

Eat What You Store,  
Store What You Eat  
Substitutions

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# Substitutions

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## Measurements

pinch = 1/16 tsp.

dash = 6 drops or 1/8 tsp.

1/4 T. = 3/4 tsp.

3 tsp. = 1 T.

1/8 C. = 2 T. = 1 fl. oz.

1/4 C. = 4 T. = 2 fl. oz.

1/3 C. = 5 T. + 1 tsp.

1/2 C. = 8 T. = 4 fl. oz.

3/4 C. = 12 T. = 6 fl. oz.

1 C. = 16 T. = 1/2 pint = 8 fl.

oz.

2 C. = 1 pint = 16 fl. oz.

4 C. = 2 pints = 1 quart = 32

oz.

16 C. = 4 quarts = 1 gallon

8 quarts = 1 peck

4 pecks = 1 bushel

1 liter = 1 quart plus 3 oz.

2 oz. = 1/8 pound

4 oz. = 1/4 pound

8 oz. = 1/2 pound

16 oz. = 1 pound

## Eggs

You can't always substitute powdered eggs for fresh eggs, but you can use the powdered eggs in cooking and never know the difference.

- Using powdered eggs for scrambled eggs can take some getting used to, so practice and play with it. To begin with try substituting ¼ powdered eggs and ¾ fresh eggs, then slowly increase the powdered eggs.
- Powdered eggs work great in: cakes, scrambled eggs, omelets, any egg-based breakfast dish that doesn't require boiled, poached or fried eggs, and any other baking that calls for eggs.

- Most recipes call for 2 eggs, so buy a 2T. or 1/8 cup measuring cup to quickly measure enough powdered eggs for the recipe. This type of scoop is sometimes called a coffee scoop.

Fresh Egg	Powdered Eggs
<b>1 medium egg</b>	= 1 T. dry powdered eggs + 2 T. water
<b>1 large egg</b>	= 1 ½ T. dry powdered eggs + 3 T. water
<b>1 extra large egg</b>	= 2 T. dry powdered eggs + ¼ cup water

## Milk

### Powdered Milk

Powdered milk is one of the easiest substitutions to make. It's fast and easy to make and even tastes good these days.

- All powdered milk is non-fat because fat eventually turns rancid, so in order to make powdered milk have a long term shelf life, all fat is removed before it is dehydrated.
- Instant VS Non- Instant Powdered Milk: The main difference between the two is how long it takes to dissolve the powder in water. Dry instant powdered milk is light and fluffy; it dissolves in cold water quickly. While non-instant powdered milk is denser and must be dissolved in warm water. It also requires more stirring.
- Non-instant milk takes up less space than instant which is why you'll find non-instant at Church canneries.
- If you use instant milk as a substitution in recipes that call for non-instant, you should double the amount of instant milk used.
- To make powdered milk taste better
  - Always server it ice cold if possible
  - Add 1 tsp. of vanilla per 2 quarts – delicious!
    - Be careful when you cook with powdered milk that you've added vanilla to, it changes the flavor of what you're cooking! :-D
- When using dry powdered milk as a substitute for milk in everyday cooking remember the following:
  - There's no need to mix the dry powdered milk and water before adding them to the other ingredients. Instead add the dry powdered milk to the dry items, then the water to the wet.
  - Powdered milk does not need to be scalded. When substituting dry powdered milk for scalded milk, just add the powdered milk.
  - Use the Milk Conversion Chart below to figure out how much powdered milk to substitute for fresh milk, instead of making a quart and wasting what you're not using in the recipe.

### Sweetened Condensed Milk

Sweetened condensed milk was created during the Civil War so that soldiers could have milk that wouldn't turn rancid during long campaigns where fresh milk was not available.

- Made from regular milk with water removed and sugar added to prevent bacteria from growing.
- Can be made from powdered milk
  - It's MUCH cheaper to make your own sweetened condensed milk from powdered milk than to buy it in cans.
  - It costs about \$3/can but you can make the same amount from powdered milk for 75 cents
  - Use in any recipe calling for canned sweetened condensed milk

❖ **Sweetened Condensed Milk Recipe**

- ❖ ½ c. hot water
- ❖ 1 c. non-instant dry powdered milk
- ❖ 1 c. sugar
- ❖ 1 T. butter

Combine ingredients and mix thoroughly in blender. Use immediately or store in fridge or freezer.

### Evaporated Milk

Evaporated milk was created during the Great Depression as a cheaper, more storable version of cream. It is made from whole milk

- Evaporated milk does not store as long as dry powdered milk
- Homogenized milk with 60% of the water removed
- Used to make desserts!

❖ **Evaporated Milk Recipe**

- ❖ 1½ c. water
- ❖ ½ c. + 1 T. non-instant dry powdered milk

Combine ingredients and mix thoroughly. Makes 1½ cups (equivalent to a 12 oz. can)

### Milk Conversion Chart

Fresh Milk called for	Water	Dry Powdered Milk
1 Cup	1 Cup	3 tbsp.
¾ Cup	¾ Cup	2-¼ tbsp.
⅔ Cup	⅔ Cup	2 tbsp.
½ Cup	½ Cup	1-½ tbsp.
⅓ Cup	⅓ Cup	1 tbsp.

<b>1/4 Cup</b>	1/4 Cup	3/4 tbsp.
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Sweetened Condensed Milk	Evaporated Milk	Buttermilk
(14 oz. can)	(12 oz. Can)	Add a tablespoon of lemon juice or white vinegar to a cup of milk and let it stand for 5 to 10 minutes.
1/2 C. Hot Water	1-1/2 C. Water	
1 C. Dry Powdered Milk	1/2 C. + 1 T. Dry	
1 C. Sugar	Powdered Milk	
1 T. Butter	Blend VERY WELL in Blender	
Blend VERY WELL in blender		

## Honey

- Properly refined honey will keep indefinitely if stored in containers with tight-fitting lids at room temperature in a cool, dark, and dry place.
- Honey will crystallize and darken with age and if exposed to heat. To de-crystallize honey after extended storage; put the container in a shallow pan of hot water to melt the crystals. Do not boil. Left uncovered, honey will absorb other odors and moisture which could change its flavor and storage life.
- Honey is two times sweeter than sugar. So, when substituting honey for sugar, in most recipes, only half as much honey is needed.
- When baking with honey as a substitute for sugar, reduce the liquid called for in the recipe by 1/4 cup for every cup of honey used to replace the sugar.
- Bake items at a 25 degree lower temperature when using honey.
- Mix honey with the liquid ingredients of your recipe to make sure it is well distributed.
- Wet or spray your measuring utensils first to make measuring honey less messy, or measure out the oil in a recipe first and then use the same cup to measure out the honey.
- Brown sugar can be made from honey by adding molasses. Add two tablespoons of molasses to every 1/2 cup of honey or fructose.
- Honey can be substituted for sugar measure-for-measure in the following items: baked apples, baked ham, candied vegetables, dressings, glazes, pie fillings, puddings, custards, punch drinks, and, sweet n' sour dishes.

## Herbs, Spices and Seasonings Substitutions

Food	Amount	Substitute
<b>Allspice</b>	1 tsp	1/2 tsp cinnamon, 1/2 tsp ground cloves OR 1/2 tsp ground cinnamon, 1/4 tsp. ground cloves, 1/4 tsp ground nutmeg
<b>Ammonium carbonate</b>	3/4 tsp	1 tsp baking soda
<b>Anchovy, mashed</b>	1	1 tsp anchovy paste
<b>Anise Extract</b>	1 tsp	1 1/2 tsp anise seed
<b>Aniseed</b>	1 tsp	1 tsp Fennel seed or a few drops anise extract
<b>Apple Pie Spice</b>	1 tsp	Mix 1/2 tsp ground cinnamon, 1/4 tsp ground ginger, 1/8 tsp ground allspice and 1/8 tsp ground nutmeg OR 1 tsp cinnamon plus 1/8 tsp ground nutmeg OR 1/2 tsp cinnamon, 1/4 tsp nutmeg, and 1/8 tsp cardamom OR 1/2 tsp ground cinnamon, 1/4 tsp ground nutmeg, 1/8 tsp ground allspice, 1/8 tsp ground cardamom
<b>Arrowroot</b>	1 tbsp	2 tbsp all-purpose flour OR 1 tbsp cornstarch
<b>Basil</b>	1 tsp	1 tsp Oregano or thyme
<b>Bay Leaf</b>	1 whole	1/4 tsp crushed
<b>Beau monde</b>	1 tbsp	2 tsp onion powder, 1 tsp celery salt
<b>Cardamom</b>	1 tsp	1 tsp Ginger OR 1 tsp ground cinnamon
<b>Cayenne</b>	1/8 tsp	4 drops tabasco sauce
<b>Celery Salt</b>	1 tsp	3/4 tsp salt, 1/4 tsp crushed celery seed
<b>Celery seed (for pickling)</b>	1 tbsp	1 tbsp dill seed
<b>Chervil</b>	1 tsp	1 tsp dried parsley flakes plus 1/8 tsp rubbed, dried sage OR 1 tsp parsley
<b>Chili Hot Red, dried, whole</b>	1 tsp	1 tsp Crushed red pepper
<b>Chili Powder, hot</b>	1 tsp 1 tsp 1 tsp	1 tsp regular chili powder plus 1/8 tsp ground red pepper OR Dash bottled hot pepper sauce plus a combination of oregano and cumin OR 2 tsp cumin, 1 tsp cayenne, 1 tsp oregano, 1/2 tsp garlic powder
<b>Chinese Five Spice</b>	1 tsp	1/4 tsp each of: Crushed anise seeds, ground cinnamon, ground cloves and ground ginger
<b>Chives</b>		Green onion, onion, or leek
<b>Cilantro</b>		Parsley
<b>Cinnamon</b>	1 tsp	1/4 tsp Nutmeg or allspice
<b>Cinnamon Sugar</b>	1 cup	7/8 cup granulated sugar, 2 tbsp ground cinnamon
<b>Cloves</b>		Allspice, cinnamon, or nutmeg
<b>Cumin</b>		Chili powder
<b>Curry Powder</b>	1 tbsp	1/2 tsp ground cardamom, 1/2 tsp cayenne, 1/2 tsp ground coriander seed, 1/2 tsp cumin, 1/2 tsp ground ginger, 1/2 tsp turmeric
<b>Dill</b>	3 tsp fresh chopped	1 tsp dried dill
<b>Dried Herbs</b>	1/2 tsp dried	1 tsp fresh
<b>Fennel seeds</b>	1 tsp	1 tsp caraway seeds
<b>Fines Herbs</b>	1 tsp or 1/3 cup	1/4 tsp each of dried thyme leaves, oregano leaves, sage leaves and rosemary OR 3 tbsp parsley flakes, 2 tsp dried chervil, 2 tsp dried chives, 1 tsp dried tarragon
<b>Five Spice Power</b>	5 tsp	1 tsp ground anise, 1 tsp ground fennel, 1 tsp ground cloves, 1 tsp ground cinnamon, 1 tsp ground pepper
<b>Garlic</b>	1 clove fresh	1/8 tsp garlic powder OR 3/4 tsp minced garlic OR

		1/2 tsp garlic salt OR 1/2 tsp garlic juice OR 1 tsp garlic paste
<b>Garlic Powder</b>	1/8 tsp	1/2 tsp garlic juice OR 1 tsp garlic paste OR 1/2 tsp garlic salt
<b>Garlic Salt</b>	1/2 tsp	1/2 tsp garlic juice OR 1 clove garlic, minced OR 1/8 tsp garlic powder
<b>Ginger</b>	1 tbsp	Allspice, cinnamon, mace, or nutmeg OR 1/8 tsp powdered ginger
<b>Gingerroot (grated fresh)</b>	1/2 tsp	1/4 tsp ground ginger
<b>Herbs, dried leaf</b>	1 tsp	1/4 tsp herbs, powdered
<b>Herbs, fresh</b>	1 tsp 1 tbsp	1/2 tsp herbs, dried 1 tsp herbs, dried
<b>Italian Seasoning</b>	2 tbsp	1 tsp each of: basil, oregano, marjoram, rosemary, sage and thyme
<b>Leeks (sliced)</b>	1/2 cup	1/2 cup sliced green onions or shallots
<b>Mace</b>		Allspice, cinnamon, ginger, or nutmeg
<b>Marjoram</b>		Basil, thyme, or savory
<b>Mint</b>		Basil, marjoram, or rosemary
<b>Nutmeg</b>		Cinnamon, ginger, or mace
<b>Onion Powder</b>	1 tsp	1 tbsp instant minced onion
<b>Oregano</b>		Thyme, basil, or marjoram
<b>Parsley, dried</b>	1 tsp	1 tsp Chervil or cilantro
<b>Parsley, fresh, chopped</b>	1 tbsp	1 tsp parsley flakes
<b>Pepper flakes, hot</b>	1 tsp	1/2 tsp cayenne
<b>Poultry Seasoning</b>	1 tsp 1 1/3 tsp	3/4 tsp sage, 1/4 ground thyme OR 3/4 tsp sage, 1/4 tsp thyme, 1/8 tsp ground cloves, 1/4 tsp pepper
<b>Pumpkin Pie Spice</b>	1 tsp	1/2 tsp ground cinnamon, 1/4 tsp ground ginger, 1/8 tsp ground allspice, 1/8 tsp ground nutmeg OR 1/2 tsp ground cinnamon, 1/8 tsp ground nutmeg, 1/8 tsp ground mace, 1/8 tsp ground ginger, 1/8 tsp ground cloves
<b>Red Pepper</b>		Dash bottled hot pepper sauce or black pepper
<b>Rosemary</b>		Thyme, tarragon, or savory
<b>Sage</b>		Poultry seasoning, savory, marjoram, or rosemary
<b>Salt, seasoned</b>	4 tsp	2 tsp salt, 1/2 tsp sage, 1/2 tsp parsley flakes, 1/2 tsp onion powder, 1/4 tsp marjoram, 1/4 tsp paprika
<b>Salt, table</b>	1 tbsp	1 1/2 tbsp kosher salt
<b>Savory</b>		Thyme, marjoram, or sage
<b>Sesame Seed</b>	1 tbsp	1 tbsp finely chopped blanched almonds
<b>Tarragon</b>		Chervil, dash fennel seed, or dash aniseed
<b>Thyme</b>		Basil, marjoram, oregano, or savory
<b>Tumeric</b>	1 tsp	1 tsp dry mustard

## Assorted Baking Ingredients

Food	Amount	Substitute
<b>Baker's Ammonia (Hartshorn)</b>	1 tsp	1 tsp baking powder (when using in cookie recipes)
<b>Baking Mix</b>	2 cups	Mix 1 3/4 cups all-purpose flour, 2 1/2 tsp baking powder, 3/4 tsp salt and 1/3 cup shortening
<b>Baking Powder</b>	1 tsp	1/4 tsp baking soda plus 1/2 tsp cream of tartar OR 1/4 tsp baking soda plus 1/2 cup sour milk, buttermilk, or plain yogurt OR

		1/4 tsp baking soda plus 1/2 tsp vinegar or lemon juice used with sweet milk to make 1/2 cup OR 1/4 teaspoon baking soda plus 1/4 to 1/2 cup molasses (decrease liquid in recipe by 1-2 tbsp) 1 tsp Baker's Ammonia (or Hartshorn)
<b>Biscuit Mix</b>	2 1/4 cups	2 cups flour sifted, 1 tbsp baking powder, 1 tsp salt, 1/4 cup shortening
<b>Cake Flour</b>	1 cup	1 cup minus 2 tbsp all-purpose flour, sifted OR 1 cup all-purpose flour sifted 3 times, then measured to make 1 cup OR 7/8 cup all-purpose flour plus 2 tbsp cornstarch
<b>Carob Powder</b>	1 tbsp	1 tbsp cocoa powder
<b>Chocolate</b>	1 square unsweetened	3 tbsp unsweetened baking cocoa plus 1 tbsp butter, vegetable shortening or margarine OR 3 tbsp carob powder plus 2 tbsp water
	1 oz semisweet baking or bittersweet	1 oz unsweetened baking chocolate plus 1 tbsp sugar
	1 cup semisweet chips	6 oz semisweet baking chocolate, chopped
<b>Cocoa</b>	1/4 cup or 4 tbsp	1 oz (square) chocolate (decrease fat called for in recipe by 1/2 tbsp)
<b>Coconut</b>	1 tbsp grated, dry	1 1/2 tbsp fresh, grated
<b>Coconut Cream</b>	1 cup	1 cup cream
<b>Coconut Milk</b>	1 cup	1 cup milk
<b>Cornmeal, self-rising</b>	1 cup	1 cup plain cornmeal, 1 tsp baking powder, 1/2 tsp salt
<b>Cornstarch</b>	1 tbsp	2 tbsp all-purpose flour OR 2 tbsp tapioca OR 2 1/2 tsp arrowroot
<b>Corn Syrup</b>	1 cup light	Mix 1 cup granulated sugar with 1/4 cup liquid used in recipe OR 1 1/4 cups light brown sugar, 1/3 cup liquid OR 1 cup honey
	1 cup dark	1 cup light corn syrup OR 3/4 cup light corn syrup plus 1/4 cup molasses OR 1 cup maple-flavored syrup
<b>Cream of Tartar</b>	1/2 tsp	1 1/2 tsp lemon juice or vinegar
<b>Flour, all-purpose</b>	1 tbsp (for thickening)	1/2 tbsp cornstarch, potato starch, rice starch, or arrowroot starch OR 1 tbsp granular tapioca OR 2 tsp quick-cooking tapioca OR 1/2 tbsp arrowroot OR 1 egg, 2 egg whites, or 2 egg yolks OR 1 tbsp corn flour OR 7/8 cup rice flour OR 2 tbsp browned flour OR 1 1/2 tbsp whole wheat flour OR 1/2 tbsp whole wheat flour plus 1/2 tbsp all-purpose flour
<b>Flour, cake</b>	1 cup sifted	1 cup minus 2 tbsp all-purpose flour, sifted OR 1 cup all-purpose flour sifted 3 times, then measured to make 1 cup OR 7/8 cup all-purpose flour plus 2 tbsp cornstarch
<b>Flour, corn</b>		All-purpose flour
<b>Flour, gluten</b>	13 tbsp	1 cup all-purpose flour
<b>Flour, masa harina</b>		Cornmeal
<b>Flour, pastry</b>	1 cup	7/8 cup all-purpose flour
<b>Flour, potato</b>	1 tbsp	2 tbsp all-purpose flour OR 1 tbsp cornstarch
<b>Flour, rice</b>	7/8 cup	1 cup all-purpose flour
<b>Flour, rye</b>	1 1/4 cup	1 cup all-purpose flour
<b>Flour, self-rising</b>	1 cup	1 cup all-purpose flour plus 1 1/2 tsp baking powder and 1/2 tsp salt

<b>Flour, whole wheat, coarse</b>	1 cup	7/8 cup all-purpose flour
<b>Flour, whole wheat, fine</b>		All-purpose flour
<b>Marshmallow</b>	1 regular	10 mini marshmallows
<b>Marshmallow Creme</b>	1 jar	Melt 16 ounces of marshmallows and 3 1/2 tbsp corn syrup in a double boiler
<b>Marshmallows, miniature</b>	1 cup	10 large marshmallows
<b>Marzipan</b>	2 1/2 cups	2 cups almond paste, 1 cup powdered sugar, 2 tbsp corn syrup
<b>Molasses</b>	1 cup	1/2 cup honey (flavor will be milder) OR 3/4 cup sugar, 1/4 cup water
<b>Onion Soup Mix, dry</b>	2 tbsp	1 tbsp instant minced onion, 1 beef bouillon cube
<b>Sugar, brown</b>	1 cup	1 cup granulated sugar plus 1 tbsp molasses or dark corn syrup
<b>Sugar, brown, dark</b>	1 cup	1 cup granulated sugar plus 2 tbsp molasses or dark corn syrup
<b>Sugar, confectioners' or powdered</b>	1 cup	3/4 cup granulated sugar OR 1 cup granulated sugar and 1 tsp of cornstarch finely ground in blender.
<b>Sugar, cube</b>	1	1/2 tsp granulated sugar
<b>Sugar, granulated</b>	1 cup	1 cup light brown sugar (packed) OR 2 cups powdered sugar OR 3/4 cup honey (reduce liquid in recipe by 1/4 cup) OR 1 3/4 cups confectioners' sugar (not for baking)
<b>Sugar, superfine</b>		Grind granulated white sugar in a blender or food processor
<b>Sugar, white</b>	1 cup	1 cup Sugar Twin or Sprinkle Sweet
	2 tsp	1 packet Equal
	1 tsp	10 drops of Sweet 10
	1/2 cup	1 tbsp of Sweet 10
<b>Vanilla Bean</b>	2-inch piece	1 tsp pure vanilla extract
<b>Yeast, compressed</b>	1 cake	1 package or 2 tsp active dry yeast
<b>Yeast, regular or quick active dry</b>	1 pkg (1/4 oz)	2 1/4 tsp regular or quick active dry OR 1 pkg (.6 oz) compressed cake yeast

## Cheese and Dairy Products

Food	Amount	Substitute
<b>Butter</b>	1 cup	1 cup margarine OR 1 1/3 cup whipped butter (for sauteing) OR 1 cup hydrogenated fat plus 1/2 tsp salt OR 7/8 cup oil plus 1/2 tsp salt OR 7/8 cup lard plus 1/2 tsp salt OR 7/8 cup vegetable shortening OR 7/8 cup oil OR 3/4 cup olive oil OR 8 tsp (1 envelope) butter buds, 1/2 cup liquid, 1/2 cup butter
<b>Buttermilk or Sour Milk</b>	1 cup	Mix 1 tbsp white vinegar or lemon juice with 1 cup milk, let stand 5 minutes OR 1 cup whole milk, 1 3/4 tsp cream of tartar OR 1 cup water, 1/4 cup buttermilk powder OR 3/4 cup of plain yogurt and 1/4 cup of milk 1 cup plain yogurt (for baking) OR 1 cup sour cream (for baking)
<b>Cheese, farmer</b>		Cottage cheese, dry or drained
<b>Cheese, goat</b>		Feta cheese
<b>Cheese, mascarpone</b>		Cream cheese
<b>Cheese, parmigiano reggiano</b>		Domestic Parmesan, Grana Padano, aged Asiago, Pecorino Romano

<b>Cheese, ricotta</b>		Cottage cheese
<b>Cheese, romano</b>		Parmesan cheese
<b>Cheese, sharp cheddar</b>	1 cup	1 cup cheddar (mild), 1/8 tsp dry mustard, 1/4 tsp worcestershire sauce
<b>Cottage cheese</b>		Ricotta or farmer cheese
<b>Cream Cheese</b>		Part skim milk ricotta cheese or lowfat cottage cheese beaten until smooth
<b>Cream, half and half</b>	1 cup	7/8 cup whole milk plus 1/2 tbsp butter OR 3 tbsp oil plus milk to equal 1 cup OR 1 cup evaporated milk OR 3/4 cup whole milk plus 1/4 cup heavy cream OR 2/3 cup skim or low-fat milk plus 1/3 cup heavy cream
<b>Cream, heavy</b>	1 cup (not for whipping)	3/4 cup sweet milk plus 1/3 cup butter OR 2 cups whipped dessert topping OR 1 cup evaporated milk
	1 cup whipped	2/3 cup buttermilk plus 1/3 cup oil
<b>Cream, light</b>	1 cup	1/2 cup heavy cream, 1/2 cup whole milk OR 7/8 cup sweet milk plus 3 tbsp butter OR 1 tbsp melted butter plus enough milk to make 1 cup
	1 cup (for cooking)	7/8 cup whole milk, 3 tbsp butter OR 1 cup undiluted evaporated milk
<b>Cream, soured</b>	1 cup	7/8 cup sour milk plus 3 tbsp butter OR 7/8 cup buttermilk plus 3 tbsp butter
<b>Cream, whipped, sweetened</b>	1 cup	4 oz whipped topping OR 1 1/4 oz dessert topping mix, prepared OR 13 oz. can evaporated milk chilled for 12 hours plus 1 tsp lemon juice. Whip until stiff. OR 1/2 cup ice-cold water and 1/2 cup nonfat dry milk. Beat until stiff. Add 1/2 cup sugar while beating. Add 2 tbsp lemon juice and beat until mixed.
<b>Cream, whipping</b>	1 cup	2/3 cup evaporated milk, 4 tsp lemon juice or vinegar OR 1/2 cup nonfat dry milk, 1/3 cup water, 1 tbsp lemon juice
<b>Creme frache</b>	1 cup	1/2 cup sour cream plus 1/2 cup heavy cream
<b>Half and Half</b>	1 cup	7/8 cup whole milk, 1 1/2 tsp butter OR 1/2 cup whole milk, 1/2 cup light cream OR 3/4 cup whole milk, 1/4 cup heavy cream OR 2/3 cup low-fat or skim milk, 1/3 cup heavy cream
<b>Milk, condensed, sweetened</b>	1 cup	1 cup nonfat dry milk, 1/2 cup boiling water, 2/3 cup sugar, 3 tbsp melted butter (process in blender until smooth) OR 1 cup evaporated milk plus 1 1/4 cup of sugar cooked over low heat until sugar is dissolved.
<b>Milk, evaporated</b>	1 can (12 oz)	12 oz cream OR Whip until smooth: 1 cup nonfat dry milk, 1 3/4 cups warm water. Keep refrigerated.
<b>Milk, regular or low-fat</b>	1 cup	1/2 cup evaporated milk plus 1/2 cup water OR nonfat dry milk prepared as directed on package
<b>Milk, skim</b>	1 cup	3/4 cup water, 1/3 cup nonfat dry milk
<b>Milk, sour</b>	1 cup	1 cup sweet milk plus 1 tbsp vinegar or lemon juice
<b>Milk, sweet</b>	1 cup	1/2 cup evaporated milk plus 1/2 cup water OR 1 cup reconstituted nonfat dry milk plus 2 tsp butter
<b>Milk, whole</b>	1 cup	1/2 cup evaporated milk, 1/2 cup water OR 1 cup nonfat milk, 2 1/2 tsp butter OR 1 cup skim milk, 1 tbsp melted butter OR 7/8 cup skim milk, 1/8 cup heavy cream OR 5/8 cup skim milk, 3/8 cup half and half OR 2/3 cup 1% milk, 1/3 cup half and half OR 3/4 cup 2% milk, 1/4 cup half and half OR

		1 cup water, 4 tbsp dry whole milk OR 1 cup water plus 1 1/2 tsp butter (in baking) OR 1 cup reconstituted nonfat dry milk plus 2 1/2 tsp butter
<b>Sour Cream</b>	1 cup	1 cup plain whole yogurt, 3 tbsp melted butter OR 3/4 cup buttermilk plus 1/4 cup oil OR 3/4 cup milk, 3/4 tsp lemon juice and 1/3 cup butter or margarine OR 1/2 cup cottage cheese and 1/2 cup. of plain yogurt.
<b>Sour Cream (for baking)</b>	1 cup	3/4 cup sour milk or buttermilk, 1/3 cup butter OR 1 cup plain yogurt, 1 tsp baking soda OR 1 tbsp lemon juice, 7/8 cup plus 1 tbsp evaporated milk
<b>Sour Cream (for dips)</b>	1 1/4 cups	1 cup cottage cheese, 1/4 cup plain yogurt or buttermilk (blend in processor) OR 1 cup cottage cheese, 1 tbsp lemon juice, 1/4 cup milk or water, 1/8 tsp salt (blend in processor) OR 8 oz cream cheese, 1/4 cup milk (blend in processor)
<b>Whipping Cream (whipped)</b>		Frozen (thawed) whipped topping OR Prepared whipped topping mix
<b>Yogurt, plain</b>		Sour cream OR Buttermilk OR Cottage cheese blended until smooth

## Eggs

Food	Amount	Substitute
<b>Egg (for baking)</b>	1	1 egg yolk, 1 tbsp water
<b>Egg</b>	1	Mix 2 tbsp of milk with 1/2 tsp baking powder OR 2 egg yolks OR 1 egg white plus 2 tsp oil OR 2 egg whites OR 1/4 cup cholesterol-free egg substitute OR 2 egg yolks (for puddings or custard) OR 2 egg yolks plus 1 tbsp water (for bars or cookies)
<b>Egg Substitute</b>	1 egg	2 egg whites plus 1-3 tsp vegetable oil for each yolk omitted OR 1 egg white, 2 1/4 tsp nonfat dry milk powder, 2 tsp vegetable oil
<b>Egg White</b>	1	1 tbsp meringue powder plus 2 tbsp water
<b>Egg Yolks</b>	2 1 large egg yolk	1 whole egg 2 tbsp egg substitute

## Fats, Oils and Vinegars

Food	Amount	Substitute
<b>Balsamic Vinegar</b>		Sherry or cider vinegar
<b>Chili Oil</b>	1/4 tsp	1/4 tsp salad oil plus pinch of cayenne
<b>Lard</b>		Shortening
<b>Sesame Oil</b>	1 tbsp	1 1/2 tsp sesame seeds saut�ed in 1/2 tsp vegetable oil
<b>Shortening, melted</b>	1 cup	1 cup cooking oil (cooking oil should not be substituted if recipe does not call for melted shortening)
<b>Shortening</b>	1 cup	1 cup minus 2 tbsp lard OR 1 1/8 cups butter or margarine (decrease salt by 1/2 tsp)
<b>Vegetable Oil</b>		Olive oil
<b>Vinegar</b>		Lemon juice
<b>Vinegar, Chinese</b>		Balsamic vinegar
<b>Vinegar, Red Wine (for salad dressing)</b>	4 tbsp	3 tbsp cider vinegar, 1 tbsp red wine
<b>Vinegar, Sherry</b>		Balsamic vinegar

## Fruits and Vegetables

Food	Amount	Substitute
<b>Capers</b>		Chopped green olives
<b>Celery</b>	1/2 cup (1 rib)	1/4 cup celery flakes OR 1/2 cup green pepper or fennel bulb
<b>Chile, Scotch Bonnet</b>		Habanero chili
<b>Chile, Serrano</b>		Jalapeno chile
<b>Chives</b>		Scallion greens
<b>Currants, dried</b>		Raisins or chopped dates
<b>Dates, chopped</b>		Dried currants OR Chopped figs OR Chopped prunes OR Chopped raisins
<b>Horseradish</b>	1 tbsp fresh	2 tbsp bottled
<b>Jicama, chopped</b>		Chopped water chestnuts or tart apple
<b>Leeks</b>		Shallots
<b>Lemon or Lime Juice (fresh)</b>		Bottled lemon or lime juice or white vinegar
<b>Lemon or Lime Peel (grated)</b>		Dried lemon or lime peel
<b>Mushrooms, fresh</b>	1 cup cooked sliced 1 lb 1 lb	1 can (4 oz) mushroom stems and pieces, drained OR 12 oz canned mushrooms OR 3 oz dried mushrooms, reconstituted
<b>Mushrooms, powdered</b>	1 tbsp	3 tbsp whole dried mushrooms OR 4 oz fresh OR 2 oz canned
<b>Onion, fresh</b>	1/4 cup minced	1 tbsp instant minced onion OR 1 tbsp onion flakes OR 1 tsp onion powder
	1 med-size onion, chopped (2/3 cup)	1 tbsp onion powder OR 1/4 cup instant minced or chopped onion
<b>Onion Juice</b>	2 tbsp	3/4 tsp instant minced onion OR 3/4 tsp onion flakes
<b>Orange</b>	1 medium	6-8 tbsp juice
<b>Orange Peel (fresh, grated)</b>	1 tsp	1 tsp dried orange peel OR 1/2 tsp orange extract OR 2 tbsp orange juice (for flavoring)
<b>Peas, Snow</b>		Sugar snap peas
<b>Pimento</b>	2 tbsp chopped	3 tbsp red bell pepper, chopped
<b>Peppers, Green Bell</b>	1 tbsp dried	3 tbsp fresh green pepper, chopped
<b>Peppers, Red Bell</b>	1 tbsp dried	3 tbsp fresh red bell pepper, chopped OR 2 tbsp pimiento, chopped
<b>Potatoes, mashed</b>	1 lb	1 1/3 cups instant mashed potatoes, prepared
<b>Raisins</b>		Currants, dried cherries, dried cranberries, chopped dates or chopped prunes
<b>Shallots, chopped</b>		Green onions (white part only) OR Onions, dash crushed garlic
<b>Tomatillo</b>		Fresh green tomatoes plus a little lemon juice
<b>Tomato Juice</b>	1 cup	1/2 cup tomato sauce plus 1/2 cup water
<b>Tomato Paste</b>	1/2 cup	1 cup tomato sauce cooked uncovered to reduced to 1/2 cup
<b>Tomato Sauce</b>	2 cups	3/4 cup tomato paste plus 1 cup water
<b>Tomato Soup</b>	2 cups	1 cup tomato sauce plus 1/4 cup water
<b>Tomatoes</b>	1 can	2 1/2 cups chopped, peeled fresh tomatoes, simmered about 10 minutes
<b>Tomatoes, chopped</b>	16 oz can	3 fresh medium tomatoes OR 16 oz can stewed tomatoes

<b>Truffles</b>	1 oz	1 oz shiitake mushrooms
<b>Miscellaneous</b>		
<b>Food</b>	<b>Amount</b>	<b>Substitute</b>
<b>Bacon, cooked and chopped</b>	1 strip	1 tbsp bacon bits OR Smoked ham OR Canadian bacon
<b>Beer</b>		Nonalcoholic beer, apple cider or beef broth
<b>Bread Crumbs</b>		Finely crushed cracker crumbs, corn flakes or quick-cooking or old-fashioned oats
	1/3 cup dry	1 slice bread
	3/4 cup soft	1 slice bread
	1 cup soft	2 slices bread OR 3/4 cup cracker crumbs OR 1 1/3 cups oatmeal (uncooked)
<b>Broth, chicken or beef</b>	1 cup	1 cup boiling water, 1 bouillon cube OR 1 cup boiling water, 1 tsp bouillon crystals
<b>Bulgur, cooked</b>		Cooked couscous or brown rice
<b>Chili Paste</b>		Red pepper flakes, cayenne, or bottled hot sauce
<b>Chili Sauce</b>	1 cup	1 cup tomato sauce, 1/4 cup brown sugar, 2 tbsp vinegar, 1/4 tsp cinnamon, dash of ground cloves, and dash of allspice OR 1 cup catsup, 1/4 tsp cinnamon, dashes of ground cloves and allspice
<b>Cocktail Sauce</b>	1 1/4 cups	1 cup ketchup or chili sauce, 3 tbsp horseradish, 1 tbsp lemon juice, 2 tsp Worcestershire sauce
<b>Coconut, grated</b>	1 cup	1 1/3 cups coconut, flaked
<b>Coconut Cream</b>		Whipping cream
<b>Coconut Milk</b>	1 cup	1 cup whipping cream plus 1/2 tsp each of coconut extract and granulated sugar OR 1 cup whole or 2% milk OR 3 tbsp cream of coconut, 7/8 cup water or low-fat milk
<b>Cracker Crumbs</b>		Dry bread crumbs
<b>Gelatin, flavored</b>	3 oz pkg prepared	1 tbsp plain gelatin plus 2 cups fruit juice
<b>Honey</b>	1 cup	1 1/4 cups granulated sugar with 1/4 cup water or apple juice OR 7/8 cup buttermilk plus 2 tbsp melted shortening, whipped OR 1 cup corn syrup
<b>Horseradish, bottled</b>	2 tbsp	1 tbsp horseradish, dried, 1 tbsp vinegar, 1 tbsp water
<b>Horseradish, fresh</b>	1 tbsp	2 tbsp bottled
<b>Ketchup, Catsup</b>	1 cup	1 can tomato sauce plus 1/2 cup granulated sugar and 2 tbsp white vinegar OR 1 cup chili sauce
<b>Mayonnaise, commercial</b>	1 cup	1 cup cottage cheese (process in blender until smooth) OR 1/2 cup mayonnaise, 1/2 cup plain yogurt OR 1 cup salad dressing OR 1 cup sour cream OR 1 cup yogurt
<b>Mayonnaise, homemade</b>	1 cup	1 cup commercial mayonnaise, 1 tsp lemon juice, 1 tsp prepared mustard
<b>Mustard, dry (for wet mixtures)</b>	1 tsp	1 tbsp prepared mustard
<b>Mustard, prepared</b>	1 tbsp	1 tbsp dry mustard, 1 tsp vinegar, 1 tsp water, milk or cream, 1 tsp sugar
<b>Pancake Syrup</b>		1/2 cup brown sugar plus 1 1/2 cup water plus 2 1/2 tsp cornstarch. Cook until slightly thickened.

<b>Pepperoni</b>		Salami
<b>Pie Crust Mix</b>	8 cups	6 1/4 cups flour, 1 tbsp salt, 2 1/2 cups shortening
<b>Red Pepper Sauce</b>	3 or 4 drops	1/8 tsp ground red pepper (cayenne)
<b>Rice</b>	1 cup regular, uncooked	1 cup uncooked converted rice (3 cups cooked) OR 1 cup uncooked brown rice OR 1 cup uncooked wild rice
	1 cup cooked	1 cup cooked bulgur wheat OR 1 cup cooked pearl barley
<b>Rum</b>	1 tbsp dark rum 5 tbsp light rum	2 tbsp rum extract 1 tbsp rum extract
<b>Salami</b>		Pepperoni
<b>Stock Base, instant</b>	2 tsp	1 bouillon cube
<b>Stock Base, instant</b>	4 tsp dissolved in 1 1/4 cup water	1 can (10 1/2 oz) condensed, undiluted bouillon or consumma
<b>Tabasco Sauce</b>	4 drops	18 tsp cayenne OR 1/4 tsp black pepper
<b>Taco Seasoning</b>	1 pkg (1 1/4 oz size)	4 tsp instant minced onion, 2 tsp chili powder, 2 tsp salt, 1 tsp garlic powder, 1 tsp cornstarch, 1 tsp ground cumin, 1 tsp cayenne
<b>Tapioca</b>	1 tbsp	1 1/2 tbsp all-purpose flour OR 2 tbsp pearl tapioca
<b>Tartar Sauce</b>	1/2 cup	6 tbsp mayonnaise, 2 tbsp pickle relish
<b>White Sauce</b>	1 cup	10 /4 oz canned cream-style soup (undiluted)
<b>Wine (for cooking)</b>		Apple juice or cider
<b>Wine (for marinade)</b>	1/2 cup	1/4 cup vinegar, 1/4 cup water, 1 tbsp sugar
<b>Wine, Red</b>		Nonalcoholic wine, apple cider, beef broth, tomato juice or water
<b>Wine, Rice</b>		Dry sherry
<b>Wine, White</b>		Nonalcoholic wine, white grape juice, apple juice, apple cider, chicken broth, or water
<b>Worcestershire Sauce</b>	1 tsp	1 tsp bottled steak sauce OR 1 tbsp soy sauce, 4 drops Tabasco sauce, 1/8 tsp lemon juice, dash sugar