# Saipan, Tinian \& Rota 

Food Choices for Healthful Living based on food group lists


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Nutrient analysis sources:
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Genesis R\&D, Esha Research Co. 4.62, 1996
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Food Composition Tables, New Zealand Institute for Crop and Food Research, 1994

The Food Group Lists are the basis of a meal planning system designed by the American Diabetes Association and The American Dietetic Association.

Disclaimer: The use of brand names does not imply endorsement. Nutrient value and exchange lists are based on current data and may be subject to change as new information becomes available.

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## Introduction

Diet is an important part of the treatment of many diseases including obesity, diabetes, heart disease and high blood pressure. The Saipan, Tinian and Rota Food Group Lists have been prepared to help you understand what food is made of so that a modified diet can be more easily followed.

## SAIPAN

Philippine Sea


## Principles of Good Nutrition

■ Maintain a healthy weight. Obesity increases your risk for diabetes, hypertension and coronary heart disease.

■ Eat a variety of foods.

■ Eat less fat.

## Eat more starches, especially those high in fiber.

Eating a variety of foods increase your chances of obtaining all the vitamins, minerals and nutrients your body needs.

Too much fat may cause heart and blood vessel disease. Avoid fried foods. Watch your portion sizes of all meat - it's easy to eat too much. Eat fewer high-fat foods such as canned meats, corned beef (from keg \& can), coconut milk, gravy, salad dressing, chicken/turkey wings and tails.

Starches are a good source of energy, vitamins, and minerals. Fiber in foods may help to lower blood-glucose and blood-fat levels. Most people should increase the amount of carbohydrate and fiber they eat. This can be done by eating more bula (swamp taro), giant taro, suni taro, yams, sweet potato, cassava, bananas, breadfruit, dried beans, and peas; more whole grain breads, cereals, and crackers; and more fruit and vegetables.

Sugar has only calories (energy) and no vitamins or minerals, and it increases the risk of dental cavities. Foods high in added sugar include desserts such as cakes and pies, sugary breakfast foods (such as
toaster pasteries and sugar coated cereals), cookies, candy, pastries, table sugar, honey, sweet drinks, and syrup. People with diabetes need to avoid these foods.

■ Eat less salt and sodium.

Many of us eat too much salt which consists of sodium and chloride. The sodium can cause the body to retain water, and in some people it may raise blood pressure. High blood pressure may be made worse by eating too much salt, ajinomoto, and sodium. Try to use less salt and soy sauce in cooking and at the table. Foods that are high in sodium, such as processed and convenience foods, are noted in this booklet with a special symbol $\boldsymbol{*}$.

Limit alcohol intake.
It is best to avoid alcohol altogether. If you like to have an alcoholic drink now and then, ask your physician or nutritionist how to work it into your meal plan.


## The Food Groups

To make it easier for you to follow your meal plan and to meet your nutritional needs, foods have been divided into six Food Groups.

The reason for dividing food into six different groups is that foods vary in their carbohydrate, protein, fat, and calorie content. Each group contains foods that are alike - each choice contains about the same amount of carbohydrate, protein, fat, and calories (energy).

The chart on the following page shows the amount of these nutrients in one serving from each Food Group.

As you read over the Food Group Lists, you will notice that some choices are for a larger amount of food than another choice from the same list. Because foods are so different, the measurement or weight for each food is set so the amount of carbohydrate, protein, fat, and calories (energy) are the same for each choice.

If you have a favorite food that is not included in any of these groups, ask your nutritionist about it. That food can probably be worked into your meal plan.


## Nutrient Content by Food Group



## Meal Plan by Calorie Content

Each calorie level can be divided into food groups to provide a well balanced meal plan. Calorie levels are based on individual needs and include specific number of servings from each of the food groups.

|  | $\mathbf{1 5 0 0}$ <br> calories | $\mathbf{2 0 0 0}$ <br> calories | $\mathbf{2 3 0 0}$ calories <br> (Pregnancy Exchanges) | $\mathbf{2 6 0 0}$ <br> calories |
| :--- | :---: | :---: | :---: | :---: |
| Protein/Meat Group |  |  |  |  |
| Lean (Meat A) <br> Medium-fat (Meat B) <br> $\quad$ High-fat (Meat C) | 2 | 3 | 4 | 5 |
| Starch Group | 2 | 3 | 3 | 3 |
| Vegetable Group | 1 | 1 | 1 | 2 |
| Fat Group | 7 | 9 | 10 | 11 |
| Fruit Group | 3 | 4 | 5 | 5 |
| Calcium/Milk Group | 3 | 4 | 5 | 6 |
| Coffee or tea, plain | 2 | 2 | 3 | 3 |

[^0]
## Meal Planning Using Food Groups

Your Meal Plan should include foods from each Food Group. The number of foods in each group is planned to provide you with a balanced diet to fit your needs.

## Calcium/Milk Group

The Calcium/Milk Group includes milk and milk products, tofu made with calcium, and fish with bones. These foods contain calories (energy), protein, calcium, vitamin A and several B vitamins.

## Vegetable Group

The Vegetable Group includes some vegetables high in vitamin A, vitamin C and fiber which are important to health. High vitamin A sources will be indicated with a $\sqrt{ }$ and high vitamin $C$ sources will be indicated with a + symbol in this booklet. A food source is considered high if over $50 \%$ of the Recommended Daily Allowances.

Fruit Group
The Fruit Group includes all kinds of fruit. Some fruits contain small amounts of vitamin C; some are excellent sources of vitamin C. Orange colored fruits, such as mango and papaya, also contain vitamin A.

## Starch Group

The Starch Group includes foods that provide carbohydrates in the form of starch. Rice, noodles, cereals, dried beans and peas, and local starchy vegetables such as taro, local tapioca, breadfruit, sweet potatoes, yams, cooking bananas and others are good sources of many B vitamins, and other vitamins and minerals. Whole grains are high in fiber.

## Meal Planning (Continued)

Protein/Meat Group

The Protein/Meat Group includes foods which provide protein, some fat, minerals and vitamins. This list includes meats, seafood, poultry, eggs, tofu, and cheese. Meat is a good source of iron.

Most meats you eat should be lean since fat contributes twice as many calories as protein or carbohydrate. Cut off all the visible fat before cooking. When cooking chicken, make sure you remove the skin. Bake, bar-b-que, broil, roast, stew or pan-fry without added fat. Discard the fat that comes out of the meat while cooking.

The kind of meat or other protein foods makes a difference. The Protein/ Meat Group has been divided into three lists: low, medium and high fat Protein/Meat Groups.

## Fat Group

The Fat Group include foods high in fats. There are two categories of fats: 1) Saturated Fats such as fats from animals and coconut palm oils; 2) Unsaturated Fats or liquid vegetable oils. Your doctor may want you to be on a "Fat Controlled" diet. This means that you control the kind of fat you use as well as the amount.


## Saipan, Tinian \& Rota Sample Menu

The following sample menus have been worked out to show you how to use your Meal Plan. The fat content has been reduced to provide approximately $21 \%$ of the total energy intake (calories in one day). The protein content is about $27 \%$ and carbohydrate content is $53 \%$ of the total energy. These sample menus are planned to meet the nutritional needs of adults and are not meant to be used for children.

Typical Day's Menu

| Breakfast | Dinner |  |  |
| :---: | :---: | :---: | :---: |
| 1 cup | $\begin{aligned} & \text { Medium grain white rice } \\ & \text { - cooked } \end{aligned}$ | 1 cup | $\begin{aligned} & \text { Beef stew meat - cooked - } \\ & \text { lean \& fat } \end{aligned}$ |
| 2 each | Large whole egg | 1/2 tbs | Cornstarch |
|  | -fried in margarine | 2 cup | Medium grain white rice |
| 1/4 cup | Green snap/string beans <br> - raw - cooked Fried <br> rice | 1 cup | - unenriched - cooked Sweet potato - peeled after |
| 1/4 cup | $\begin{aligned} & \text { Carrots - raw slices } \\ & \text { - cooked } \end{aligned}$ |  | baking - cup Apple danish pastry - |
| 4 oz-wt | Beef sausage, grill \& serve |  | unenriched (fruit) |
| $\begin{aligned} & \text { 1-1/2 cup or } \\ & 12 \text { oz-wt } \end{aligned}$ | Coffee, brewed | Analysis |  |
| 1 tbs | Powdered coffee whitener/ creamer | Kcalo Perce | carbohydrate................ 4482 |
| 1 tsp | White granulated sugar | Perce Perce | fat............................... $15 \%$ |
| Lunch |  | Fiber. | ........................ 19 g |
| 1/4 cup | $\begin{aligned} & \text { Cucumber slices w/peel } \\ & \text { Cabbage - shredded - raw } \end{aligned}$ | Calciu | .................... 451 mg |
| $1 / 4$ cup |  | Vitami | A..................... 63.110 mg |
| 1/4 cup | Carrots - raw - grated Salad | Vitami | C................... 124 mg |
| 4 pieces | Fresh tomato wedge | Folic | id .................. 198 mcg |
| 2 tbs | Oil \& vinegar dressing | Sodium | ................... 2905 mg |
| 2 cup | Medium grain white rice - unenriched - cooked | Choles | erol ................. 848 mg |
| 8 oz-wt | Ground beef - cooked - lean (fried medium) |  | nges: ch ........................... 28 ein/meat ............ 17 |
| 1 piece | Pie, apple, deep, baked - 1/6 pie |  | etable .................... 3.5 |
| 12 floz | Fruit flavored soda |  | t............................ 3 |
| 2 Oz | Titiyas (flat bread) |  | ium/milk .................... $\mathbf{0}$ |

Improved Day's Menu

| Breakfast | Dinner |  |  |
| :---: | :---: | :---: | :---: |
| 1 cup | Medium grain white rice - cooked | 6 oz-wt | Skinless chicken breast - roasted |
| 1 each | Large whole egg - fried in margarine | 1 cup | Sweet potato - peeled after baking |
| 1/4 cup | Green snap/string beans - raw - cooked | 1 each | Banana |
| 1/4 cup | Carrots - raw slices <br> - cooked |  |  |
| 1 oz-wt | Beef sausage, grill \& serve |  |  |
| 12 oz-wt | Coffee, brewed | Analysis |  |
| 2 tbs | Instant nonfat dry milk w/vitamin A | Kcalories ....................... 1979 |  |
| 2 tsp | White granulated sugar | Percent carbohydrate ......... 53\%Percent fat .................. 21\% |  |
| Lunch |  | Percent protein ................... 27\% |  |
| 1/4 cup | Cucumber slices w/peel | Fiber .............................. 20 g |  |
| 1 cup |  |  |  |
| 4 piece | Edible hibiscus, leaves, raw Fresh tomato wedge | Iron ............................. 25 mg |  |
| 2 tbs | LoCalorie Italian dressing | Vitamin A ................. 58,500 iu |  |
| 1 cup | Medium grain white rice - unenriched - cooked | Folic acid ....................... 505 mcg |  |
|  |  | Sodium .................... 1342 mg |  |
| 4 oz-wt | Raw tofu - regular w/calcium sulfate | Cholesterol ................. 492 mg |  |
| 4 oz-wt | Beef stew meat - cooked - lean only | Exchanges: <br> Starch <br> 10 |  |
|  |  |  | ein/meat ................. 10 |
|  |  |  | etable ..................... 3 |
| Snack |  |  |  |
| 12 floz | Diet cola | Calcium/milk .............. 1.5 |  |
| 1 each | Fresh papaya | Fat .............................. 1 |  |

## Meal Plan Form

You may want to divide your food for the day this way:
Meal Plan
Number of Servings
Food
Amount

## Breakfast:

Protein/Meat Group (A, B, or C)
Starch Group
Vegetable Group
Fat Group
Fruit Group
Calcium/Milk Group
Coffee or tea, plain

## Lunch:

Protein/Meat Group (A, B, or C)
Starch Group
Vegetable Group
Fat Group
Fruit Group
Calcium/Milk Group
Coffee or tea, plain

## Snack:

Protein/Meat Group (A, B, or C)
Starch Group
Vegetable Group
Fat Group
Fruit Group
Calcium/Milk Group
Coffee or tea, plain $\qquad$

## Dinner:

Protein/Meat Group (A, B, or C) Starch Group
Vegetable Group
Fat Group
Fruit Group
Calcium/Milk Group
Coffee or tea, plain $\qquad$
$\qquad$

## Snack:

Protein/Meat Group (A, B, or C)
Starch Group
Vegetable Group
Fat Group
Fruit Group
Calcium/Milk Group
Coffee or tea, plain $\qquad$
$\qquad$


## Measuring Your Foods

Measuring is a key to knowing how much food you eat. The measurement in ounces, inches, spoons, or cups is indicated for each food in the Food Groups.

You need a set of measuring cups which include a full 8-ounce cup, a half cup, a third of a cup and a quarter cup. You also need a teaspoon, a tablespoon, and a ruler to measure your meats.

All measurements are level. Do not heap or pack your cups or bowls. For example, to measure a level spoonful, fill your spoon, then run a knife edge across the spoon pushing off all the extra food. Measuring a level cupful would involve the same process.

A small food scale is also very helpful especially for measuring meats. Make sure the scale measures ounces accurately.

Measure your foods until you can train your eye to be accurate. Check all your measurements every once in a while to be sure you are correct.

Foods which are eaten cooked should be measured after they are cooked. Fat that is used in cooking must be counted as a fat serving. Frying adds a great deal of fat. For example, a breast of chicken which has been rolled in flour and fried may add 1 starch serving and 2 or more fat servings.

Measuring Technique for All Foods Requiring Utensils


Level Spoonful

## Meat Portion Guide

Study these sketches to help you estimate ounces of meat. They represent the actual size of a 3 ounce portion of cooked lean meat without bone. It is about the size of a deck of cards. If you are eating only 2 ounces (2 meat servings) decrease the portion size of meat accordingly.


## Calcium/Milk Group

One nonfat calcium/milk serving contains approximately 90 calories, 12 grams carbohydrates, 8 grams protein and a trace of fat.


## Starch Group

One starch serving contains approximately 80 calories, 15 grams of carbohydrate and 3 grams of protein.

| Food | Measure |  |
| :---: | :---: | :---: |
| Bread |  |  |
| Bagel | 1/2 |  |
| Bread (white, whole wheat, rye, raisin, French) | 1 slice (2-1/2" diameter) |  |
| Bread crumbs | 3 tablespoons |  |
| Bun, hamburger | 1/2 bun (4" diameter) |  |
| Bun, hot dog | 1/2 bun |  |
| English muffin | 1/2 |  |
| Roll, plain | 1 (2" diameter) |  |
| Cereals |  |  |
| All cooked cereals | 1/2 cup |  |
| \#Bran Flakes, All Bran, Raisin Bran | 1/2 cup |  |
| \#Bran (coarse texture) | 1/2 cup |  |
| Cornmeal, dry | 2-1/2 tablespoons |  |
| Dry cereals (not sugared), ex. Cheerios, Wheat Chex | 3/4 cup |  |
| Dry cereals (sugared), ex. Kix | 1/2 cup |  |
| Granola | 1/4 cup |  |
| GrapeNuts cereal | 1/4 cup |  |
| Honey Bunches of Oats | 1/2 cup |  |
| Shredded wheat | 1/2 cup | , |
| \#Wheat germ | 3 tablespoons |  |
| Coconut water | 1-1/2 cup |  |
| Crackers/Snacks |  | + |
| Bread stick | 3/4 ounce | - |
| Cabin cracker | $2$ |  |
| Cream cracker | $1-1 / 2$ |  |
| Graham | 3 (2-1/2" square) | - |
| Navy biscuit | 1 | , |
| Popcorn (without butter) | 3 cups | $\xrightarrow{\square}$ |
| Pretzels | 3/4 ounce |  |
| \#Ry Krisp (triple square wafer) | 3 |  |
| Saloon/Pilot creme cracker | 2 |  |
| Saltines | 6 (2" square) |  |
| Soda | 3 (2-1/2" square) |  |
| Whole wheat crakers (Finn, Kavli, Wasa) | 2-4 slices (3/4 ounce) | 15 |

## Flour Products

Cornstarch
Flour
2 tablespoons
3 tablespoons
Noodles, beanthread (long rice)
1/2 cup
Noodles, rice (somen)
3/4 cup
Noodles; macaroni, spaghetti, egg, ramen
Saimin noodles
1/2 cup cooked
Tapioca, dry
1/2 cup
2 tablespoons

| Rice |  |
| :---: | :---: |
| Rice, cooked |  |
| Calrose | 1/3 cup |
| Brown | 1/3 cup |
| Instant | 1/3 cup |
| White, enriched | 1/3 cup |
| Wild | 1/3 cup |
| *Soup |  |
| Noodle/rice broth base | 1 cup |
| Starchy Vegetables |  |
| Arrowroot | 1 tablespoon |
| Banana (cooking) | 1/2 cup |
| \#Beans (ex. kidney, garbanzo) and peas; dried, cooked | 1/3 cup |
| \#Beans, baked | 1/4 cup |
| \#Beans, butter | 1/3 cup |
| Breadfruit, cooked | 1/3 cup |
| Breadfruit, fermented | 1/4 cup |
| Cassava (tapioca) | 1/2 cup |
| \#Corn | 1/2 cup |
| \#Corn, cream style | 1/3 cup |
| \#Corn on the cob | 1 (6" long) |
| Lima beans | 1/2 cup |
| Mixed vegetables (frozen corn, peas, carrots, lima beans) | 1/2 cup |
| Parsnips | 1/2 cup |
| \#Peas, green | 1/2 cup |
| \#Plantain (green banana) | 1/2 medium or 1/2 cup |
| Potatoes |  |
| White, whole | 1/2 (3 ounces) |
| White, mashed, plain | 1/2 cup |
| $\sqrt{ }$ Sweet potato | 1/3 cup |
| \#Squash, winter, yellow | 3/4 cup |
| Taro, swamp (Bula) | 1/2 cup (or 1/2" slice) |
| Yams, white or yellow | 1/2 cup |


*Food high in salt
$\sqrt{ }$ Good source of Vitamin A \#High in fiber

## Starch Group (Add one fat)

One starch contains 125 calories, 15 grams of carbohydrate, 3 grams of protein, and 5 grams of fat.

| Food | Measure |
| :--- | :--- |
| Bread |  |
| Biscuit | $1\left(2-1 / 2^{\prime \prime}\right.$ diameter) |
| Cornbread | $1(2$ " cube $)$ |
| Chowmein noodles | $1 / 2$ cup |
| Pancake (4" across) | 2 |
| Crackers/Snacks |  |
| Popcorn |  |
| Microwave - light | 3 cups |
| Microwave - regular (add an extra fat to total) | 3 cups |
| Ritz | 6 |
| Wheat thins | 14 |
| Cheez-lts | 16 |
|  |  |
| Flour Products | $1 / 4$ cup |

## Fruit Group

One fruit serving contains approximately 60 calories and 15 grams of carbohydrate. These fruit may be fresh, cooked, dried, or frozen without sugar. If fruit is canned in medium or heavy syrup, cut the portion in half. Choose juice that is $100 \%$ fruit.


## Fruit Group (Continued)

| Food | Measure |
| :---: | :---: |
| +Honeydew melon | $1 / 8$ medium (1 cup) |
| +Jack fruit | 1/3 cup |
| Juice (other) | 1/2 cup |
| +Kiwi | 1 large |
| +Lychees | 10 fruits or $1 / 2$ cup |
| +Mandarin orange | 3/4 cup |
| $\checkmark$ Mango, dried | $1 / 2$ cup or $1 / 2$ small |
| $\checkmark+$ Mango, ripe | $1 / 2$ cup or $1 / 2$ small |
| Mango (green) | $1 / 2$ cup or $1 / 2$ small |
| $\checkmark$ Nectarine | 1 (1-1/2" diameter) |
| Nectars, all kinds | 1/2 cup |
| +Orange, fresh | 1/2 large or 1 small ( $2-1 / 2 \mathrm{l}$ across) |
| +Orange juice | 1/2 cup |
| $\checkmark$ Pandanus fruit | $1 / 4$ cup (add 1 fat) |
| $\checkmark$ +Papaya, ripe | $1 / 2$ medium or 1 cup cubed |
| Papaya (green) | $1 / 2$ medium or 1 cup cubed |
| +Passion fruit | 3/4 cup |
| +Passion fruit juice | 1/2 cup |
| $\checkmark$ Peach, fresh | 1 medium |
| Peach, canned | 1/2 cup or 2 halves |
| Pear, dried | 1 |
| Pear, canned | 2 small halves or $1 / 2$ cup |
| +Pineapple, fresh, | $3 / 4$ cup or $1 / 8$ medium |
| +Pineapple, canned in own juice | 1/3 cup |
| +Pineapple juice | 1/2 cup |
| Plums, fresh | 2 medium |
| Plums, canned | 4 |
| +Pomelo (Pommalo) | 1 cup sections |
| Pomegranate | 1/2 medium |


| \#Prunes, dried | 3 medium |
| :--- | :--- |
| Prunes, juice | $1 / 3$ cup |
| Raisins | 2 tablespoons |
| +Rambutan | $1 / 2$ cup |
| Soursop, pulp | $1 / 3$ cup |
| +Starfruit | $1 / 2$ cup |
| \#+Strawberries | $1-1 / 4$ cups |
| +Tangerine | 2 medium |
| Watermelon | $1-1 / 4$ cup cubed |



## Vegetable Group

One vegetable serving contains about 25 calories, 5 grams of carbohydrate and 2 grams of protein. One exchange is $1 / 2$ cup.

| Bamboo shoot | $\checkmark$ Kangkong |
| :---: | :---: |
| Banana bud/flower |  |
| Beans, goa (winged) | Mushrooms |
| Beans, green |  |
| Beans, pole (green) | Okra |
| $\checkmark$ +Bele leaves | Onion, round |
| Bilimbi |  |
| Bittermelon, fruit | $\checkmark$ Papaya, green |
| $\checkmark$ +Broccoli | Pea pods |
| +Brussel sprouts | +Pepper, green or bell Potato leaves |
| $\checkmark+$ Cabbage, Chinese | $\checkmark$ Pumpkin |
| Cabbage, head | Pumpkin leaves |
| $\checkmark$ +Cabbage, swamp | Pumpkin flowers |
| $\checkmark$ Carrots |  |
| $\checkmark+$ Cassava leaves ( $1 / 4$ cup is | Scallions |
| equivalent to 1 serving) | +Snow peas |
| +Cauliflower | $\checkmark$ Spinach |
| Chayote | $\checkmark$ Squash, leaf tips |
| Celery | Squash, snake gourd |
| $\sqrt{ }+$ Chii peppers | $\checkmark$ Sweet potato leaves/shoots ( $1 / 4$ cup is |
| Cucumber equivalent to 1 serving) |  |
| Eggplant | $\checkmark+$ Tapioca leaves |
|  | $\checkmark$ +Taro leaves |
| $\checkmark$ Fern leaves, stems \& tips | +Tomato, canned or fresh |
|  | +Tomato juice |
| Gourd |  |
|  |  |
| +Green pepper | $\checkmark+$ Vegetable juice |
| $\checkmark+$ Green leaves |  |
|  | Zucchini |


+Good source of vitamin C $\sqrt{ }$ Good source of vitamin $A$

Zucchini

These vegetables may be used as desired, raw or up to one cup cooked.

Cabbage - all kinds
Celery
Green onions
$V_{+}$Green leaves, taro, sweet potato, tapioca
$\sqrt{ }$ Kang kong (Seri)
Lettuce
$\checkmark+$ Parsley
$\sqrt{ }$ Purslane
+Radishes (includes daikon)
$\sqrt{ }$ Radish leaves

> +Good source of vitamin C $\sqrt{ }$ Good source of vitamin $A$

Seaweed
Sprouts
Watercress


## Protein/Meat Group A (Lean)

The protein/meat groups have been divided into three groups according to the fat content.
Protein/Meat Group A (lean). One protein/meat serving contains approximately 55 calories, 7 grams protein, and 3 grams fat.

*Food high in salt

Fish, fresh
Abalone, catfish, cuttlefish, eel, jack, lobster, mackerel (opelu)
Cod, herring, mahimahi, mullet, parrot, rabbit, red snapper, reef fish, sashimi, shark, sole, stingray, sturgeon, sword, tuna
Clams, crab, cuttlefish, lobster, opihi, scallops, shrimp, squid, octopus
Fish cake paste
Oysters
*Sardines, canned in oil, drained
Sashimi
Sea cucumber, intestines
*Tuna, canned in water

## Goat

## Pork

Lean ham, tenderloin, *Canadian bacon
Tripe
Turkey (skin removed)
White and dark meat, roasted
*Turkey ham, turkey pastrami, turkey breast (processed)

## Turtle

1 ounce

1 ounce or 1 slice ( $3^{\prime \prime} \times 3$ " x 1/4")
2 ounces
1/4 cup
6 medium
2 ounces
1 ounce
1-1/2 cup
1/4 cup

1 ounce

1 ounce or 1 slice ( $3^{\prime \prime} \times 3$ " $\times 1 / 4$ ")
1 ounce

1 ounce
1 ounce or 1 slice ( $3^{\prime \prime} \times 3^{\prime \prime} \times 1 / 4$ ")
2 ounces


## Protein/Meat Group B (medium fat)

Protein/Meat Group B (medium fat). One protein/meat serving contains approximately 75 calories, 7 grams protein, and 5 grams fat.

| Food | Measure |  |
| :---: | :---: | :---: |
| Beef (most types fall into this category, fat trimmed)) <br> Roast (rib, chuck, rump) <br> *Ground beef ( $15 \%$ fat), meatloaf Steak (cubed, porterhouse, T-bone) | $\begin{aligned} & \text { 1 ounce or } 1 \text { slice ( } 3 \text { " x } 2 \text { " x 1/4") } \\ & 1 \text { ounce } \\ & 1 \text { ounce or } 1 \text { slice ( } 3 \text { " x } 2 \text { " x } 1 / 4 \text { ") } \end{aligned}$ |  |
| Chicken (with skin) | 1 ounce |  |
| Dog | 1 ounce |  |
| Duck, Goose (skin and fat removed) | 1 ounce |  |
| Egg, whole (high in cholesterol; limit to 3 per week) Egg substitutes (with 56-80 calories per 1/4 cup) | $\begin{aligned} & 1 \text { large } \\ & 1 / 4 \text { cup } \end{aligned}$ |  |
| Guinea fowl | 1 ounce |  |
| Heart, kidney, or gizzards (high in cholesterol) | 1 ounce | , |
| Lamb (most lamb products fall into this category, fat trimmed)) Chops, lean leg, loin, rib, shank, shoulder, sirloin | 1 ounce or 1 slice ( $3^{\prime \prime} \times 2^{\prime \prime} \times 1 / 4^{\prime \prime}$ ) |  |
| $\checkmark$ Liver (high in cholesterol) | 1 ounce | $\bigcirc \bigcirc$ |
| Luncheon meat (86-94\% fat free) | 1 ounce |  |
| Pigeon | 1 ounce |  |
| Pork (most pork products fall into this category, fat trimmed) <br> *Ham, butt, loin, shoulder, arm, picnic Pig's feet Shoulder blade | $\begin{aligned} & \text { 1 ounce or } 1 \text { slice ( } 3^{\prime \prime} \times 2 \text { " x 1/4") } \\ & 1 \text { ounce } \\ & 1 \text { ounce or } 1 \text { slice ( } 3 \text { " x } 2 \text { " x 1/4") } \end{aligned}$ |  |
| Rabbit | 1 ounce |  |
| Salmon, canned | 1/4 cup |  |
| Tofu | 1/3 cup or 3 ounces (1/6 of a block) | *Food high in salt |
| Turtle eggs | 1 egg | $\sqrt{ }$ Good source of vitamin A |
| Tuna, canned in oil, drained | 1/4 cup |  |

## Protein/Meat Group C (high in fat)

Protein/Meat Group C (high in fat). One protein/meat serving contains approximately 100 calories, 7 grams protein, and 8 grams fat.

| Food | Measure |
| :---: | :---: |
| Beef |  |
| Beef Brisket | 1 ounce |
| Corned beef | 1 ounce |
| Ground beef (20\% or more fat) | 1 ounce |
| Lean short ribs | 1 ounce |
| Rib eye | 1 ounce 1 clice (3" $\times 2$ " $\times 1 / 4{ }^{\text {" }}$ ) |
| Rib roast, club and rib steak Spare ribs (meat, without bone) | 1 ounce or 1 slice (3" x 2" x 1/4") |
| Spare ribs (meat, without bon | 1 ounce |
| Cheese (all regular cheeses) |  |
| *Cold cuts - salami, bologna | 1 slice |
| Fish (any fried fish product) | 1 ounce |
| *Frankfurter |  |
| Turkey or chicken | 1 (10 to a pound) |
| Beef or pork (add 1 fat) | 1 (10 to a pound) |
| Lamb | 1 ounce or 1 slice ( $3^{\prime \prime} \times 2$ " $\times 1 / 4$ ) |
| *Luncheon meat (such as bologna, salami) | 1 ounce |
| Peanut butter | 1 tablespoon |
| Pig ear | 1/2 ear |
| Pork |  |
| Spareribs, chops, loin (back ribs), ground pork, country style ham |  |
| Pork belly | 1 oz . (add 1 fat) |
| *Sausage |  |
|  |  |
| *Spam (canned luncheon meat) | 1 ounce |
| Spam Lite | 2 ounces |
| Tails |  |
| Chicken | 1/2 ounce |
| Turkey | 1/2 ounce |
| Wings |  |
| Chicken Turkey | 1 (6 pieces per pound) 1/4 |


*Food high in salt

## Fat Group A (high in unsaturated fats)

The fat group have been divided into two sections, those which are high in unsaturated fats and those which are high in saturated fat.
Fat Group A - high in unsaturated fats. One fat serving contains approximately 45 calories and 5 grams of fat.


## Fat Group B (high in saturated fats)

Fat Group B - high in saturated fats. One fat serving contains approximately 45 calories and 5 grams of fat.


## Foods that Do Not Need to be Measured

Some foods and condiments have very little carbohydrate, protein or fat and can be used without measuring and with a few exceptions, as often as you like.

## Beverages

Carbonated water, club soda
Coffee, plain
Soft drinks, artifically sweetened
Sugar free drink mixes
Tea, plain
Water

## Desserts

Gelatin desserts, artificially sweetened
Sugar substitutes - Equal,
Sweet \& Low
Syrup, diet (2 tablespoons)

## Miscellaneous

Gum, sugarless
Jelly, jam, diet (2 teaspoons)
Non stick pan spray
Pickles, unsweetened
Seaweeds
Taco sauce
*Soups
Bouillon, without fat
Clear broth

## Seasonings

Chives
*Fish sauce
Garlic
Ginger
Lemon juice
Lemon grass
Lime juice
Molly McButter
*MSG (Ajinomoto)
Mustard, dry or prepared
Parsley
Pepper
Purslane
*Salt (in moderation)
*Soy Sauce (in moderation)
Spices and herbs
Tabasco sauce
Vinegar

*Food high in salt

## Other Foods for Occasional Use

Moderate amounts of some foods can be used in your meal plan, in spite of their sugar or fat content. The following list includes food group serving values for some of these foods. Because they are concentrated sources of carbohydrate, you will notice that the portion sizes are very small. Check with your nutritionist for advice on how often and when you can eat them.

| Food | Measure | Food Group |  |
| :---: | :---: | :---: | :---: |
| *Alcohol- Beer | 12 ounce, can | 3-1/2 fat |  |
| Wine | 4 ounce, 1/2 cup | 2 fat |  |
| Wine cooler | 12 ounce bottle | 1 starch, 2-1/2 fat |  |
| Whiskey, gin, rum, vodka (100 proof) | 1-1/2 ounce or 1 shot | 3 fat |  |
| Animal crackers | 8 crackers | 1 starch |  |
| Bar-b-que sauce | 4 tablespoons | 1/2 starch |  |
| Brownie, no frosting | 1 (3" x1-1/2" x 7/8") | 1 starch, 1 fat |  |
| Cake, angel food or sponge | 1/12 cake | 2 starch |  |
| Cake, no icing | cupcake size, flat top | 1 starch, 1 fat |  |
| Cake, with icing | cupcake size, flat top | 1 starch, 2 fat |  |
| Candy bar (Snickers) | 1 (2 ounces) | 2 starch, 1 fat |  |
| Cheese cake | 3 ounces | 2 starch, 3 fat |  |
| Chips - Banana chips | 1 ounce | 1 starch, 2 fat |  |
| Breadfruit chips | 1 ounce | 1 starch, 2 fat |  |
| Cheese puffs | 1 ounce | 1 starch, 2 fat |  |
| Corn chips | 1 ounce | 1 starch, 2 fat |  |
| Onion rings (Funyun) | 1 ounce | 1 starch, 1 fat |  |
| Potato chips | 1 ounce | 1 starch, 2 fat |  |
| Sweet potato chips | 1 ounce | 1 starch, 2 fat |  |
| Tapioca chips | 1 ounce | 1 starch, 2 fat |  |
| Taro chips | 1 ounce | 1-1/2 starch, 1 fat |  |
| Tortilla chips | 1 ounce | 1 starch, 1-1/2 fat |  |
| Yams chips | 1 ounce | 1 starch, 2 fat |  |
| Cocoa powder, sweetened | 1 ounce | 1 starch, 1 fat |  |
| Cookies | 2 small (1-3/4" across) | 1 starch, 1 fat |  |
| Cupcake, chocolate with icing | 1 small | 1-1/2 starch, 1 fat | *Because of minimal nutrient value, fat is used as the equivalent exchange |
| Donut, cake | 1 | 1 starch, 1 fat |  |

## Other Foods for Ocassional Use (Continued)

| Food | Measure | Food Group |
| :---: | :---: | :---: |
| French fried potatoes | 10 | 1 starch, 1 fat |
| Frozen fruit yogurt | 1/3 cup | 1 starch |
| Granola bars | 1 small | 1 starch, 1 fat |
| Ice cream, any flavor | 1/2 cup | 1 starch, 2 fat |
| Ice cream bar with nuts | 1 bar (4 ounces) | 2 starch, 4 fat |
| Ice cream bar fudgsicle | 1 bar | 1 starch |
| Ice milk | 1/2 cup | 1 starch, 1 fat |
| Jam, jelly, honey, syrup | 1 tablespoon | 1 fruit |
| Jello | 1/2 cup | 1 fruit |
| Juice drinks (Koolaid, Tang) | 12 ounce can/1-1/2 cup | 2-1/2 fruit |
| Ketchup | 3 tablespoons | 1/2 starch |
| Macaroni or Potato Salad | 1/2 cup | 1 starch, 3 fat |
| Muffin | 2 Cliameter | 1 starch, 1 fat |
| Pie, fruit | 1/8 pie | 2 starch, 1 fruit, 3 fat |
| Popsicle | 1/2 twin pop | 1 fruit |
| Pudding | 1/2 cup | 2 starch, 1 fat |
| Sherbert, any flavor | 1/4 cup | 1 starch |
| Soda, sweetened | 12 ounce can | 2-1/2 fruits |
| Snack chips, all varieties | 1 ounce | 1 starch, 2 fat |
| Spaghetti with tomato sauce, canned | 1 cup | 2 starch |
| Stew, beef | 1 cup | 1 starch, 2 medium fat |
| Sugar | 1 tablespoon | 1 fruit |
| Sugar cane, stalk, peeled | 4 ounce | 1 fruit |
| Syrup | 1 tablespoon | 1 fruit |
| Tea, sweetened | 12 ounce can | 2-1/2 fruit |
| Vanilla wafers | 6 small | 1 starch |
| Yogurt with fruit | 1 cup | 1 milk, 1 fruit, 1 fat |

## Common Recipes

| Food | Measure | Food Group |
| :--- | :--- | :--- |
| Salads |  |  |
|  |  |  |
| V+Millionaire Salad | $1 / 2$ cup | 1 starch, 1 vegetable, $1 / 2$ lean meat, 1 fat |
| Papaya Salad | $1 / 2$ cup | $1 / 2$ vegetable |
| VSweet Potato Salad | $1 / 2$ cup | $1-1 / 2$ starch, $1-1 / 2$ fat |

## Soups

| Aroskadon Agahaf Soup | 1 cup |
| :--- | :--- |
| Atmaya | 1 cup |
| Charakiles Rice Soup | 1 cup |
| Ilotes Corn Soup | 1 cup |
| Pilota Beef Soup | 1 cup |

## Vegetables

$\checkmark$ +Golai Hagun Suni
1-1/2 cups
4 vegetable, $4-1 / 2$ fat

## Starches

Boiled or Baked Pounded Breadfuit Breadfruit with seeds in coconut milk
Flat Bread
$\sqrt{ }$ Ka'l' Kamuti
Red Rice
Ripe Breadfruit (with coconut milk)
$\checkmark$ Saibug Kamuti
Titiyas harina
Titiyas ma'is

```
1 cup
1 cup
1 slice (1 ounce)
\(1 / 3\) cup (2-1/2 ounces)
2 cups
1 cup
1 cup
1 slice (1 ounce)
1 tortilla
```

1 starch
3 starch, 1-1/2 fat
1-1/2 starch, $1 / 2$ fat
1 starch, 1/2 fruit, 1 fat
6 starch, 1/2 vegetable, 1/2 fat
1 starch, 2-1/2 fat
2-1/2 starch, 1/2 fruit, 2 fat
1-1/2 starch, 2-1/2 fa
1-1/2 starch, 1/2 fat
+Good source of vitamin C $\sqrt{ }$ Good source of vitamin A

## Common Recipes (Continued)

| Recipe | Measure | Food Group |
| :---: | :---: | :---: |
| Main Dishes |  |  |
| Adobo | 5 ounces | 3-1/2 medium meat |
| $\checkmark$ Chalakilis | 9-1/2 ounces | 1 starch, 1 lean meat, 4 fat |
| $\checkmark$ +Eskabeche | 1-1/2 ounces | 2-1/2 vegetable, $3-1 / 2$ lean meat, $1-1 / 2$ fat |
| Empanada | 1 each | 1-1/2 starch, $1 / 2$ medium meat, $1-1 / 2$ fat |
| $\checkmark$ +Kadiyun guihan (with vegetables) | 13 ounces | 3 vegetable, 3 lean meat, 1-1/2 fat |
| $\checkmark$ Katadun guihan (with pumpkin leaves) | 11 ounces | 1/2 vegetable, 5 lean meat, 2-1/2 fat |
| Kelaguen Mannok | 5 ounces | 1/2 fruit, 3 medium meat, 1-1/2 fat |
| Motsiyas | 13 ounces | 2 vegetable, 5 medium meat |
| Saibwagh land crab | 1 crab | 1-1/2 lean meat |
| $\checkmark$ Taro chicken curry | 8 ounces | 1 starch, $1 / 2$ vegetable, 2-1/2 medium meat, $1 / 2$ fat |
| $\checkmark$ Taro fish sandwich | 1 sandwich | 1-1/2 starch, $1 / 2$ vegetable, 2 lean meat, $1 / 2$ milk |
| Tinaktak katni (with pumpkin leaves \& vinegar) | 7-1/2 ounces | 1/2 vegetable, $4-1 / 2$ lean meat |
| Tinaktak katni (with vinegar) | 2-1/2 ounces | $1 / 2$ vegetable, 2 lean meat, $1 / 2$ fat |
| Tinaktak katni (with coconut milk) | 5 ounces | 4 medium meat, $1 / 2$ fat |
| Tinaktak kat'ne (with coconut milk) | 14 ounces | 1 vegetable, 3 medium meat, 4 fat |
| Desserts |  |  |
| Ahu Drink | 1 cup | 2 fruit, 1 fat |
| Kalami | 1/2 cup | 1/2 starch, 1/2 fruit, 4 fat |
| $\checkmark$ Pumpkin cookies | 3 cookies | $1 / 2$ starch, 1 fruit, $1 / 2$ vegetable, 1 fat |
| $\checkmark$ Pumpkin muffins | 1 muffin | 1 starch, 1-1/2 fruit, $1 / 2$ vegetable, 1-1/2 fat |
| $\checkmark$ Tamales Kamuti | 1/2 cup | 1/2 starch, 1/2 fruit, 1-1/2 fat |
| Tamales mandioka | 1 cup | 3-1/2 starch, 6 fruit, 3-1/2 fat |
| Tamales sunin Honolulu | 1 cup | 2 starch, 1-1/2 fruit, 8 fat |
| Tapioca Tamales | 1 tamale | 1/2 starch, 3 fruit, 2-1/2 fat |
| Wiisch mmasch | 1 banana | 2 fruit, 4 fat +Good source of vitamin C |
|  |  | $\sqrt{ }$ Good source of vitamin A |


[^0]:    Explanation: Each calorie level can be divided into food groups to provide a well balanced meal plan. Calorie level is based on individual needs.

