

Kosrae

Food Choices for Healthful Living based on food group lists









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Nutritionist IV, "N" Squared Computing, 1994 Exchanges for All Occasions, by M. Franz, MS, RD, 1993 Food Processor, Esha Research Co., 1996 Genesis R&D, Esha Research Co. 4.62, 1996 Pacific Island Food Composition Tables, South Pacific Commission, 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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Kosrae Food Choices for Healthful Living Based on Food Group Lists

ADAP Project, 99-1

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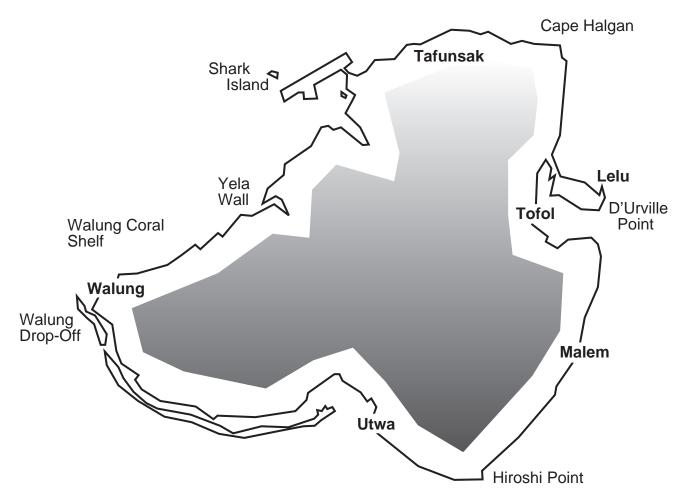
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Introduction

Diet is an important part of the treatment of many diseases including obesity, diabetes, heart disease and high blood pressure. The Kosrae 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.



Principles of Good Nutrition

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

■ Eat a variety of foods.

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

■ Eat less fat.

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.

■ Eat more starches, especially those high in fiber.

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 taro, yams, sweet potato, cassava, bananas, breadfruit, dried beans, and peas; more whole grain breads, cereals, and crackers; and more fruit and vegetables.

■ Eat less sugar.

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,

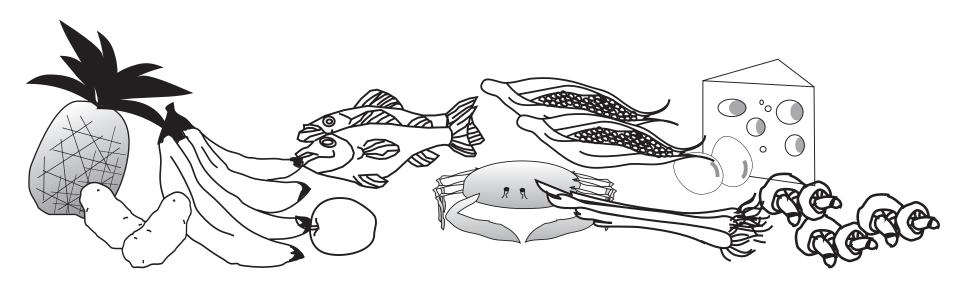
table sugar, honey, sweet drinks, and syrup. People with diabetes need to avoid these foods.

■ Eat less salt and sodium.

Many of us eat too much salt which consists of sodium and cloride. 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 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 ★.

■ 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

Food Group	Carbohydrate (grams)	Protein (grams)	Fat (grams)	Calories (energy)	
Starch	15	3	trace	80	
Protein/Meat Lean (Meat A)		7	3	55	
Medium-fat (Mea High-fat (Meat C)	•	7 7	5 8	75 100	
Vegetable	5	2	_	25	
Fruit	15		_	60	
Calcium/Milk					
Skim	12	8	trace	90	
Lowfat	12	8	5	120	
Whole	12	8	8	150	
Fat	_	_	5	45	

Daily 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.

	1500 calories	2000 calories	2300 calories (Pregnancy Exchanges)	2600 calories
Protein/Meat Group				
Lean (Meat A)	2	3	4	5
Medium-fat (Meat B)	2	3	3	3
High-fat (Meat C)	1	1	1	2
Starch Group	7	9	10	11
Vegetable Group	3	4	5	5
Fat Group	3	4	5	6
Fruit Group	3	5	5	6
Calcium/Milk Group	2	2	3	3
Coffee or tea, plain	Unlimited	Unlimited	Unlimited	Unlimited

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

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, breadfruit, sweet potatoes 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

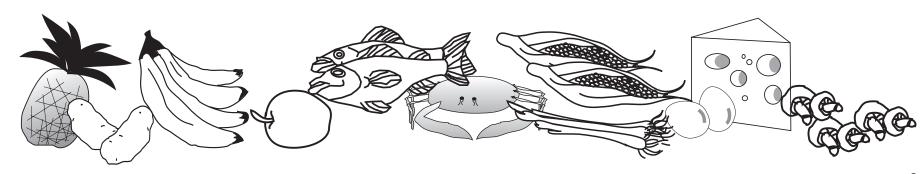
The Protein/Meat Group includes foods which provide protein, some fat, minerals and vitamins. This list includes meats, fish, poultry, eggs, tofu, and cheese. Meat is a good source of iron.

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, 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.



Kosrae 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 28% of the total energy intake (calories in one day). The protein content is about 15% and carbohydrate content is 56% of the total energy. These sample menus are planned to better meet the nutritional needs of adults and are not meant to be used for children.

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Typical Day's Menu

fritter

Breakfas	st		
2 each	Banana, cooking, raw		Kc
1/3 cup	Evaporated milk	Panana	Kca Per Per
	 Vitamin A added 	Banana	Pe

2/3 cup All purpose white flour - enriched

12 fl oz Brewed coffee

White granulated sugar

Lunch

une	ch	
1	cup	Medium grain white rice
		unenriched – cooked
6	oz-wt	Yellowtail fish – baked/broiled
2	tbs	Vegetable oil, polyunsaturated
1	each	Whole cucumber, 8 inch long
2	tbs	Fresh lime juice
12	fl oz	Cola type soda pop

alories

Analysis

Percent carbohydrate	
Percent fat	
Percent protein	
Fiber 12	2.62 g
Calcium 478	.6 mg
Iron 13	.1 mg
Vitamin A 23	313 iu
Vitamin C 105	.5 mg
Folic acid 98.63	3 mcg
Exchanges:	
Starch	14
Protein/meat	13.5
i i otelii/illeat	
	2
Vegetable	

Improved Day's Menu

Breakfast

1 each Banana, common varieties 2 small Taro sandwiches

Lunch

1	cup	Medium grain white rice – unenriched – cooked
4	oz-wt	Fresh yellowtail fish – baked/ broiled
1/2	cup	Edible hibiscus, leaves, boiled
1	each	Whole mango

Dinner

2	each	Banana, cooking, boiled
6	oz-wt	Chicken, roasted
1/4	cup	Coconut cream - canned
1/2	cup	Chili pepper, leaves, boiled

Analysis

Exchanges:

Starch	. 9
Protein/meat	13
Vegetable	. 2
Fruit	. 4
Calcium/milk	. (
Fat	10

Dinner

1 cup Breadfruit, baked

6 oz-wt Yellowtail fish - baked/broiled

Kosraen soup 1/2 cup

Meal Plan Form

You may want to divide your food for the day this way:

Meal Plan	Number of Servings	Food	Amount
Breakfast:	_		
Fruit Group			
Protein/Meat Group (A, B, or C)			
Vegetable Group			
Starch Group			
Fat Group			
Calcium/Milk Group			
Coffee or tea, plain			
Lunch:			
Protein/Meat Group		· · · · · · · · · · · · · · · · · · ·	
Starch Group			
Vegetable Group			
Fat Group			
Fruit Group			
Calcium/Milk Group			
Coffee or tea, plain			
Dinner:			
Protein/Meat Group			
Starch Group			
Vegetable Group			
Fat Group			
Fruit Group			
Calcium/Milk Group			
Coffee or tea, plain			
·			
Snack:			
Protein/Meat Group			
Starch Group			
Fat Group			
Calcium/Milk Group			

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.

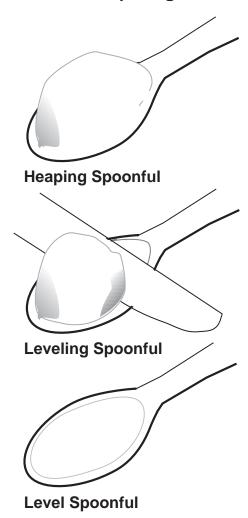
All measurements are level. Do not heap or pack your cups or bowls. For example, to measure a level spoonful, fill your spoon, then run a knife edge across the spoon pushing off all the extra food. Measuring a level cupful would involve the same process.

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.

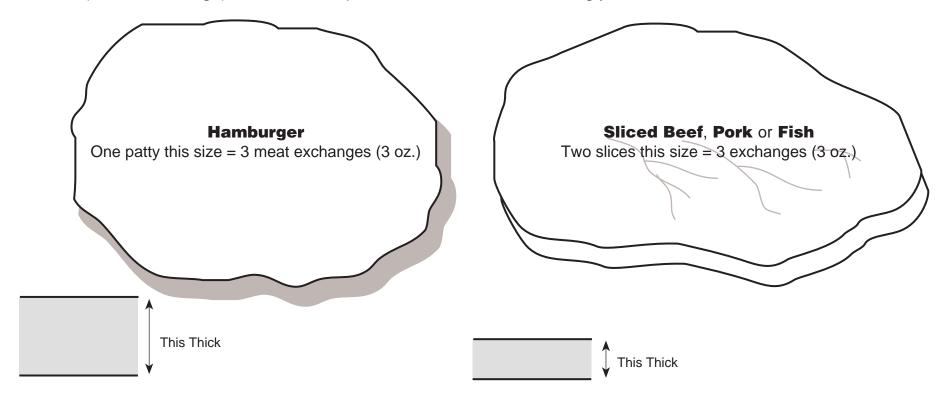
Foods which are eaten cooked should be measured after they are cooked. Fat that is used in cooking must be counted as a fat serving. Frying adds a great deal of fat. For example, a breast of chicken which has been rolled in flour and fried may add 1 starch serving and 2 or more fat servings.

Measuring Technique for All Foods Requiring Utensils



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.



4 ounces raw meat without bone = about 3 ounces cooked

5 ounces raw meat with bone = about 3 ounces cooked

1 small chicken leg and thigh or 1/2 breast = about 3 ounces cooked

Calcium/Milk Group

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

Food	Measure	Food	Measure
Cheese (add 1 fat)		Fish, sardines, mackerel, salmon;	
Parmesan	2 tablespoons	canned with bones (add 2 fat)	3-4 ounces
Ricotta	1-1/2 ounce	Tofo woods will a state of the control of the total	4/0
Cheese (add 2 fat)		Tofu made with calcium (add 1 fat)	1/2 cup
American	1-1/2 ounce	Whole milk (add 2 fat groups)	
Cheddar	1-1/2 ounce	Whole milk	1 cup
Mozzarella	1-1/2 ounce	Evaporated milk	1/2 cup
Swiss	1-1/2 ounce	L vaporatou mini	1/2 ddp
Dark green leafy vegetables*			
Bele leaves, raw	3 cups		
Spinach, raw	5 cups		
Tapioca leaves, raw	3 cup		
Taro leaves, raw	4 cups		
Nonfat Milk		SKIN SKIN	
Nonfat dry milk powder	1/3 cup		NONFAT
Evaporated skim milk	1/2 cup		NONFAT MILK POWDER
Low Fat Milk (add 1 fat)		1 Cup Skim Milk	L POT
2% milk	1 cup		
Evaporated 2% milk	1/2 cup		1/3 Cup Nonfat Dry Milk Powder
		EVAPORATED	
		1/2 Cup Evapor	ated Milk
*Calcium may not be well absorbed.		Add 2 Fat Exc	changes

^{*}Calcium may not be well absorbed.

Starch Group

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

	Food	Measure
Bread	Biscuit (add 1 fat) Bread (white, whole wheat, rye, raisin, French) Bread crumbs, dry Bun, hamburger Bun, hot dog Cornbread (add 1 fat) English muffin Muffin, plain, small (add 1 fat) Noodles, chowmein (add 1 fat) Pancake (add 1 fat) Roll, plain Waffle (add 1 fat)	1 (2" diameter) 1 slice 3 tablespoons 1/2 bun (4" diameter) 1/2 bun 1 (2" x 2" x 1") 1/2 1 1/2 cup 1 (4" diameter) 1 (2" diameter) 1 (4-1/2" diameter)
	All cooked #Bran Flakes, All Bran, Raisin Bran #Bran (coarse texture) Cornmeal, dry Dry, puffed or flaked (not sugared) Granola Grape Nuts Honey Bunch of Oats Shredded wheat	1/2 cup 1/2 cup 1/2 cup 1/3 cup 3/4 cup 1/4 cup 1/4 cup 1/2 cup
Cocon	ut Immature meat (sponge) (add 1 fat) Water	1-3/4 cups 2 cups
Cracke	Creme Pilot Graham Melba toast Ritz, plain Ry Krisp, double square wafer Saloon pilot Saltines Soda Wheat Thins (add 1 fat)	1-1/2 3 (2-1/2" square) 4 (3-3/4" x 2") 4 3-1/2 1 6 (2" square) 3 (2-1/2" square)

Flour Products

2-1/2 tablespoons Flour Noodles; cellophane 3/4 cup Noodles; macaroni, spaghetti 1/2 cup cooked Saimin 1/2 cup Stuffing 1/4 cup

Rice

Long rice, cooked 1/2 cup 1 (2" x-1/2") Mochi Rice, cooked

Brown 1/3 cup 1/3 cup Instant White, enriched 1/3 cup

⊁Soup

Miso paste 1 ounce Noodle/rice base 1 cup Cream base (add 1 fat) 1 cup

Starch

2 tablespoons Corn starch Potato starch 2 tablespoons

Starchy Vegetables

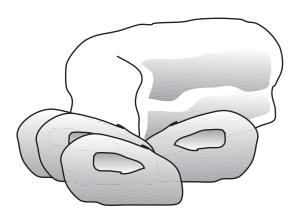
Banana, cooking 1/2 or 2 ounces Beans, azuki 1/4 cup Beans, baked 1/4 cup Beans and peas; dried, cooked 1/3 cup Breadfruit, cooked 1/3 cup 1/3 cup Cassava 1/2 cup Corn 1 (6" long) Corn on the cob 1/2 cup Lima beans Mixed vegetables 2/3 cups

Peas, green 1/2 cup 1/2 small or 1/3 cup Plantain (green banana) Popcorn (without butter) 3 cups

Potatoes

White, whole 1 (" diameter) White, mashed, plain 1/2 cup 1/3 cup √Sweet potato or orange colored yams 3/4 ounce Pretzels √Pumpkin 3/4 cup Squash, winter, yellow 3/4 cup 2 tablespoons Tapioca

Taro (raw and cooked) 1/4 cup 1/2 cup Vegetables, pickled

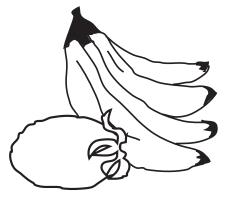


√Good source of Vitamin A #High in fiber

Fruit Group

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

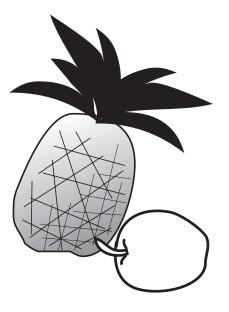
Food	Measure
Apple, fresh Apple, mountain Applesauce Apple juice Apricots, fresh Apricots, dried Apricots, canned	1/2 medium or 1 small (2" diameter) 2 medium 1/2 cup 1/2 cup 4 medium 7 halves 4 halves
Banana	1/2 medium or 1/2 cup
√+Cantalope Cherries, fresh Cherries, canned Coconut water Cranberry juice cocktail	1/3 of 5" diameter fruit (1 cup) 12 pieces 1/2 cup 1 cup 1/4 cup
Dates	2-1/2
Figs, fresh Figs, canned Fruit cocktail Fruit, dried	2 medium 2 1/2 cup 2 tablespoons
Grapes, fresh Grape juice, canned Grape juice, frozen	10 grapes, large or 15 small 1/3 cup 1/3 cup
+Grapefruit, fresh +Grapefruit, canned sections +Grapefruit, juice +Guava, fresh	1/2 medium (3-1/2" diameter) 3/4 cup 1/2 cup 1 medium (2-1/2" diameter)



+Honeydew melon 1/8 medium (1 cup) Jack fruit 1/2 medium Juice (other) 1/2 cup +Kiwi 1 large +Longans 1/2 cup +Lychees 10 fruits or 1/2 cup +Mandarin orange 3/4 cup 1/2 cup or 1/2 small √+Mango √Mango, dried 1 ounce 1 (1-1/2" diameter) Nectarine +Orange, fresh 1/2 large or 1 small +Orange juice 1/2 cup Pandanas 1/4 cup (add 1 fat) √+Papaya 1 cup cubed +Passion fruit juice 1/2 cup Peach, fresh 1 medium 1/2 cup or 2 halves Peach, canned Pear. fresh 1/2 large or 1 small Pear, dried 2 small halves or 1/2 cup Pear, canned Persimmon, Japanese 1/2 medium 1 medium Persimmon, native +Pineapple, fresh, 3/4 cup +Pineapple, canned in own juice 3/4 cup +Pineapple juice 1/2 cup Plums, fresh 2 medium Plums, canned Pomegranate 1/2 medium +Pomelo (Pommalo) 1 cup sections Prunes, dried 3 medium Prunes, juice 1/3 cup Raisins 2 tablespoons Soursop, pulp 1/3 cup 1-1/2 cups, cubed +Starfruit +Strawberries 1-1/4 cups +Tangerine 2 medium

Watermelon

1-1/4 cup cubed



+Good source of vitamin C √Good source of vitamin A

Vegetable Group

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

Artichoke Leeks +Asparagus Mushrooms Bamboo shoot Banana bud Okra Onion, round Bean sprouts Beans, goa (winged) √Papaya green Beans, green Pea pods Beets Beet greens +Pepper, green or bell √Pumpkin leaves √+Bele Bittermelon, fruit √+Broccoli √Spinach √Squash, leaf tips +Brussel sprouts √Sweet potato leaves/shoots √Carrots +Cauliflower +Taro leaves Celery +Tomato, canned or fresh √Chili pepper leaves +Tomato juice Collards Tomato paste Cucumber Turnip √Turnip greens Daikon, pickled radish √+Vegetable juice √Dandelion greens Eggplant Water chestnuts Gourd, white flowered Zucchini +Green pepper √Kale √Kang Kong **⊁**Kim Chee

★Food high in salt+Good source of vitamin C√Good source of vitamin A

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

Cabbage - all kinds Celery

√Fern leaves and stems

Green Onions

Lettuce

Parsley

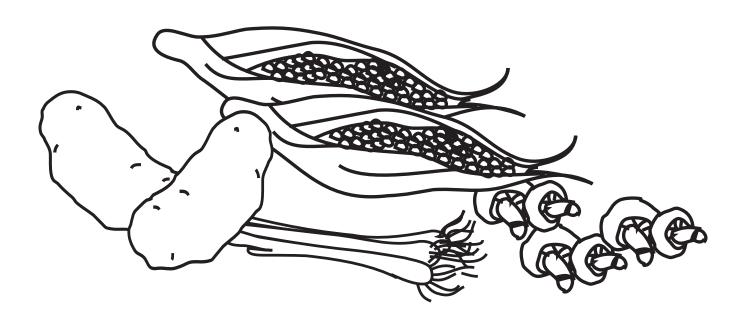
+Radishes (includes Daikon)

√Radish leaves

+Good source of vitamin C √Good source of vitamin A

Seaweed

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	Measure	
Beef	_	_
★Chipped beef Lean chuck, flank steak, ground beef (less than 10% fat), porterhouse, T-bone,	1 ounce or 1 slice (3" x 2" x 1/4")	
sirloin, tenderloin steaks, round, rump	1 ounce or 1 slice (3" x 2" x 1/4")	
⊁Beef jerky	3/4 ounce	
⊁Broth, Chicken	3/4 cup	$(/, \Lambda(/))$
Cheese		41111
Cheese containing less than 5% fat	1 ounce or 1" cube	
Cottage, dry or 2% butterfat	1/4 cup	
Parmesan	2 tablespoons	
Chicken (skin removed)		
Breast	1 ounce or 1 slice (3" x 3" x 1/4") (5 pic	eces to one pound)
Drumstick	1 ounce or 1 slice (3" x 3" x 1/4")	
Thigh	1/2 piece (4 pieces to one pound)	
Roasted	1 ounce or slice (3" x 3" x 1/4")	
Egg		
Egg substitute	1/4 cup	
Whites, large	3	
Fish, canned	1/4 cup	

⊁Food high in salt

Fish

Abalone, crab, dolfin fish, lobster 1/3 cup or 1-1/2 ounces

Clams, cuttlefish, scallops,

shrimp, squid, yellow tail 1/3 cup or 1-1/2 ounces Cod, opakapaka, mullet, red snapper, sole 1/3 cup or 1-1/2 ounces

Eel, mackerel, mussels, octopus 1 ounce Fish cake paste 1/4 cup

Reef fish – red snapper, rabbit fish, parrot fish sword fish

★Salmon, canned, drained1/4 cup★Sardines, canned in oil, drained2 ouncesSea cucumber2 ounces★Tuna, canned in water2 ounces

Pork

Lean leg 1 ounce or 1 slice (3" x 3" x 1/4")

2 ounces

Quail 1 ounce

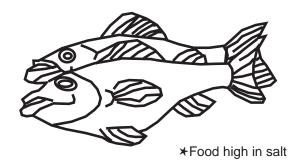
Soybeans 1/3 cup

Turkey (skin removed)

★White and dark meat, roasted
★Turkey ham, turkey pastrami, turkey breast
1 ounce or 1 slice (3" x 3" x 1/4")
1 ounce or 1 slice (3" x 3" x 1/4")

Veal Chop or roast

1 ounce or 1 slice (3" x 2" x 1/4")

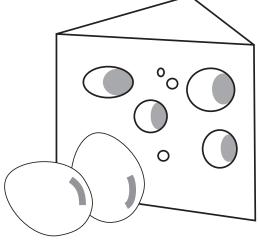


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Protein/Meat Group B (medium fat)

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

Food		Measure	
Beef ★Corned beef Ground beef Rib eye	(15% fat)	1 oz. or 1 slice (3" x 2" x 1/4") 1 oz. 1 oz. or 1 slice (3" x 2" x 1/4")	_
Cheese Cottage, cr	eamed	1/4 cup	
Mozzarella		1 oz.	
Chicken (with skin)		1 wing (6 pieces to one pound)	
Chicken & turkey f	rankfurter	1 oz.	
Cornish game hen		1 oz.	
Dog		1 oz.	
Duck (skin and fat ren	noved)	1 oz.	
Egg, chicken whole (hi	gh in cholesterol)	1 large	
Heart, kidney, or gi	zzards (high in cholesterol)	1 oz.	
Lamb Lean leg, loin,	rib, shank, shoulder, sirloin	1 oz. or 1 slice (3" x 2" x 1/4")	
Liver (high in choleste	rol)	1 oz.	
Luncheon meat (86	-94% fat free)	1 oz.	
	n, shoulder, arm, picnic le, ⊁Canadian bacon	1 oz. or 1 slice (3" x 2" x 1/4") 1 oz. or 1 slice (3" x 2" x 1/4")	
Quail eggs		2 oz.	
Tofu		1/3 cup or 3 oz. (1/6 of a block)	⊁Food
Turkey, ground		1 oz.	



Food high in salt

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 Bacon (Sizzlean) Brisket Ground beef (20% or more fat) Lean short ribs Rib roast, club and rib steak Spare ribs (meat, without bone)	1 ounce 1 ounce 1 ounce 1 ounce 1 ounce or 1 slice (3" x 2" x 1/4") 1 ounce
Cheese Cheddar, American, Monterey, Swiss, Provolone, Blue	1 ounce or 1" cube
⊁Cold cuts Bologna, salami	1 slice
⊁Frankfurter	1 (10 to a pound)
Lamb	1 ounce or 1 slice (3" x 2" x 1/4")
Liverwurst, pork	1 ounce
⊁Luncheon meat	1 ounce
Peanut butter	1 tablespoon
Pig ears	1/2 ear
Pork Spareribs, loins (back ribs), ground pork, country style ham	1 ounce or 1 slice (3" x 2" x 1/4")
⊁Sausage Portugese, Vienna	1 ounce, link or pattie
⊁Spam (canned luncheon meat) Spam Lite	1 ounce 2 ounces
Tail Chicken Turkey	1/2 ounce 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.

	Food	Measure
Avocado		1/8 of 4" diameter
Dres	sings, Salad	
	All varieties	1 tablespoon
	Reduced calorie	2 tablespoons
	Mayonnaise	1 teaspoon
	Mayonnaise, reduced calorie	1 tablespoon
Marg	parine (first ingredient, liquid oil)	1 teaspoon
Nuts		
	Almonds	6
	Cashews	1 tablespoon
	Macadamia	1 tablespoon
	Peanuts	1 tablespoon
	Pecans	1 tablespoon
	Pistachio	1 tablespoon
	Walnuts	4 halves (1 tablespoon)
	Other nuts	1 tablespoon
Oil	cottonseed, corn safflower, sesame,	
	soybean and sunflower, coconut	1 teaspoon
Olive	es, ripe	10 small or 5 large
Sesa	me seeds	1 tablespoon
Sunf	lower seeds, unshelled	1/4 cup
	shelled	1 tablespoon
Tarta	ar sauce	2 teaspoons
	Tartar sauce, low calorie	1-1/2 tablespoons



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.

Food	Measure	
Butter	1 teaspoon	
⊁Bacon , crisp Bacon bits	1 slice 1-1/2 tablespoons	
Cheese, cream	1 tablespoon	
Coconut Immature meat (sponge) Mature meat Cream, no water added Milk (1 cup water to 1 cup cream) Coconut, grated	1-3/4 cup (add 1 bread) 1 piece (1" x 1" x 3/8") 1 tablespoon 2 tablespoons 2 tablespoons	
Coffee whitener Liquid Powder	2 tablespoons 1-1/2 tablespoons	
Cream Whipped Whipping, heavy	2 tablespoons 2 tablespoons 1 tablespoon	
Margarine (first ingredient hydrogenated or hardened oil)	1 teaspoon	
⊁Salt pork	1/4 oz.	
Solid cooking fats, lard, shortening	1 teaspoon	
Sour cream	2 tablespoons	⊁Food high in salt.

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

Coconut water

Coffee, plain

Soft drinks, artifically sweetened

Sugar free drink mixes

Tea, plain Water

Desserts

Equal

Sugar substitutes

Sweet and Low

Miscellaneous

Non stick pan spray

Pickles, unsweetened

⊁Plums, pickled (umeboshi)

Seaweeds

Taco sauce (1 tablespoon)

⊁Soups

Bouillon, without fat

Clear broth

Seasonings

Chives

★Crab extract

Fish sauce

Garlic

Ginger

Mustard, dry or prepared

Parsley

Pepper

★Salt (in moderation)

★Soy Sauce (in moderation)

Spices and herbs

Tabasco sauce

Vinegar



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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 oz., can	3-1/2 fat	
Wine	4 oz.,-1/2 cup	2 fat	
Whiskey, gin, rum, vodka (100 proof)	1-1/2 oz. or 1 shot	3 fat	
Animal crackers	8 crackers	1 starch	
Brownie, no frosting	1 (3" x1-1/2" x 7/8")	1 starch, 1 fat	
Cake, angel food or sponge	cupcake size, flat top	1 starch, 1/2 fat	
Cake, no icing	cupcake size, flat top	1 starch, 1 fat	
Cake, with icing	cupcake size, flat top	1 starch, 2 fat	
Coconut candy	1 oz.	1 starch, 1/2 fat	
Cookies	2 small (1-3/4" across)	1 starch, 1 fat	
Donut, cake	1	1 starch, 1 fat	
French fried potatoes	10	1 starch, 1 fat	
Frozen fruit yogurt	1/3 cup	1 starch	
Gatorade	1 cup	1 fruit	
Granola bars	1	1 starch, 1 fat	
Ice cream, any flavor	1/2 cup	1 starch, 2 fat	
Ice milk	1/2 cup	1 starch, 1 fat	
Jam, jelly, honey	1 tablespoon	1 fruit	
Jello	1/2 cup	1 fruit	*Because of minimal nutrient value,
Juice drinks	12 oz. can	2-1/2 fruit	fat is used as the equivalent exchang

Other Foods for Ocassional Use (Continued)

Food	Measure	Food Group
Macaroni or Potato Salad Milo Muffin	1/2 cup 3 tablespoons 2" diameter	1 starch, 3 fat 1 starch, 1/2 fat 1 starch, 1 fat
Pie, fruit Popsicle	1/8 pie 1/2 twin pop	2 starch, 1 fruit, 3 fat 1 fruit
Sherbert, any flavor Soda, sweetened Snack chips, all varieties Sugar Sugar cane, stalk, peeled	1/4 cup 12 ounce can 1 ounce 1 tablespoon 4 ounce	1 starch 2-1/2 fruits 1 starch, 2 fat 1 fruit 1 fruit
Vanilla wafers	6 small	1 starch
Yogurt with fruit	1 cup	1 calcium/milk, 1 fruit, 1 fat

Local Recipes

	Food	Serving size	Exchanges	
Soup				
	Kosraen soup with coconut cream	1-1/4 cup	1/2 starch, 1 lean meat, 1-1/2 fat	
	Kosraen soup with grated coconut	1 cup	1-1/2 starch, 1/2 lean meat	
Vege	tables			
	Kang Kong pickles		Free food	
Starc	:h			
	Ainpot mos	3/4 cup	1 starch, 4 fat	
	Breadfruit and coconut milk	3/4 cup	1 starch, 4 fat	
	Fried breadfruit	1 cup	2 starch, 3 fat	
	Taro in coconut cream	1-1/4 cup	4 starch, 4 fat	
	Rice with banana	1-1/2 cup	2 starch, 1/2 fruit, 1 fat	
Main	Dishes			
	Fish in coconut milk	3/4 cup	1/2 vegetable, 1-1/2 lean meat, 4 fat	
	Kosrae fried rice	1/2 cup	1-1/2 starch, 1 medium meat, 1 fat	
	Kosrae sukiyaki	1/2 papaya w/filling	1-1/2 fruit, 3 medium meat, 3 fat	
	Mackeral and banana flower	1 cup	3 vegetable, 2 lean meat, 1-1/2 fat	
	Taro sandwich	1 sandwich	3 starch, 1 lean meat, 1 fat	
Dess	ert			
	Banana bread	1 slice (1 ounce)	1 starch, 1 fat	
	Banana fritter with milk	2 fritters	2 starch, 2 fruit, 4-1/2 fat	
	Banana fritter without mik	2 fritters	2 starch, 2 fruit, 4-1/2 fat	
	Breadfruit fritter	4 fritters	4 starch, 1 medium meat, 7 fat	
	Soursop punch	1-1/2 cup	3 fruit, 1/2 calcium/milk, 1 fat	