Includes USDA <br> Commodity | Pound | 50.5 | 1/4 cup reconstituted, heated vegetable | 2.0 | 1 lb dry = about $7-1 / 2$ cups dehydrated potato flakes |
| Potatoes, dehydrated, Granules Low moisture Includes USDA Commodity | Pound | 50.5 | 1/4 cup reconstituted, heated vegetable | 2.0 | 1 lb dry = about 2-1/4 cups dehydrated potato granules |
| Potatoes, dehydrated <br> Slices <br> Low moisture <br> Includes USDA <br> Commodity | Pound | 43.5 | 1/4 cup reconstituted, heated vegetable | 2.3 | 1 lb dry = about 9-2/3 cups dehydrated potato slices |
| POTATOES, FRENCH FRIES |  |  |  |  |  |
| Potatoes, French Fries, frozen Crinkle cut | Pound | 16.2 | 1/4 cup cooked vegetable | 6.2 | $1 \mathrm{lb} \mathrm{AP}=0.92 \mathrm{lb}$ (about 4 cups) baked French fries |
| Low moisture Ovenable Includes USDA Commodity | 4 lb pkg | 64.9 | 1/4 cup cooked vegetable | 1.6 |  |

Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP |
| :---: | :---: | :---: |


| Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: |

POTATOES, FRENCH FRIES (continued)

| Potatoes, French <br> Fries, frozen <br> Crinkle cut <br> Regular moisture | Pound | 12.6 | 1/4 cup cooked vegetable | 8.0 | 1 lb AP $=0.81 \mathrm{lb}$ (about 3-1/8 cups) baked French fries |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4-1/2 lb pkg | 56.7 | 1/4 cup cooked vegetable | 1.8 |  |
| Potatoes, French Fries, frozen | Pound | 16.2 | 1/4 cup cooked vegetable | 6.2 | 1 lb AP $=0.66 \mathrm{lb}$ baked French fries (about 4 cups) |
| (1/3-inch width) | $4-1 / 2 \mathrm{lb} \mathrm{pkg}$ | 72.9 | 1/4 cup cooked vegetable | 1.4 |  |
| Potatoes, French <br> Fries, frozen <br> Shoestring <br> Straight cut <br> Low moisture | Pound | 14.2 | 1/4 cup cooked vegetable | 7.1 | $1 \mathrm{lb} \mathrm{AP}=0.59 \mathrm{lb}$ (about 3-1/2 cups) baked French fries |
|  | 4-1/2 lb pkg | 63.9 | 1/4 cup cooked vegetable | 1.6 |  |
| Potatoes, French <br> Fries, frozen <br> Shoestring <br> Straight cut <br> Regular moisture | Pound | 17.5 | 1/4 cup cooked vegetable | 5.8 |  |
|  | $4-1 / 2 \mathrm{lb} \mathrm{pkg}$ | 79.0 | 1/4 cup cooked vegetable | 1.3 |  |
| Potatoes, French <br> Fries, frozen <br> Straight cut <br> Regular moisture Ovenable | Pound | 14.0 | 1/4 cup cooked vegetable | 7.2 | $1 \mathrm{lb} \mathrm{AP}=0.63 \mathrm{lb}$ (about 3-1/2 cups) baked French fries |
|  | 5 lb pkg | 70.0 | 1/4 cup cooked vegetable | 1.5 | 5 lb bag $=$ about 17-1/2 cups baked French fries |
| POTATO PRODUCTS |  |  |  |  |  |
| Potato Products, fresh <br> Raw <br> Shredded <br> Pre-portioned <br> 3.0 oz each | Pound | 5.33 | 3/8 cup cooked vegetable (about 1 portion) | 18.8 | 1 lb AP $=0.94 \mathrm{lb}$ cooked vegetable |
|  | Pound | 8.28 | 1/4 cup cooked vegetable (about $2 / 3$ portion) | 12.1 |  |
|  | Pound | 10.6 | 1/8 cup cooked vegetable (about $1 / 2$ portion) | 9.5 |  |
| Potato Products, frozen <br> Hashed patty Pre-browned 2.25 oz each | Pound | 7.11 | 1 cooked patty (about <br> 1/4 cup cooked vegetable) | 14.1 |  |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## POTATO PRODUCTS ${ }^{9}$ (continued)

| Potato Products, frozen Hashed browns Diced | Pound | 7.70 | 1/4 cup cooked vegetable | 13.0 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Potato Products, frozen Mashed | Pound | 7.37 | 1/4 cup heated vegetable | 13.6 | 1 lb AP $=1 \mathrm{lb}$ (about $1-3 / 4$ cups) mashed potatoes |
| Potato Products, frozen <br> Skins or Pieces or Wedges, etc. <br> With skin <br> Cooked | Pound | 10.6 | 1/4 cup heated vegetable | 9.5 |  |
| Potato Products, frozen Rounds ${ }^{9}$ Regular Size | Pound | 12.7 | 1/4 cup cooked vegetable (about 4 pieces) | 7.9 | 5 lb bag = about 15-1/4 cups baked potato rounds (about 8.0 grams per piece) |
| Commodity | 5 lb pkg | 61.0 | 1/4 cup baked vegetable (about 4 pieces) | 1.7 | one piece = approx. $3 / 4$ to1-inch diameter by 1 to1-1/4-inch length |
| Potato Products, frozen <br> Rounds ${ }^{9}$ <br> Mini Size | Pound | 12.2 | 1/4 cup baked vegetable (about 8 pieces) | 8.2 | 1 lb AP $=0.85 \mathrm{lb}$ (about 3 cups) baked potato rounds (about 4.0 grams per piece) |
| Potato Products, frozen Circles | Pound | 12.6 | 1/4 cup baked vegetable (about 5 circles) | 8.0 | 1 lb AP $=0.75 \mathrm{lb}$ (about 3-1/8 cups) cooked (about 1-1/4-inch diameter by $9 / 16$-inch height) |
| Potato Products, dehydrated Hashed browns | Pound | 24.1 | 1/4 cup reconstituted, cooked vegetable | 4.2 | 1 lb dry $=6$ cups reconstituted, cooked potato 1 lb dry = about 4-3/4 cups dry hash browns |

## PRICKLY PEAR, (see CACTUS FRUIT)

PRUNES (see PLUMS, dehydrated)

[^50]
## Section 2—Vegetables/Fruits

| 1 Food As |
| :--- |
| Purchased, |
| PUMPKIN |


| Pumpkin, fresh Whole | Pound | 4.70 | 1/4 cup cooked, mashed vegetable | 21.3 | $1 \mathrm{lb} \mathrm{AP}=0.70 \mathrm{lb}$ ready-tocook pumpkin |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pumpkin, canned | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 51.5 | 1/4 cup heated vegetable | 2.0 |  |
|  | $\begin{aligned} & \text { No 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 14.1 | 1/4 cup heated vegetable | 7.1 |  |
|  | $\begin{aligned} & \text { No. } 300 \\ & \text { can (15 oz) } \end{aligned}$ | 7.04 | 1/4 cup heated vegetable | 14.3 | 1 No. 300 can = about 15.1 oz (1-3/4 cups) ready-to-serve or -cook pumpkin |
|  | Pound | 7.77 | 1/4 cup heated vegetable | 12.9 |  |
| RADISHES |  |  |  |  |  |
| Radishes, Fresh Without tops | Pound | 12.8 | 1/4 cup whole vegetable (about 7 small radishes) | 7.9 | 1 lb without tops $=0.94 \mathrm{lb}$ ready-to-serve raw radishes |
|  | Pound | 15.3 | 1/4 cup raw, sliced vegetable | 6.6 |  |
| RAISINS |  |  |  |  |  |
| Raisins <br> Regular moisture Seedless Includes USDA Commodity | Pound | 12.6 | 1/4 cup fruit | 8.0 | 1 lb AP $=$ about $3-1 / 8$ cups raisins |
|  | Package (1.3 oz to $1.5 \mathrm{oz})$ | 1.00 | 1/4 cup fruit | 100.0 |  |
|  | Pound | 21.4 | 1/4 cup cooked fruit | 4.7 |  |


| Raspberries, fresh <br> Whole | Pint <br> $(11-1 / 2 ~ o z)$ | 8.70 | $1 / 4$ cup raw, whole fruit | 11.5 | $1 \mathrm{pt} \mathrm{AP}=0.69 \mathrm{lb}$ (about <br> $2-1 / 8$ cups) ready-to-serve <br> raw berries |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 12.1 | $1 / 4$ cup raw, whole fruit | 8.3 | $1 \mathrm{lb} \mathrm{AP}=0.96 \mathrm{lb}$ (about <br> $3 \mathrm{cups})$ ready-to-serve raw <br> berries |
| Raspberries, canned <br> Red <br> Whole | No. 10 can <br> $(103$ oz) | 48.0 | $1 / 4$ cup fruit and juice | 2.1 | 1 No. 10 can $=53.0 \mathrm{oz}$ <br> drained berries |
| Pound | 7.45 | $1 / 4$ cup fruit and juice | 13.5 | $1 \mathrm{lb} \mathrm{AP}=$ about 8.25 oz <br> drained berries |  |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## RASPBERRIES (continued)

| Raspberries, frozen Fruit and Juice | Pound | 7.20 | 1/4 cup thawed fruit and juice | 13.9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Raspberries, frozen Red | Pound | 7.69 | 1/4 cup thawed fruit puree | 13.1 | 1 lb AP = about 1-7/8 cups thawed fruit puree |
| Includes USDA Commodity | 5 lb 120 oz container | 44.2 | 1/4 cup thawed fruit puree | 2.3 | 5 lb 12 oz container = about 11 cups thawed fruit puree |
| Raspberries, frozen <br> Red <br> Whole <br> Grade A <br> Individually-quick- <br> frozen | Pound | 12.5 | 1/4 cup thawed, drained fruit | 8.0 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about 3 cups) ready-to-serve thawed, drained berries |

RHUBARB

| Rhubarb, fresh Without leaves | Pound | 6.20 | 1/4 cup cooked fruit, sugar added | 16.2 | $1 \mathrm{lb} \mathrm{AP}=0.86 \mathrm{lb}$ ready-tocook rhubarb |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Rhubarb, frozen | Pound | 10.0 | 1/4 cup cooked fruit, sugar added | 10.0 |  |
| RUTABAGAS |  |  |  |  |  |
| Rutabagas, fresh Whole | Pound | 8.30 | 1/4 cup pared, cubed, cooked vegetable | 12.1 | $1 \mathrm{lb} \mathrm{AP}=0.85 \mathrm{lb}$ ready-tocook rutabaga |
|  | Pound | 5.70 | 1/4 cup pared, cooked, drained, mashed vegetable | 17.6 |  |
| SALSA ${ }^{10}$ |  |  |  |  |  |
| Salsa, canned Includes USDA | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 49.3 | 1/4 cup vegetable | 2.1 | 1 No. 10 can = about $12-1 / 3$ cups vegetable |

Commodity
(all vegetable ingredients plus a minor amount of spices)

| No. 10 can <br> $(106$ oz) | 49.3 | $1 / 4$ cup vegetable | 2.1 | 1 No. 10 can $=$ about <br> $12-1 / 3$ cups vegetable |
| :--- | :--- | :--- | :--- | :--- |

[^51]
## Section 2—Vegetables/Fruits

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | 2 P |
| :---: | :---: |
|  |  |


| Salsa, canned ${ }^{10}$ <br> Chunky <br> Commercial <br> (all vegetable <br> ingredients plus a <br> minor amount of <br> spices) | $\begin{array}{\|l} 1 \mathrm{gal} \\ \text { (8 lb } 10 \mathrm{oz}) \end{array}$ | 63.9 | 1/4 cup vegetable | 1.6 | 1 gallon container $=16$ cups |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Sauerkraut, canned | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (99 oz) } \end{aligned}$ | 36.5 | 1/4 cup heated, drained vegetable | 2.8 | 1 No. 10 can = about 11-7/8 cups drained, unheated vegetable |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (27 oz) } \end{aligned}$ | 15.0 | 1/4 cup heated, drained vegetable | 6.7 | $\begin{aligned} & 1 \text { No. } 2-1 / 2 \text { can = about } \\ & 23.0 \text { oz ( } 4-1 / 2 \text { cups) } \\ & \text { drained, unheated vegetable } \end{aligned}$ |
|  | No. 300 can (14-1/2 oz) | 4.93 | 1/4 cup heated, drained vegetable | 20.3 |  |
| SEAWEED |  |  |  |  |  |
| Seaweed, dehydrated Wakame | Pound | 91.0 | 1/4 cup trimmed, rehydrated vegetable | 1.1 | 1 lb dry $=4.3 \mathrm{lb}$ (about 22-2/3 cups) rehydrated ready-to-serve or -cook seaweed |
| SOUPS, CANNED |  |  |  |  |  |
| Soups, canned <br> Condensed <br> (1 part soup to <br> 1 part water) <br> Minestrone, Tomato, Tomato with other basic components such as rice, Vegetable (all vegetable), and Vegetable with other basic components such as meat or poultry | No. 3 Can 50 oz (or about 46 fl oz) | 11.5 | 1 cup reconstituted (about 1/4 cup vegetable) | 8.7 | Reconstitute 1 part soup with not more than 1 part water |
|  | Pound | 3.68 | 1 cup reconstituted (about $1 / 4$ cup vegetable) | 27.2 |  |
|  | Picnic (about 10-3/4 oz) | 2.40 | 1 cup reconstituted (about $1 / 4$ cup vegetable) | 41.7 |  |

[^52]
## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | 6Additional |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Information |  |  |  |  |  |

## SOUPS, CANNED (continued)

| Soups, canned <br> Ready-to-serve Minestrone, Tomato, Tomato with other basic components such as rice, Vegetable (all vegetable), and Vegetable with other basic components such as meat or poultry | 8 fl oz can | 1.00 | 1 cup serving <br> (about 1/4 cup vegetable) | 100.0 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Soups, canned <br> Bean Soup <br> Condensed <br> (1 part soup to <br> 1 part water) | $\text { No. } 3 \text { Cyl }$ $(54 \mathrm{oz})$ | 23.0 | 1/2 cup reconstituted <br> ( $1 / 4$ cup heated beans) | 4.4 | Reconstitute 1 part soup with not more than 1 part water |
|  | Pound | 6.80 | 1/2 cup reconstituted <br> (1/4 cup heated beans) | 14.8 |  |
| Soups, canned Bean Soup Ready-to-serve | 8 oz can | 1.00 | 1 cup serving ( $1 / 2$ cup heated beans) | 100.0 |  |
| SPINACH |  |  |  |  |  |
| Spinach, fresh Partly trimmed | Pound | 30.7 | 1/4 cup raw, chopped vegetable | 3.3 | $1 \mathrm{lb} \mathrm{AP}=0.88 \mathrm{lb}$ ready-tocook or -serve raw spinach |
|  | Pound | 20.4 | $1 / 4$ cup vegetable with dressing | 5.0 |  |
|  | Pound | 7.60 | 1/4 cup cooked, drained vegetable | 13.2 |  |
| Spinach, fresh Leaves (4-inch by 9-inch) Ready-to-use | Pound | 25.6 | 1/4 cup raw, chopped vegetable | 4.0 | 1 lb AP $=1 \mathrm{lb}$ (about 6-3/8 cups) ready-to-cook or -serve raw spinach |
|  | Pound | 12.6 | 1/4 cup wilted vegetable | 8.0 | 1 lb AP $=1.03 \mathrm{lb}$ (about $3-1 / 8$ cups) wilted (lightly steamed for one minute) spinach |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution |
| :--- | :--- | :--- | :--- | :--- |

## SPINACH (continued)

| Spinach, canned | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (98 oz) } \end{aligned}$ | 25.2 | 1/4 cup heated, drained vegetable | 4.0 | 1 No. 10 can = about 55.0 oz drained spinach |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (27 oz) } \end{aligned}$ | 6.90 | 1/4 cup heated, drained vegetable | 14.5 | 1 No. 2-1/2 can = about 17.6 oz (2-1/4 cups) drained spinach |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (13-1 / 2 \mathrm{oz}) \end{aligned}$ | 3.91 | 1/4 cup heated, drained vegetable | 25.6 | 1 No. 300 can = about 1 cup drained, unheated spinach |
|  | Pound | 4.11 | 1/4 cup heated, drained vegetable | 24.4 |  |
| Spinach, frozen Chopped | Pound | 5.60 | 1/4 cup cooked, drained vegetable | 17.9 |  |
| Spinach, frozen Leaf <br> Whole | Pound | 6.50 | 1/4 cup cooked, drained vegetable | 15.4 |  |


| Squash, Summer, <br> fresh <br> Yellow | Pound | 7.30 | $1 / 4$ cup cubed, cooked, <br> drained vegetable | 13.7 | $1 \mathrm{lb} \mathrm{AP}=0.95 \mathrm{lb}$ ready-to- <br> cook squash |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 6.30 | $1 / 4$ cup cooked, drained <br> mashed vegetable | 15.9 | $1 / 4$ cup raw, sliced <br> vegetable |
|  | Pound | 15.5 | 6.5 | $1 \mathrm{lb} \mathrm{AP}=0.98 \mathrm{lb}$ (about <br> $3-7 / 8$ cups) ready-to-serve <br> or -cook squash |  |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |


| 4Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- |

Additional Information

## SQUASH, SUMMER (continued)

| Squash, Summer, fresh <br> Zucchini <br> Whole | Pound | 11.9 | 1/4 cup raw vegetable sticks (about 3 sticks, $1 / 2$-inch by 3 -inch sticks) | 8.5 | 1 lb AP $=0.95 \mathrm{lb}$ (about 2-7/8 cups) ready-to-serve or -cook raw ( $1 / 2$-inch by 3 -inch) squash sticks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 12.7 | 1/4 cup raw, cubed vegetable | 7.9 | 1 lb AP $=0.95 \mathrm{lb}$ (about 3-1/8 cups) ready-to-cook or -serve raw $3 / 4$-inch cubed zucchini |
|  | Pound | 7.60 | 1/4 cup cubed, cooked, drained vegetable | 13.2 | 1 lb AP $=0.86 \mathrm{lb}$ cooked, 3/4-inch zucchini cubes |
|  | Pound | 13.1 | 1/4 cup raw, sliced vegetable | 7.7 | 1 lb AP $=0.96 \mathrm{lb}$ (about 3-1/4 cups) ready-to-cook or -serve raw, $1 / 4$-inch zucchini slices |
|  | Pound | 10.2 | 1/4 cup sliced, cooked, drained vegetable | 9.9 |  |
| Squash, Summer, canned Sliced | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 26.5 | 1/4 cup heated, drained vegetable | 3.8 | 1 No. 10 can = about 61.0 oz ( $8-3 / 8$ cups) drained, unheated squash |
|  | Pound | 4.03 | 1/4 cup heated, drained vegetable | 24.9 | 1 lb AP = about 9.2 oz (1-1/2 cups) drained squash |
| Squash, Summer, frozen <br> Yellow <br> Sliced | Pound | 7.90 | 1/4 cup cooked, drained vegetable | 12.7 |  |
| Squash, Summer, frozen Zucchini Sliced | Pound | 7.00 | 1/4 cup cooked, drained vegetable | 14.3 |  |


| Squash, Winter, <br> fresh <br> Acorn <br> Whole | 1 squash <br> (8 oz) | 2.00 | $1 / 2$ small squash baked <br> in skin (about $1 / 4$ cup <br> vegetable) | 50.0 | $1 \mathrm{lb} \mathrm{AP}=0.87 \mathrm{lb}$ ready-to- <br> cook squash in skin |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 4.70 | $1 / 4$ cup cooked, drained, <br> pared, mashed vegetable | 21.3 | 1 lb AP $=0.70 \mathrm{lb}$ ready-to- <br> cook pared squash |

Section 2-Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| $\begin{array}{l}\text { Serving Size per } \\ \text { Meal Contribution }\end{array}$ | $\begin{array}{l}\text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings }\end{array}$ |
| :--- | :--- |
|  |  |

## Additional

 Information
## SQUASH, WINTER (continued)

| Squash, Winter, <br> fresh <br> Butternut <br> Whole | Pound | 7.50 | $1 / 4$ cup cooked, drained, <br> pared, cubed vegetable <br> Pound | 5.40 | 13.4 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $1 / 4$ cup cooked, pared, <br> drained, mashed vegetable | 18.6 | $1 \mathrm{lb} \mathrm{AP}=0.84 \mathrm{lb}$ ready-to- <br> cook pared squash |  |  |  |
| Squash, Winter, <br> fresh <br> Hubbard <br> Whole | Pound | 4.40 | $1 / 4$ cup cooked, drained, <br> pared, cubed vegetable <br> $1 / 4$ cup cooked, drained, <br> pared, mashed vegetable | 22.8 | 23.3 |
| Pound | 4.30 | Pound | 7.00 | $1 / 4$ cup cooked vegetable | 14.3 |
| Squash, Winter, <br> frozen <br> Mashed <br> All varieties |  |  |  |  |  |

## STARFRUIT (CARAMBOLA)

| Star Fruit <br> (Carambola), fresh <br> Whole | Pound | 13.5 | $1 / 4$ cup sliced fruit | 7.5 | $1 \mathrm{lb} \mathrm{AP}=0.97 \mathrm{lb}$ (about <br> $3-7 / 8$ cups) ready-to-serve <br> $1 / 4$-inch sliced (about <br> 46 slices) or about <br> $2-7 / 8$ cups chopped <br> star fruit |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 9.50 | $1 / 4$ cup chopped fruit | 10.3 |  |

## STRAWBERRIES

| Strawberries, fresh <br> Whole | Pint <br> $(11-1 / 2$ oz) <br> Pound | 7.90 | $1 / 4$ cup raw, whole fruit | 12.7 | $1 \mathrm{pt} \mathrm{AP}=$ about 0.66 lb <br> ready-to-serve raw berries <br> 1 lb |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Strawberries, frozen $=0.88 \mathrm{lb}$ ready-to- <br> Sliced <br> Unsweetened <br> Includes USDA <br> Commodity | Pound | 7.28 | $1 / 4$ cup thawed fruit and <br> serve raw berries |  |  |
| juice | 13.8 | $1 \mathrm{lb} \mathrm{AP}=1 \mathrm{lb}$ (about <br> $1-3 / 4$ cups) ready-to-serve <br> thawed berries and juice |  |  |  |
| Strawberries, frozen <br> Sliced <br> Sweetened <br> Includes USDA <br> Commodity | Pound | 7.10 | $1 / 4$ cup thawed fruit and |  |  |
| juice |  |  |  |  |  |

## Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |


| 4Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- |

Additional Information

## STRAWBERRIES (continued)

| Strawberries, frozen <br> Whole, Grade <br> A Unsweetened <br> Individually-quick- <br> frozen <br> Includes USDA <br> Commodity | Pound | 11.9 | 1/4 cup thawed fruit | 8.5 | 1 lb AP $=1 \mathrm{lb}$ (about 2-7/8 cups) ready-to-serve, thawed berries |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Strawberries, dehydrated | Pound | 10.9 | 1/4 cup dehydrated fruit | 9.2 | 1 lb AP (dried) $=1 \mathrm{lb}$ (about 2-2/3 cups) ready-to-serve dehydrated berries |
| SUCCOTASH |  |  |  |  |  |
| Succotash, canned Corn and Green Beans | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (103 oz) } \end{aligned}$ | 34.1 | 1/4 cup heated, drained vegetable | 3.0 | 1 No. 10 can = about 65.4 oz (8-1/2 cups) heated, drained succotash |
|  | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (103 oz) } \end{array}$ | 37.8 | 1/4 cup drained vegetable (unheated for salads) | 2.7 | 1 No. 10 can = about 62.0 oz ( $9-3 / 8$ cups) drained, unheated succotash |
|  | Pound | 5.29 | 1/4 cup heated, drained vegetable | 19.0 |  |
|  | Pound | 5.87 | 1/4 cup drained vegetable (unheated for salads) | 17.1 |  |
| Succotash, canned Corn and Lima Beans | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 36.7 | 1/4 cup heated, drained vegetable | 2.8 | 1 No. 10 can = about 75.0 oz (9-1/8 cups) heated, drained succotash |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (105 oz) } \end{aligned}$ | 40.9 | 1/4 cup drained vegetable (unheated for salads) | 2.5 | 1 No. 10 can = about 71.0 oz (about 10-1/8 cups) drained, unheated succotash |
|  | Pound | 5.59 | 1/4 cup heated, drained vegetable | 17.9 |  |
|  | Pound | 6.24 | 1/4 cup drained vegetable (unheated for salads) | 16.1 |  |
| Succotash, frozen Corn and Green Beans | Pound | 8.76 | 1/4 cup cooked, drained vegetable | 11.5 | 1 lb AP $=0.95 \mathrm{lb}$ (about 2-1/8 cups) cooked, drained succotash or 2-7/8 cups thawed |
|  | Pound | 11.6 | 1/4 cup thawed vegetable (unheated for salads) | 8.7 |  |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SUCCOTASH (continued) |  |  |  |  |  |
| Succotash, frozen Corn and Lima Beans | Pound | 9.25 | 1/4 cup cooked, drained vegetable | 10.9 | 1 lb AP $=0.95 \mathrm{lb}$ (about 2-1/4 cups) cooked, drained succotash |
|  | Pound | 11.6 | 1/4 cup thawed vegetable (unheated for salads) | 8.7 | 1 lb AP $=1 \mathrm{lb}$ (about 2-7/8 cups) ready-to-serve thawed, unheated succotash |

## SWEET POTATOES

| Sweet Potatoes, fresh <br> Whole | Pound | 6.60 | 1/4 cup baked vegetable | 15.2 | 1 lb AP $=0.61 \mathrm{lb}$ baked sweet potato without skin |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 5.50 | 1/4 cup cooked, mashed vegetable | 18.2 | 1 lb AP $=0.80 \mathrm{lb}$ peeled ready-to-cook sweet potato |
|  | Pound | 9.10 | 1/4 cup cooked, sliced vegetable | 11.0 |  |
| Sweet Potatoes, canned Cut Packed in light syrup Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (108 oz) } \end{aligned}$ | 33.8 | 1/4 cup heated, drained vegetable | 3.0 | 1 No. 10 can = about 60.9 oz (8-3/8 cups) heated, drained sweet potato |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 12.2 | 1/4 cup heated, drained vegetable | 8.2 | 1 No. 2-1/2 can = about 18.0 oz (3-1/8 cups) heated, drained sweet potato |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-3 / 4 \text { oz) } \end{aligned}$ | 5.16 | 1/4 cup heated, drained vegetable | 19.4 | 1 No. 300 can = about 9.0 oz (1-1/4 cups) heated, drained sweet potato |
| Sweet Potatoes, canned <br> Mashed <br> Includes USDA <br> Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (109 oz) } \end{aligned}$ | 49.1 | 1/4 cup heated vegetable | 2.1 | 1 No. 10 can = about 12-1/4 cups heated, mashed sweet potato |

## Section 2—Vegetables/Fruits

| Food As |  |  |  |
| :--- | :--- | :--- | :--- |
| Purchased, AP | 2 Purchase | Servings <br> Unit | per <br> Purchase <br> Unit, EP |


| Serving Size per | Purchase |
| :--- | :--- |
| Meal Contribution | Units <br> for 100 <br> Servings |
|  |  |

Additional Information

## SWEET POTATOES (continued)

| Sweet Potatoes, canned Whole Includes USDA Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (112 oz) } \end{array}$ | 39.1 | 1/4 cup heated, drained vegetable | 2.6 | 1 No. 10 can = about 78.6 oz (9-3/4 cups) heated, drained sweet potato |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 12.3 | 1/4 cup heated, drained vegetable | 8.2 | 1 No. 2-1/2 can = about 18.0 oz (3-1/4 cups) heated, drained sweet potato |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15-3 / 4 \text { oz) } \end{aligned}$ | 5.16 | 1/4 cup heated, drained vegetable | 19.4 | 1 No. 300 can = about 9.6 oz ( $1-1 / 4$ cups) heated, drained sweet potato |
| Sweet Potatoes, frozen Mashed Includes USDA Commodity | Pound | 7.55 | 1/4 cup cooked vegetable | 13.3 | 1 lb AP $=0.99 \mathrm{lb}$ (about $1-3 / 4$ cups) cooked sweet potato |
| Sweet Potatoes, frozen Center cuts Approx. 7/8 to 1-3/8-inch thick by 1-1/4 to 1-3/4 inch diameter | Pound | 9.70 | 1/4 cup cooked vegetable | 10.4 | 1 lb AP $=0.98 \mathrm{lb}$ (about 2-3/8 cups) cooked sweet potato |
| Sweet Potatoes, frozen Center cuts Approx. 1-inch thick by 1-3/4 to 2-inch diameter | Pound | 9.25 | 1/4 cup cooked vegetable | 10.9 | 1 lb AP $=0.93 \mathrm{lb}$ (about 2-1/4 cups) cooked sweet potato |
| Sweet Potatoes, frozen <br> Random cut chunks <br> Includes USDA <br> Commodity | Pound | 9.24 | 1/4 cup cooked vegetable | 10.9 | 1 lb AP $=0.95 \mathrm{lb}$ (about 2-1/4 cups) cooked sweet potato |
| Sweet Potatoes, frozen Packed in syrup | Pound | 7.60 | 1/4 cup cooked, drained vegetable | 13.2 |  |
| Sweet Potatoes, dehydrated Flakes Low moisture | Pound | 18.5 | 1/4 cup reconstituted vegetable | 5.5 | 1 lb dry = about $3-3 / 4$ cups dehydrated sweet potato flakes |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SWISS CHARD |  |  |  |  |  |
| Swiss Chard, fresh Trimmed | Pound | 21.1 | 1/4 cup raw, chopped vegetable | 4.8 | 1 lb AP $=0.96 \mathrm{lb}$ (about 5-1/4 cups) ready-to-serve raw, chopped Swiss chard |
| Swiss Chard, fresh Untrimmed | Pound | 6.30 | 1/4 cup cooked, drained vegetable | 15.9 | $1 \mathrm{lb} \mathrm{AP}=$ about 0.92 lb ready-to-cook trimmed Swiss chard |
| TANGELOS |  |  |  |  |  |
| Tangelos, fresh Whole | Pound | 6.67 | 1/4 cup peeled fruit sections | 15.0 | 1 lb AP $=0.74 \mathrm{lb}$ (about $1-2 / 3$ cups) ready-to-serve peeled, sectioned tangelo |
| TANGERINES |  |  |  |  |  |
| Tangerines, fresh 120 count Whole | Pound | 4.00 | 1 whole, raw tangerine (about $3 / 8$ cup fruit) | 25.0 |  |
|  | Pound | 7.78 | 1/4 cup peeled fruit sections | 12.9 | 1 lb AP $=0.80 \mathrm{lb}$ (about 1-7/8 cups) ready-to-serve peeled, sectioned tangerine |
| Tangerines, canned Mandarin Oranges | Pound | 7.30 | 1/4 cup fruit and juice | 13.7 | 1 lb AP $=$ about 0.61 lb (about 1-1/2 cups) drained tangerine |

TANNIER (see YAUTIA)
TARO (see MALANGA)

| TOMATILLOS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tomatillos, fresh Whole with stem | Pound | 11.9 | 1/4 cup raw, diced vegetable | 8.5 | $1 \mathrm{lb} \mathrm{AP}=0.98 \mathrm{lb}$ (2-7/8 cups) ready-to-serve stemmed, 1/2-inch, diced tomatillo |
|  | Pound | 6.38 | 1/4 cup cooked, diced vegetable | 15.7 | 1 lb AP $=0.82 \mathrm{lb}$ (about $1-1 / 2$ cups) diced, cooked tomatillo |
| TOMATOES |  |  |  |  |  |
| Tomatoes, fresh Cherry Whole with stem | Pound | 12.1 | 1/4 cup whole vegetable (about 3 whole cherry tomatoes) | 8.3 | 1 lb AP $=0.99 \mathrm{lb}$ (about 3 cups) stemmed, whole cherry tomatoes |
|  | Pound | 10.6 | 1/4 cup vegetable halves (about 5 cherry tomato halves) | 9.5 | 1 lb AP $=0.99 \mathrm{lb}$ (about 2-2/3 cups) stemmed, halved cherry tomatoes |

## Section 2—Vegetables/Fruits

| Food As <br> Purchased, AP | 2 Purchase | Servings <br> Unit |
| :--- | :--- | :--- |
| per <br> Purchase <br> Unit, EP |  |  |

## TOMATOES (continued)

| Tomatoes, fresh Whole All sizes | Pound | 7.60 | 1/4 cup diced tomato | 13.2 | $1 \mathrm{lb} \mathrm{AP}=0.87 \mathrm{lb}$ ready-toserve raw, diced tomato |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 10.4 | 1/4 cup vegetable wedges | 9.7 | 1 lb AP $=0.98 \mathrm{lb}$ (about 2-1/2 cups) ready-to-serve 1/2-inch tomato wedges |
| Tomatoes, fresh Small or Medium approx 2-1/8-inch to 2-1/4-inch diameter Whole | Pound | 8.53 | 1/4 cup sliced vegetable (about 5 slices, $1 / 8$-inch thick) | 11.8 | $1 \mathrm{lb} \mathrm{AP}=0.87 \mathrm{lb}$ (about 2-1/8 cups) $1 / 8$-inch, sliced tomato |
| Tomatoes, fresh Large or Extra large Approx. 2-1/2-inch to 2-3/4-inch diameter Whole | Pound | 8.70 | 1/4 cup sliced vegetable (about 4 slices, $1 / 8$-inch thick) | 11.5 | 1 lb AP $=0.86 \mathrm{lb}$ sliced tomato ( $1 / 8$-inch, thick slices) |
| Tomatoes, fresh <br> Diced <br> Ready-to-use | Pound | 8.74 | 1/4 cup raw vegetable | 11.5 | 1 lb AP $=1 \mathrm{lb}$ (about 2-1/8 cups) ready-to-serve tomato |
|  | Pound | 6.67 | 1/4 cup cooked vegetable | 15.0 | 1 lb AP $=0.85 \mathrm{lb}$ (about 1-2/3 cups) cooked tomato |
| Tomatoes, canned Whole or Stewed Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (102 oz) } \end{aligned}$ | 45.5 | 1/4 cup heated vegetable and juice | 2.2 | 1 No. 10 can = about 66.0 oz drained tomato |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (102 oz) } \end{aligned}$ | 48.8 | 1/4 cup vegetable and juice | 2.1 |  |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (28 oz) } \end{aligned}$ | 12.5 | 1/4 cup heated vegetable and juice | 8.0 | 1 No. 2-1/2 can = about 18.5 oz drained tomato |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (28 oz) } \end{aligned}$ | 13.4 | 1/4 cup vegetable and juice | 7.5 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz) } \end{aligned}$ | 6.14 | 1/4 cup heated vegetable and juice | 16.3 |  |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz }) \end{aligned}$ | 6.59 | 1/4 cup vegetable and juice | 15.2 |  |
|  | Pound | 7.13 | 1/4 cup heated vegetable and juice | 14.1 |  |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TOMATOES (continued) |  |  |  |  |  |
| Tomatoes, canned Crushed | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (102 oz) } \end{aligned}$ | 46.6 | 1/4 cup heated vegetable and juice | 2.2 | 1 No. 10 can = about 12 cups tomato and juice |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (28 oz) } \end{aligned}$ | 12.7 | 1/4 cup heated vegetable and juice | 7.9 | 1 No. 2-1/2 can = about 18.5 oz drained tomato |
|  | Pound | 7.30 | 1/4 cup heated vegetable and juice | 13.7 |  |
| Tomatoes, canned <br> Diced <br> Includes USDA <br> Commodity | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (102 oz) } \end{array}$ | 49.2 | 1/4 cup heated vegetable and juice | 2.1 | 1 No. 10 can = about 12-1/4 cups heated, tomato and juice |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (28 oz) } \end{aligned}$ | 13.5 | 1/4 cup heated vegetable and juice | 7.5 | 1 No. 2-1/2 can = about 18.5 oz drained, unheated tomato |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (14-1 / 2 \text { oz) } \end{aligned}$ | 6.99 | 1/4 cup heated vegetable and juice | 14.4 |  |
|  | Pound | 7.71 | 1/4 cup heated vegetable and juice | 13.0 |  |

## TOMATO PRODUCTS

| Tomato Products, Canned Tomato Paste 24\%-28\% Natural Tomato Soluble Solids (NTSS) Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (111 oz) } \end{aligned}$ | 192.0 | 1 tablespoon paste <br> (1/4 cup vegetable) | 0.53 | 1 No. 10 can = about 12 cups tomato paste |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (30 oz) } \end{aligned}$ | 52.0 | 1 tablespoon paste (1/4 cup vegetable) | 2.0 | 1 No. 2-1/2 can = about 3-1/4 cups tomato paste |
|  | Pound | 27.6 | 1 tablespoon paste (1/4 cup vegetable) | 3.7 | 1 No. 10 can paste plus 3 cans water $=48$ cups single strength tomato juice |
|  | $\begin{aligned} & \text { Picnic } \\ & (12 \mathrm{oz}) \end{aligned}$ | 20.7 | 1 tablespoon paste (1/4 cup vegetable) | 4.9 | 12 oz can = about <br> 1-1/4 cups paste |
| Tomato Products, canned <br> Tomato Puree <br> Not less than 8\% but less than 24\% Natural Tomato Soluble Solids (NTSS) | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 96.0 | 2 tablespoons puree <br> ( $1 / 4$ cup vegetable) | 1.1 | 1 No. 10 can = 12 cups puree, 1 No. 10 can tomato puree plus one can water = 24 cups single strength tomato juice |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 26.2 | 2 tablespoons puree ( $1 / 4$ cup vegetable) | 3.9 |  |
|  | Pound | 14.4 | 2 tablespoons puree <br> (1/4 cup vegetable) | 7.0 |  |

Section 2—Vegetables/Fruits

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- | :--- |


| Serving Size per |
| :--- | :--- |
| Meal Contribution |$\quad$| Purchase |
| :--- |
| $\begin{array}{l}\text { Units } \\ \text { for 100 } \\ \text { Servings }\end{array}$ |

Ser

## Additional

 Information
## TOMATO PRODUCTS (continued)

| Tomato Products, <br> canned <br> Tomato Sauce <br> Includes USDA <br> Commodity | No. 10 can <br> (106 oz) | No. 300 <br> can (15 oz) | 6.85 | $1 / 4$ cup vegetable | 2.0 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pound | 7.65 | $1 / 4$ cup vegetable | 14.6 |  |  |
| Tomato Products, <br> canned <br> Spaghetti Sauce, <br> Meatless <br> USDA Commodity | No. 10 can <br> (106 oz) | 47.9 | $1 / 4$ cup vegetable heated vegetable | 2.1 | 13.1 |

Section 2-Vegetables/Fruits

| $\begin{aligned} & 1 \begin{array}{l} \text { Food As } \\ \text { Purchased, AP } \end{array} \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \begin{array}{c} \text { pervings } \\ \text { per } \\ \text { Purchase } \\ \text { Unit, EP } \end{array} \\ \hline \end{array}$ | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | $\begin{array}{\|c\|} \hline 5 \text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings } \end{array}$ | $6 \begin{aligned} & \text { Additional } \\ & \text { Information } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TURNIP GREENS (continued) |  |  |  |  |  |
| Turnip Greens, frozen Chopped or Whole Leaf | Pound | 9.60 | 1/4 cup cooked, drained vegetable | 10.5 |  |
| TURTLE BEANS (see BLACK BEANS) |  |  |  |  |  |

## UGLI FRUIT

| Ugli Fruit, fresh Whole | Pound | 6.33 | 1/4 cup peeled, chopped fruit | 15.8 | 1 lb AP $=0.67 \mathrm{lb}$ (about $1-1 / 2$ cups) ready-to-serve raw, peeled, chopped ugli fruit. One 32-count ugli fruit $=$ about 14.6 oz |
| :---: | :---: | :---: | :---: | :---: | :---: |
| VEGETABLES, MIXED |  |  |  |  |  |
| Vegetables, Mixed, canned <br> Seven vegetables: Carrots, Celery, Corn, Green Beans, Green Peas, Lima Beans and Potatoes Includes USDA Commodity | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (106 oz) } \end{aligned}$ | 36.1 | 1/4 cup heated, drained vegetable | 2.8 | 1 No. 10 can = about 66.5 oz ( $9-1 / 4$ cups) drained vegetable |
|  | $\begin{aligned} & \text { No. 2-1/2 } \\ & \text { can (29 oz) } \end{aligned}$ | 11.5 | 1/4 cup heated, drained vegetable | 8.7 | 1 No. 2-1/2 can = about 19.4 oz (3-3/8 cups) drained vegetable |
|  | $\begin{aligned} & \text { No. } 300 \text { can } \\ & (15 \mathrm{oz}) \end{aligned}$ | 4.64 | 1/4 cup heated, drained vegetable | 21.6 | 1 No. 300 can = about 8.6 oz (1-1/2 cup) drained, unheated vegetable |
| Vegetables, Mixed, frozen <br> Seven vegetables: Carrots, Celery, Corn, Green Beans, Green Peas, Lima Beans, and Potatoes | Pound | 8.10 | 1/4 cup cooked, drained vegetable | 12.4 |  |
| Vegetables, Mixed, frozen Broccoli and Cauliflower blend | Pound | 11.9 | 1/4 cup thawed vegetable (unheated for salads) | 8.5 | $1 \mathrm{lb} \mathrm{AP}=0.98 \mathrm{lb}$ (about 2-7/8 cups) ready-to-serve thawed, mixed vegetables for salad bar |
|  | Pound | 10.7 | 1/4 cup cooked, drained vegetable | 9.4 | 1 lb AP $=0.95 \mathrm{lb}$ (about 2-2/3 cups) cooked, drained, mixed vegetables |

## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |

## VEGETABLES, MIXED (continued)

| Vegetables, Mixed, <br> frozen <br> Broccoli, Cauliflower, <br> and Carrot Blend | Pound | 11.9 | $1 / 4$ cup thawed vegetable <br> (unheated for salads) | 8.5 | $1 \mathrm{lb} \mathrm{AP}=0.98 \mathrm{lb}$ (about <br> $2-7 / 8$ cups) ready-to-serve <br> thawed, mixed vegetables <br> for salad bar |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Vegetables, Mixed, <br> frozen <br> Carrot, Corn, and <br> Green Bean blend | Pound | 9.84 | 10.6 | $1 / 4$ cup cooked, drained <br> vegetable | 9.5 |
| $1 / 4$ cup thawed vegetable <br> (unheated for salads) | 10.2 | $1 \mathrm{lb} \mathrm{AP}=0.94 \mathrm{lb}$ (about <br> $2-2 / 3$ cups) cooked, <br> drained mixed vegetables |  |  |  |


| Water Chestnuts, canned | Pound | 6.70 | 1/4 cup drained fruit | 15.0 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WATERCRESS |  |  |  |  |  |
| Watercress, fresh | Pound | 50.5 | 1/4 cup raw vegetable sprigs or pieces | 2.0 | $1 \mathrm{lb} \mathrm{AP}=0.92 \mathrm{lb}$ ready-toserve raw watercress |
| WATERMELON ${ }^{11}$ |  |  |  |  |  |
| Watermelon, fresh ${ }^{11}$ Whole | 1 Melon (about 27 lb ) | 168.9 | 1/4 cup fruit | 0.60 |  |
|  | Pound | 6.10 | 1/4 cup diced fruit without rind | 16.4 | 1 lb AP $=0.61 \mathrm{lb}$ (about $1-1 / 2$ cups) ready-to-serve raw, 1/2-inch diced watermelon without rind |

## YAM BEAN (see JICAMA)

[^53]
## Section 2—Vegetables/Fruits

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit }\end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YAUTIA (TANNIER) |  |  |  |  |  |
| Yautia (Tannier), fresh <br> Whole | Pound | 8.84 | 1/4 cup peeled, diced, raw vegetable | 11.4 | $1 \mathrm{lb} \mathrm{AP}=0.74 \mathrm{lb}$ (about 2-1/8 cups) ready-to-serve, peeled, 1-inch, diced yautia (tannier) |
|  | Pound | 8.84 | 1/4 cup diced, cooked vegetable | 11.4 | 1 lb AP $=0.80 \mathrm{lb}$ peeled, diced, cooked yautia (tannier) (absorbs water during cooking) |
| YUCCA (CASSAVA) |  |  |  |  |  |
| Yucca, (Cassava), fresh <br> Whole | Pound | 8.01 | 1/4 cup peeled, cooked chunks | 12.5 | $1 \mathrm{lb} \mathrm{AP}=0.76 \mathrm{lb}$ peeled, cooked, 4 to 5-inch yucca chunks |

# Section 

 3
## Grains/Breads



3-1 Grains/Breads Component for the Child Nutrition Programs
3-1 Definitions
3-2 Examples of Foods That Qualify as Grains/Breads
3-3 I. Criteria for Determining Acceptable Grains/Breads
3-3 II. Steps in Determining Grains/Breads Creditability
3-7 Flow Chart for Determining Grains/Breads Creditability
3-8 III. Criteria for Determining Serving Sizes
3-13 Worksheet for Calculating Grains/Breads Contribution
3-15 ExHIbIT A
3-17 Factors Affecting Yields
3-17 Explanation of the Columns
3-18 Yield Data Table for Grains/Breads

## Grains/Breads

Grains/Breads Component for the Child Nutrition Programs

All reimbursable meals offered under the food-based menu planning approach in the National School Lunch Program (NSLP), Child and Adult Care Food Program (CACFP), and Summer Food Service Program (SFSP) must include grains/ breads food product(s). A reimbursable school breakfast in the School Breakfast Program (SBP) and a reimbursable supplement in the CACFP or an Afterschool Snack may contain a grains/breads component.

FNS meal pattern regulations establish the minimum serving size(s) of grains/ breads required for breakfasts, lunches, suppers, and supplements (snacks). Meal pattern charts for each of the Child Nutrition Programs are on pages I-7 through I-27.

Bran is the seed husk or outer coating of cereal grains such as wheat, rye, and oats. The bran can be mechanically removed from the flour or meal by sifting or bolting.
Breakfast cereal is any cereal served ready to eat (cold dry) or cooked as a menu item for breakfast and other meals, as appropriate.
Creditable grains represent all of the grains and grain components that count towards a creditable grains/breads component; they are enriched or wholegrain meal and/or flour, bran, and/or germ.
Enriched means that the product conforms to the Food and Drug Administration's standard of identity for levels of iron, thiamin, riboflavin, niacin, and folic acid. The terms "enriched," "fortified," or similar terms indicate the addition of one or more vitamins or minerals or protein to a food, unless an applicable Federal regulation requires the use of specific words or statements.

Flour is the product derived by finely grinding and bolting (sifting) wheat or other grains. Flour may be made from all grains (wheat, rye, corn, etc.).

- Grains/Breads servings designates the contribution a given serving size makes toward the grains/breads component. The term "grains/breads serving" appears in Column 4 of the yield table (except for Group H foods).
- Germ is the vitamin-rich embryo of the grain kernel. The germ can be separated before milling for use as a cereal or food supplement.
$\square$ Primary grain ingredient is the first listed grain ingredient in the ingredient statement.

Examples of Foods That Qualify as Grains/Breads

Whole-grain flour or meal is the product derived by grinding the entire grain. If a flour or meal does not contain the bran and the germ, it is not whole grain.

Foods that qualify as grains/breads in the Child Nutrition Programs are enriched or whole-grain, or are made from enriched or whole-grain meal and/or flour. Bran and germ are credited the same as enriched or whole-grain meal or flour. Such foods include, but are not limited to:

Breads that are enriched or whole-grain or made from enriched or wholegrain meal and/or flour, bran, and/or germ.
Biscuits, bagels, rolls, tortillas, muffins, or crackers made with enriched or whole-grain meal and/or flour, bran, and/or germ.
Cereal grains (cooked) such as rice, bulgur, oatmeal, corn grits, wheat, or couscous that are enriched, whole-grain, or fortified.

Ready-to-eat breakfast cereals that are enriched, whole-grain, or fortified.
Cereals or bread products that are used as an ingredient in another menu item such as crispy rice treats, oatmeal cookies, or breading on fish or poultry when the cereal or bread ingredients are enriched or whole-grain, or when the cereal is fortified.

Macaroni or noodle products (cooked) made with enriched or whole-grain flour. Program regulations for the NSLP and the SFSP allow enriched macaroni products that have been fortified with protein to be counted to meet either a grains/breads or meat/meat alternate requirement, but not as both components in the same meal.
Sweet food products such as toaster pastries, coffee cake, doughnuts, sweet rolls, cookies, cakes, or formulated grain-fruit products (authorized under Appendix A of 7 CFR Part 220) when made with whole grain, enriched or whole-grain meal and/or flour, bran, and/or germ and served, as permitted under Exhibit A. When sweet food products are permitted, no more than one sweet grains/ breads serving per day may be a dessert, and sweet snack food products should not be served as part of a supplement (snack) more than twice a week.
Pie crust when made with enriched or whole-grain meal and/or flour and served, as allowed under Exhibit A.
Non-sweet snack food products such as hard pretzels, hard bread sticks, and tortilla chips made from enriched or whole-grain meal and/or flour.
I. Criteria for

Determining
Acceptable Grains/Breads Under the Food-Based Menu Planning Approaches

## II. Determining Grains/Breads Creditability

Use the following criteria as a basis for crediting items to meet the grains/breads requirement under the food-based menu planning approaches.
A. All grains/breads items must be enriched or whole-grain, made from enriched or whole-grain meal and/or flour. If using a cereal it must be whole-grain, enriched, or fortified. Bran and germ are credited the same as enriched or whole-grain meal or flour.
B. The label must indicate that 1) the food product is enriched or wholegrain, made from enriched or whole-grain meal and/or flour, bran, and/or germ, or 2) the cereal is whole-grain, enriched, or fortified. If the food product is enriched, it must meet the Food and Drug Administration's standards of identity (21 CFR Part 136, Part 137, Part 139) for enriched bread, macaroni and noodle products, rice, or cornmeal.
C. The food product must be provided in quantities specified in the appropriate program regulations. One-quarter (1/4) of a serving is the smallest amount allowable to be credited toward the minimum quantities of grains/ breads specified in program regulations.

To review a grains/breads food product to determine if it is creditable, Child Nutrition Programs need to verify that the food product is enriched or whole-grain, or that it is made from enriched or whole-grain meal and/or flour, bran, and/or germ, or if it is a cereal, that it is whole-grain, enriched, or fortified.

The steps listed here will help determine if a food product is creditable towards the grains/breads component of a reimbursable meal. If at any point during the steps a "yes" answer is obtained, proceed to Section III, Criteria for Determining Serving Sizes. If you answer "no" to all of the steps from A to H 2 , the food product is not creditable towards the grains/ breads component of a reimbursable meal.

The following steps are summarized in the flow chart on page 3-7.
A. Is the food product labeled as "whole-grain"?

If a food product is made from whole grain, the product name on the label will usually include the word "whole" or "entire".

Some examples include: "whole wheat bread," "entire wheat bread," "whole wheat rolls," "entire wheat rolls," "whole wheat buns," "entire wheat buns," and "whole wheat macaroni products".
B. Is the food product labeled as "enriched"?

If a food product is enriched, the product name on the label will include the word "enriched."

Some examples include: "enriched bread," "enriched rolls," "enriched buns," "enriched rice," "enriched macaroni products," "enriched egg noodle products," "enriched grits," and "enriched cereal".

## or

C. Is the food product a fortified cereal? (Fortification only applies to cereals, so if the food product is not a cereal, continue on to step D).

If a cereal is fortified, the word "fortified" will be included on the product label.

## or

D. In the ingredient statement, is the primary grain ingredient labeled "enriched"?

Ingredients with standards of enrichment will include the word "enriched" in the ingredient name. The usual method of declaration for enriched grain ingredients is to list the established or usual name of the ingredient along with the word "enriched" followed by a parenthetical listing of the grain and the enrichment ingredients.

Some examples include: "enriched wheat flour (wheat flour, niacin, iron, thiamine mononitrate, riboflavin, folic acid)"; "enriched cornmeal (...)"; "enriched self-rising flour (...)"; and "enriched farina (...)".

## or

E. In the ingredient statement, is the primary grain ingredient designated as a whole grain?

A whole grain ingredient will usually include the word "whole," "entire," "cracked," "crushed," or "groats."

Some examples include: "whole wheat flour," "entire wheat flour," "cracked wheat," "crushed wheat," "buckrwheat groats," "graham flour" (which is another name for whole wheat flour), "brown rice" (which indicates that the rice retains the bran layer), "old-fashioned oatmeal" (also called "rolled oats"), "quick-cooking oats," "whole corn," and "whole cornmeal".
or
F. In the ingredient statement, does the primary grain ingredient appear to be whole grain but it is not designated as whole grain?
When the ingredient statement does not clearly indicate that the primary grain ingredient is whole grain, the Child Nutrition Program operator must obtain documentation from the manufacturer stating that the grain is whole grain prior to using the food product toward meeting meal pattern requirements.

Some examples include: "amaranth," "corn," "millet," and "quinoa".
or
G. In the ingredient statement, is the primary grain ingredient bran and/or germ?
Bran and germ are two components of grains. While not whole grains, they are nutritious portions of the grain and are, therefore, credited the same as whole-grain or enriched ingredients. Bran or germ will be listed along with the name of the grain.

Some examples include: "oat bran" and "wheat germ".
or
H1. Although the primary grain ingredient is not creditable, does the ingredient statement list other grains that are creditable?
If a food product contains grain(s) that are creditable, but a non-creditable grain ingredient is the primary grain ingredient, then documentation will be needed to determine the grams of creditable grain(s) per serving of that food product in order to be used towards meeting meal requirements.

H2. If the primary grain ingredient is not creditable, but the ingredient statement does include creditable grain(s), the Child Nutrition program operator must obtain documentation from the manufacturer. The documentation must state 1) the gram weight or percentage of all creditable grains in one defined portion, and 2) that the grain(s) counted towards the percentage given are either enriched and/or whole-grain and/or bran, and/or germ. If a grain is not creditable, it should not be included in the weight or percent given in the documentation.

> Some examples of non-creditable grain ingredients include: "bromated flour," "corn grits," "degerminated cornmeal," "degerminated (grain)," "durum flour," "farina," "flour," "plain flour," "self-rising flour," "semolina flour," "white flour," and "wheat flour".

## Instructions for Using the Grains/Breads Flow Chart

If you have answered "no" to all the above steps, the food product is not creditable towards the grains/breads component of a reimbursable meal. These items may be served as an "other foods" item and used to help round out the meal as well as contribute calories and nutrients.

Child Nutrition Programs need to verify that the food product is enriched or whole-grain, or that it is made from enriched or whole-grain meal and/or flour, bran, and/or germ, or if it is a cereal, that it is whole-grain, enriched, or fortified. By using the following flow chart along with steps A-H2 above, you can evaluate a grains/breads food product to determine if it is creditable towards the grains/ breads component of a reimbursable meal.

Once you have determined if a food product is creditable, it is important to read through Section III, Criteria for Determining Serving Sizes. This section will explain when to use Exhibit A of FCS Instruction 783.1, Rev $2^{1}$ (see pages 3-15 \& 3-16), or calculate grams of creditable grains (see pages 3-9 through $3-13$ ) to determine the portion size required to provide one grains/breads serving.


[^54]
## Flow Chart for Determining Grains/Breads Creditability



## III. Criteria for <br> Determining Serving Sizes

There are two different ways to determine the portion size required to provide one grains/breads serving: by using Exhibit A of FCS Instruction 783.1, Rev 2, or by calculating the grams of creditable grains.

## A. Determining Serving Sizes Based on Exhibit A:

One grains/breads serving for commonly available food products can be determined using Exhibit A (see pages 3-15 \& 3-16) of the FCS Grains/Breads Instruction 783.1, Rev. 2. The wide variety of prepared grains/ breads food products listed in Exhibit A are grouped based on their average grain content.
 Food types having similar concentrations of creditable grains are grouped together. Each group in Exhibit A provides the minimum serving size needed to supply one full grains/ breads serving. Use Exhibit A for products that are whole-grain, enriched, or fortified (if a cereal), or for products that have a creditable grain as the primary grain ingredient.

- The weight needed for the different groups of grains/breads food products to provide one grains/breads serving is different since different types of grains/breads food products have different concentrations of enriched or whole-grain meal and/or flour, bran, and/or germ.


## 1. Exhibit A, Groups A-G:

For the types of food products listed in Groups A-G, one grains/breads serving provides not less than 14.75 grams of enriched or whole-grain meal and/or flour, bran, and/or germ. The serving sizes (weights) given in Exhibit A, Groups A-G, may be used for grains/breads food products that are either commercially purchased or prepared on-site.
Food products that are labeled whole-grain or enriched, and food products that have a creditable grain as the primary grain ingredient should provide the minimum of 14.75 grams of creditable grains per serving (without obtaining manufacturers documentation) as long as the minimum serving sizes (weights) given in Exhibit A are met. If the product is not whole-grain or enriched, or does not have a creditable grain for the primary grain ingredient, you must obtain manufacturer's documentation showing the amount of creditable grain(s) in one portion of the product. Once documentation is obtained, calculate the serving size based on the grams of creditable grains as shown in step B.

Exhibit A, Groups A-G provides the weight needed for $1 / 4$, $1 / 2$, and $3 / 4$ of a grains/breads serving in addition to the weight needed for one grains/breads serving.

## 2. Exhibit A, Groups H \& I:

For the types of food products listed in Groups H and I of Exhibit A to count as one grains/breads serving, the weights and volumes listed therein must be met.

When items in Groups H and I are served as cooked or cold breakfast cereals (such as cooked oatmeal, cooked millet, cooked rice served with milk and sugar, or cold cereal) or cooked pasta, the weights and volumes listed in Exhibit A, groups H or I must be used as noted. For example, the serving size required for one grains/breads serving of cooked oatmeal made from dry oats is $1 / 2$ cup cooked or 25 grams dry oats.
There is an exception to the equivalency of one grains/breads serving for Group H as stated in Exhibit A. For the School Breakfast Program only, the traditional or enhanced meal patterns, grades $K-12$, and the enhanced meal pattern option for grades 7-12, by regulation, one grains/breads serving of cooked and ready-to-eat (cold dry) breakfast cereal is $3 / 4$ cup or 1 ounce. This means $3 / 4$ cup or 1 ounce (whichever is less) for cold dry cereal, or $3 / 4$ cup cooked cereal, count as one grains/breads serving. This serving size is different from the equivalency of one grains/breads serving of $1 / 2$ cup cooked given in Exhibit A, Group H.
Some of the food products in Group H, such as dry oatmeal or cornmeal, may be used as a grain ingredient in a recipe as well as a cooked cereal. When the cereal grain items listed in Group H are used as an ingredient in a recipe such as oatmeal bread or cornmeal muffins (in contrast to being used as a cooked breakfast cereal) do not use the amounts listed in Group H. In this case, one grains/breads serving should be determined using the weights given in Groups A-G of Exhibit A corresponding to the appropriate food group, or calculated using 14.75 grams of the creditable grains in one portion of the recipe.

For example, the credit for oatmeal bread made using dry oats may be determined by two ways: 1) using the serving weight in Group B of Exhibit A which contains "bread" since the food type is now "bread," or 2) using the information in " B " below to determine the serving size needed to provide 14.75 grams of creditable grains.

## B. Determining Serving Sizes Based on Creditable Grains Content:

There are several situations where the creditable grains content would be used to calculate the serving size instead of using the serving weights given in Exhibit A. Some of these situations are: 1) a product is not whole-grain, enriched, or fortified (if a cereal) and the primary grain ingredient is not a creditable grain but there are creditable grains in the product; 2) a manufacturer claims that a product can provide the minimum of 14.75 grams of creditable grains per portion using a serving size less than the weights given in Exhibit A; 3) a product is made on site and you choose to calculate the serving size based on grams of creditable grains instead of using Exhibit A; or 4) a food product does not fit into one of the groups of Exhibit A.
In the above cases, the menu planner will need to document or obtain documentation showing the weight of creditable grain(s) content of the grains/breads item. This will be easy for grains/breads items prepared on site, since the exact weight of the creditable grain(s) ingredient can be documented based on the recipe. For purchased products, the manufacturer will need to be contacted to obtain the required documentation showing the weight of creditable grain(s) per portion contained in a specific food product. Be aware that some manufacturers will not provide this information if they consider it proprietary information. If you have a situation where documentation is required, but the manufacturer cannot supply the documentation, you cannot use that product as a credited grains/breads component of a reimbursable meal.

When the exact or minimum amount of creditable grains can be documented, the grains/breads serving for any grains/breads product found in Groups A through G may be calculated using 14.75 grams of creditable grains as one grains/breads serving. For manufacturer's documentation which provides the gram weight of creditable grain(s) per portion, you will want to start your calculation at step 2 below or at step 6 of the worksheet (see page 3-13).

[^55]Steps to determine how many creditable grains/breads servings a recipe yields:

1) Divide the total grams of "creditable grains" in the recipe by the number of portions the recipe yields: (Note: $1 \mathrm{lb}=453.6$ grams). One "portion" is the amount of the food product you plan to serve; it is not necessarily equivalent to one grains/breads serving.
total grams of enriched or whole-grain meal and/or flour, bran, and/or germ in the recipe
number of portions the recipe yields
This calculation gives you the total grams of creditable grains contained in one portion of your recipe.
2) Divide the total grams of "creditable grains" in one portion by 14.75 grams: (note: 14.75 grams of creditable grains $=$ one full grains/breads serving)

Total grams of "creditable grains" in ONE portion
14.75 grams
= the number of grains/breads servings per portion
This calculation gives you the number of creditable grains/breads servings per portion of the recipe. The smallest creditable serving of the grains/breads component is $1 / 4$ serving.
3) Round down to the nearest $1 / 4$ grains $/$ breads serving. To count as one full grains/breads serving, a food product must contain no less than 14.75 grams ( 0.52 ounces) of enriched or whole-grain meal and/or flour, bran, and/or germ.

Worksheet for Calculating Grains/Breads Contribution from a Recipe for the Types of Food Products in Groups A-G, Using Grams of Creditable Grains

## Instructions:

1. On the worksheet, list each enriched or whole-grain meal and/or flour, bran, and/or germ ingredient in the recipe.
2. Fill in the quantity (cups, pounds, kilograms, ounces, grams, etc.) of each enriched or whole-grain meal and/or flour, bran, and/or germ ingredient in the recipe.
3. Convert the amount of each enriched or whole-grain meal and/or flour, bran, and/or germ ingredient in the recipe to grams. If you do not know the weight per cup of the grain you are using, here are some commonly used conversions:
Number of pounds of ingredient X 453.6 grams
Number of ounces of ingredient X 28.35 grams
Number of cups of enriched white flour X 125 grams
Number of cups of regular rolled oats X 81 grams
Number of cups of quick-cooking oats X 81 grams
Number of cups of regular cornmeal X 122 grams
Number of cups of degermed, enriched cornmeal X 138 grams
Number of cups of stone ground cornmeal X 132 grams
Number of cups of wheat bran X 58 grams
Number of cups of wheat germ X 115 grams
Number of cups of whole wheat flour X 120 grams
4. Add the grams for each grain ingredient to determine the total grams of enriched or whole-grain meal and/or flour, bran, and/or germ in the recipe.
5. Divide the total grams of creditable grains in the recipe by the number of portions in the recipe to determine the number of grams of creditable grains per portion of food product.
6. Divide the number of grams of creditable grains per portion by 14.75 grams (reference amount of enriched or whole-grain meal and/or flour, bran, and/or germ in one
 grains/breads serving).
7. Round down to the nearest $1 / 4$ grains/breads serving.

## Worksheet:

| 1. Creditable Grain <br> Ingredient | 2. Quantity | 3. Convert to <br> Grams | Grams |
| :--- | :--- | :--- | :--- |
|  |  | X | $=$ |
|  |  | X | $=$ |
|  |  | X | $=$ |
|  |  | X | $=$ |
|  |  | 4. Total <br> Grams | $=$ |

5. Total grams divided by number of portions in recipe:

Total grams
creditable grains =
from step 4
 $\qquad$ number of grams creditable
Number of portions grains per portion
per recipe
$=$ $\qquad$
6. Divide number of grams per portion (answer from step 5) by 14.75 :
$\qquad$ $=$ $\qquad$ grains/breads serving(s)

### 14.75

7. Round down to the nearest $1 / 4$ grains/breads serving.
$\qquad$ creditable grains/breads servings

## Grains/ <br> Breads Chart Introduction

The following Chart titled "Exhibit A - Grains/Breads for the Food-Based Menu Planning Alternatives in the Child Nutrition Programs" provides a general guideline for crediting prepared grains/breads items. The chart is taken from the FCS Grains/Breads Instruction 783-1, Revision 2.

Once you have determined that a food product qualifies as a grains/breads component (see pages 3-3 through 3-7), find the Group on the chart containing the name of the food product. Read the minimum serving size for that group on the right-hand side of the chart.


## FCS Instruction 783.1 Rev 2: Exhibit A GRAINS/BREADS FOR THE FOOD-BASED MENU PLANNING ALTERNATIVES IN THE CHILD NUTRITION PROGRAMS¹,2

| Group A | Minimum Serving Size for Group A |
| :---: | :---: |
| - Bread type coating <br> - Bread sticks (hard) <br> - Chow mein noodles <br> - Crackers (saltines and snack crackers) <br> - Croutons <br> - Pretzels (hard) <br> - Stuffing (dry) Note: weights apply to bread in stuffing. | 1 serving $=20 \mathrm{gm}$ or 0.7 oz <br> $3 / 4$ serving $=15 \mathrm{gm}$ or 0.5 oz <br> $1 / 2$ serving $=10 \mathrm{gm}$ or 0.4 oz <br> $1 / 4$ serving $=5 \mathrm{gm}$ or 0.2 oz |
| Group B | Minimum Serving Size for Group B |
| - Bagels <br> - Batter type coating <br> - Biscuits <br> - Breads (white, wheat, whole wheat, French, Italian) <br> - Buns (hamburger and hot dog) <br> - Crackers (graham crackers - all shapes, animal crackers) <br> - Egg roll skins <br> - English muffins <br> - Pita bread (white, wheat, whole wheat) <br> - Pizza crust <br> - Pretzels (soft) <br> - Rolls (white, wheat, whole wheat, potato) <br> - Tortillas (wheat or corn) <br> - Tortilla chips (wheat or corn) <br> - Taco shells | $\begin{aligned} & 1 \text { serving }=25 \mathrm{gm} \text { or } 0.9 \mathrm{oz} \\ & 3 / 4 \text { serving }=19 \mathrm{gm} \text { or } 0.7 \mathrm{oz} \\ & 1 / 2 \text { serving }=13 \mathrm{gm} \text { or } 0.5 \mathrm{oz} \\ & 1 / 4 \text { serving }=6 \mathrm{gm} \text { or } 0.2 \mathrm{oz} \end{aligned}$ |
| Group C | Minimum Serving Size for Group C |
| - Cookies ${ }^{3}$ (plain) <br> - Cornbread <br> - Corn muffins <br> - Croissants <br> - Pancakes <br> - Pie crust (dessert pies ${ }^{3}$, fruit turnovers ${ }^{4}$, and meat/meat alternate pies) <br> - Waffles | $\begin{aligned} & \hline 1 \text { serving }=31 \mathrm{gm} \text { or } 1.1 \mathrm{oz} \\ & 3 / 4 \text { serving }=23 \mathrm{gm} \text { or } 0.8 \mathrm{oz} \\ & 1 / 2 \text { serving }=16 \mathrm{gm} \text { or } 0.6 \mathrm{oz} \\ & 1 / 4 \text { serving }=8 \mathrm{gm} \text { or } 0.3 \mathrm{oz} \end{aligned}$ |

${ }^{1}$ The following foods are whole-grain or enriched or made with enriched or whole-grain meal and/or flour, bran, and/or germ.
${ }^{2}$ Some of the following foods, or their accompaniments may contain more sugar, salt, and/or fat than others. This should be a consideration when deciding how often to serve them.
${ }^{3}$ Allowed only for desserts under the enhanced food-based menu planning alternative specified in 7CFR Part 210.10 and supplements (snacks) served under the NSLP, SFSP, and CACFP.
${ }^{4}$ Allowed for desserts under the enhanced food-based menu planning alternative specified in 7CFR Part 210.10 and supplements (snacks) served under the NSLP, SFSP, and CACFP, and for breakfasts served under the SBP, SFSP, and CACFP.

| Group D | Minimum Serving Size for Group D |
| :---: | :---: |
| - Doughnuts ${ }^{4}$ (cake and yeast raised, unfrosted) <br> - Granola bars ${ }^{4}$ (plain) <br> - Muffins (all, except corn) <br> - Sweet rolls ${ }^{4}$ (unfrosted) <br> - Toaster pastries ${ }^{4}$ (unfrosted) | $\begin{array}{\|l\|} \hline 1 \text { serving }=50 \mathrm{gm} \text { or } 1.8 \mathrm{oz} \\ 3 / 4 \text { serving }=38 \mathrm{gm} \text { or } 1.3 \mathrm{oz} \\ 1 / 2 \text { serving }=25 \mathrm{gm} \text { or } 0.9 \mathrm{oz} \\ 1 / 4 \text { serving }=13 \mathrm{gm} \text { or } 0.5 \mathrm{oz} \end{array}$ |
| Group E | Minimum Serving Size for Group E |
| - Cookies $^{3}$ (with nuts, raisins, chocolate pieces and/or fruit purees) <br> - Doughnuts ${ }^{4}$ (cake and yeast raised, frosted or glazed) <br> - French toast <br> - Grain fruit bars ${ }^{4}$ <br> - Granola bars ${ }^{4}$ (with nuts, raisins, chocolate pieces and/or fruit) <br> - Sweet rolls ${ }^{4}$ (frosted) <br> - Toaster pastries ${ }^{4}$ (frosted) | 1 serving $=63 \mathrm{gm}$ or 2.2 oz <br> $3 / 4$ serving $=47 \mathrm{gm}$ or 1.7 oz <br> $1 / 2$ serving $=31 \mathrm{gm}$ or 1.1 oz <br> $1 / 4$ serving $=16 \mathrm{gm}$ or 0.6 oz |
| Group F | Minimum Serving Size for Group F |
| - Cake ${ }^{3}$ (plain, unfrosted) <br> - Coffee cake ${ }^{4}$ | $\begin{array}{\|l} 1 \text { serving }=75 \mathrm{gm} \text { or } 2.7 \mathrm{oz} \\ 3 / 4 \text { serving }=56 \mathrm{gm} \text { or } 2 \mathrm{oz} \\ 1 / 2 \text { serving }=38 \mathrm{gm} \text { or } 1.3 \mathrm{oz} \\ 1 / 4 \text { serving }=19 \mathrm{gm} \text { or } 0.7 \mathrm{oz} \end{array}$ |
| Group G | Minimum Serving Size for Group G |
| - Brownies ${ }^{3}$ (plain) <br> - Cake ${ }^{3}$ (all varieties, frosted) | $\begin{aligned} & 1 \text { serving }=115 \mathrm{gm} \text { or } 4 \mathrm{oz} \\ & 3 / 4 \text { serving }=86 \mathrm{gm} \text { or } 3 \mathrm{oz} \\ & 1 / 2 \text { serving }=58 \mathrm{gm} \text { or } 2 \mathrm{oz} \\ & 1 / 4 \text { serving }=29 \mathrm{gm} \text { or } 1 \mathrm{oz} \end{aligned}$ |
| Group H | Minimum Serving Size for Group H |
| - Barley <br> - Breakfast cereals (cooked) ${ }^{5,6}$ <br> - Bulgur or cracked wheat <br> - Macaroni (all shapes) <br> - Noodles (all varieties) <br> - Pasta (all shapes) <br> - Ravioli (noodle only) <br> - Rice (enriched white or brown) | 1 serving $=1 / 2$ cup cooked (or 25 gm dry) |
| Group I | Minimum Serving Size for Group I |
| 1 serving $=3 / 4$ cup or $10 z$, whichever is less | - Ready to eat breakfast cereal (cold dry) ${ }^{\text {5,6 }}$ |

${ }^{3}$ Allowed only for desserts under the enhanced food-based menu planning alternative specified in 7CFR Part 210.10 and supplements (snacks) served under the NSLP, SFSP, and CACFP.
${ }^{4}$ Allowed for desserts under the enhanced food-based menu planning alternative specified in 7CFR Part 210.10 and supplements (snacks) served under the NSLP, SFSP, and CACFP, and for breakfasts served under the SBP, SFSP, and CACFP.
${ }^{5}$ Refer to program regulations for the appropriate serving size for supplements served to children aged 1 through 5 in the NSLP; breakfasts served under the SBP; and meals served to children ages 1 through 5 and adult participants in the CACFP. Breakfast cereals are traditionally served as a breakfast menu item but may be served in meals other than breakfast.
${ }^{6}$ Cereals may be whole-grain, enriched, or fortified.

## Factors Affecting Yield

## Explanation <br> of the Columns

The data for grains/breads in the following table include yield information on common types and customary portion sizes of products that you can buy on the market. All grains/breads items - commercially baked or school baked - must meet the criteria noted on page 3-3.

The approximate weight of a serving of grains/breads is given in the table. If the weight of a serving differs from the approximate weight given, you may need to make adjustments in the amount you buy (see pages I-3 \& I-4 for information on determining in-house yield data).

Column 1 Food As Purchased, AP: In general, foods are arranged in alphabetical order. The Group letter is listed for each product. For additional information on these groups, see Exhibit A (pages 3-15 \& 3-16).

Column 2 Purchase Unit: The purchase unit for grains/breads is generally by the pound or, for cold dry cereals, a package. You can use data for one purchase unit to determine how much of the item you need for the number of people you serve.

Column 3 Servings per Purchase Unit, EP: This column shows the number of servings of a given size obtained from each purchase unit. Numbers in this column are often rounded down in order to help ensure enough food for the number of servings.

Column 4 Serving Size per Meal Contribution: The size of a serving is expressed in volume and/or weight. The number of grains/breads servings is given in parentheses for sliced bread and crackers.

Note that the minimum requirements for cereals and cereal grains are different for each program.

## School Breakfast Program (Traditional and Enhanced)

Ages 1-2: $\quad 1 / 4$ cup or $1 / 3$ oz (whichever is less) cold dry cereal or $1 / 4$ cup cooked cereal grain,

Preschool: $\quad 1 / 3$ cup or $1 / 2$ oz (whichever is less) cold dry cereal or $1 / 3$ cup cooked cereal grain,

Grades K-12: 3/4 cup or 1 ounce (whichever is less) cold dry cereal or $3 / 4$ cup cooked cereal grain,

National School Lunch Program (Traditional and Enhanced)
All levels: $\quad 1 / 2$ cup cooked cereal grain

## Afterschool Snacks

Ages 1-2: $\quad 1 / 4$ cup or $1 / 3 \mathrm{oz}$ (whichever is less) cold dry cereal or $1 / 4$ cup cooked cereal grain,

Ages 3-5: $\quad 1 / 3$ cup or $1 / 2$ oz (whichever is less) cold dry cereal or $1 / 4$ cup cooked cereal grain,

Ages 6-12: $\quad 3 / 4$ cup or 1 oz (whichever is less) cold dry cereal or $1 / 2$ cup cooked cereal grain,

Child and Adult Care Food Program

## Breakfast

Ages 1-2: $\quad 1 / 4$ cup or $1 / 3$ oz (whichever is less) cold dry cereal or $1 / 4$ cup cooked cereal grain,

Ages 3-5: $\quad 1 / 3$ cup or $1 / 2$ oz (whichever is less) cold dry cereal or $1 / 4$ cup cooked cereal grain,

Ages 6-12: $\quad 3 / 4$ cup or 1 oz (whichever is less) cold dry cereal or $1 / 2$ cup cooked cereal grain,

Adults: $\quad 1-1 / 2$ cup or 2 oz (whichever is less) cold dry cereal or 1 cup cooked cereal grain,

## Lunch and Supper

Ages 1-2 and 3-5: 1/4 cup cooked cereal grain,
Ages 6-12: $\quad 1 / 2$ cup cooked cereal grain,
Adult: $\quad 1$ cup cooked cereal grain,

## Snacks

Ages 1-2: $\quad 1 / 4$ cup or $1 / 3$ oz (whichever is less) cold dry cereal or $1 / 4$ cup cooked cereal grain,

Ages 3-5: $\quad 1 / 3$ cup or $1 / 2$ oz (whichever is less) cold dry cereal or $1 / 4$ cup cooked cereal grain,

Ages 6-12 and Adults: $\quad 3 / 4$ cup or 1 oz (whichever is less) cold dry cereal or $1 / 2$ cup cooked cereal grain,

## Summer Food Service Program

| Breakfast and Snacks | $3 / 4$ cup or 1 oz (whichever is less) <br> cold dry cereal, or $1 / 2$ cup cooked cereal <br> grain |
| :--- | :--- |
| Lunch or Supper | $1 / 2$ cup cooked cereal grain. |

Note: Dry cereals vary greatly in number of servings per pound or package. Check the cereal box for the number and/or size of servings.

Column 5 Purchase Units for 100 Servings: This column shows the number of purchase units needed for 100 servings. Numbers in this column are generally rounded up in order to help ensure enough food for the number of servings.

Column 6 Additional Yield Information: This column gives other information to help you calculate the amount of food you need to prepare meals. For example, the number of cups you will get from one pound of food as purchased is shown for many grains/breads items.

# Food Buying Guide for Child Nutrition Programs <br> Section 3 Grains/Breads 

Section 3-Grains/Breads

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | $\begin{aligned} & \text { Serving Size per } \\ & \text { Meal Contribution } \end{aligned}$ | Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BARLEY |  |  |  |  |  |
| Barley (Group H) Dry | Pound | 42.0 | 1/4 cup cooked | 2.4 | 1 lb dry = about 2-1/3 cups dry barley |
|  | Pound | 21.2 | 1/2 cup cooked | 4.8 |  |
|  | Pound | 14.1 | 3/4 cup cooked | 7.1 |  |
| BREAD ${ }^{3}$ |  |  |  |  |  |
| Bread (Group B) <br> Sliced ${ }^{3}$ <br> Fresh <br> All types - white, rye, whole wheat, raisin, quick bread, etc. | Pound | 32.0 | 1/2 grains/breads serving (1/2 slice; must weigh at least 13 g or 0.5 oz ) | 3.2 |  |
|  | Pound | 16.0 | 1 grains/breads serving (1 slice; must weigh at least 25 g or 0.9 oz ) | 6.3 |  |
| BREAD STICKS |  |  |  |  |  |
| Bread Sticks (Group A) Hard | Pound | 45.3 | 1/2 grains/breads serving (about 2 sticks; must weigh at least 10 g or 0.4 oz ) | 2.2 | 7-3/4 inches long, 3/4-inch diameter |
|  | Pound | 22.6 | 1 grains/breads serving (about 3 sticks; must weigh at least 20 g or 0.7 oz ) | 4.5 |  |
| BULGUR |  |  |  |  |  |
| $\begin{aligned} & \text { Bulgur (Group H) } \\ & \text { Dry } \end{aligned}$ | Pound | 39.2 | 1/4 cup cooked | 2.6 | 1 lb dry = about 3 cups dry bulgur |
|  | Pound | 19.6 | 1/2 cup cooked | 5.1 |  |
|  | Pound | 13.0 | 3/4 cup cooked | 7.7 |  |

[^56]
## Section 3-Grains/Breads

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP |
| :---: | :---: | :---: |


| Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | 6Additional <br> Information |
| :--- | :--- | :--- |
|  |  |  |

## CEREAL GRAINS

| Cereal Grains <br> Amaranth (Group H) Dry | Pound | 19.6 | 1/4 cup cooked | 5.1 | 1 lb dry = about 2-1/3 cups dry or 2.70 lb (about 4-5/8 cups) cooked amaranth when prepared with 2 parts water to 1 part dry amaranth |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 9.82 | 1/2 cup cooked | 10.2 |  |
|  | Pound | 6.54 | 3/4 cup cooked | 15.3 |  |
| Cereal Grains Buckwheat (Group H) Dry | Pound | 22.8 | 1/4 cup cooked | 4.4 | 1 lb dry = about 2-1/3 cups dry or 3.06 lb (about $5-2 / 3$ cups) cooked buckwheat when prepared with 2 parts water to 1 part dry buckwheat |
|  | Pound | 11.4 | 1/2 cup cooked | 8.8 |  |
|  | Pound | 7.61 | 3/4 cup cooked | 13.2 |  |
| Cereal Grains <br> Cornmeal (Group H) Dry | Pound | 50.7 | 1/4 cup cooked | 2.0 | 1 lb dry = about 3 cups dry cornmeal |
|  | Pound | 25.3 | 1/2 cup cooked | 4.0 |  |
|  | Pound | 16.9 | 3/4 cup cooked | 6.0 |  |
| Cereal Grains <br> Cornmeal (Group H) <br> Stone ground <br> Dry | Pound | 57.3 | 1/4 cup cooked | 1.8 | 1 lb dry = about $3-3 / 8$ cups dry, stone-ground cornmeal |
|  | Pound | 28.6 | 1/2 cup cooked | 3.5 |  |
|  | Pound | 19.1 | 3/4 cup cooked | 5.3 |  |
| Cereal Grains <br> Corn Grits (Group H) <br> Instant <br> Dry | Pound | 54.7 | 1/4 cup cooked | 1.9 | 1 lb dry = about 5-3/4 cups dry, instant corn grits |
|  | Pound | 27.4 | 1/2 cup cooked | 3.7 |  |
|  | Pound | 18.2 | 3/4 cup cooked | 5.5 |  |

Section 3-Grains/Breads

| Food As |  |  |
| :--- | :--- | :--- |
| Purchased, AP | 2 Purchase | Servings <br> Unit |
| per <br> Purchase <br> Unit, EP |  |  |


| Serving Size per | Purchase |
| :--- | :--- |
| Meal Contribution | $\begin{array}{l}\text { Units } \\ \text { for 100 } \\ \text { Servings }\end{array}$ |
|  |  |

CEREAL GRAINS (continued)

| Cereal Grains <br> Corn Grits (Group H) <br> Quick <br> Dry | Pound | 45.0 | $1 / 4$ cup cooked | 2.3 | 1 lb dry $=$ about 2-3/4 cups <br> dry, quick grits |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pound | 22.4 | $1 / 2$ cup cooked | 4.5 |  |  |
| Cereal Grains <br> Corn Grits (Group H) <br> Regular <br> Dry | Pound | 50.3 | $1 / 4$ cup cooked | 2.0 | 1 lb dry $=$ about 2-3/4 cups <br> dry, regular grits |
| Pound | 25.1 | $1 / 2$ cup cooked | 4.0 |  |  |
| Cereal Grains <br> Farina (Group H) <br> Instant <br> Dry | Pound | 16.7 | $3 / 4$ cup cooked | 6.0 |  |
| Cereal Grains <br> Farina (Group H) <br> Regular <br> Dry | Pound | 25.5 | $1 / 4$ cup cooked | 2.2 | 1 lb dry $=$ about 2-3/8 cups <br> dry, instant farina |
|  | Pound | 15.1 | $3 / 4$ cup cooked | 6.6 | 4.4 |

## Section 3-Grains/Breads

| 1Food As <br> Purchased, AP | Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |

## CEREAL GRAINS (continued)

| Cereal Grains Millet (Group H) Dry | Pound | 22.9 | 1/4 cup cooked | 4.4 | 1 lb dry = about 2-1/8 cups dry or 2.30 lb (about 5-5/8 cups) cooked millet when prepared with 1-1/2 parts water to 1 part dry millet |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 11.4 | 1/2 cup cooked | 8.8 |  |
|  | Pound | 7.64 | 3/4 cup cooked | 13.1 |  |
| Cereal Grains <br> Oats (Group H) <br> Rolled <br> Instant <br> Enriched <br> Dry | Pound | 46.9 | 1/4 cup cooked | 2.2 | 1 lb dry = about 5-2/3 cups dry, instant, rolled oats |
|  | Pound | 23.4 | 1/2 cup cooked | 4.3 |  |
|  | Pound | 15.6 | 3/4 cup cooked | 6.5 |  |
| Cereal Grains <br> Oats (Group H) <br> Rolled <br> Quick <br> Dry | Pound | 47.6 | 1/4 cup cooked | 2.1 | 1 lb dry = about 6-1/4 cups dry, quick, rolled oats |
|  | Pound | 23.8 | 1/2 cup cooked | 4.2 |  |
|  | Pound | 15.8 | 3/4 cup cooked | 6.4 |  |
| Cereal Grains <br> Oats (Group H) <br> Rolled <br> Regular <br> Dry <br> Includes USDA <br> Commodity | Pound | 45.4 | 1/4 cup cooked | 2.2 | 1 lb dry = about 6 cups dry, regular, rolled oats |
|  | Pound | 22.7 | 1/2 cup cooked | 4.4 |  |
|  | Pound | 15.1 | 3/4 cup cooked | 6.7 |  |
| Cereal Grains <br> Quinoa (Group H) Dry | Pound | 26.4 | 1/4 cup cooked | 3.8 | 1 lb dry = about $2-1 / 2$ cups dry or 2.51 lb ( $6-1 / 2$ cups) cooked quinoa when prepared with 2 parts water to 1 part dry quinoa |
|  | Pound | 13.2 | 1/2 cup cooked | 7.6 |  |
|  | Pound | 8.81 | 3/4 cup cooked | 11.4 |  |

Section 3-Grains/Breads

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per |  |
| :--- | :--- |
| Meal Contribution | $\begin{array}{l}\text { Purchase } \\ \text { Units } \\ \text { for 100 } \\ \text { Servings }\end{array}$ |
|  |  |


CEREAL GRAINS (continued)

| Cereal Grains Wheat Berries (Group H) Dry | Pound | 24.0 | 1/4 cup cooked | 4.2 | 1 lb dry = about $2-1 / 4$ cups dry or 2.77 lb (about 6 cups) cooked wheat berries when prepared with 3 parts water to 1 part dry wheat berries |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 12.0 | 1/2 cup cooked | 8.4 |  |
|  | Pound | 8.00 | 3/4 cup cooked | 12.5 |  |
| Cereal Grains <br> Wheat Cereal <br> (Group H) <br> Instant Dry | Pound | 49.1 | 1/4 cup cooked | 2.1 | 1 lb dry = about 4 cups dry, instant, wheat cereal |
|  | Pound | 24.5 | 1/2 cup cooked | 4.1 |  |
|  | Pound | 16.3 | 3/4 cup cooked | 6.2 |  |
| Cereal Grains <br> Wheat Cereal <br> (Group H) <br> Regular <br> Dry | Pound | 49.2 | 1/4 cup cooked | 2.1 | 1 lb dry = about 3-1/3 cups dry, regular, wheat cereal |
|  | Pound | 24.6 | 1/2 cup cooked | 4.1 |  |
|  | Pound | 16.4 | 3/4 cup cooked | 6.1 |  |
| Cereal Grains <br> Wheat, Rolled <br> (Group H) <br> Dry <br> Includes USDA <br> Commodity | Pound | 38.0 | 1/4 cup cooked | 2.7 | 1 lb dry = about 2-3/8 cups dry or 4.83 lb (about $9-1 / 2$ cups) cooked rolled wheat when prepared with 3-1/2 parts water to 1 part dry rolled wheat |
|  | Pound | 19.0 | 1/2 cup cooked | 5.3 |  |
|  | Pound | 12.6 | 3/4 cup cooked | 8.0 |  |
| CEREALS, READY-T0-EAT |  |  |  |  |  |
| Cereals, Ready-to-eat Wheat, Corn, Rice, Oats, Granola (Group I) | Single Serve Package | 1.00 | 1 grains/breads serving (3/4 cup or 1.0 oz , whichever is less) | 100.0 | Package contents vary with the cereal-flakes, biscuits, shreds, granules, etc. |
| Cereals, Ready-to-eat <br> Wheat Germ <br> (Group I) <br> Toasted <br> Dry | Pound | 13.0 | 1 grains/breads serving (about 1/4 cup dry; must weigh at least 28.35 g or 1.0 oz dry ) | 7.7 | 1 lb dry = about 3-1/4 cups dry wheat germ |

## Section 3-Grains/Breads

| 1Food As <br> Purchased, AP | 2 Purchase |
| :--- | :--- |


| Servings <br> per <br> Purchase | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Unit, EP |
| :--- | :--- | :--- |
|  |  | Servings |

6 | Additional |
| :---: |
| Information |

## CHOW MEIN NOODLES

| Chow Mein Noodles <br> (Group A) | Pound | 34.8 | $1 / 2$ grains/breads serving <br> (about $1 / 4$ cup; must weigh <br> at least 10 g or 0.4 oz) | 2.9 |
| :--- | :--- | :--- | :--- | :--- |
|  | Pound | 17.4 | 1 grains/breads serving <br> (about $1 / 2$ cup; must weigh <br> at least 20 g or 0.7 oz) | 5.8 |
| CORN CHIPS |  |  |  |  |

CORN CHIPS

| Corn Chips <br> (Group B) | Pound | 20.0 | $1 / 2$ grains/breads serving <br> (about $1 / 3$ cup; must weigh <br> at least 13 g or 0.5 oz)) | 5.0 |
| :--- | :--- | :--- | :--- | :--- |
|  | Pound | 15.0 | 1 grains/breads serving <br> (about $2 / 3$ cup; must weigh <br> at least 25 g or 0.9 oz) | 6.7 |

COUSCOUS

| Couscous (Group H) <br> Dry Pound 29.1 $1 / 4$ cup cooked 3.5 1 lb dry $=$ about 2-3/8 cups <br> dry couscous <br>  Pound 14.5 $1 / 2$ cup cooked 6.9 add $3-1 / 4$ cups water to 1 <br> lb dry couscous <br>  Pound 9.71 $3 / 4$ cup cooked 10.3 1 lb dry $=2.55 \mathrm{lb}$ (about <br> $7-1 / 4$ cups) cooked <br> couscous <br> CROUTONS      <br> Croutons (Group A) <br> Prepackaged <br> Dry Pound 44.6 $1 / 2$ grains/breads serving <br> (about $1 / 4$ cup dry; must <br> weigh at least 10 g or <br> 0.4 oz) <br> 1 grains/breads serving <br> (about $1 / 2$ cup dry; must <br> weigh at least 20 g or <br> 0.7 oz) 2.3 4.5 |
| :--- |

## Section 3-Grains/Breads

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ |  | Serving Size per Meal Contribution | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| GRAHAM CRACKERS |  |  |  |  |  |
| Graham Crackers (Group B) | Pound | 32.4 | 1/2 grains/breads serving (about 2 crackers; must weigh at least 13 g or 0.5 oz ) | 3.1 | $1 \mathrm{lb} \mathrm{AP}=$ about 64 crackers |
|  | Pound | 21.3 | 1 grains/breads serving (about 4 crackers; must weigh at least 25 g or 0.9 oz) | 4.7 |  |
| MELBA TOAST |  |  |  |  |  |
| Melba Toast <br> (Group A) | Pound | 37.8 | 1/2 grains/breads serving (about 3 pieces; must weigh at least 10 g or 0.4 oz ) | 2.7 |  |
|  | Pound | 22.2 | 1 grains/breads serving (about 5 pieces; must weigh at least 20 g or 0.7 oz ) | 4.5 |  |
| PASTA |  |  |  |  |  |
| Pasta (Group H) <br> Bowties <br> Large size <br> Dry | Pound | 25.1 | 1/4 cup cooked | 4.0 | 1 lb dry = about $7-1 / 2$ cups dry bowtie pasta |
|  | Pound | 12.5 | 1/2 cup cooked | 8.0 | 1 lb dry $=2.66 \mathrm{lb}$ (about 6-1/4 cups) cooked pasta boiled 17 minutes |
|  | Pound | 8.39 | 3/4 cup cooked | 12.0 |  |
| Pasta (Group H) <br> Elbow Macaroni <br> Regular <br> Dry | Pound | 39.0 | 1/4 cup cooked | 2.6 | 1 lb dry = about 3-1/2 cups dry elbow macaroni |
|  | Pound | 19.5 | 1/2 cup cooked | 5.2 |  |
|  | Pound | 13.0 | 3/4 cup cooked | 7.7 |  |
| Pasta (Group H) <br> Noodles <br> Egg <br> Medium <br> Dry | Pound | 40.3 | 1/4 cup cooked | 2.5 | 1 lb dry = about 11-7/8 cups dry egg noodles |
|  | Pound | 20.1 | 1/2 cup cooked | 5.0 |  |
|  | Pound | 13.4 | 3/4 cup cooked | 7.5 |  |

## Section 3-Grains/Breads

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{array}{\|l} \hline \text { Purchase } \\ \text { Units } \\ \text { for } 100 \\ \text { Servings } \end{array}$ | Information |
| :---: | :---: | :---: | :---: | :---: | :---: |

## PASTA (continued)

| Pasta (Group H) <br> Noodles <br> Lasagna <br> Dry | Pound | 28.3 | 1/4 cup cooked | 3.6 | 1 lb dry = about 21 pieces dry lasagna noodles |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 14.1 | 1/2 cup cooked | 7.1 | 1 lb dry $=2.66 \mathrm{lb}$ (about 7 cups) cooked pasta boiled 15 minutes |
|  | Pound | 9.46 | 3/4 cup cooked | 10.6 |  |
| Pasta (Group H) <br> Noodles <br> Lasagna sheets <br> Frozen | Pound | 13.9 | 1/4 cup cooked | 7.2 | 1 lb frozen = about <br> 3-3/4 frozen lasagna sheets |
|  | Pound | 6.96 | 1/2 cup cooked | 14.4 | 1 lb AP $=1.47 \mathrm{lb}$ (about 2-1/2 sheets) cooked pasta boiled 4 minutes |
|  | Pound | 4.64 | 3/4 cup cooked | 21.6 |  |
| Pasta (Group H) <br> Noodles <br> Ramen <br> Dry | Pound | 25.4 | 1/4 cup cooked | 4.0 | 1 lb dry = about 5-1/2 cups dry ramen noodles |
|  | Pound | 12.7 | 1/2 cup cooked | 7.9 | 1 lb dry $=3.07 \mathrm{lb}$ (about $6-1 / 3$ cups) cooked pasta boiled 3 minutes |
|  | Pound | 8.48 | 3/4 cup cooked | 11.8 |  |
| Pasta (Group H) <br> Orzo <br> Dry | Pound | 25.5 | 1/4 cup cooked | 4.0 | 1 lb dry = about 2-3/8 cups dry orzo pasta |
|  | Pound | 12.7 | 1/2 cup cooked | 7.9 | 1 lb dry $=3.07 \mathrm{lb}$ (about $6-3 / 8$ cups) cooked orzo pasta boiled 9 minutes |
|  | Pound | 8.53 | 3/4 cup cooked | 11.8 |  |
| Pasta (Group H) <br> Penne <br> Dry | Pound | 31.2 | 1/4 cup cooked | 3.2 | 1 lb dry = about 5-1/8 cups dry penne pasta |
|  | Pound | 15.6 | 1/2 cup cooked | 6.5 | 1 lb dry $=2.60 \mathrm{lb}$ (about 7-3/4 cups) cooked pasta boiled 14 minutes |
|  | Pound | 10.4 | 3/4 cup cooked | 9.7 |  |

## Section 3-Grains/Breads

| $1 \begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | Serving Size per Meal Contribution | $\begin{array}{\|l\|} \hline \text { Purchase } \\ \text { Units } \\ \text { for } 100 \\ \text { Servings } \end{array}$ | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PASTA (continued) |  |  |  |  |  |
| Pasta (Group H) <br> Shells <br> Large size <br> (for stuffing) <br> Dry | Pound | 25.3 | 1/4 cup cooked (about 2 shells) | 4.0 | 1 lb dry = about 10-7/8 cups dry large shell pasta |
|  | Pound | 12.6 | 1/2 cup cooked (about 4 shells) | 8.0 | 1 lb dry $=2.27 \mathrm{lb}$ (about 6-1/3 cups) cooked pasta shells boiled 14 minutes |
| Pasta (Group H) <br> Shells <br> Medium <br> Dry | Pound | 26.7 | 1/4 cup cooked | 3.8 | 1 lb dry = about 6 cups dry medium shell pasta |
|  | Pound | 13.3 | 1/2 cup cooked | 7.6 | 1 lb dry $=2.53 \mathrm{lb}$ (about 6-2/3 cups) cooked pasta |
|  | Pound | 8.93 | 3/4 cup cooked | 11.2 | $1 / 4$ cup cooked = about <br> 17 shells boiled 12 minutes |
| Pasta (Group H) <br> Spaghetti <br> Regular <br> Dry | Pound | 21.2 | 1/4 cup cooked al dente | 4.8 | 1 lb dry = about 3-1/4 cups dry spaghetti pieces |
|  | Pound | 10.6 | 1/2 cup cooked al dente | 9.5 | 1 lb dry $=2.37 \mathrm{lb}$ (about 5-1/4 cups) al dente cooked pasta (boiled 8 minutes) |
|  | Pound | 7.06 | 3/4 cup cooked al dente | 14.2 |  |
| Pasta (Group H) Spiral (Rotini) Dry | Pound | 33.8 | 1/4 cup cooked | 3.0 | 1 lb dry = about 5-3/8 cups dry spiral pasta |
|  | Pound | 16.9 | 1/2 cup cooked | 6.0 |  |
|  | Pound | 11.2 | 3/4 cup cooked | 9.0 |  |
| Pasta (Group H) <br> Wagon Wheels <br> Medium size <br> Dry | Pound | 31.1 | 1/4 cup cooked | 3.3 | 1 lb dry = about 5 cups dry wagon wheel pasta |
|  | Pound | 15.5 | $1 / 2$ cup cooked | 6.5 | 1 lb dry $=2.79 \mathrm{lb}$ (about 7-3/4 cups) cooked pasta boiled 12 minutes |
|  | Pound | 10.3 | 3/4 cup cooked | 9.7 |  |

## Section 3-Grains/Breads

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { Purchase } \\ \text { Unit } \end{array}$ | per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RICE ${ }^{4}$ |  |  |  |  |  |
| Rice (Group H) ${ }^{4}$ <br> Brown <br> Instant <br> Dry | Pound | 32.0 | 1/4 cup cooked | 3.2 | $\begin{aligned} & 1 \text { lb dry = about } 4-3 / 8 \text { cups } \\ & \text { dry rice } \end{aligned}$ |
|  | Pound | 16.0 | 1/2 cup cooked | 6.3 | 1 lb dry = about 8 cups cooked |
|  | Pound | 10.6 | 3/4 cup cooked | 9.5 | 1 cup dry = about <br> $3-1 / 4$ cups cooked |
| Rice (Group H) ${ }^{4}$ <br> Brown <br> Long grain <br> Regular <br> Dry | Pound | 17.5 | 1/4 cup cooked | 5.8 | 1 lb dry = about 2-1/2 cups dry rice |
|  | Pound | 8.75 | 1/2 cup cooked | 11.5 | $1 \mathrm{lb} \text { dry }=\text { about } 4-3 / 8 \text { cups }$ cooked |
|  | Pound | 5.83 | 3/4 cup cooked | 17.2 | 1 cup dry = about <br> $1-3 / 4$ cups cooked |
| Rice (Group H) ${ }^{4}$ <br> White <br> Long grain <br> Parboiled <br> (Converted) <br> Dry | Pound | 28.0 | 1/4 cup cooked | 3.6 | 1 lb dry = about 2-1/2 cups dry rice |
|  | Pound | 14.0 | 1/2 cup cooked | 7.2 | 1 lb dry $=$ about 7 cups cooked |
|  | Pound | 9.33 | 3/4 cup cooked | 10.8 | 1 cup dry = about 2-3/4 cups cooked |
| Rice (Group H) ${ }^{4}$ <br> White <br> Long grain <br> Instant <br> Dry | Pound | 28.0 | 1/4 cup cooked prepared with boiling water | 3.6 | 1 lb dry $=$ about 4-1/2 cups dry rice |
|  | Pound | 14.0 | $1 / 2$ cup prepared with boiling water | 7.2 | 1 lb dry $=$ about 7 cups cooked |
|  | Pound | 9.33 | 3/4 cup prepared with boiling water | 10.8 | 1 cup dry = about $1-1 / 2$ cups cooked |
| Rice (Group H) ${ }^{4}$ <br> White <br> Long grain <br> Regular <br> Dry | Pound | 30.0 | 1/4 cup cooked | 3.4 | 1 lb dry = about 2-1/3 cups dry rice |
|  | Pound | 15.0 | 1/2 cup cooked | 6.7 | 1 lb dry $=$ about $7-1 / 2$ cups cooked |
|  | Pound | 10.0 | 3/4 cup cooked | 10.0 | 1 cup dry = about 3-1/4 cups cooked |

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## Section 3-Grains/Breads

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ |  | Serving Size per Meal Contribution | $\begin{aligned} & \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RICE ${ }^{4}$ (continued) |  |  |  |  |  |
| Rice (Group H) ${ }^{4}$ <br> White <br> Medium grain <br> Regular <br> Dry | Pound | 27.0 | 1/4 cup cooked | 3.8 | $\begin{aligned} & 1 \text { lb dry = about } 2-1 / 4 \text { cups } \\ & \text { dry rice } \end{aligned}$ |
|  | Pound | 13.5 | 1/2 cup cooked | 7.5 | $\begin{aligned} & 1 \text { lb dry = about } 6-3 / 4 \text { cups } \\ & \text { cooked } \end{aligned}$ |
|  | Pound | 9.00 | 3/4 cup cooked | 11.2 | 1 cup dry = about 3 cups cooked |
| Rice (Group H) ${ }^{4}$ <br> White <br> Short grain <br> Regular <br> Dry | Pound | 27.0 | 1/4 cup cooked | 3.8 | $\begin{aligned} & 1 \text { lb dry = about } 2-1 / 4 \text { cups } \\ & \text { dry rice } \end{aligned}$ |
|  | Pound | 13.5 | 1/2 cup cooked | 7.5 | $\begin{aligned} & 1 \text { lb dry = about } 6-3 / 4 \text { cups } \\ & \text { cooked } \end{aligned}$ |
|  | Pound | 9.00 | 3/4 cup cooked | 11.2 | $1 \text { cup dry = about } 3 \text { cups }$ cooked |
| RICE CAKES ${ }^{5}$ |  |  |  |  |  |
| Rice Cakes ${ }^{5}$ <br> (Group A) <br> Puffed <br> Includes seeds or other grains | Package (average 5.25 oz) | 10.7 | 1/2 grains/breads serving (about 1-1/2 cakes, puffed; must weigh at least 10 g or 0.4 oz ) | 9.3 | $1 \mathrm{lb} \mathrm{AP}=$ about 48 rice cakes |
|  | Package (average 5.25 oz ) | 5.30 | 1 grains/breads serving (about 3 cakes, puffed; must weigh at least 20 g or 0.7 oz ) | 18.8 |  |
| RYE WAFERS |  |  |  |  |  |
| Rye Wafers (Group A) | Pound | 36.0 | $1 / 2$ grains/breads serving (about 2 wafers; must weigh at least 10 g or 0.4 oz ) | 2.8 |  |
|  | Pound | 18.0 | 1 grains/breads serving (about 4 wafers; must weigh at least 20 g or 0.7 oz ) | 5.6 |  |

[^58]
## Section 3-Grains/Breads

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | 5 Purchase <br> Units <br> for 100 <br> Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SALTINES |  |  |  |  |  |
| Saltines (Group A) | Pound | 41.2 | 1/2 grains/breads serving (about 4 crackers; must weigh at least 10 g or 0.4 oz) | 2.5 |  |
|  | Pound | 20.6 | 1 grains/breads serving (about 8 crackers; must weigh at least 20 g or 0.7 oz ) | 4.9 |  |
| SODA CRACKERS |  |  |  |  |  |
| Soda Crackers (Group A) | Pound | 45.0 | 1/2 grains/breads serving (about 2 crackers; must weigh at least 10 g or 0.4 oz ) | 2.3 |  |
|  | Pound | 22.5 | 1 grains/breads serving (about 4 crackers; must weigh at least 20 g or 0.7 oz ) | 4.5 |  |
| TACO/TOSTADA SHELLS |  |  |  |  |  |
| Taco/Tostada <br> Shells (Group B) | Dozen | 12.0 | 1/2 grains/breads serving (about 1 taco/tostada shell; must weigh at least 13 g or 0.5 oz ) | 8.4 |  |
|  | Dozen | 6.00 | 1 grains/breads serving (about 2 taco/tostada shells; must weigh at least 25 g or 0.9 oz ) | 16.7 |  |
| WILD RICE |  |  |  |  |  |
| Wild Rice (Group H) Dry | Pound | 34.8 | 1/4 cup cooked | 2.9 | 1 lb dry = about 2-2/3 cups dry wild rice |
|  | Pound | 17.4 | 1/2 cup cooked | 5.8 | 2-1/2 cups water to <br> 1 cup dry wild rice |
|  | Pound | 11.6 | 3/4 cup cooked | 8.7 | 1 lb dry $=2.55 \mathrm{lb}$ (about $8-2 / 3$ cups) cooked wild rice |

## Section 3-Grains/Breads

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | Serving Size per Meal Contribution | Purchase Units for 100 Servings | 6 <br> Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WILD RICE (continued) |  |  |  |  |  |
| Wild Rice and Enriched White Rice Mix (Group H) Dry | Pound | 28.7 | 1/4 cup cooked | 3.5 | 1 lb dry = about 2-3/8 cups dry mixed rice |
|  | Pound | 14.3 | 1/2 cup cooked | 7.0 | 2-1/4 cups water to 1 cup dry rice mix |
|  | Pound | 9.57 | 3/4 cup cooked | 10.5 | 1 lb dry $=3.21 \mathrm{lb}$ (about 7-1/8 cups) cooked rice mix |
| ZWEIBACK |  |  |  |  |  |
| Zweiback (Group A) | Pound | 32.4 | 1/2 grains/breads serving (about 2 pieces; must weigh at least 10 g or 0.4 oz ) | 3.1 |  |
|  | Pound | 21.3 | 1 grains/breads serving (about 3 pieces; must weigh at least 20 g or 0.7 oz ) | 4.7 |  |

Section 4

## Milk



4-1 Fluid Milk for the Child Nutrition Programs
4-2 Yield Data Table for Milk

## Milk

Fluid Milk
for the Child Nutrition
Programs

Regulations for most Child Nutrition Programs require that fluid milk must be offered at each breakfast, lunch, or supper. Fluid milk is not required to be served with the adult supper in the Child and Adult Care Food Program (CACFP). Fluid milk is one of the options for a snack in the CACFP, the Summer Food Service Program (SFSP), and the afterschool snack service in the National School Lunch Program (NSLP).

In a lunch or a supper, the fluid milk must be served as a beverage. For a breakfast or a snack, you may serve the fluid milk as a beverage, on cereal, or both.

In the School Breakfast Program, the CACFP, and the SFSP, fluid milk includes whole milk, lowfat milk, reduced fat milk, skim milk or nonfat milk, cultured buttermilk, lactose-reduced milk or lactose-free milk, acidified milk, or flavored milk made from types of fluid milk that meet State or local standards.

Schools participating in the NSLP must offer students fluid milk. The selection of the types of milk offered must be consistent with the types of milk consumed in the prior year. This requirement does not preclude schools from offering additional kinds of milk. However, in the event that a particular type of milk represents less than one (1) percent of the total amount of milk consumed in a previous year, a school may elect not to make this type of milk available. Schools are encouraged to offer a wide variety of milks. Since some children may be lactose intolerant, it may be a good idea to offer lactose-reduced milk or lactose-free milk as a choice.

Fluid milk includes pasteurized fluid unflavored or flavored skim milk or nonfat milk, lowfat milk, whole milk, lactosereduced milk, lactose-free milk, or cultured buttermilk, all of which meet State and local standards for such milk. The milk must contain vitamins A and D at levels specified by FDA, and must be consistent with State and local standards.


## Food Buying Guide for Child Nutrition Programs

## Section 4 <br> Milk

## Section 4—Milk

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | per Purchase Unit, EP | Serving Size per Meal Contribution | 5 <br> Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MILK, FLUID |  |  |  |  |  |
| Milk, fluid <br> Skim or Nonfat milk, Lowfat milk, Reduced fat milk, Whole milk, Lactose-reduced milk, Lactose-free milk, Buttermilk, Acidified milk (unflavored or flavored) | Gallon | 16.0 | $1 / 2$ pint milk (1 cup milk) | 6.3 |  |
|  | Gallon | 21.3 | 3/4 cup milk | 4.7 |  |
|  | Gallon | 32.0 | 1/2 cup milk | 3.2 |  |
|  | Quart | 4.0 | 1/2 pint milk <br> (1 cup milk) | 25.0 |  |
|  | Quart | 5.3 | 3/4 cup milk | 18.9 |  |
|  | Quart | 8.0 | 1/2 cup milk | 12.5 |  |
|  | $\begin{array}{\|l} 1 / 2 \text { pint } \\ (8 \mathrm{fl} \text { oz) } \end{array}$ | 1.0 | 1/2 pint milk | 100.0 |  |
|  | $\begin{aligned} & 3 / 4 \mathrm{cup} \\ & (6 \mathrm{fl} \text { oz) } \end{aligned}$ | 1.0 | 3/4 cup milk | 100.0 |  |
|  | $\begin{aligned} & 1 / 2 \text { cup } \\ & (4 \mathrm{fl} \text { oz }) \end{aligned}$ | 1.0 | 1/2 cup milk | 100.0 |  |

Section
Food Buying Guide for Child Nutrition Programs

## Other Foods



5-1 Description of Other Foods
5-2 Yield Data Table for Other Foods

## Other Foods

Description of Other Foods

The foods in this section do not meet the requirement for any component in the meal patterns of the food based menu planning approaches. These items are included since they are frequently used as condiments and seasonings, to round out the meal, to improve acceptability, and to satisfy children's appetites. Because of the calories and nutrients these items contain they are counted in any nutrient analysis.

The calories supplied by these foods help to meet the energy needs of growing children. They also contribute varying amounts of protein, vitamins, and minerals essential to good nutrition. However, many of these foods are high in salt, sugar, or fat. For that reason, you may want to consider carefully how often and in what amount you use them.

The section does not include yields for all of the "other foods" you need in preparing meals. Flour and sugar, for example, are not included since they are never served alone. When purchase units for 100 servings of a food seem inappropriate, such as 100 cups of mustard, Column 5 is left blank.

Foods are designated as "USDA Commodity" or "Market pack" in Column 1. USDA-donated foods are not normally available on the market. Market pack foods are commercially available.

Refer to the Introduction Section for instructions on using Yield Data Tables.

## Food Buying Guide for Child Nutrition Programs Section 5 Other Foods

Section 5-Other Foods

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | 4 Serving Size | 5 <br> Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BUTTER, MARGARINE |  |  |  |  |  |
| Butter | Pound | 96.0 | 1 teaspoon butter | 1.1 | $1 \mathrm{lb}=2$ cups |
| Margarine | Pound | 96.0 | 1 teaspoon margarine | 1.1 | $1 \mathrm{lb}=2$ cups |
| CATSUP (KETCHUP) |  |  |  |  |  |
| Catsup (Ketchup) Tomato | $\begin{aligned} & \text { No. } 10 \text { can } \\ & (115 \mathrm{oz}) \end{aligned}$ | 11.4 | 1 cup catsup | -- | $\begin{aligned} & 1 \text { No. } 10 \text { can = about } \\ & 11-1 / 2 \text { cups } \end{aligned}$ |
|  | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (115 oz) } \end{aligned}$ | 183.0 | 1 tablespoon catsup | 0.60 |  |
|  | 20 oz bottle | 32.0 | 1 tablespoon catsup | 3.2 |  |
|  | Pound | 1.6 | 1 cup catsup | -- |  |
| CHILI SAUCE |  |  |  |  |  |
| Chili Sauce | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (113 oz) } \end{aligned}$ | 12.9 | 1 cup sauce | -- |  |
|  | 19 oz bottle | 2.2 | 1 cup sauce | -- |  |
|  | Pound | 1.8 | 1 cup sauce | -- |  |
| COCONUT |  |  |  |  |  |
| Coconut, fresh In shell | Pound | 2.7 | 1 cup shredded or grated coconut | -- | 1 lb in shell $=$ about 0.48 lb (2-3/4 cups) shredded or grated ready-to-serve |
| Coconut, frozen Shredded | Pound | 5.8 | 1 cup coconut | -- |  |
| Coconut, dried Flakes | Pound | 5.1 | 1 cup coconut | -- |  |
| Coconut, dried Shredded | Pound | 4.9 | 1 cup coconut | -- |  |

## Section 5—Other Foods

| Food As <br> Purchased, AP | 2 Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | 4 Serving Size | Purchase <br> Units <br> for 100 <br> Servings | 6 Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| CREAM |  |  |  |  |  |
| Cream, fresh <br> Light | 1 quart | 64.0 | 1 tablespoon cream | 1.6 |  |
| Cream, fresh <br> Heavy <br> Whipping | 1 quart | 128.0 | 1 tablespoon whipped <br> cream <br> 1 tablespoon whipped <br> cream | 0.79 | Volume doubles when <br> whipped |

## CREAM CHEESE

| Cream Cheese | Pound | 15.6 | 2 tablespoons cheese | 6.5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EGG PRODUCT |  |  |  |  |  |
| Egg Product, frozen Egg Whites | Pound | 7.51 | 1/4 cup portion | 13.4 | 1 lb frozen = about $1-5 / 8$ cups thawed |
| Egg Product, frozen Egg Yolks | Pound | 7.51 | 1/4 cup portion | 13.4 | 1 lb frozen = about 1-5/8 cups thawed |
| FISH, SURIMI |  |  |  |  |  |
| Fish, Surimi, frozen | Pound | 10.8 | 1/4 cup thawed surimi | 9.3 | 1 lb AP $=0.98 \mathrm{lb}$ ready-touse, thawed surimi (about 2-3/4 cups) |
|  | Pound | 15.7 | 1 oz thawed surimi | 6.4 |  |
|  | Pound | 10.4 | 1-1/2 oz thawed surimi | 9.7 |  |

## FROZEN DESSERTS

| Frozen Desserts <br> Ice cream <br> Ice milk <br> Sherbet - Brick | 1 quart | 8.0 | 1 slice (1/2 cup) | 12.5 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Frozen Desserts <br> Ice cream | 1 gal | 32.0 | $1 / 2$ cup portion | 3.2 |  |
| Ice milk <br> Sherbet | 1 gal | 64.0 | $1 / 4$ cup portion | 1.6 |  |
| Frozen yogurt <br> Bulk <br> Hardened or Soft <br> serve |  |  |  |  |  |

## Section 5—Other Foods

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | Servings per Purchase Unit, EP | 4 Serving Size | Purchase Units for 100 Servings |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HOMINY |  |  |  |  |  |
| Hominy, canned | $\begin{array}{\|l} \text { No. } 10 \text { can } \\ \text { (105 oz) } \end{array}$ | 46.9 | 1/4 cup hominy | 2.2 | 1 can = about 68 oz drained |
|  | $\begin{array}{\|l} \text { No. 2-1/2 } \\ \text { can (29 oz) } \end{array}$ | 12.9 | 1/4 cup hominy | 7.8 | 1 can = about 19 oz drained |
|  | No. 300 can (15-1/2 oz) | 6.3 | 1/4 cup hominy | 15.9 |  |
| HONEY |  |  |  |  |  |
| Honey Strained | Pound | 1.4 | 1 cup honey | -- |  |
|  | Pound | 22.3 | 1 tablespoon honey | 4.5 |  |
| JAMS, JELLIIES and PRESERVES |  |  |  |  |  |
| Jams, Jellies and Preserves | 1 gal | 16.0 | 1 cup jam | -- |  |
|  | 1 gal | 256.0 | 1 tablespoon jelly | 0.40 |  |
|  | 1 quart | 4.0 | 1 cup jam | -- |  |
|  | 1 quart | 64.0 | 1 tablespoon jam | 1.6 |  |
|  | Pound | 1.4 | 1 cup jam | -- |  |
|  | Pound | 22.6 | 1 tablespoon jam | 4.5 |  |
| KETCHUP (see CATSUP) |  |  |  |  |  |
| MILK, DRIED |  |  |  |  |  |
| Milk, dried <br> Whole <br> Regular | Pound | 14.2 | 1 cup reconstituted | -- | 4.5 oz (1 cup) dry plus <br> 3-1/2 cups water = about <br> 1 qt fluid whole milk |
|  | Pound | 3.5 | 1 cup dry milk |  |  |
| Milk, dried <br> Nonfat <br> Instant | Pound | 20.0 | 1 cup reconstituted milk | -- | 3.2 oz (1-1/3 cups) dry plus <br> $3-3 / 4$ cups water $=$ about <br> 1 qt fluid skim milk |
|  | Pound | 6.6 | 1 cup dry milk |  |  |

## Section 5—Other Foods

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | 4 Serving Size | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## MILK, DRIED (continued)

| Milk, dried <br> Non-instant <br> USDA Commodity | Pound | 20.0 | 1 cup reconstituted milk | -- | 3.2 oz (3/4 cup) dry plus <br> $3-3 / 4$ cups water $=$ about <br> 1 qt fluid skim milk |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 3.7 | 1 cup dry milk |  |  |

MILK, EVAPORATED

| Milk, Evaporated, <br> canned | No. 10 can <br> (97 oz) | 12.0 | 1 cup concentrated milk | -- | To reconstitute, add 1 part <br> evaporated milk with 1 part <br> water |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 13 fl oz can | 1.6 | 1 cup concentrated milk | -- |  |

## MUSTARD

| Mustard Prepared | 1 gal (about 142 oz) | 16.0 | 1 cup mustard | -- |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 gal (about <br> 142 oz) | 256.0 | 1 tablespoon mustard | 0.40 |  |
|  | 1 quart (about 35 oz) | 64.0 | 1 tablespoon mustard | 1.6 |  |
|  | Pound | 1.8 | 1 cup mustard | -- |  |
| PICKLE RELISH |  |  |  |  |  |
| Pickle Relish | 1 gal (about 147 oz) | 16.0 | 1 cup relish | -- | 1 gal = about 58 oz drained (about 8 cups) |
|  | 1 gal (about 147 oz) | 256.0 | 1 tablespoon relish | 0.40 |  |
|  | 1 quart (about 35 oz) | 64.0 | 1 tablespoon relish | 1.6 |  |
|  | Pound | 1.8 | 1 cup relish | -- |  |
| PORK |  |  |  |  |  |
| Pork, fresh Pig Ears Lobe off Square cut | Pound | 15.6 | $10 z$ cooked pig's ear | 6.5 | 1 lb AP $=0.98 \mathrm{lb}$ cooked pig's ears |
|  | Pound | 10.4 | 1-1/2 oz cooked pig's ear | 9.7 |  |

## Section 5-Other Foods

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | 4 Serving Size | $\begin{array}{\|l} \hline \text { Purchase } \\ \text { Units } \\ \text { for } 100 \\ \text { Servings } \end{array}$ | 6 Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PORK (continued) |  |  |  |  |  |
| Pork, fresh <br> Pig Feet <br> Front <br> (Like IMPS \#420) | Pound | 0.64 | 1 oz cooked pig's feet | 156.3 | 1 lb AP $=0.04 \mathrm{lb}$ cooked, skinned, boned meat |
|  | Pound | 0.42 | 1-1/2 oz cooked pig's feet | 238.1 |  |
| Pork, fresh <br> Pig Feet <br> Hind <br> (Like IMPS \#420A) | Pound | 0.32 | 1 oz cooked pig's feet | 312.5 | 1 lb AP $=0.02 \mathrm{lb}$ cooked, skinned, boned meat |
|  | Pound | 0.21 | 1-1/2 oz cooked pig's feet | 476.2 |  |
| PORK, MILD CURED |  |  |  |  |  |
| Pork, Mild Cured, chilled or frozen Bacon Slices Precooked | Pound | 116.0 | bacon slices per pound | 0.87 | 1 lb AP $=0.86 \mathrm{lb}$ cooked bacon (about 6 cups thawed, cooked and chopped) |
| Pork, Mild Cured, chilled or frozen Bacon Slices Raw | Pound | 23.0 | bacon slices per pound | 4.4 | 1 lb AP $=0.38 \mathrm{lb}$ cooked bacon (about 5 cups chopped) |
| Pork, Mild Cured, chilled or frozen Ham Hocks Cured and Smoked (Like IMPS \#560) | Pound | 0.32 | $10 z$ cooked ham hocks | 312.5 | 1 lb AP $=0.02 \mathrm{lb}$ cooked meat from ham hocks |
|  | Pound | 0.21 | 1-1/2 oz cooked ham hocks | 476.2 |  |
| POPCORN, POPPED |  |  |  |  |  |
| Popcorn, Popped | 48-1 oz individual packages | 136.7 | 1/4 cup popped | 0.74 | $\begin{aligned} & 1 \text { oz pkg = about } \\ & 2-1 / 4 \text { cups } \end{aligned}$ |
|  | Pound | 68.3 | 1/2 cup popped | 1.5 | $\begin{aligned} & 1 \mathrm{lb} \text { dry = about } \\ & 34-1 / 4 \text { cups } \end{aligned}$ |
|  | Pound | 45.5 | 3/4 cup popped | 2.2 |  |
|  | Pound | 34.1 | 1 cup popped | 3.0 |  |
| POTAO CHIPS |  |  |  |  |  |
| Potato Chips | Pound | 32.0 | 1/2 ounce chips (about 1/2 cup) | 3.2 |  |

## Section 5—Other Foods

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \text { Purchase }$ | per Purchase Unit, EP | 4 Serving Size | Purchase Units for 100 Servings | Additional Information |
| :---: | :---: | :---: | :---: | :---: | :---: |
| POTATO STICKS |  |  |  |  |  |
| Potato Sticks | Pound | 32.0 | 1/2 ounce sticks (about $3 / 8$ cup) | 3.2 |  |
| PUDDING |  |  |  |  |  |
| Pudding, canned Ready-to-serve Butterscotch, | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (112 oz) } \end{aligned}$ | 47.9 | 1/4 cup pudding | 2.1 | 1 can = about 12 cups ready-to-serve pudding |
| Chocolate, Vanilla, etc. | $\begin{aligned} & \text { No. } 10 \text { can } \\ & \text { (112 oz) } \end{aligned}$ | 23.9 | 1/2 cup pudding | 4.2 |  |

## SALAD DRESSINGS

| Salad Dressings <br> French, <br> Mayonnaise, <br> Mayonnaise type | 1 gal | 16.0 | 1 cup dressing | -- |
| :--- | :--- | :--- | :--- | :--- |
| 1 quart | 256.0 | 1 tablespoon dressing | 0.40 |  |
| 1 quart | 64.0 | 1 cup dressing | -- |  |

## SYRUPS

| Syrups <br> Cane, <br> Corn, <br> Maple, <br> Molasses, etc. | 1 gal (about 183 oz) | 16.0 | 1 cup syrup | -- |
| :---: | :---: | :---: | :---: | :---: |
|  | 1 gal (about 183 oz) | 128.0 | 2 tablespoon syrup | 0.79 |
|  | 1 quart | 4.0 | 1 cup syrup | -- |
|  | 1 quart | 32.0 | 2 tablespoons syrup | 3.2 |

## VEGETABLES FOR SEASONING

| Vegetables for <br> Seasoning, dried <br> Celery <br> Flakes | Ounce | 1.3 | 1 cup dry flakes | -- | For flavor, use 1 oz dry <br> in place of 11.3 oz <br> $(2-2 / 3$ cups) fresh <br> chopped celery |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pound | 21.6 | 1 cup dry flakes | -- |  |
| Vegetables for <br> Seasoning, dried <br> Chives <br> Freeze-dried <br> Flakes | Ounce | 2.8 | 1 cup flakes | -- | For flavor, use 1 oz dry <br> in place of 14.7 oz <br> (8-2/3 cups) fresh <br> chopped chives |

## Section 5-Other Foods

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | 4 Serving Size | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## VEGETABLES FOR SEASONING (continued)

| Vegetables for <br> Seasoning, dried <br> Garlic <br> Minced | Ounce | 2.6 | 1 tablespoon garlic | -- | For flavor, use $1 / 4$ tsp. dry <br> in place of 2 cloves fresh <br> minced garlic |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Vegetables for <br> Seasoning, dried <br> Mixed vegetables <br> Flakes | Pound | Pound | 72.0 | 1 tablespoon garlic | -- |
| Vegetables for <br> Seasoning, dried <br> Onions <br> Chopped | Ounce | 6.0 | 1 tablespoon flakes | -- |  |
| Vegetables for <br> Seasoning, dried <br> Onions <br> Minced | Ounce | Pound | 4.0 | 1 tablespoon onions flakes | -- |
| Vegetables for <br> Seasoning, dried <br> Onions <br> Flakes | Ounce | Pound | 7.6 | 1 tablespoon onions | -- |
| Vegetables for <br> Veasoning, dried <br> Parsley <br> Flakes | Ounce | 21.8 | 1 cup onions | For flavor, use 1 oz dry <br> in place of about 9.1 oz <br> $(1-1 / 2$ cup) fresh chopped <br> onion |  |

## Section 5-Other Foods

| $\begin{aligned} & \text { Food As } \\ & \text { Purchased, AP } \end{aligned}$ | $2 \begin{aligned} & \text { Purchase } \\ & \text { Unit } \end{aligned}$ | 3 <br> Servings per Purchase Unit, EP | 4 Serving Size | $\begin{aligned} & 5 \text { Purchase } \\ & \text { Units } \\ & \text { for } 100 \\ & \text { Servings } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| YEAST |  |  |  |  |  |
| Yeast <br> Active Dry | Pound | 3.1 | 1 cup yeast | -- | 1 package (1/4 oz) = about 1 tablespoon |
| Yeast <br> Compressed | Pound | 25.2 | 1 cake yeast | -- | 1 cake (5/8 oz) = 1 package; (1/4 oz) active dry yeast |

## Section

## Appendices

Appendix A: Recipe Analysis
Appendix B: Using Column 6 for Recipe Analysis
Appendix C: The USDA Child Nutrition Labeling Program
Appendix D: Food Purchasing: A Summary of First Choice and Choice Plus
Appendix E: Resources

Food Buying Guide for Child Nutrition Programs
A

## Recipe Analysis

## Recipe Analysis

How to Use<br>the Recipe<br>Analysis<br>Worksheet

1. The recipe analysis worksheet (Figure 1, page A-7) has been added to the Food Buying Guide as a tool to help you calculate the contributions of ingredients towards the meat/meat alternates, vegetables/fruits, and/ or grains/breads components of the meal pattern requirements. Determining the contributions your recipes (either USDA modified or locally produced) make towards the meal pattern requirements is an important step in ensuring the meals you serve are
 nutritious and meet Federal meal pattern requirements.
2. A calculator is most helpful when working with decimals. To determine the contribution a recipe's ingredients make toward meal pattern requirements, you must follow several steps. To illustrate the procedures, a worksheet has been completed for Spaghetti with Meat Sauce (Figure 2), Beef and Spaghetti Casserole (Figure 3), Beef Stew (Figure 4), and Cooked Oatmeal with Raisins and Crunchy Wheat Germ (Figure 5). The Spaghetti with Meat Sauce example uses large quantities of food typically used in a school setting (100 portions). The Beef and Spaghetti Casserole recipe uses a smaller quantity of food often seen in a day care setting ( 25 portions). The Beef Stew recipe is for 50 portions. The Cooked Oatmeal with Raisins and Crunchy Wheat Germ example (100 portions) uses the serving size required for the School Breakfast Program.
3. Keep in mind the rounding rule used when calculating the credit for meal pattern components. For crediting purposes, you need to round down to ensure that each portion served provides the minimum amount of credit you are claiming. This is different for the rounding rule used when calculating how much food to purchase and/or prepare. The rounding rule used for purchasing and/or preparing food is to round up to ensure enough food is purchased and/or prepared.

Recipe Name. Record the name of the recipe at the top of the page.
Portions per Recipe. Record the number of portions your recipe will yield.

Column 1 - Ingredients. List the recipe ingredients in Column 1 of the worksheet. It is not necessary to list ingredients that do not contribute towards meal pattern requirements. Record a description of each ingredient as precisely as possible. For example, record "ground beef, no more than 20 percent fat" or "spaghetti, dry" if these are the exact ingredients called for in the recipe. It is a good idea to group ingredients together that contribute to the same meal component: list all the meat/meat alternates ingredients first, list all the vegetables/fruits ingredients next, then list all the grains/breads ingredients.

Column 2 - Quantity of Ingredient as Purchased. Record the "as purchased" weight or volume measure of each ingredient in the recipe in Column 2 of the worksheet. Convert ounces to their decimal equivalent of a pound. (see "Decimal Weight Equivalents" Table 5 on page I-36) The quantity specified in Column 2 of the worksheet must be in the same units as the purchase unit which will be recorded in Column 3. For example, if 2 No. 10 cans of peas are recorded in Column 2, make sure the purchase unit in Column 3 is a No. 10 can also.

## Special Considerations for Column 2:

When the recipe calls for the prepared/ready-to-use form of an ingredient, and the Food Buying Guide does not provide yield data for that form, you will have to convert the weight of that ingredient to its unprepared weight in order to determine how many servings are provided by that ingredient.
If the recipe calls for food in a certain form and if yield data for the food in the same form is available in this guide as described in Column 1 , conversion of the weight is not necessary. For example, if your recipe calls for onions, fresh, peeled, and diced, no conversion is necessary since the Food Buying Guide provides yield data for onions, fresh, diced, ready-to-use as described in Column 1 (see page 2-51).
However, if the form of the food used in the recipe is not listed in Column 1 of the Food Buying Guide, conversion of the ingredient weight is necessary. For example, if the recipe calls for eggplant, raw, pared, cubed, a conversion of the ingredient weight is needed since the Food Buying Guide only provides data for whole eggplant as described in Column 1. In other words, in order to determine the number of $1 / 4$-cup servings provided by the amount of raw, pared, cubed eggplant in the recipe, you must determine the weight of the whole unpared eggplant (the "as purchased" weight) so that you can then use the yield data in this guide.
To convert the weight from the prepared/ready-to-serve form to the as-purchased weight, divide the weight of the prepared/ready-to-serve ingredient given in the recipe by the corresponding yield factor provided in Column 6 (Additional Yield Information) of the Food Buying Guide.

The resulting answer will be entered in Column 2 of the worksheet. Do not round up.
For example, a recipe calls for 10 pounds of raw, pared, cubed eggplant, but the Food Buying Guide only provides yield data for whole eggplant. In this case, the weight of the raw pared, cubed eggplant in the recipe needs to be converted to the weight of the whole eggplant in order to record in Column 2, the amount of whole eggplant that will provide the amount of pared, cubed eggplant required for the recipe. To convert the weight of raw, pared, cubed eggplant to the weight of the fresh whole eggplant, divide 10 pounds of raw, pared cubed eggplant by the yield factor in Column 6 (which is 0.81 ). The calculation is as follows: 10 divided by $0.81=12.34$. You would record 12.34 pounds of fresh whole eggplant in Column 2 of the Recipe Analysis Worksheet, and you would then record that whole eggplant yields $6.71 / 4$-cup servings of cooked vegetable cubes per pound in Column 4 of the Recipe Analysis Worksheet.

For additional examples using Column 6 yield data, see calculation examples from Method 3 on pages I-63 through I-65. You may also refer to Appendix B for another example of determining yields of prepared/ready-to-serve ingredients.

Column 3 - Purchase Unit. Record the purchase unit in which you buy the ingredient such as pound, No. 10 can, dozen, etc., in Column 3 of the worksheet. Keep in mind that it is important to use the same purchase unit of the ingredient as specified under "Purchase Unit," Column 2 of the Food Buying Guide.

Column 4-Servings per Purchase Unit. Record the number of servings per purchase unit of the ingredient in Column 4 of the worksheet. This information will be found in Column 3 of the Food Buying Guide. The number of servings per purchase unit varies for different preparation methods or forms of the ingredient as served. Therefore, you should pay particular attention to the description of the food as served when selecting the number of servings per purchase unit to use in the calculations. The description of the form of the food should be most nearly like that of the food after preparation of the recipe is complete and as it is served. For example, if a recipe specifies raw, sliced carrots as an ingredient and the carrots are cooked in the process of preparing the recipe, use the information in Column 3 of the Food Buying Guide for cooked sliced carrots.

## Special Considerations for Column 4:

For a grains/breads ingredient you will need to be aware of the two different ways the serving data are provided in the yield tables:

## 1) By number of grains/breads servings

Most grains/breads items, such as crackers, taco shells, and bread, provide yield data by number of grains/breads servings, for example, $1 / 2$ serving, 1 serving, or $1-1 / 2$ servings. If the ingredient you are using provides the yield data by number of servings, the purchase unit you need to record in Column 4 of the Recipe Analysis Worksheet must be the yield data for 1 serving of grains/breads.

## 2) Byvolume

Items categorized as cooked cereal grains, pasta, rice, and wild rice are listed by portions of a cup, for example, $1 / 4$ cup, $1 / 2$ cup, or $3 / 4$ cup. If the ingredient you are using provides the yield data by fractions of a cup, you need to:
A) Know the total number of servings needed using one specific volume measurement. For example, if you need $501 / 4$-cup servings plus $501 / 2$-cup servings you will need either a total of $1501 / 4$-cup servings or 75 1/2-cup servings;
B) Choose one volume measurement and use the corresponding yield data for that specific volume measurement. For example, if the ingredient is barley and you have calculated the number of $1 / 2$ cup servings needed for all servings combined, "pound" will be recorded in Column 3 and 21.2 is recorded in Column 4 since this yield data corresponds to the $1 / 2$ cup serving of cooked barley;
C) Understand that the servings per portion will be in units of the specific volume measurement that you have chosen in step $B$. As in the example above for barley, the portion chosen is $1 / 2$ cup, the yield data needed to calculate the number of servings corresponds to $1 / 2$ cup, therefore, the answer will be in $1 / 2$ cup servings of grains/breads.
Note: You will need to know what volume portion will provide one grains/breads serving for your program. According to Exhibit A (see pages 3-15 \&ं 3-16), for cooked cereal grains, pasta, rice and wild rice, one grains/breads serving $=1 / 2$ cup cooked. However, there is an exception: For the School Breakfast Program for Grades K-12, one grains/breads serving $=3 / 4$ cup or 1 ounce cereal. This means $3 / 4$ cup or 1 ounce (whichever is less) of cold dry cereal or $3 / 4$ cup cooked cereal is equivalent to one grains/breads serving.

Column 5 - Calculation of the meat/meat alternates contribution per serving. Follow these steps:

1. For each meat or meat alternate ingredient in the recipe, multiply the number recorded in Column 2 by the number recorded in Column 4. (Column 2 X Column 4 = Column 5.) Record the answer to two decimal places.

> Note: When whole eggs are an ingredient in a recipe, the number entered in Column 4 of the worksheet, servings per purchase unit (obtained from Column 3 of the Food Buying Guide), should be 24 one-ounce servings per dozen large eggs. This is necessary so that the Column 5 entry will be in units of one-ounce servings.
2. If more than one meat or meat alternate ingredient is used in the recipe, add all the numbers recorded in Column 5 to determine the total ounces of meat or meat alternate ingredients in the recipe. Then record the sum in the space provided for the total.
3. Divide the total of Column 5 by the number of portions the recipe yields to determine the contribution per portion.
4. Round down to the nearest $1 / 4$ ounce $(0.25 \mathrm{oz})$.

> Note: The contribution that meat or meat alternate ingredients make toward meal pattern requirements is expressed as ounces of "quivalent meat/meat alternate." The minimum equivalent meat or meat alternate provided by a portion of the recipe must be 0.25 ounce to be credited as a meat/meat alternate contribution.

Column 6 - Calculation of the vegetables/fruits contribution per serving. Follow these steps:

1. For each vegetable or fruit recipe ingredient on the worksheet, multiply the number recorded in Column 2 by the number recorded in Column 4. (Column 2 X Column $4=$ Column 6) Record the answer to two decimal places.
2. If more than one vegetable or fruit ingredient is used in the recipe, add all of the numbers recorded in Column 6 to determine the total number of $1 / 4$ cup vegetable/fruit servings in the recipe. Then, record the sum in the space provided for the total.
3. Divide the total number of $1 / 4$ cup servings by 4 to convert to cups.
4. Divide the total number of cups by the number of portions the recipe yields to determine the contribution per portion.
5. Record the answer to two decimal places and convert decimal places to the nearest portion of a cup by using table 7 on page I-37. Vegetable/ fruit servings are always rounded down to the nearest $1 / 8$ cup.

Note: A recipe must provide a minimum of 1/8 cup vegetable or fruit per serving to count toward the vegetable/fruit component of the meal pattern requirements.

Column 7 - Calculation of the grains/breads contribution per serving. Follow these steps when using an item having yield data in the FBG: ${ }^{1}$

1. For each grains/breads recipe ingredient listed on the worksheet, multiply the number recorded in Column 2 by the number recorded in Column 4. (Column 2 X Column $4=$ Column 7.) Record the answer to two decimal places.
2. If more than one grains/breads ingredient is used in the recipe, add all the numbers recorded in Column 7 to determine the total number of grains/breads servings in the recipe. Record the sum in the space provided for the total.
3. Divide the total figure in Column 7 by the number of portions the recipe yields to determine the contribution per portion.
4. Round down to the nearest $1 / 4$ grains/breads serving.

Totals: The totals row is used to record the sum or total for the numbers recorded in each component column. For example, all the numbers recorded in Column 5, meat/meat alternates, should be added together and the sum will be recorded in the "totals" space of Column 5. Add the numbers recorded in Columns 6 and 7 the same way and the sums or totals will be recorded in the appropriate column in the space provided for the total.

Portions per Recipe: Record the total number of portions a recipe provides or yields. This number will be the same for each of the component columns. For example, if your entire recipe provides 100 portions, 100 will be entered in this row for Columns 5, 6 and 7.

Calculations: Note the numbers you will use to calculate or determine the contribution of each component.

Note: Always round down after determining the creditable amount of a meal pattern component. This is to ensure that each portion served will provide the minimum contribution towards meal pattern requirements. When rounding down, sometimes there may be a little bit more credit than what is claimed. It is necessary to round down so that there will never be less credit than what is claimed. (Keep in mind, when calculating how much food to purchase you would not round down, but would round up.)

Each Portion Contributes: This row provides a space to record the final rounded down, calculated answers of how one portion will credit towards each meal pattern component.

[^59]
## Recipe Analysis Worksheet

 FIGURE 1Recipe Name: $\qquad$ Portions per Recipe: $\qquad$


Completed Recipe Analysis Worksheet-School Lunch (100 Portions) FIGURE 2

## Recipe Name: Spaghetti with Meat Sauce <br> Portions per Recipe: 100 <br> (Modified USDA Recipe \#D-35)

| Ingredients (1) | Quantity of Ingredient As Purchased (number of purchase units) (2) | Purchase Unit (3) | Servings per Purchase Unit in Food Buying Guide (4) | Meat/ <br> Meat <br> Alternates <br> (ounces) <br> (5) $=$ <br> (2) $X(4)$ | $\begin{gathered} \text { Vegetables/ } \\ \text { Fruits } \\ \text { (1/4 cup) } \\ \text { (6) }= \\ (2) X(4) \\ \hline \end{gathered}$ | Grains/ Breads (servings) (7) $=$ <br> (2) $X(4)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ground Beef, (no more than $16 \%$ fat)* | $\begin{aligned} & 14.37 \mathrm{lb} \\ & (14 \mathrm{lb} 6 \mathrm{oz}) \end{aligned}$ | Pound | $11.8$ <br> (for 1 oz serv) | 169.56 |  |  |
| Cheddar Cheese,* shredded | 2 lb | Pound | $\begin{aligned} & 16.0 \\ & \text { (for } 1 \text { oz serv) } \end{aligned}$ | 32.00 |  |  |
| Onions, fresh, as purchased (to provide 6 lb chopped) | $\begin{aligned} & 6.88 \mathrm{lb} \\ & (6 \mathrm{lb} 14 \mathrm{oz}) \end{aligned}$ | Pound | $\begin{aligned} & 7.90 \\ & \text { (for } 1 / 4 \text { c serv) } \end{aligned}$ |  | 54.35 |  |
| Tomato Paste | $\begin{aligned} & 3.50 \mathrm{lb} \\ & (3 \mathrm{lb} 8 \mathrm{oz}) \end{aligned}$ | Pound | $27.6$ <br> (for 1 tbsp) |  | 96.60 |  |
| Tomatoes, canned, diced With liquid | $\begin{aligned} & 8.50 \mathrm{lb} \\ & (8 \mathrm{lb} 8 \mathrm{oz}) \end{aligned}$ | Pound | 7.71 <br> (for $1 / 4 \mathrm{c}$ serv) |  | 65.53 |  |
| Spaghetti, regular, dry, broken ${ }^{2}$ | $\begin{aligned} & 9.50 \mathrm{lb} \\ & (6 \mathrm{lb} 8 \mathrm{oz}) \end{aligned}$ | Pound | $\begin{aligned} & 10.6 \\ & \text { (for } 1 / 2 \text { c serv) } \end{aligned}$ |  |  | 100.70 |
| * the use of 16\% fat ground beef and the addition of cheese are modifications to the original USDA recipe \# D-35. |  |  |  |  |  |  |
| Notes: <br> - oz to lb conversion chart is on page I-36 <br> - remember to convert ready-to-use products to their "as purchased" amount (see examples in Method 1, pages I-51 through I-59) the values for Columns 5, $6, \& 7$ are found by multiplying the value in Column 2 by the value in Column 4. <br> remember to divide the total $1 / 4$ cup servings of vegetables/fruits by 4 to get the cups of fruit. grains/breads in portions of a cup: convert all needed servings into the same portion of a cup and use the corresponding yield data for that same size <br> grains/breads in numbers of servings: use the yield data provided for 1 grains/breads serving |  |  | Totals | 201.56 | 216.48 (1/4c) | 100.70 |
|  |  |  | Portions per Recipe | 100 | 100 | 100 |
|  |  |  | Calculations | $\begin{array}{\|l\|} 201.56 \div \\ 100=2.01 \\ \text { rounds } \\ \text { down to } \\ 2.00 \text { oz } \end{array}$ | $216.48 \div 4$ <br> $=54.12$ cups <br> $54.12 \div 100$ <br> $=0.54$ cup <br> rounds down to <br> 0.50 (1/2) cup | $\begin{aligned} & 100.70 \div \\ & 100=1.00 \\ & \text { serving } \\ & \text { (in this case } \\ & 1 \mathrm{G} / \mathrm{B} \\ & \text { serving } \\ & =1 / 2 \text { cup) } \end{aligned}$ |
| This Recipe provides 100 portions. |  | Each Portion Contributes |  | $\left\|\begin{array}{c} \mathbf{2 . 0 0 ~ o z} \\ \text { meat/meat } \\ \text { alternates } \end{array}\right\|$ | $\begin{aligned} & \hline 1 / 2 \text { cup } \\ & \text { vegetables/ } \\ & \text { fruits } \end{aligned}$ | 1 serving grains/ breads |

[^60]
## Completed Recipe Analysis Worksheet-Child Care (25 Portions)

 FIGURE 3
## Recipe Name: Beef and Spaghetti Casserole <br> Portions per Recipe: $\underline{25}$ <br> (Modified USDA Recipe \#D-22)

| Ingredients (1) | Quantity of Ingredient As Purchased (number of purchase units) (2) | Purchase Unit (3) | Servings per Purchase Unit in Food Buying Guide (4) | Meat/ Meat Alternates (ounces) (5) = (2) $X(4)$ | Vegetables/ Fruits (1/4 cup) (6) $=$ <br> (2) $X$ (4) | Grains/ <br> Breads (servings) <br> (7) $=$ <br> (2) $X(4)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ground beef, (no more than 20\% fat)* | $\begin{aligned} & 3.25 \mathrm{lb} \\ & (3 \mathrm{lb} 4 \mathrm{oz}) \end{aligned}$ | Pound | $\begin{aligned} & 11.8 \\ & \text { (for } 1 \text { oz serv) } \end{aligned}$ | 38.35 |  |  |
| Onions, fresh, as purchased (to provide 0.34 lb chopped) | $\begin{aligned} & 0.43 \mathrm{lb} \\ & (7 \mathrm{oz}) \end{aligned}$ | Pound | $\begin{aligned} & 7.90 \\ & \text { (for } 1 / 4 \mathrm{c} \text { serv) } \end{aligned}$ |  | 3.39 |  |
| Tomato paste | $\begin{aligned} & 1.12 \mathrm{lb} \\ & (1 \mathrm{lb} 2 \mathrm{oz}) \end{aligned}$ | Pound | $27.6$ <br> (for 1 Tbsp) |  | 30.91 |  |
| Spaghetti, dry ${ }^{3}$ broken in quarters | $\begin{aligned} & 1.25 \mathrm{lb} \\ & (1 \mathrm{lb} 4 \mathrm{oz}) \end{aligned}$ | Pound | $\begin{aligned} & 10.6 \\ & \text { (for } 1 / 4 \mathrm{c} \text { serv) } \end{aligned}$ |  |  | 13.25 |
| * the use of 20\% fat ground beef is a modification to the original USDA recipe \# D-22. |  |  |  |  |  |  |
| Notes: <br> - oz to lb conversion chart is on page I-36 <br> - remember to convert ready-to-use products to their "as purchased" amount (see examples in Method 1, pages I-51 through I-59) the values for Columns 5, 6, \& 7 are found by multiplying the value in Column 2 by the value in Column 4. remember to divide the total $1 / 4$ cup servings of vegetables/fruits by 4 to get the cups of fruit. grains/breads in portions of a cup: convert all needed servings into the same portion of a cup and use the corresponding yield data for that same size grains/breads in numbers of servings: use the yield data provided for 1 grains/breads serving |  |  | Totals | 38.35 | 34.30 (1/4 c) | 13.25 |
|  |  |  | Portions per Recipe | 25 | 25 | 25 |
|  |  |  | Calculations | $\begin{aligned} & 38.35 \div \\ & 25=1.53 \\ & \text { rounds } \\ & \text { down to } \\ & 1.50 \text { oz } \end{aligned}$ | $\begin{aligned} & 34.30 \div 4 \\ & =8.57 \text { cups } \\ & 8.57 \div 25 \\ & =0.34 \text { cup } \\ & \text { rounds down to } \\ & 0.25 \text { (or } 1 / 4 \text { ) } \\ & \text { cup } \end{aligned}$ | $\begin{aligned} & 13.25 \div \\ & 25=0.53 \end{aligned}$ <br> rounds <br> down to <br> 0.50 (1/2) <br> serving ${ }^{3}$ <br> (in this <br> case <br> $1 / 2 \mathrm{G} / \mathrm{B}$ <br> serving <br> = $1 / 4$ cup ) |
| This Recipe provides 25 portions. |  | Each Portion Contributes |  | $\begin{array}{\|c\|} \hline \mathbf{1 . 5 0} \mathbf{0 z} \\ \text { meat/meat } \\ \text { alternates } \end{array}$ | 1/4 cup vegetables/ fruits | 1/2 serving grains/ breads |

${ }^{3}$ According to Exhibit A (see pages 3-15 \& 3-16), $1 / 2$ cup of cooked pasta is equivalent to 1 (one) grains/breads serving. The yield data for the pasta used in this example corresponds to $1 / 2$ cup servings, therefore, the answer is in units of $1 / 2$ cup servings (1 grains/breads serving). Since one grains/breads serving is $1 / 2$ cup, half of that is equal to $1 / 4$ cup of cooked pasta.

## Portions per Recipe: 50

## (Modified USDA Recipe \#D-14)

| Ingredients (1) | Quantity of Ingredient As Purchased (number of purchase units) (2) | Purchase Unit <br> (3) | Servings per Purchase Unit in Food Buying Guide <br> (4) | Meat/ Alternates (ounces) (5) = (2) $X(4)$ | $\begin{gathered} \text { Vegetables/ } \\ \text { Fruits } \\ \text { (1/4 cup) } \\ \text { (6) }= \\ (2) X(4) \\ \hline \end{gathered}$ | Grains/ <br> Breads (servings) (7) $=$ <br> (2) $X(4)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Boneless Beef for stewing, 1-inch cubes | $\begin{aligned} & 11.63 \mathrm{lb} \\ & (11 \mathrm{lb} 10.1 \mathrm{oz}) \end{aligned}$ | Pound | 9.76 <br> (for 1 oz serv) | 113.50 |  |  |
| Onions, whole, fresh (to provide 1 lb quartered, peeled) | $\begin{aligned} & 1.16 \mathrm{lb} \\ & (1 \mathrm{lb} 2.6 \mathrm{oz}) \end{aligned}$ | Pound | $\begin{aligned} & 7.90 \\ & \text { (for } 1 / 4 \mathrm{c} \text { serv) } \end{aligned}$ |  | 9.16 |  |
| Carrots, sliced, canned (to provide 2 lb 11 oz drained) | $\begin{aligned} & 0.66(2 / 3) \text { of a } \\ & \text { No. } 10 \text { can } \end{aligned}$ | No. 10 can (105 oz) | 37.2 <br> (for $1 / 4 \mathrm{c}$ serv) |  | 24.55 |  |
| Potatoes, whole, small, canned (to provide 3 lb 6 oz drained) | $0.75(3 / 4) \text { of a }$ <br> No. 10 can | No. 10 can (102 oz) | $\begin{aligned} & 43.7 \\ & \text { (for } 1 / 4 \text { c serv) } \end{aligned}$ |  | 32.77 |  |
| Peas, green, frozen <br> *The change to frozen peas from canned peas is a modification to the original USDA recipe \# D-14. | 4 lb | Pound | $\begin{aligned} & 9.59 \\ & \text { (for } 1 / 4 \mathrm{c} \text { serv) } \end{aligned}$ |  | 38.36 |  |
| Notes: <br> - oz to lb conversion chart is on page I-36 <br> - remember to convert ready-to-use products to their "as purchased" amount (see examples in Method 1, pages I-51 through I-59) the values for Columns 5, 6, \& 7 are found by multiplying the value in Column 2 by the value in Column 4. <br> remember to divide the total $1 / 4$ cup servings of vegetables/fruits by 4 to get the cups of fruit. <br> - grains/breads in portions of a cup: convert all needed servings into the same portion of a cup and use the corresponding yield data for that same size <br> grains/breads in numbers of servings: use the yield data provided for 1 grains/breads serving |  |  | Totals | 113.50 | 104.84 (1/4 c) | 0.0 |
|  |  |  | Portions per Recipe | 50 | 50 | 50 |
|  |  |  | Calculations | $\begin{array}{\|l\|} 113.50 \div \\ 50=2.27 \\ o z \\ \text { rounds } \\ \text { down to } \\ 2.25 ~ o z ~ \end{array}$ | $\begin{aligned} & 104.84 \div 4 \\ & =26.21 ; 26.21 \\ & \div 50=0.52 \\ & \text { rounds down to } \\ & 0.50(1 / 2) \end{aligned}$ |  |
| This Recipe provides 50 portions. |  | Each Portion Contributes |  | $\begin{gathered} \mathbf{2 . 2 5} \mathbf{~ o z} \\ \text { meat/ } \mathrm{c} \text { eat } \\ \text { alternates } \end{gathered}$ | $\begin{aligned} & \hline 1 / 2 \text { cup } \\ & \text { vegetables/ } \\ & \text { fruits } \end{aligned}$ | 0.00 <br> grains/ breads |

## Completed Recipe Analysis Worksheet-School Breakfast (100 Portions) FIGURE 5

Recipe Name: Cooked Oatmeal with Raisins and Crunchy Wheat Germ Portions per Recipe: 100

| Ingredients <br> (1) | Quantity of Ingredient As Purchased (number of purchase units) (2) | Purchase Unit (3) | Servings per Purchase Unit in Food Buying Guide (4) | Meat/ Meat Alternates (ounces) (5) = (2) $X(4)$ | $\begin{gathered} \text { Vegetables/ } \\ \text { Fruits } \\ (\mathbf{1} / \mathbf{4} \text { cup) } \\ (6)= \\ (2) X(4) \\ \hline \end{gathered}$ | Grains/ Breads (servings) (7) = <br> (2) $X$ (4) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regular rolled oats (dry) ${ }^{4}$ (includes USDA Commodity) | $\begin{aligned} & 4.50 \mathrm{lb} \\ & (4 \mathrm{lb} 8 \mathrm{oz}) \end{aligned}$ | Pound | 15.1 <br> (for 3/4 c serv) |  |  | 67.95 |
| Wheat germ, dry | $\begin{aligned} & 2.50 \mathrm{lb} \\ & (2 \mathrm{lb} 8 \mathrm{oz}) \end{aligned}$ | Pound | $\begin{aligned} & 13.0 \\ & \text { (for } 1 \text { oz serv) } \end{aligned}$ |  |  | 32.50 |
| Raisins | $\begin{aligned} & 4.75 \mathrm{lb} \\ & (4 \mathrm{lb} 12 \mathrm{oz}) \end{aligned}$ | Pound | $\begin{aligned} & 21.4 \\ & \text { (for } 1 / 4 \mathrm{c} \text { serv) } \end{aligned}$ |  | 101.65 |  |
| Notes: <br> - oz to lb conversion chart is on page I-36 <br> - remember to convert ready-to-use products to their "as purchased" amount (see examples in Method 1, pages I-51 through I-59) the values for Columns 5, 6, \& 7 are found by multiplying the value in Column 2 by the value in Column 4. <br> remember to divide the total $1 / 4$ cup servings of vegetables/fruits by 4 to get the cups of fruit. <br> - grains/breads in portions of a cup: convert all needed servings into the same portion of a cup and use the corresponding yield data for that same size <br> grains/breads in numbers of servings: use the yield data provided for 1 grains/breads serving |  |  | Totals | 0.00 | 101.65 (1/4 c) | 100.45 |
|  |  |  | Portions per Recipe | 100 | 100 | 100 |
|  |  |  | Calculations |  | $\begin{aligned} & 101.65 \div 4 \\ & =25.41 ; 25.41 \\ & \div 100=0.25 \\ & =1 / 4 \text { cup } \end{aligned}$ | $\begin{aligned} & 100.45 \\ & \div 100= \\ & 1.00^{4} \\ & \\ & \text { (in this } \\ & \text { case } \\ & 1 \mathrm{G} / \mathrm{B} \\ & \text { serving }= \\ & 3 / 4 \text { cup } \\ & \text { cooked and } \\ & 1 \text { oz dry } \\ & \text { cereal) } \end{aligned}$ |
| This Recipe provides 100 portions. |  | Each Portion Contributes |  | $\begin{gathered} \mathbf{0 . 0 0} \mathbf{0 z} \\ \text { meat/meat } \\ \text { alternates } \end{gathered}$ | 1/4 cup vegetables/ fruits | 1 serving grains/ breads |

[^61]Food Buying Guide for Child Nutrition Programs

## D <br> Using Column 6 for Recipe Analysis

# Using Column 6 for Recipe Analysis 

Determining the number of servings, for crediting purposes, obtained from a particular food using Column 6, "Additional Yield Information."

## Recipe Analysis for Apple Crisp

A recipe for 100 servings of apple crisp calls for $\mathbf{1 2 . 5}$ pounds of fresh, sliced, cored, peeled apples. You want to know the number of $1 / 4$ cup servings of fruit (for crediting purposes) you will obtain from one portion of the apple crisp.

STEP 1: Calculate the number of pounds of
 apples as purchased (whole) you will need to obtain 12.5 pounds raw, sliced, pared ready-to-cook apples:

For Apples, fresh, 125 count (AP) served as raw, pared fruit (see page 2-7), Column 6 reads:
$1 \mathrm{lb} \mathrm{AP}=0.78 \mathrm{lb}$ ready-to-cook or -serve raw, cored, peeled
You calculate as follows:
12.5 lb divided by $0.78 \mathrm{lb}=16.02 \mathrm{lb}$ (do not round up)

STEP 2: Multiply this calculated AP quantity by servings per purchase unit (from Column 3) for the form of the food as served (from Column 4).

Since you are serving the apples cooked, you look in Column 4 for this form of the food. The appropriate line in Column 4 reads:

1/4 cup cooked, pared, unsweetened fruit
You look in Column 3 to find the appropriate number of servings per purchase unit.

Column 3 reads: 6.80

Multiply the number of servings per purchase unit by the number of pounds calculated in STEP 1:
6.80 multiplied by $16.02=108.93$

This tells you the total number of 1/4 cup servings of fruit (for crediting purposes) you will obtain from all of the apples used in the recipe.

STEP 3: Divide the total number of $1 / 4$ cup servings obtained in STEP 2 by the number of portions the recipe yields and round down to get the creditable vegetable/fruit servings in one portion.
108.93 divided by $100=1.08$
rounded down to 1.0 (one)- $1 / 4$ cup serving of the vegetable/fruit component per portion.

Note: at STEP 3, the answer will be in units of 1/4 cup. Therefore,
an answer of: $\quad 2.00=1 / 2 \mathrm{cup}$

$$
1.50=3 / 8 \text { cup }
$$

$$
1.00=1 / 4 \text { cup }
$$

$$
0.50=1 / 8 \text { cup }
$$

ANSWER: For crediting purposes, each portion of apple crisp will provide a $1 / 4$ cup serving of the vegetable/fruit component for the meal pattern requirements.

Note: Always round down after determining the creditable amount of a meal pattern component. This is to ensure that each portion served will provide the minimum contribution towards meal pattern requirements. When rounding down, sometimes there may be a little bit more credit than what is claimed. It is necessary to round down so that there will never be less credit than what is claimed. (Keep in mind, when calculating how much food to purchase you would not round down, but would round up.)

## The USDA Child Nutrition Labeling Program

## The USDA Child Nutrition Labeling Program

## Common Questions

## What is the Child Nutrition Labeling Program?

The Child Nutrition (CN) Labeling Program is a voluntary Federal labeling program for the Child Nutrition Programs.

## Does the CN Labeling Program apply to all food-based menu planning approaches?

The CN Labeling Program applies to both Traditional and Enhanced FoodBased Menu Planning approaches for schools. It also applies to meal patterns in the Child and Adult Care Food Program and Summer Food Service Program. This is because a CN label on a food product shows how the product contributes toward food-based meal pattern requirements.

CN Labeling does not apply to Nutrient Standard Menu Planning (NSMP) or Assisted NSMP because these menu planning approaches do not use meal patterns as planning tools. However, CN labeled products may be purchased for meals planned with NSMP or Assisted NSMP because they help define a product.

## Who runs the program?

The CN Labeling Program is run by the Food and Nutrition Service (FNS) of the U.S. Department of Agriculture (USDA) in cooperation with the following agencies:

Food Safety and Inspection Service (FSIS);
Agriculture Marketing Service (AMS); and
National Marine Fisheries Service (NMFS).
The program is operated by FNS. Commercial food processing firms submit CN label applications to FNS for approval.

## How does the program work?

The program requires an evaluation of a product's formulation by FNS to determine its contribution toward meal pattern requirements. Once approved, it allows manufacturers to state this contribution on their labels. The program provides Child Nutrition program operators a warranty against audit claims for CN labeled products if the product is used according to the manufacturers directions as printed on the approved CN label.

## What products are eligible for CN labels?

Main dish products which contribute to the Meat/Meat Alternates component of the meal pattern requirements. Examples include beef patties, cheese or meat pizzas, meat or cheese and bean burritos, egg rolls, and breaded fish portions.
Juice and juice drink products containing at least 50 percent full-strength juice by volume. This includes such products as grape drink, fruit punch, frozen juice drink bars, and sherbet.

To carry CN labels, eligible products must:
have the contribution of the food component(s) determined using yields in the USDA's Food Buying Guide for Cbild Nutrition Programs;
have the product formulation and CN label approved by FNS; and
be produced under inspection.

## Are manufacturers required to CN label products?

There is no Federal requirement that anyone manufacture or purchase CN labeled products. Purchasing decisions are left to the local level. If a CN labeled product is desired, this must be clearly stated in purchasing specifications.

## What are the advantages of using CN labeled products?

A CN label statement clearly identifies the contribution of a product toward the meal pattern requirements, and it protects you from exaggerated claims about a product.

A CN label provides a warranty against audit claims if the CN labeled product is used according to the manufacturer's directions.

A CN label simplifies cost comparison of similar products.

## Do CN labeled products cost more than non-CN labeled products?

CN labeled products may cost more. Special labeling requirements, inspection costs, and extra staff costs to monitor quality control may be contributing factors in CN labeled products costing more than a similar non-CN labeled product. Keep in mind that cost comparison between two meat products should be based on the cost per serving of the specified contribution to the meal pattern requirements, not on the product cost per ounce or pound.

## How do I identify a CN labeled product?

A CN labeled product will always contain the following:
the CN logo, which is a distinct border;
the meal pattern contribution statement;
a unique 6 -digit product identification number (assigned by FNS) appearing in the upper right hand corner of the CN logo;
the USDA/FNS authorization statement;
the month and year of final FNS approval appearing at the end of the authorization statement;
plus the remaining required label features: product name, inspection legend, ingredient statement, signature/address line, and net weight.

## A sample CN logo:

| This 2.31 oz fully cooked Beef Patty with Textured Soy Flour provides |
| :--- | :--- |
| CN 2.00 oz equivalent meat/meat alternate for the Child Nutrition Meal |
| Pattern Requirements. (Use of this logo and statement authorized by <br> the Food and Nutrition Service, USDA XX-XX**) |
| CN CN identification number |
| Note: The X's in the sample CN logo are only used to demonstrate |
| the placement of the CN identification number and the final date. |
| If you receive a CN labeled product containing all X's (or other |
| non-number symbols) or all zeroes as the CN identification num- |
| ber, that label is not a valid CN label. If a CN label is not valid, |
| FNS cannot provide a warranty for its use towards meal pattern |
| requirements. |

Are CN labeled products more nutritious than similar non-CN labeled products?

No. A CN label does not indicate that the CN product is healthier or more nutritious than a similar non-CN labeled product. The CN credit statement declares the quantities of the creditable food item(s) in a processed food. The quantity of creditable food is used to meet the meal pattern requirements.

## Are CN labeled products of a higher quality than non-CN labeled products?

No. While a CN labeled product is guaranteed to contain a certain quantity of food, it does not indicate that the quality of the food is any different than a nonCN labeled food. Neither does it mean the foods are safer to eat or free of pathogens or allergens.

## For more information:

For additional information about the CN Labeling Program, contact:
U.S. Department of Agriculture

Food and Nutrition Service
Child Nutrition Division
3101 Park Center Drive - Room 632
Alexandria, Virginia 22302
Phone: (703) 305-2609

Food Items for Further Processing

The yield data for foods in sections $1-5$ of this guide represent foods that are commonly purchased at the program level. Items presented in this section are intended to be used by industry for further processing. The yield information provided here may also be used in the CN Labeling Program. This information is being provided so that Child Nutrition Program operators are aware of the yields for food items that industry uses for determining the credit of foods for meal pattern requirements. Even though a program may never purchase these items directly, it is important for all programs to have information that will allow them to verify that the processed food items they purchase are credited in a manner consistent with program requirements.

## Food Buying Guide for Child Nutrition Programs Appendix C Food Items for Further Processing

Food Items for Further Processing

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP |
| :--- | :--- | :--- |


| Serving Size per <br> Meal Contribution | 5 Purchase <br> Units <br> for 100 <br> Servings |
| :--- | :--- |

Additional Information

BEEF, LEAN FINELY TEXTURED (LFTB)

| Beef, fresh or frozen Lean finely textured beef (LFTB) | Pound | 12.9 | 1 oz cooked lean meat | 7.8 | 1 lb AP $=0.81 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Raw | Pound | 8.64 | 1-1/2 oz cooked lean meat | 11.6 |  |

## CHICKEN, MECHANICALLY or HAND SEPARATED

| Chicken, fresh or <br> frozen <br> Mechanically or <br> Hand separated <br> Raw | Pound | 11.2 | 1 oz cooked poultry | 9.0 | $1 \mathrm{lb} \mathrm{AP}=0.70 \mathrm{lb}$ cooked <br> poultry |
| :--- | :--- | :--- | :--- | :--- | :--- |

## PORK, LEAN FINELY TEXTURED (LFTP)

| Pork, fresh or frozen Lean finely textured pork (LFTP) Raw | Pound | 12.9 | 1 oz cooked lean meat | 7.8 | 1 lb AP $=0.81 \mathrm{lb}$ cooked lean meat |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pound | 8.64 | 1-1/2 oz cooked lean meat | 11.6 |  |
| SEAFOOD |  |  |  |  |  |
| Seafood, frozen <br> Fish fillet block Raw | Pound | 12.4 | 1 oz cooked fish | 8.1 | $1 \mathrm{lb} \mathrm{AP}=0.78 \mathrm{lb}$ cooked fish |
|  | Pound | 8.32 | 1-1/2 oz cooked fish | 12.1 |  |
| Seafood, frozen Minced fish block Raw | Pound | 12.0 | 1 oz cooked fish | 8.4 | 1 lb AP $=0.75 \mathrm{lb}$ cooked minced fish |
|  | Pound | 8.00 | 1-1/2 oz cooked fish | 12.5 |  |
| Seafood, frozen <br> Shrimp <br> Minced <br> Raw | Pound | 9.28 | 1 oz cooked fish | 10.8 | 1 lb AP $=0.58 \mathrm{lb}$ cooked cooked minced shrimp |
|  | Pound | 6.18 | 1-1/2 oz cooked fish | 16.2 |  |
| Seafood, frozen Squid meat block Rings and Tentacles Raw | Pound | 11.6 | 1 oz cooked fish | 8.7 | 1 lb AP $=0.73 \mathrm{lb}$ cooked squid meat |
|  | Pound | 7.78 | 1-1/2 oz cooked fish | 12.9 |  |

Food Items for Further Processing

| 1Food As <br> Purchased, AP | 2Purchase <br> Unit | Servings <br> per <br> Purchase <br> Unit, EP | Serving Size per <br> Meal Contribution | Purchase <br> Units <br> for 100 <br> Servings | Additional <br> Information |
| :--- | :--- | :--- | :--- | :--- | :--- |

## TOMATO PASTE

| Tomato Paste, canned ${ }^{1}$ Medium $28 \%$ or more, but less than 32\% Natural Tomato Soluble Solids (NTSS) | Pound | 32.2 | 1 tablespoon paste (1/4 cup vegetable) | 3.2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tomato Paste, canned ${ }^{1}$ <br> Heavy <br> $32 \%$ or more, but less than 39.3\% Natural Tomato Soluble Solids (NTSS) | Pound | 36.8 | 1 tablespoon paste ( $1 / 4$ cup vegetable) | 2.8 |  |
| Tomato Paste, canned ${ }^{1}$ <br> Extra Heavy <br> 39.3\% or more <br> Natural Tomato <br> Soluble Solids <br> (NTSS) | Pound | 45.1 | 1 tablespoon paste (1/4 cup vegetable) | 2.3 |  |
| TURKEY, MECHANICALLY or HAND SEPARATED |  |  |  |  |  |
| Turkey, fresh or frozen Mechanically or Hand separated Raw | Pound | 11.2 | 1 oz cooked poultry | 9.0 | 1 lb AP $=0.70 \mathrm{lb}$ cooked poultry |
|  | Pound | 7.46 | 1-1/2 oz cooked poultry | 13.5 |  |

${ }^{1}$ If the percentage of Natural Tomato Soluble Solids (NTSS) is not specified for the brand of tomato paste you are using - use the yield data for tomato paste light, 24-28 percent NTSS found on page 2-83.

## Food Purchasing: A Summary of First Choice and Choice Plus

## The Purchasing Process: A Summary of First Choice and Choice Plus

The Food Buying Guide (FBG) for Cbild Nutrition Programs is designed to help you determine how much food to buy and prepare to ensure that the meals you serve under the Child Nutrition Programs (CNP) meet program requirements. However, in addition to knowing how much food to buy, the purchasing process involves a methodical, step-by-step process beginning with menu planning and ending with the meal service. The tasks are the same whether purchasing for the private or public sectors. Regardless of the setting in which you operate, all of the steps must be completed by someone in the organization. You may operate a single site with no support from a central administrative office or work in a larger school district where tasks are divided among several staff persons.

The Food and Nutrition Service encourages you to learn as much as you can about the purchasing process by consulting two (2) publications available from the National Food Service Management Institute.

The first publication, First Choice: A Purchasing Systems Manual for School Food Service Publication number EX 59-02, covers the management of the entire purchasing process in 14 Chapters, and includes appendices with sample forms, reference materials and a glossary. Topics include:ethics of purchasing and the expenditure of public funds;
the marketplace environment, its language, relationships and food distribution chain;
regulations governing labeling, standards, grading, inspection, imports, and antitrust;
product movement and warehousing, inventory control and various menu systems;
pricing, pre-bid conferences, pricing requests, and bid opening/awards;

- determination of bid units to control cost per serving;
developing product specifications and the use of "approved brands";
$\square$
researching and selecting a purchasing system;
- monitoring costs;
- laboratory product testing;
receiving and quality control procedures; and purchasing cooperatives.
The second publication, Choice Plus: A Reference Guide for Foods and Ingredients Publication number FCS-297, is more narrowly focused than First Choice. The Choice Plus Manual:
- concentrates on food and ingredient specifications/product sheets for a wide variety of products;
- helps you develop clear specifications and make more informed decisions when purchasing products commonly served in the Child Nutrition Programs; provides tips on buying fresh, canned and frozen fruits and vegetables; and
- includes several appendices that include information about food laws, standards and regulations, resources, and the Nutrition Facts panel.

Both of these publications contain information that may change frequently based on changing purchasing specifications and on a changing marketplace. To order the most recent version of one or both of these publications, contact the National Food Service Management Institute, University of Mississippi:

Phone: 800-321-3054
Fax: 800-321-3061
E-mail: nfsmi@olemiss.edu Internet: www.nfsmi.org Order \# FCS-297 (Choice Plus) Order \# EX 59-02 (First Choice)


## Resources

E-1 Program and Technical Resources
E-2 Nutrition Resources
E-3 Food Safety Resources
E-4 Food and Nutrition Service Regional Offices

## Resources



Information on program requirements, nutrition guidance, food labeling, food safety, and other food, nutrition, health issues, and educational resources are available from Federal Government Web sites.

Program and Technical Resources

## Child Nutrition Division/USDA

3101 Park Center Drive, Room 638
Alexandria, VA 22302
(703) 305-2590

Web site: www.fns.usda.gov/cnd

## Food Distribution Division/USDA

3101 Park Center Drive, 5th Floor
Alexandria, VA 22302
(703) 305-2888

Web site: www.fns.usda.gov/fdd

## Agricultural Marketing Service (AMS)/USDA

1400 Independence Avenue, SW
Washington, DC 20250
(202) 720-8732

Web site: www.ams.usda.gov

## Nutrient Database for Standard Reference

Nutrient Data Laboratory
Agricultural Research Service/USDA
10300 Baltimore Avenue
Building 005, Room 107, BARC-West
Beltsville, MD 20705
(301) 504-0630

Web site: www.ars.usda.gov/ba/bhnrc/ndl

## Food and Drug Administration

Center for Food Safety and Applied Nutrition
5100 Paint Branch Road,
College Park, MD 20740-3835
For food labeling information:
Web site: www.cfsan.fda.gov

## MyPyramid

Web site: MyPyramid.gov

## Nutrition.gov

Easy access to nutrition and health
Web sites from across the Federal government
Web site: www.nutrition.gov

## Food and Nutrition Information Center

USDA/National Agricultural Library
Rm. 304, 10301 Baltimore Blvd.
Beltsville, MD 20705-2351
Tel: 301-504-5719 Fax: 301-504-6409
Educators can email information and
publication requests to fnic@ nal.usda.gov
Web site: http://fnic.nal.usda.gov

## Center for Nutrition Policy and Promotion/USDA

3101 Park Center Drive, Room 1034
Alexandria, VA 22302
(703) 305-7600

Web site: www.cnpp.usda.gov

## Food and Nutrition Service/USDA Team Nutrition

3101 Park Center Drive, Rm. 632
Alexandria, VA 22302
(703) 305-1624

Web site: teamnutrition.usda.gov

## Eat Smart. Play Hard. ${ }^{\text {TM }}$

3101 Park Center Drive, Rm. 1020
Alexandria, VA 22302
(703) 305-2154

Web site: www.fns.usda.gov/eatsmartplayhard

## Food Safety Resources

## Centers for Disease Control and Prevention (CDC), Division of Bacterial and Mycotic Diseases, Food Safety Initiative 1600 Clifton Road <br> Atlanta, GA 30333 <br> (404) 639-2213 <br> Web site: www.cdc.gov/foodsafety

## Food Safety and Inspection Service

1400 Independence Avenue, SW
Washington, DC 20250
(202) 720-8732

Web site: www.fsis.usda.gov

## Fight BAC! Keep Foods Safe From Bacteria ${ }^{\text {TM }}$

USDA' Meat and Poultry Hotline:
1-888-MPHotline or 1-888-674-6854
TTY: 1-800-256-7072
Email: mphotline.fsis@usda.gov
Web site: www.fightbac.org

## Food and Drug Administration (FDA)

5600 Fishers Lane
Rockville, MD 20857
1-800-INFO-FDA or 1-888-463-6332
Web site: www.fda.gov
FDA's Food Safety Information Hotline
1-888-SAFEFOOD or 1-888-723-3366

## Food Allergy \& Anaphylaxis Network

10400 Eaton Place, Suite 107
Fairfax, VA 22030-2208
(800) 929-4040 or (703) 691-3179

Web site: www.foodallergy.org

## Food and

 Nutrition Service Regional Offices| Mid-Atlantic Regional Office | Southeast Regional Office |
| :---: | :---: |
| Mercer Corporate Park | 61 Forsyth Street SW |
| 300 Corporate Boulevard | Room 8T36 |
| Robbinsville, NJ 08691-5128 | Atlanta, GA 30303-3415 |
| (609) 259-5050 | (404) 562-7099 |
| Delaware, District of Columbia, | Alabama, Florida, Georgia, Kentucky, |
| Maryland, Nerw Jersey, Pennsylvannia, | Mississippi, North Carolina, South |
| Puerto Rico, Virginia, Virgin Islands, West Virginia | Carolina, Tennessee |
| Midwest Regional Office | Southwest Regional Office |
| 77 West Jackson Boulevard | 1100 Commerce Street |
| 20th Floor | Room 5-C-30 |
| Chicago, IL 60604-3507 | Dallas, TX 75242-9980 |
| (312) 353-6673 | (214) 290-9814 |
| Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin | Arkansas, Louisiana, New Mexico, Oklahoma, Texas |
| Mountain Plains Regional Office | Western Regional Office |
| 1244 Speer Boulevard | 90 Seventh Street |
| Suite 903 | Suite 10-100 |
| Denver, CO 80204-3581 (303) 844-0354 | San Francisco, CA 94103 (415) 705-2229 |
| (303) 844 | (415) 705-2229 |
| Colorado, Iowa, Kansas, Missouri, Montana, Nebraska, North Dakota, South Dakota, Utah, Wyoming | Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon, Washington, Guam Trust Territories, Commonwealth of the Mariana Islands, American Samoa |
| Northeast Regional Office 10 Causeway Street <br> Room 501 <br> Boston, MA 02222-1065 <br> (617) 565-6426 |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Connecticut, Maine, Massachusetts, New |  |
| Hampshire, New York, Rhode Island, |  |
| Vermont |  |

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Use of commercial or trade names does not imply approval or constitute endorsement by the U.S. Department of Agriculture.
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[^0]:    ${ }^{1}$ Children age 12 and older may be served larger portions based on their greater food needs. They may not be served less than the minimum quantities listed in this column.
    ${ }^{2}$ Full strength vegetable and/or fruit juice or an equivalent quantity of any combination of vegetable(s), fruit(s), and juice.
    ${ }^{3}$ Grains/Breads must be enriched or whole-grain or made from whole-grain or enriched flour or meal that may include bran and/or germ. Cereal must be whole-grain or enriched or fortified.
    ${ }^{4}$ Either volume (cup) or weight (oz), whichever is less.
    ${ }^{5}$ A serving consists of the edible portion of cooked lean meat or poultry or fish.
    ${ }^{6}$ Alternate protein products must meet requirements in Appendix A of 7 CFR Part 226.
    ${ }^{7}$ Nuts and seeds are generally not recommended to be served to children ages $1-3$ since they present a choking hazard. If served, nuts and seeds should be finely minced.
    ${ }^{8}$ Yogurt may be plain or flavored, unsweetened, or sweetened - commercially prepared.
    ${ }^{9}$ Juice may not be served when milk is the only other component.

[^1]:    *To calculate the cost per pound if you only have the cost per can:

    1) Determine the number of pounds of food in one can, then
    2) Divide the cost per can by the number of pounds of food in one can.
[^2]:    ${ }^{1}$ Information about Alternate Protein Products (APP) can be found in 7 CFR Parts 210, 215, 220, 225 , and 226.

[^3]:    ${ }^{2}$ Dehydrated pinto beans are whole dry beans that have been cooked and then dehydrated.

[^4]:    ${ }^{3}$ Dehydrated refried beans are dry beans that have been cooked, mashed, and then dehydrated.

[^5]:    ${ }^{4}$ If you do not know the specific cut of beef chuck roast with bone you will purchase or have purchased, use the yield data given for "beef chuck roast, fresh or frozen, with bone, practically-free-of-fat" for a general purchasing yield. If possible, it is best to know the specific cut of meat you are purchasing and use the appropriate yield data that more accurately reflects the number of servings obtained for that particular cut of meat.
    ${ }^{5}$ If you do not know the specific cut of beef chuck roast without bone you will purchase or have purchased, use the yield data given for "beef chuck roast, fresh or frozen, without bone, practically-free-of-fat" for a general purchasing yield. If possible, it is best to know the specific cut of meat you are purchasing and use the appropriate yield data that more accurately reflects the number of servings obtained for that particular cut of meat.

[^6]:    ${ }^{4}$ If you do not know the specific cut of beef chuck roast with bone you will purchase or have purchased, use the yield data given for "beef chuck roast, fresh or frozen, with bone, practically-free-of-fat" for a general purchasing yield. If possible, it is best to know the specific cut of meat you are purchasing and use the appropriate yield data that more accurately reflects the number of servings obtained for that particular cut of meat.
    ${ }^{5}$ If you do not know the specific cut of beef chuck roast without bone you will purchase or have purchased, use the yield data given for "beef chuck roast, fresh or frozen, without bone, practically-free-of-fat" for a general purchasing yield. If possible, it is best to know the specific cut of meat you are purchasing and use the appropriate yield data that more accurately reflects the number of servings obtained for that particular cut of meat.

[^7]:    ${ }^{4}$ If you do not know the specific cut of beef chuck roast with bone you will purchase or have purchased, use the yield data given for "beef chuck roast, fresh or frozen, with bone, practically-free-of-fat" for a general purchasing yield. If possible, it is best to know the specific cut of meat you are purchasing and use the appropriate yield data that more accurately reflects the number of servings obtained for that particular cut of meat.
    ${ }^{5}$ If you do not know the specific cut of beef chuck roast without bone you will purchase or have purchased, use the yield data given for "beef chuck roast, fresh or frozen, without bone, practically-free-of-fat" for a general purchasing yield. If possible, it is best to know the specific cut of meat you are purchasing and use the appropriate yield data that more accurately reflects the number of servings obtained for that particular cut of meat.
    ${ }^{6}$ Ground Beef, Market Style (no more than 30 percent fat) is based on USDA, FSIS standard as published in the Code of Federal Regulations, Title 9, Part 319.15(a) chopped beef, ground beef.
    ${ }^{7}$ Ground Beef is based on USDA, FSIS standard as published in the Code of Federal Regulations, Title 9, Part 319.15(a) chopped beef, ground beef, but with maximum fat content as listed here.
    ${ }^{8}$ USDA recommends that the very young, the very old, and those with weakened immune systems not eat undercooked ground beef. To be sure all bacteria are destroyed, cook meat loaf, meat balls, casseroles, hamburgers, and other dishes containing ground beef to the temperature set by your local and State standards and check by using a thermometer.

[^8]:    ${ }^{7}$ Ground Beef is based on USDA, FSIS standard as published in the Code of Federal Regulations, Title 9, Part 319.15(a) chopped beef, ground beef, but with maximum fat content as listed here.
    ${ }^{8}$ USDA recommends that the very young, the very old, and those with weakened immune systems not eat undercooked ground beef. To be sure all bacteria are destroyed, cook meat loaf, meat balls, casseroles, hamburgers, and other dishes containing ground beef to the temperature set by your local and State standards and check by using a thermometer.

[^9]:    ${ }^{9}$ If you do not know the specific cut of beef round roast without bone you will purchase or have purchased, use the yield data given for "beef round roast, fresh or frozen, without bone, $1 / 4$-inch trim" for a general purchasing yield. If possible, it is best to know the specific cut of meat you are purchasing and use the appropriate yield data that more accurately reflects the number of servings obtained for that particular cut of meat.

[^10]:    ${ }^{9}$ If you do not know the specific cut of beef round roast without bone you will purchase or have purchased, use the yield data given for "beef round roast, fresh or frozen, without bone, $1 / 4$-inch trim" for a general purchasing yield. If possible, it is best to know the specific cut of meat you are purchasing and use the appropriate yield data that more accurately reflects the number of servings obtained for that particular cut of meat.

[^11]:    ${ }_{10}$ "Beef Special Trim" is beef trimmings where each piece has a surface area on one side not less than 8 square inches and no less than $1 / 2$-inch thick at any point.

[^12]:    ${ }^{11}$ Based on USDA specification for beef with natural juices, canned.
    ${ }^{12}$ Yield data is based on the Food Buying Guide yield for raw beef stew meat, practically-free-of-fat.
    ${ }^{13}$ Purchasers of these products will need to ensure that the name of the food on the product label exactly matches the "As Purchased" description in Column 1.

[^13]:    ${ }^{12}$ Yield data is based on the Food Buying Guide yield for raw beef stew meat, practically-free-of-fat.
    ${ }^{13}$ Purchasers of these products will need to ensure that the name of the food on the product label exactly matches the "As Purchased" description in Column 1.
    ${ }^{14}$ Any item labeled with the wording "imitation" cheese or cheese "product" does not meet the requirements for use in food-based menu planning approaches and are not creditable towards meal pattern requirements.
    ${ }^{15}$ Due to increased number of illnesses associated with Listeria monocytogenes, the Food and Drug Administration has advised pregnant women, the elderly, and persons with weakened immune systems to not eat soft cheese such as Feta, Brie, and Camembert cheeses, blue-veined cheeses, and Mexican-style cheese such as "queso blanco fresco."

[^14]:    ${ }^{14}$ Any item labeled with the wording "imitation" cheese or cheese "product" does not meet the requirements for use in food-based menu planning approaches and are not creditable towards meal pattern requirements.
    16 "Cheese Substitute," "cheese food substitute," and "cheese spread substitute" must meet the FDA standard of identity for substitute foods and be labeled as " $\qquad$ Cheese Substitute," "cheese food substitute," or "cheese spread substitute." The standard requires that a "cheese substitute" is not nutritionally inferior to the standardized cheese for which it is substituting.

[^15]:    ${ }^{14}$ Any item labeled with the wording "imitation" cheese or cheese "product" does not meet the requirements for use in food-based menu planning approaches and is not creditable towards meal pattern requirements.
    16 "Cheese Substitute," "cheese food substitute," and "cheese spread substitute" must meet the FDA Standard of Identity for substitute foods and be labeled as " $\qquad$ Cheese Substitute," "cheese food substitute," or "cheese spread substitute." The standard requires that a "cheese substitute" not be nutritionally inferior to the standardized cheese for which it is substituting.

[^16]:    ${ }^{17}$ If the average raw weights of the chicken parts are different from those stated, use the yield information in Column 6 to determine cooked weight.

[^17]:    ${ }^{17}$ If the average raw weights of the chicken parts are different from those stated, use the yield information in Column 6 to determine cooked weight.

[^18]:    ${ }^{17}$ If the average raw weights of the chicken parts are different from those stated, use the yield information in Column 6 to determine cooked weight.

[^19]:    ${ }^{17}$ If the average raw weights of the chicken parts are different from those stated, use the yield information in Column 6 to determine cooked weight.

[^20]:    ${ }^{17}$ If the average raw weights of the chicken parts are different from those stated, use the yield information in Column 6 to determine cooked weight.

[^21]:    ${ }^{17}$ If the average raw weights of the chicken parts are different from those stated, use the yield information in Column 6 to determine cooked weight.

[^22]:    ${ }^{18}$ Based on USDA Specification for Canned Boned Poultry.

[^23]:    ${ }^{19}$ Yield data is based on minimum percent meat as required by FSIS standard of identity regulations found in 9 CFR.
    ${ }^{20}$ Purchasers of theses products will need to ensure that the name of the food on the product label exactly matches the "As Purchased" description in Column 1.

[^24]:    ${ }^{21}$ For other sizes of eggs to use in place of large size eggs, multiply the number (or dozens or cases) of large eggs by a factor as follows: Extra large size, 0.87 ; medium size, 1.14 ; small size, 1.35 .
    ${ }^{22}$ The Food and Drug Administration (FDA) has issued a warning for the consumption of raw shell eggs. Susceptible populations such as young children, pregnant women, the elderly, and those with compromised immune systems should avoid eating raw, undercooked, or unpasteurized fresh eggs to avoid foodborne illness.
    ${ }^{23}$ Quantities are for dried whole eggs. For blends and specialty egg products, use CN-labeled product or manufacturer's documentation.
    ${ }^{24}$ Includes meat and poultry products. Yields are based on products that do not contain meat or poultry byproducts, cereals, binders or extenders, except to include those products containing Alternate Protein Products (APP) within the limits specified in 9 CFR 319.180(e) and meeting the requirements of Appendix A of 7 CFR 210, 220, 225 and 226. No other binders and extenders may be used in conjunction with the APP to receive the ounce per ounce crediting.
    ${ }^{25}$ Due to increased number of illnesses associated with Listeria monocytogenes and the consumption of unheated hot dogs and luncheon meats, the Food and Drug Administration has advised pregnant women, the elderly, and persons with weakened immune systems to not eat hot dogs or luncheon meats unless they are reheated until steaming hot.

[^25]:    ${ }^{24}$ Includes meat and poultry products. Yields are based on products that do not contain meat or poultry byproducts, cereals, binders or extenders, except to include those products containing Alternate Protein Products (APP) within the limits specified in 9 CFR 319.180(e) and meeting the requirements of Appendix A of 7 CFR 210, 220, 225 and 226. No other binders and extenders may be used in conjunction with the APP to receive the ounce per ounce crediting.
    ${ }^{25}$ Due to increased number of illnesses associated with Listeria monocytogenes and the consumption of unheated hot dogs and luncheon meats, the Food and Drug Administration has advised pregnant women, the elderly, and persons with weakened immune systems to not eat hot dogs or luncheon meats unless they are reheated until steaming hot.
    ${ }^{26}$ All "game" meat must be purchased from a USDA inspected establishment. Wild game is not allowed to be used in FNS Child Nutrition Programs.

[^26]:    ${ }^{27}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced.

[^27]:    ${ }^{27}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced.

[^28]:    $\overline{{ }^{28} \text { Ground Pork, Market Style (no more than } 30 \text { percent fat) is based on USDA standard as referenced in FSIS Policy Book. Must }}$ comply with Code of Federal Regulations, Title 9, Part 319.15(a).
    ${ }^{29}$ Ground Pork is based on USDA standard as referenced in FSIS Policy Book. Must comply with Code of Federal Regulations, Title 9, Part 319.15(a), but with maximum fat content as is listed here.

[^29]:    ${ }^{30}$ Fresh Pork Sausage, Market Style (no more than 50 percent trimmable fat) is based on USDA, FSIS standard as published in the Code of Federal Regulations, Title 9, Part 319.141 Fresh Pork Sausage.
    ${ }^{31}$ Sausage, Italian, products (total fat content no more than 35 percent). May be made with Pork, Beef, and/or Veal, based on USDA, FSIS standard as published in the Code of Federal Regulations, Title 9, Part 319.145.

[^30]:    ${ }^{32}$ Purchasers of these products will need to ensure that the name of the food on the product labels exactly matches the "As
    Purchased" description in Column 1.

[^31]:    ${ }^{32}$ Purchasers of these products will need to ensure that the name of the food on the product labels exactly matches the "As Purchased" description in Column 1.
    ${ }^{33}$ For products labeled "Ham and Water Products X\% of weight is added ingredients" to be properly utilized in Child Nutrition Programs, you should either 1) purchase a CN labeled product or 2) take out the percent of added water/ingredients by multiplying the finished weight by the percent added ingredients and then subtracting that amount from the finished weight, divide by the manufacturers cooking yield to obtain the raw weight of the product and then multiply by the Food Buying Guide yield for the specific cut of pork used to process the product.

[^32]:    ${ }^{32}$ Purchasers of these products will need to ensure that the name of the food on the product labels exactly matches the "As Purchased" description in Column 1.

[^33]:    ${ }^{32}$ Purchasers of these products will need to ensure that the name of the food on the product labels exactly matches the "As
    Purchased" description in Column 1.

[^34]:    ${ }^{34}$ The fish portions and fish sticks provided in this guide are made using compressed fish fillet block (labeled as fish) which provides 0.78 lb cooked fish from 1 lb frozen fish block whereas compressed minced fish (labeled as minced fish) obtains 0.75 lb cooked fish from 1 lb frozen minced fish block.
    ${ }^{35}$ There is no standard for this product. It is recommended that you use products with CN labels or specify "FISH PORTIONS, FROZEN, FRIED, BATTERED (45 PERCENT) FISH" and request a Certificate of Inspection from the processor.
    ${ }^{36}$ Fish Portions, Frozen, Fried, breaded is based on the National Oceanic and Atmospheric Administration's (NOAA) Fishery Products Inspection Manual 25 Part II Chapter 4, section 07 which specifies the product must contain a minimum of 65 percent fish.

[^35]:    ${ }^{34}$ The fish portions and fish sticks provided in this guide are made using compressed fish fillet block (labeled as fish) which provides 0.78 lb cooked fish from 1 lb frozen fish block whereas compressed minced fish (labeled as minced fish) obtains 0.75 lb cooked fish from 1 lb frozen minced fish block.
    ${ }^{37}$ Fish Portions, Frozen, Raw, Breaded is based on the NOAA's Fishery Products Inspection Manual 25 Part II Chapter 4, section 05 which specifies the product must contain a minimum of 75 percent fish.

[^36]:    ${ }^{34}$ The fish portions and fish sticks provided in this guide are made using compressed fish fillet block (labeled as fish) which provides 0.78 lb cooked fish from 1 lb frozen fish block whereas compressed minced fish (labeled as minced fish) obtains 0.75 lb cooked fish from 1 lb frozen minced fish block.
    ${ }^{38}$ Fish Sticks, Frozen, Fried, Breaded is based the National Oceanic and Atmospheric Administration's (NOAA) Fishery Products Inspection Manual 25 Part II Chapter 4, section 06 which specifies that the product must contain a minimum of 60 percent fish.

[^37]:    ${ }^{39}$ Nuts and seeds are generally not recommended to be served to children ages 1-3 since they present a choking hazard. If served, nuts and seeds should be finely minced.

[^38]:    ${ }^{40}$ Turkey Roast, USDA Commodity, frozen, is based on USDA Specification for Frozen Turkey Roast which contains a minimum of 92.5 percent turkey.

[^39]:    $\overline{{ }^{41} \text { Turkey ham is }}$ based on USDA, FSIS Standard as published in the Code of Federal Regulations, Title 9, Part 381.171.
    ${ }^{42}$ Yield data is based on minimum percent meat as required by FSIS standard of identity regulations found in 9 CFR.
    ${ }^{43}$ Purchasers of this product will need to ensure that the name of the food on the product label exactly matches the "As Purchased" description in Column 1.

[^40]:    ${ }^{42}$ Yield data is based on minimum percent meat as required by FSIS standard of identity regulations found in 9 CFR.
    ${ }^{43}$ Purchasers of this product will need to ensure that the name of the food on the product label exactly matches the "As Purchased" description in Column 1.

[^41]:    ${ }^{44}$ Creditable yogurt is defined in the Child Nutrition regulations under 7 CFR Parts 210.2, 220.2(bb), 226.2, and 225.2.

[^42]:    ${ }^{1}$ Note: Fried banana chips are not creditable towards meal pattern requirements.

[^43]:    ${ }^{2}$ Dehydrated pinto beans are whole beans that have been cooked and then dehydrated.

[^44]:    ${ }^{3}$ Due to the increasing number of illnesses associated with consumption of raw sprouts, the Food and Drug Administration has advised all consumers - especially children, pregnant women, the elderly, and persons with weakened immune systems - to not eat raw sprouts as a way to reduce the risk of foodborne illness. Therefore, raw sprout data served in the raw state has been intentionally omitted.

[^45]:    ${ }^{4}$ In response to Salmonella outbreaks associated with raw melon, the Food and Drug Administration has provided guidance for safe handling practices for melons that include washing the outer surface of the melon thoroughly with cool tap water to remove surface dirt.

[^46]:    ${ }^{4}$ In response to Salmonella outbreaks associated with raw melon, the Food and Drug Administration has provided guidance for safe handling practices for melons that include washing the outer surface of the melon thoroughly with cool tap water to remove surface dirt.

[^47]:    ${ }^{5}$ In response to Salmonella outbreaks associated with raw melon, the Food and Drug Administration has provided guidance for safe handling practices for melons that include washing the outer surface of the melon thoroughly with cool tap water to remove surface dirt.

[^48]:    ${ }^{6}$ According to the Food and Drug Administration, unpasteurized juice may contain harmful bacteria that may put children, pregnant women, the elderly, and persons with weakened immune systems at risk for serious illness or even death. Unpasteurized juice is normally found in the refrigerated section of grocery or health food stores or at cider mills or farm markets. Unpasteurized juice should have warning information on the label or on a nearby sign at the point of purchase. When serving juice, use only pasteurized juice. Pasteurized juice is normally found as frozen concentrated juice or in non-refrigerated shelf-stable containers, such as juice boxes, bottles, or cans. Pasteurized juice can also be found in the refrigerated sections of stores.
    ${ }^{7}$ The canned and frozen juices listed in Column 1 are usually available in the can sizes listed in Column 2.

[^49]:    ${ }^{8}$ Plum puree cannot count as fruit when it is used to replace fat in a food item.

[^50]:    ${ }^{9}$ Shaped, shredded potatoes available under brand names such as "Tater Tots" or "Tater Gems."

[^51]:    ${ }^{10}$ For salsa products that contain all vegetable ingredients plus a minor amount of spices or flavorings, one hundred percent of the product may be used to meet the volume vegetable/fruit requirement for meal pattern requirements. When products contain non-vegetable ingredients like gums, starches or stabilizers, water or vinegar, only that portion of the product that is a vegetable ingredient may be counted towards the volume requirement.

[^52]:    ${ }^{10}$ For salsa products that contain all vegetable ingredients plus a minor amount of spices or flavorings, one hundred percent of the product may be used to meet the volume vegetable/fruit requirement for meal pattern requirements. When products contain non-vegetable ingredients like gums, starches or stabilizers, water or vinegar, only that portion of the product that is a vegetable ingredient may be counted towards the volume requirement.

[^53]:    ${ }^{11}$ In response to Salmonella outbreaks associated with raw melon, the Food and Drug Administration has provided guidance for safe handling practices for melons that include washing the outer surface of the melon thoroughly with cool tap water to remove surface dirt.

[^54]:    ${ }^{1}$ At the time this instruction was written, the Agency name was Food and Consumer Service (FCS).

[^55]:    ${ }^{2}$ Creditable grains are enriched or whole-grain meal and/or flour, bran and/or germ.

[^56]:    ${ }^{3}$ The number of slices per purchase unit does not include the end slices

[^57]:    ${ }^{4}$ The yield for rice differs depending on how it is cooked. The yields provided in this guide represent the lower range of the average yield for each type of rice. If you consistently get a different yield for your cooking method, you may want to see pages I-3 \& I-4 of the introduction on how to establish in-house yield data in cooperation with your State agency.

[^58]:    ${ }^{4}$ The yield for rice differs depending on how it is cooked. The yields provided in this guide represent the lower range of the average yield for each type of rice. If you consistently get a different yield for your cooking method, you may want to see pages I-3 \& I-4 of the introduction on how to establish in-house yield data in cooperation with your State agency. ${ }^{5}$ Does not include popcorn cakes or popcorn in combination with other grains since popcorn is not creditable towards meal pattern requirements.

[^59]:    ${ }^{1}$ For either locally produced grains/breads items or for items not having yield data in the $F B G$ that only contribute towards the grains/breads component, see section 3 Grains/Breads, pages 3-8 through 3-16 for determining serving size for a creditable item instead of using this worksheet.

[^60]:    ${ }^{2}$ According to Exhibit A (see pages $3-15 \& 3-16$ ), 1/2 cup of cooked pasta is equivalent to 1 (one) grains/breads servings. The yield data for the pasta used in this example corresponds to $1 / 2$ cup servings, therefore the answer is in units of $1 / 2$ cup servings (1 grains/breads serving).

[^61]:    ${ }^{4}$ For the School Breakfast Program (SBP) Grades K-12, $3 / 4$ cup of cooked cereal grains and 1 oz dry wheat germ (a ready-to-eat cereal) are each equivalent to 1 (one) grains/breads serving. In this example, the yield data for the oats served cooked corresponds to a $3 / 4$ cup serving, and the yield data for dry wheat germ corresponds to a 1 ounce serving. Therefore, the answer is in 1 (one) grains/breads serving according to SBP requirements. For programs other than the SBP, 1 grains/bread serving for Group $H$ items is $1 / 2$ cup cooked as stated in Exhibit A (see pages 3-15 \& 3-16).

