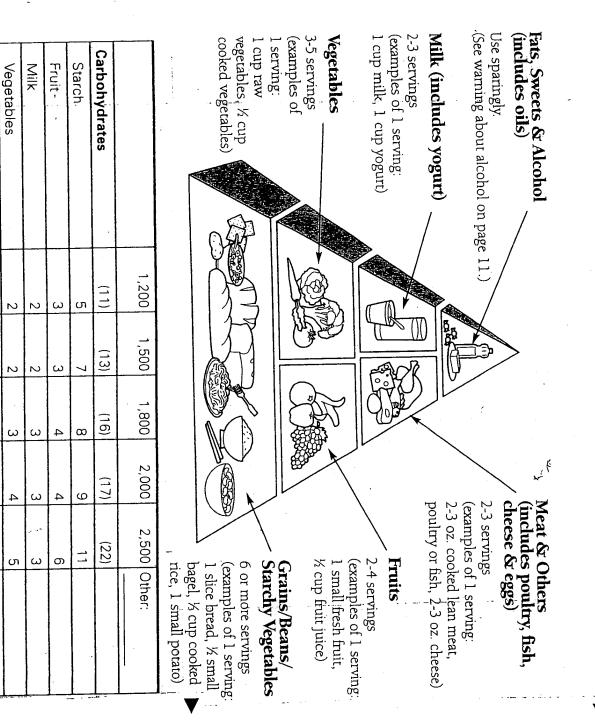
This food pyramid is one tool

and the recommended number of servings to eat from each group. to help you eat a variety of healthy foods. It shows you the different food groups



PLEASE VISIT WWW.DIABETES.ORG FOF ADDITIONAL INFORMATION ON MEAL PLAN RECOMMENDATIONS FROM THE AMERICAN DIABETES ASSOCIATION.

Carbohydrate Counting

value of foods not included on the lists. drates as other carbohydrate food groups any of these high carbohydrate groups is Use nutrition labels to find the carbohydrate to provide the same amount of carbohythat it takes three vegetable servings Milk, Other Carbohydrates (Sweets). Note considered to be equal: Starch, Fruit, Carbohydrate Counting, a serving from servings or as a number of grams. In you may be given either as a number of amount of carbohydrate that's best for All the carbohydrate-containing foods are of the foods that contain carbohydrate. diabetes meal planning, only keep track When using Carbohydrate Counting for main item in food that raises blood sugar in the shaded area of the food lists. The Carbohydrate (starch and sugar) is the

Exchange Meal Plans

An exchange meal plan shows you which foods to eat and in what portions. Foods are divided into groups of like foods: Carbohydrates (Starches, Fruits, Milk; Vegetables, and Other Carbohydrates), Meat and Meat Substitutes, and Fats:

Your own plan will consist of a certain number of servings from each group. The exact number depends on your energy needs. The table below the Food Guide Pyramid shows the number of servings from each group that make up several commonly used calorie levels.

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Meat & Meat Substitutes

Other

Exchange lists

Meat and meat substitutes

Choose very lean and lean meat options whenever possible.

1 exchange (1 oz., unless other measure noted) = 7 g protein

VERY LEAN MEAT AND SUBSTITUTES 0-1 g fat, 35 calories:

chicken or turkey (white meat, no skin), tuna (fresh or canned in water), ¼ cup nonfat or low-fat cottage cheese, 2 egg whites

LEAN MEAT AND SUBSTITUTES 3 g fat, 55 calories:

lean beef trimmed of fat (such as sirloin), ground round, chicken or turkey (dark meat, no skin), lean pork (such as fresh ham), tuna (canned in oil, drained), ¼ cup 4.5%-fat cottage cheese, cheeses with 3 g or less fat per oz.

MEDIUM-FAT MEAT AND SUBSTITUTES 5 g fat, 75 calories:

ground beef (or chicken or turkey), comed beef, pork chops, chicken (with skin – dark meat or fried), fried fish, cheeses with 5 g or less of fat per oz., 1 egg (limit to 3 per week), 1 cup soy milk, 4 oz. or ½ cup tofu

HIGH-FAT MEAT AND SUBSTITUTES 8 g fat, 100 calories:

ground pork, pork sausage, all regular cheeses (such as American, cheddar or Swiss), 1 chicken or turkey hot dog (10/lb.), 3 slices bacon (20 slices/lb.), 1 hot dog* (beef, pork or combination – 10/lb.), 2 Tbsp. peanut butter.**

- *Count as 1 high-fat meat plus 1 fat exchange.
- **Count as 1 high-fat meat plus 2 fat exchanges.

Milk

exchange = 12 g carbohydrate, 8 g protein		
Milk – nonfat or low-fat (1%)	l cup	
(incl Milk – reduced fat (2%) (in _ow-fat yogurt (plain)	udes 0-3 g fat)l cup cludes 5 g fat)	

Starch

1 exchange = 15 g carbohydrate, 3 g protein, 0-1 g fat, 80 calories Beans and peas* (garbanzo, pinto, kidney, white, split, black-eyed)...... ½ cup Cereal (unsweetened, Corn or green peas ½ cup *Count as 1 starch exchange plus one very lean

Fruit

meat exchange.

1 exchange = 15 g carbohydrate, 60 calories (weight includes skin, core, seeds and rind)

Apple (unpeeled)	l small (4 oz.)
Banana	l small (4 oz.)
Canned peaches or pears	К сир
Orange, grapefruit or apple juice	½ cup
Raisins	2 Tbsp.
Strawberries 14 c	up whole berries
Watermelon1 slice (13½ oz.)	or 1¼ cup cubes

Vegetable

1 exchange (½ cup cooked, 1 cup raw) = 5 g carbohydrate, 2 g protein, 0 g fat, 25 calories

Asparagus Greens (collard, kale, mustard)
Beans (green) Mushrooms

Beets Onions
Broccoli Pea pods

Cabbage Peppers (all varieties)
Carrots Salad greens (lettuce, spinach)

Carrots Salad greens (let Cauliflower Summer squash

Celery Tomato
Cucumber Turnips
Eggplant Zucchini



st 3 - Vegetables

(5 grams carbohydrate, 2 grams protein, and 25 calories per serving)

Vegetables are a great source of vitamins and minerals and many also provide some fiber. A serving is 1/2 cup of cooked vegetables, 1/2 cup of vegetable juice, or 1 cup of raw vegetables. (Starchy vegetables like potatoes, corn, and peas are listed with Starches/Breads — List 1. Vegetables with fewer than 20 calories per serving are listed with Free Foods — List 7.)

Beans (green, waxed,	Onion
Italian, snap)	Pea pods or snow
Bean sprouts	peas
Beets	Peppers
Broccoli	Sauerkraut
Cactus leaves	Spinach
(nopales)	Squash (summer,
Cabbage	crook neck,
Carrots	zucchini,
Eggplant	calabazita)
Greens	Tomato
Jicama	Tomato or
Mushrooms	vegetable juice
Ökra	Water chestnuts

(15 grams carbohydrate and 60 calories per

Fruits provide important vitamins and minerals and can be a good source of fiber. To get the most fiber from fruits, eat the edible peelinas.

You can estimate the serving size for fruits that aren't on the list as follows:

	Fresh, canned, or frozen fruit,	1/2 cup
	no sugar added	
	Dried fruit	1/4 cup
	Ser	ving Size
	Apple; raw (2" across)	· 1
	Applesauce; no sugar added	1/2 cup
æ	Banana (medium)	1/2
હ	Berries (raspberries, boysenberries) 1 cup
હ	Berries (blackberries, blueberries)	3/4 cup
	Cantaloupe or honeydew melon	1 cup
	Cherries; raw (large)	12
	Grapefruit (medium)	1/2
	Grapes (small)	15
	Mamey (medium)	1/2
1	Mandarin oranges	3/4 cup
	Mango; fresh (small)	1/2
	Orange (2 1/2" across)	1
	Papaya	1 cup
	Peach or pear (2 3/4" across)	1 whole
	Pineapple; fresh	3/4 cup
	Plums; raw (2" across)	2
	Raisins	2 Tbsp
	Watermelon	1 1/4 cup

st 5 - Milk and Milk Products

Milk and milk products supply calcium and other minerals, vitamins, protein, and carbohydrates. Choose low-fat and skimmed varieties for health. They have less fat, calories, and cholesterol than whole milk products.

Skim Milk and Skim Milk Products

(12 grams carbohydrate, 8 grams protein, 1 gram fat, and 90-110 calories per serving)

***************************************	serving Size
Skim, 1/2%, or 1% milk	8 oz
Buttermilk (low-fat)	8 oz
Yogurt (nonfat, plain	8 oz
or artificially sweetened)	
Hot cocoa from mix	1 envelope
(artificially sweetened)	·

Low-fat Milk and Low-fat Milk **Products**

(12 grams carbohydrate, 8 grams protein, 3	or
more grams fat, and 120-150 calories per	-
serving)	
	οz
Yogurt (low-fat, plain) 8 (

Whole Milk and Whole Milk Products

(12 grams carbohydrate, 8 grams protein, 5 or more grams fat, 150-170 calories per serving)

To reduce your intake of cholesterol and saturated fat, limit or avoid foods in this group.

Whole milk	8 oz
Yogurt, regular, plain	8 oz

st 6 - Fats

(5 grams fat and 45 calories per serving)

Fats add flavor and moisture to foods but provide few nutrients, such as vitamins and minerals. The serving sizes of all fats are small. Choose unsaturated fats instead of saturated fats to help lower blood cholesterol levels.

Unsaturated Fats	Serving Size
Avocado, 4" across	1/8
Margarine, stick, tub	1 tsp
Margarine, diet	1 Tbsp
Mayonnaise, regular	1 tsp
Mayonnaise, reduced-calorie	1 Tbsp
Pesto sauce	2 tsp
Salad dressing, regular	1 Tbsp
Salad dressing, reduced-calorie	2 Tbsp
Oil (canola, corn, safflower, sunf	
olive, soybean, peanut, sesa	ame)
Nuts or seeds	1 Tbsp
Saturated Fats	
Bacon	1 slice
Butter	1 tsp
Chicken fat, pork fat, or beef fat	1 tsp
1) Lard	1 tsp
Nondairy creamer, liquid	2 Tbsp
Nondairy creamer, powdered	4 tsp
Cream (light, table, coffee, sour)	
Cream cheese	1 Tbsp



st 1 - Starches/Breads

(15 grams carbohydrate, 3 grams protein, 1 gram fat, and 80 calories per serving)

These foods are the cornerstone of every healthy eating plan. Most of their calories come from carbohydrates, a good source of energy. Many foods from this group also give you needed fiber, vitamins, and minerals. Prepare and eat starchy foods with as little added fat as possible by limiting butter, margarine, shortening, and oil.

This is just a few of the many available starchy foods. Estimate a single serving size for foods that aren't on the list as follows:

Starchy vegetables, grains, pasta	1/2 cup
Breads and cereals	1 oz
Cooked dried beans of all types	1/3 cup

	Cooked dried beans of all types	1/3 cup
		erving Size
	Pasta	
	Cereal; cooked	1/2 cup
	(oatmeal, cream of wheat,	
	rice, etc)	
	Cereal; dry	(see box)
	(less than 100 calories	
	per serving)	
	(Serving sizes vary.)	
ç	Beans; cooked or canned (all kind	
	Rice; cooked (all kinds)	1/3 cup
	Pasta; cooked (all kinds)	1/2 cup
	Starchy Vegetables	
¥	Corn; cooked or canned	1/2 cup
	Corn meal; uncooked	2 Tbsp
	(masa or matzo meal)	
ø	Corn on the cob (6" piece)	1

Corn meal; uncooked	2 Tbsp
(masa or matzo meal)	
Corn on the cob (6" piece)	1
Malanga; cooked	1/3 cup
Peas (green); cooked or canned	1/2 cup
Plantain (green, mature); cooked	1/3
Potato;	1 small (3 oz)
baked, broiled, steamed	
Squash (winter, acorn, hubbard)	3/4 cup
Yam or sweet potato	1/3 cup

Breads	
Bread (whole wheat, rye, white)	1 oz. slice
Bagel	1/2 (1 oz)
Sandwich bun or roll	1/2
(hamburger, hot-dog, kaiser)	
Roll (dinner, hard)	1 small
English muffin	1/2
Pita pocket bread (6"-8" across)	1/2
Tortilla (6" corn or 8" flour)	1
Dumplinas or anocchi; steamed	2 small

Crackers/Snacks	
Graham crackers (squares)	3
Crackers (80 calories/serving)	4-6
Pretzels (hard)	3/4 oz
Popcorn (plain, popped)	3 cups
	İ
Starches/Breads With Fat	:
(15 grams carbohydrate, 3 grams pro	itein, 5 or
more grams fat, and 125-150 calories	s per
serving)	:
Count as 1 Starch/Bread AND 1 F	at
serving.	
Biscuit (2 1/2")	1
Corn, taco, or tortilla chips	1 oz
Potato chips	101
Refried beans	1/3 cup
Spaghetti sauce or marinara sauce	1/2 cup
Rice (fried, Spanish)	1/3 cup
11.00	

ist 2 - Meat and Meat Substitutes

Small servings of meat and meat substitutes provide ample protein to meet daily needs. For better health, choose lean meats, fish, and poultry more often than medium- and high-fat meats and cheeses.

	right factified to and energe.		1
	Lean Meats Servin	ng Size	e
	(7 grams protein, 3 grams fat, and 55	calories	
	per serving)		
	Cheese with 1-3 grams fat per oz	1 o	Z
	Chicken or turkey, skin removed	1 o	Z
-	Lean beef (round, extra lean	1 0	Z
	ground round, flank steak)		
	Lean pork (Canadian bacon,	1 o	Ζļ
	≥ ham)		
	Fish; fresh or frozen	1 0	
	Menudo (tripe soup)	1/2 cu	• • • •.
	Shellfish (clams, crab, lobster,	2 o	Z :
C WE	octopus, shrimp, or squid)	1/4 000	
N	Tuna; canned in water	1/4 cur 1/4 cur	
	Cottage cheese (low-fat)	1/4 Cu	; ر
	Medium-fat Meats		1
	(7 grams protein, 5 grams fat, and 75	calories	,
	per serving)	00.07.02	
	Beef, pork, or lamb (most cuts)	1 0) Z i
	Cheese with 4-5 grams fat per oz	1 0	
۵	Egg		1
	Liver	1 0	Z
	Cheese, low-fat, part skim	1 0	Z
	(queso jalisco, queso fresco, ricot	ta,	
	string cheese)		
	Tofu	1/2 cu	p
	High-fat Meats	_	
	(7 grams protein, 8 grams fat, and 10	J	
	calories per serving)	1 ~	
Ø.	Cheese with 6-8 grams fat per oz	1 c	14

Peanut butter (smooth or chunky)

Prime beef or corned beef

Sausage, wieners, chorizo, salami, kielbasa, or Spam[®]

Spareribs or barbecue

Chitterlings

1 Tbsp

1 oz

1 oz

1 oz

1 oz

tting in Fast Foods

available from some of the major fast food includes some of the healthier choices list of fast foods with their exchange values. It them into your diabetes plan. Here is a short common that it's smart to learn how to fit Americans eats out. Fast foods are so Every day, it's estimated that one in every two

AppleBran Muffin	Lite Vinaigrette		Chef Salad		McLean Deluxe	McDonald's
2 1/2 Starch/Bread	1 Fat per package	2 Medium Fat Meat	1 Vegetable	2 Lean Meat	2 Starch/Bread	

(medium, 2 slices) Pizza Hut Thin 'n Crispy Cheese Pizza 3 Medium Fat Meat 2 Starch/Bread l Vegetable

Chicken Fajita		•	Tostado	() () () ()	Taco (regular)	Taco Bell
1 Starch/Bread 2 Medium Fat Meat	1 Fat	2 Medium Fat Meat	1 Starch/Bread	2 Lean Meat	1 Starch/Bread	

Chili, Large Bowl	Wendy's Grilled Chicken Sandwich 3 L
2 Starch/Bread	2 Starch
3 Lean Meat	3 Lean Meat

st 7 - Free Foods

these extra foods through the day. blood sugar control, spread your servings of foods that have serving sizes listed. For better size. Eat up to 3 servings per day of free want of the free foods that have no serving 20 calories per serving. Eat as much as you Each free food or drink contains fewer than

	(all types) Salsa (all kinds)	Salad greens	Radishes	Peppers (hot, chile)	Onions	Cucumber	Cilantro		Vegetables		added (1/2 cup)	rhubarb, no sugar	Cranberries or	Fruits		calorie-free	Soft drinks,	Coffee or tea	fat-free	Bouillon or broth,	Drinks
Vinegar	(2 Tbsp)	low-calorie	Salad dressing,	Mustard	Hot sauce	Horseradish	unsweetened	Dill pickles,	Catsup (1 Tbsp)	Condiments		(1 tsp)	no sugar added	Spreadable fruit,	(2 Tbsp)	Whipped topping	sugar-free (2 tsp)	Jam or jelly,	Gelatin, sugar-free	Substitutes	Sweet

Seasonings can be used as desired. If you are sodium or salt. the labels and avoid seasonings that contain following a low-sodium diet, be sure to read

lemon juice Lime or lime juice	Lemon or	Herbs, fresh or dried 🔊 Soy sauce	powder	Garlic or garlic	butter, etc)	(vanilla, almond,	Flavoring extracts
sauce	Worcestershire	Soy sauce	Spices	Pimento	Pepper	Paprika	Onion powder

Meal Plan/1800 Calories

➤ Individualized Me

		8 oz skim or 1% milk	8 oz sugar-free hot cocoa	1 Milk (List 5)
d		1 oz (1 1/2 cups) puffed wheat or rice cereal	3 graham cracker squares 1 small peach or pear	1 Starch/Bread (List 1) 1 Fruit (List 4)
	Evening Shack			Evening Snack
			1 Tbsp regular salad dressing Green salad*	
		1 cup cantaloupe/honeydew melon salad 2 tsp margarine for corn	1 cup raspberries 1 tsp margarine	1 Fruit (List 4) 2 Fat (List 6)
		3 oz flank steak, broiled or grilled 1 cup green beans	3 oz baked chicken 1 cup cooked broccoli	3 Meat (List 2) 2 Vegetable (List 3)
		1 small dinner roll or tortilla 1 cup corn or malanga	1 small dinner roll 2/3 cup brown rice	3 Starch/Bread (List 1)
	Dinner			Dinner
			OR 1 tsp margarine	
		1 Tbsp reduced-calorie mayonnaise	1 Tbsp reduced-calorie	1 Fat (List 6)
		Sliced tomato, lettuce on sandwich* 1 1/4 cups watermelon	1 apple	1 Fruit (List 4)
		3 oz sliced turkey	3 oz sliced lean ham	0-2 Venetable (List 3)
	Lunch	2 slices rye bread	2 slices whole wheat bread	2 Starch/Bread (List 1)
				Lunch
		1 Tbsp cream cheese	1 tsp margarine	1 Fat (List 6)
		3/4 cup mandarin oranges, drained and mixed with	8 oz skim or 1% milk	1 Milk (List 5)
		r bager (writter wriedt of pumpernickel)	1 slice whole wheat toast	1 Fruit (List A)
Ime:	breaktast	1 hand (whole whose some	1/2 cup bran flakes cereal	2 Starch/Bread (List 1)
		Sample Mon., 2	Sample Menu 1	Breakfast
		Use the exchange lists to plan your own menus.	Use the exchange lists to plan your own menus.	Use the exchange lists
	Fat:		W same of the wave the excha	These two menus show
	Carbohydrate: Protein:		20% of total calories 30% of total calories	Fat: 90 g
	Calories:		50% of total calories	/drate: 2

*From List 7 - Free Foods

Key: oz = ounce Tbsp = tablespoon tsp = teaspoon