**Chapter 6: Butter, Shortening, and Oil**

In this chapter you will:

- Learn about the fats that we use in baking and the roles that they play.
- Understand how to substitute butter for shortening in a recipe.
- Understand how butter works in a recipe.
- Use butter and a pastry blender to make scones.
- Use butter to make a cake.
- Use shortening to make a cake.

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**Bonus Bulletin: Storing Oils and Fats** 158
Part 1: Butter, Shortening, and Oil

Overview
Flour, butter, and sugar are the three cornerstones of baking. We learned about flour in chapter one. We’ll learn more about sugar in the next chapter. In this chapter, we’ll learn about the fats and oils that we use in our baking, especially butter.

Nearly all recipes call for a fat—and butter is the fat most often used. In our discussion of dairy products, we explored fats. We will extend that exploration in this chapter. For definitional purposes, fat is so labeled if it is solid at room temperature and an oil if it is liquid at room temperature. A baker is most interested in the function of a fat or oil and usually refers to both fats and oils as fats. In this book, you will find us using the same definitions.

Nearly all recipes call for fat or oil and they usually call for water or milk so the baker is trying to mix water and oil together. To meet that challenge, the baker must use proper mixing techniques. In this chapter, we’ll discuss those techniques as well as the roles of flour and eggs in mixing our fats and liquids.

Finally, in this chapter you will find recipes that demonstrate the proper use of fats. We will use butter and shortening in pie crusts and cakes.

Butter
Our fat of choice is butter. While some recipes, especially cakes, rely on shortening and occasionally oil, a mastery of the use of butter is essential to great baking.

The sweet taste of butter is superior to margarine or shortening. Because it has a low melting point, the dough is becoming too warm, stick it back in the refrigerator before the butter melts and let it chill.

When creaming butter for cookies and cakes, temperature is still a key. If you over mix the butter, the friction will heat the butter until it begins to melt, the tiny air pockets in the butter will be lost, and the cookies will spread too quickly.

Any fat, including butter, acts as a shortening in baking because it shortens the gluten strands formed from the flour. It is shortenings that make for tender and crumbly baked products rather than chewy. Shortenings makes for a finer, less open, crumb in breads.
Chapter 6 Butter, Shortening, and Oil

**Margarine**

Margarine is hydrogenated vegetable oil to which flavors and colors have been added. It has a low water content.

To understand margarine, we need to understand hydrogenation and what it does. Fats are composed of molecules consisting of carbon, hydrogen, and oxygen atoms. Different configurations of the carbon and hydrogen atoms create saturated, polyunsaturated, and monounsaturated fats. With unsaturated fats, whether poly- or monounsaturated, the fat molecules have not been saturated with hydrogen atoms—that is, there are still carbon atoms in the molecules that have the availability to bond with hydrogen atoms. In the hydrogenation process, additional hydrogen atoms are added to unsaturated fat molecules and these hydrogen atoms connect to the carbon atoms.

By adding hydrogen, the processor converts a liquid unsaturated fat—vegetable oil—to a more fully saturated solid—margarine. Hydrogenation slows oxidation of the fat and thereby increases shelf life. (The rancidity that we taste in spoiled butter or nuts is the result of oxidation.)

Because margarine has a higher melting point than butter, it is easier to keep solid and work with in a dough. But of course, it doesn’t have the flavor of butter and many of us choose to limit the amount of hydrogenated fats in our diets for health reasons.

**Shortening**

Shortening is another hydrogenated fat similar to margarine. It has no water and does not have the colors and flavors that are added to margarine. It has air entrained into the fat in processing to increase the volume and enhance the aeration of batters. Some shortenings have added emulsifiers. (Emulsifiers act as a boundary between water and fat molecules so that the water and fat can blend uniformly instead of curdle.) With the entrained air, the higher melting point, and, in some cases, emulsifiers, shortening makes a better and more consistent fat than butter for aerating batters. For these reasons, and because of the attendant long shelf life of hydrogenated products, commercial bakeries often use shortening in their products. (If the label says “hydrogenated fat,” the product is likely to have a shortening-type product in its composition.)

**Vegetable and Olive Oils**

Although some muffin and quick bread recipes call for vegetable oil, vegetable oils are not used extensively in baking. They lack the ability to aerate as the solid fats do. Because the liquid oil migrates through the batter readily, it is a more effective agent in shortening gluten strands and making baked goods crumbly—and often too crumbly for many baked goods.

We like the taste of olive oils and use them in baking when we can. Most focaccia, ciabatta, and pizza doughs are made with olive oil.

**Choosing Healthy Cooking Oils**

Fats are an essential part of our diet—but some are “good” and some are “bad.” Here, we’ll give you a run down on the best cooking oils and help you choose which to use.

We recommend three oils for the pantry. These, along with a little shortening, butter, and vegetable oil in aerosol cans, should meet nearly all of your cooking needs. These three oils are olive oil, peanut oil, and canola oil.

We use olive oil for Italian breads such as ciabatta and focaccia because of the distinct olive flavor. For the same reason, we use olive oil in salad dressings and marinades. It is suitable for low heat or quick cooking but changes flavor rapidly at higher heats.

Olive oil is one of the healthiest of oils. It has a high percentage of monounsaturated fat, a good fat, and a lower percentage of saturated and polyunsaturated fats than vegetable oils. Unlike oils processed from hard seeds with heat and chemicals, oils from the fruit of the olive are soft pressed and healthier.

Peanut oil is more heat tolerant than olive oil and some other oils and is suitable for frying. The peanut taste of the oil complements some foods well. Peanut oil is higher in monounsaturated fats than most vegetable oils.

Canola oil is neutral flavored and is suitable for frying. It is relatively high in monounsaturated fat and has some omega-3 fatty acids. The safest canola oil is the organic, expeller-pressed type available in the health food section of the grocery store.

While we recommend olive, peanut, and canola oil, some experts don’t. Dr. Andrew Weil, the author of Eating Well for Optimal Living, does not endorse peanut oil because of possible harsh processing and because some peanut oil may be tainted with a carcinogenic mold that frequents peanuts.

How oil is processed and how you store oil once you get it home may be as important as the type of oil that you buy. Heat, light, and oxygen damage the fatty acids that comprise oils. Store oils in a cool, dark place, preferably the refrigerator, buy smaller bottles, and keep them tightly capped.

We suggest that you read labels regularly noting the types and amounts of fats present in the articles that you buy. The nutritional information table will tell you what is considered a serving size and how much saturated or polyunsaturated fat is present—the bad fats. Read in the ingredient listing to discover the presence of hydrogenated fats—another unhealthy fat. You will find that many processed foods contain hydrogenated fat, including most baking mixes found in stores.
In recent years, we have fallen in love with butter-based crusts. The above ratio will work just fine using butter instead of shortening but we have discovered that we can really load our crusts up with butter adding up to three times as much butter as we did earlier. The recipe for this rich crust can be found in the recipe section of this chapter.

Temperature may be even more important than balance—especially if you are using butter. The trick is to keep the butter and the dough cold enough that the butter pieces remain intact. If it gets too warm, it melts and saturates the flour. (The same thing happens with shortening but the melting temperature of shortening is higher.) It’s the little pieces of butter that make the crust flaky. As the butter heats in baking, little pockets of steam are formed from the butter nodules. To keep your dough cold, use only the coldest butter and water. Then refrigerate the dough for an hour before forming the pie. If making multiple pies, take only enough dough from the refrigerator for one pie, keeping the rest cold until you are ready for it.

The Perfect Pie Crust

There are a few tricks to making perfect pie crusts. The first is maintaining the correct balance of ingredients and the second is temperature.

Pie crusts are a mixture of flour, fat, and water. For years, we made pie crusts with a ratio of these ingredients: 1/4 cup water to 1/2 cup shortening to 2 1/2 cups flour. (The flour should be measured by scooping into the measure, not scooping it. Scooping packs the flour and overloads the formula.) Add a teaspoon of salt and you have a recipe for a double crust.

In this part, we’ll discuss how we use fats and oils in our baking. At the end of this section, you should understand how to use fats and oils in these basic methods as well as understanding how to reduce the fat in your favorite recipes.

- We’ll explore pie crusts and how they are made.
- We’ll use the creaming method to incorporate butter or shortening in a cake batter.
- We’ll describe how to substitute oils and fats in baking.
- Finally, we’ll explore some guidelines for reducing the amount of fat in a recipe.

The Perfect Pie Crust

In chapter four we learned about the creaming method as it applies to most baked goods. The same basic method is used for cakes.

The creaming method for mixing cakes is consistent with the general creaming method that you would use for mixing cookies or muffins. Attention to temperature and mixing the dry and wet ingredients alternately is beneficial.

Temperature of the batter is important when you are making a cake. All ingredients should be at room temperature—65 to 70 degrees. If you are using butter, you may bring cold butter to room temperature by beating it at medium speed for about two minutes with the paddle attachment of your stand-type mixer.

Steps in the Creaming Method for Cake Mixing

1. With the paddle attachment of an electric mixer, beat the butter or shortening at medium speed until it is smooth and creamy.
2. Add the sugars, spices, flavorings (including chocolate, if any), and salt. Beat at medium speed for eight to ten minutes or until it is light and fluffy.
3. Add the eggs one at a time, creaming after each.
4. Mix the flour and leavenings together.
5. Add about one-fourth of the dry ingredients to the creamed mixture. Mix until just combined. Do not over-stir or you may reduce the entrained air in the creamed mixture.
6. Add about one-third of the liquid ingredients and stir them in.
7. Repeat with the dry ingredients and the wet ingredients until all the ingredients are added. You should end by adding the dry ingredients.
8. Add any nuts or raisins by gently folding them in with a spatula. Keep the stirring to a minimum.
9. Place in pans and bake immediately as set forth in the recipe.

Baker’s Note: You can make an extra light cake by whipping two egg whites to soft peaks along with some of the sugar called for in the recipe. Gently fold them into the batter in step 8.

A note about high altitude baking

We don’t have a lot of recipes for cakes on our website. That’s because our test kitchen is at 4,800 feet and often cake recipes need to be adjusted for altitude. We test all of our recipes so that we are confident that they will work for you and we have no way to test cakes at low altitudes. We only publish cake recipes occasionally and then only those that we are confident have been tested by others and meet well-established balance ratios of sugar, flour, liquid, and fat.

At higher altitudes there is less air pressure and cakes tend to over rise and become too light. Typical signs include too much spread in cupcakes, dimpled cupcakes, dryer cakes (water tends to evaporate more easily at higher elevations), and concave tops in cakes.

High altitude adjustments can be made in four areas:

1. Leavening: Since cakes tend to rise more where the air pressure is less, less leavening can be used.
2. Structure: Both the proteins in eggs and the starch in flour create structure. To keep the cake from spreading or collapsing, more structure can be added with more flour or eggs.
3. Tenderizers: Both fat and sugar melts in the oven which decreases cake structure. Reducing either will make for a firmer cake.
4. Liquids: A little more liquid can be added to balance added flour and to compensate for evaporation.

We are adjusting recipes to approximately 5,000 feet. At lower altitudes, make adjustments proportionally less. Under 2,500 feet, no adjustments are necessary.

Substituting Oils and Fats in Baking

We have experimented with substituting butter, oil, and shortening for each other in quick bread and muffin recipes. In many recipes, one works better than the others. We have not yet been able to determine which will work better by studying the recipe, only by trial and error.

We have found that changing the mixing
method called for in the recipe has a more dramatic affect on the baked good than does changing the fat—though we are very partial to the rich flavor of butter.

As you recall from chapter 4, muffins and quick breads can be made by either the muffin method or the creaming method. Only liquids—vegetable oil or melted butter—can be used in the muffin method.

Guidelines for Substituting Butter and Shortening in Cake Recipes

Some of us try to limit our intake of hydrogenated fats. Shortening, a hydrogenated fat, is most often used in cake recipes. Because of the performance characteristics of shortening, we sometimes splurge and use shortening in our cakes.

It is possible to substitute butter for shortening or shortening for butter in cake recipes. To do so, use the following guidelines. Generally, you will be successful with these guidelines, though some cakes may require additional experimentation.

To substitute shortening for butter:
- For each cup of butter, use one cup plus two tablespoons of shortening.
- Since butter contains water and shortening does not, add 2 1/2 tablespoons of water or milk for every cup of butter eliminated.

To substitute butter for shortening:
- For each cup of shortening, use 3/4 cup plus two tablespoons of butter.
- Since butter contains water and shortening does not, subtract 2 1/2 tablespoons of water or milk from the recipe for every cup of butter added.

How to Reduce Fats in Baking

In many baked goods, some fat is necessary to create the proper mouth feel and texture. Often those same baked goods are acceptable in a fat-reduced variation. Here are ways that fat can be reduced:

- Use fruit purées or applesauce for some of the fat. Purées made from dried apples or dried apricots have less affect on the flavor of the baked goods than most other purées.
- Use reduced fat dairy products for whole fat products. Nonfat dairy products typically do not perform well in baked goods.
- Replace some of the whole fat product with low fat buttermilk.
- Replace all or some of the whole eggs with egg whites.
- Xanthan gum can be used to replace some of the eggs. Follow the package directions but with most gums, a small amount will have a significant effect. We have had very good success with xanthan gum though it takes some experimentation and good results are easier to achieve if the xanthan gum replaces only a part of the eggs.

Rich Buttery Pie Crust Recipe

Rich Buttery Pie Crust

If you haven’t tried making pies with buttery crusts, do so. Most pie crusts are made with shortening, but shortening is tasteless while butter is rich and fulfilling. And it’s not hard to make butter-based pie crusts.

As we mentioned earlier in this chapter, the tricks to making perfect pie crusts are maintaining the correct balance of ingredients and temperature. Temperature is especially important with butter-based crusts.

Ingredients:
- 2 1/2 cups all-purpose or pastry flour
- 2 tablespoons sugar
- 1 teaspoon salt
- 1 1/2 cups cold butter
- 1/2 cup ice water

Directions:
1. Mix the flour, sugar, and salt together in a medium bowl.
2. Your butter should be ice cold and rock hard. Cut the butter into one-inch chunks. Cut the butter into the flour mixture with a pastry knife until the butter pieces are pea-sized or smaller.
3. Add the ice water. Mix the water into the flour and butter mixture with a fork until it becomes to come together. Knead it together by hand. Work quickly and do not over mix. The dough must remain cold. Wrap the dough in plastic and refrigerate it for an hour before shaping the crust.

Baker’s note: Temperature may be even more important than balance—especially if you are using butter. The trick is to keep the butter and the dough cold enough that the butter pieces remain intact. If it gets too warm, it melts and saturates the flour. (The same thing happens with shortening but the melting temperature of shortening is higher.) It’s the little pieces of butter that makes the crust flaky. As the butter heats in baking, little pockets of steam are formed from the butter nodules.

Professional Pie Crust Variations

Our professional pie crust mix makes a good starting point for a variety of pie crust recipes. Here are a few variations for you to try out.

Cream Cheese Pie Crust

This makes a very easy, very tasty pie crust. It’s mixed in minutes. Because of the addition of sugar, this is a slightly sweetened crust.

Ingredients
- 1 1/2 cups just-add-water professional pie crust mix
- 1 cup all-purpose flour
from vanilla cream to pumpkin. It also works well with fruit pies with precooked fillings. A canned fruit filling can be used with this crust and then garnished with whipped cream for a quick, elegant dessert. Since it is a crumbly crust, it even works well as a crust for a cheesecake.

Pair this crust with your favorite pie and you’ll love the combination.

**Ingredients:**
- 1 cup pastry or all-purpose flour
- 1/3 cup sugar
- 1/2 teaspoon cinnamon
- Dash of salt
- 3/4 cup walnut pieces
- 6 tablespoons butter, melted

**Directions:**
1. Preheat the oven to 350 degrees. You will need one buttered, light-colored or glass, nine-inch deep-dish pie pan.
2. Place the flour, sugar, cinnamon, and salt in a small bowl and stir to combine.
3. Add the nuts in a food processor or blender and pulse just long enough to chop the nuts finely, not into a paste. Scrape the nuts into the flour mixture and stir to combine.
4. Bake as directed by the mix package.

Yield: Enough pie crust for a single crust pie.

**Chocolate Pie Crust**

This is a great crust for your favorite cream pie recipes. The addition of sugar and cocoa makes it slightly sweeter than traditional crusts.

**Ingredients**
- 1 1/2 cups just-add-water professional pie crust mix
- 1/4 cup granulated sugar
- 3 tablespoons Ramstadt Breda Rich Dark Cocoa or equal
- 1/4 cup cold water

**Directions**
1. Use your stand-type mixer with a paddle attachment. Mix the pie crust mix, sugar, and cocoa together.
2. Add the water. Beat with the dough hook, scraping down the sides if necessary, only until smooth. Do not over beat.
3. Bake as directed by the mix package.

Yield: Enough pie crust for a double crust pie.

**American Walnut Pie Crust Recipe**

Adding nuts to a crust can make all the difference. This one combines walnuts, lots of cinnamon, and butter. This crust works wonderfully well with creamy smooth pies

**Ingredients**
- 2 1/4 cups just-add-water professional pie crust mix
- 1 cup grated cheddar cheese, softened
- 1/3 cup cold water

**Directions**
1. Use your stand-type mixer with a paddle attachment. Mix the pie crust mix, cheese, and water together. Beat with the paddle, only until smooth. Do not over beat.
2. Bake as directed by the mix package.

Yield: Enough pie crust for a double crust pie.

**Creating Crushed Crusts**

There are a variety of ways to crush cookies, vanilla wafers, and graham crackers for use in crusts. The easiest way we’ve found is to place a handful of the crackers or cookies in a heavy-duty plastic bag. Using a rolling pin, roll over the cookies to crush them. When the contents have been crushed, empty the bag into a measuring cup and repeat the process until you have the desired amount of crumbs.
Vanilla Nut Pie Crust

This recipe is similar to the American Walnut Pie Crust, but is made with vanilla wafer crumbs and fewer walnuts. The vanilla and walnuts make a splendid combination. This crust works best with a cream pie or a cheesecake.

This wonderful crust marries crushed vanilla wafers with rich walnuts for a nutty, vanilla crust. You'll love the combination. We recommend this with cream pies. Again, don’t over bake the crust. This recipe makes a nine-inch deep dish pie.

Ingredients
- 2 cups crushed vanilla wafers
- 2 tablespoons granulated sugar
- 2/3 cup walnut pieces
- 6 tablespoons butter, melted

Directions
Preheat the oven to 400 degrees. You will need one buttered, nine-inch deep-dish pie pan either a light-colored or glass pan.

1. Crush the vanilla wafers. (See the Baker’s Note.) Place the crushed wafers in a deep-dish pan.
2. Place the nuts in a food processor or blender and pulse just long enough to chop the nuts finely, not into a paste. Scrape the nuts into the pie pan. Add the sugar. Stir to combine.
3. Add the melted butter and combine well.
4. Press the mixture into the buttered pie pan making certain that the crust is evenly thick.
5. Bake for eight minutes or until it just starts to brown on the edges. Do not over bake. A light-colored or glass pan will absorb less heat than a dark one and help ensure against over baking.

Peach Chiffon Pie with Gingersnap Crust Recipe

In this recipe, the creamy peach filling is complemented perfectly by the gingersnap crust. The peach filling is fresh and sweet and the ginger creates a contrast. If you have access to fresh peaches, try this pie.

The crust for this pie is simply made with crushed gingersnaps and butter. The filling is chiffon with a fresh peach puree. You will need a nine-inch, deep-dish pie pan for this pie.

For the crust
- 2 cups gingersnaps, crushed
- 5 tablespoons butter, melted

For the filling
- 1 cup whipping cream
- 1 teaspoon vanilla
- 2 cups puree from ripe, peeled peaches
- 1 tablespoon lemon juice
- 2 drops red food coloring
- 2 envelopes unflavored gelatin
- 3 large egg whites
- 1 cup granulated sugar

Directions
Preheat the oven to 350 degrees. Place the bowl in a pan of water on the stove. Heat the water and stir the egg whites with a whisk until the egg white mixture reaches 160 degrees. (Use your insta-read thermometer. If you don’t have a thermometer, the mixture will be very hot but not bubbling.) Remove from the heat. Beat with an electric mixer until soft peaks form.

1. In a nine-inch, deep-dish pie pan, mix the cookie crumbs and melted butter. With a large spoon or stiff spatula, press the crumbs into the bottom and up the sides of the pie pan. Bake the crust for ten minutes.
2. Whip the cream until soft peaks form. Add the vanilla and continue whipping until mixed.
3. Mix the puree, lemon juice, and red food coloring together.
4. Sprinkle the gelatin over 1/2 cup of the peach puree. Place the puree and gelatin in the microwave and heat for fifteen seconds. Take the puree out and stir it with a spoon. Heat it again for 15 seconds and stir again. Repeat the process until the mixture is very hot and the gelatin is dissolved. Mix the hot puree with the rest of the puree and refrigerate it for ten minutes.
5. Place the egg whites in a metal or Pyrex bowl. Stir in the sugar. Place the bowl in a pan of water on the stove. Heat the water and stir the egg white mixture until soft peaks form.
6. Fold the peach mixture into the egg white mixture. Fold the whipped cream into the mixture.

Refrigerate for two or three hours or until firm. Store in the refrigerator.
Chapter 6 Butter, Shortening, and Oil

Ingredients for the cake:
- 3 ounces unsweetened chocolate
- 1/2 cup milk
- 3/4 cup sour cream
- 1/2 cup butter
- 1 2/3 cups brown sugar
- 1/4 teaspoon salt
- 2 large eggs
- 2 cups all-purpose flour
- 1/2 tablespoon baking powder
- 1/2 teaspoon baking soda

For the frosting:
- 3 egg whites
- 2 cups granulated sugar
- 1/2 cup cold water
- 1/2 teaspoon cream of tartar
- 1 cup seedless raspberry jam
- 1/2 teaspoon almond extract

For the cake
Prepare three eight-inch cake pans by greasing them and dusting them with flour.

Directions for the cake
Preheat the oven to 350 degrees.

1. Heat the chocolate and milk together in a small saucepan, stirring until the chocolate is melted. Remove the pan from the heat and stir in the sour cream. Set the mixture aside to cool to room temperature.

2. With the paddle attachment of an electric mixer, beat the butter at medium speed until it is smooth and creamy. Add the brown sugar and salt. Beat until it is light and fluffy.

3. Add the eggs one at a time, creaming after each. Beat at medium speed for eight to ten minutes or until it is light and fluffy.

4. Mix the flour, baking powder, and baking soda together.

5. Add about one-third of the dry ingredients to the creamed mixture. Mix until just combined. Do not over-stir or you may reduce the entrained air in the creamed mixture.

6. Add about one-half of the liquid ingredients and stir them in.

7. Add another one-third of the dry ingredients to the creamed mixture and mix until just combined.

8. Add the last of the liquid ingredients and stir them in.

9. Add the last of the dry ingredients to the creamed mixture and mix until just combined.

10. Place in pans, smooth the tops, and bake immediately for 25 minutes at 350 degrees or until a toothpick stuck in the center of the cake comes out clean.

11. Cool for five to ten minutes in the pans. Remove the cakes to wire racks to cool completely. Frost after cooling.

For the frosting
1. In the top of a double boiler, mix the egg whites, sugar, water, and cream of tartar. Whisk them together for thirty seconds or beat slow speed with an electric mixer.

2. Over boiling water, cook the mixture while beating constantly at high speed with your electric mixer. Continue for about seven minutes or until peaks begin to form.

3. Add the extract and jam. Continue beating until stiff peaks form. Frost the cake. Baker’s note: Use a good quality jam. If your jam has seeds in it, remove them by pressing the jam through a sieve. As with all cake recipes, it is important that the temperature of the ingredients is at room temperature. You may beat cold butter for about two minutes to bring that to room temperature. You will heat the chocolate with the milk. By letting it all cool for several minutes and then adding cold sour cream, the resulting mixture should be near room temperature.

Why we use wire racks
You’ll notice we often suggest that you remove your cakes, cookies, etc. from the pan and place them on a wire cooling rack after baking. This is because food left in contact with the hot baking pan continues to cook even though it’s sitting on the counter. Food placed on racks cools and sets quickly as it is no longer in contact with the hot pan and air is able to flow on all sides of the baked good. We use chromed steel cooling racks made with mesh, not bars, so that dainty little cookies do not get caught in the gaps. Our racks are also tall—standing 1 1/4 inches off the counter—which prevents steam or “sweat” from condensing onto the counter beneath your baked goods.

In our test kitchen, we also use these racks as baking racks in the oven. They nest perfectly in an 11 x 17-inch baking sheet with just a bit of overhang. We have cooked fish, chicken, pork, and shish kabobs on these racks set in a baking sheet and at medium high temperatures. Lining the sheet with foil ensures a quick clean-up.

Cherry Dream Cake Recipe
This snack cake is unbelievably light and moist and fluffy. It doesn’t have much fat and has a lot of egg whites—almost like an angel food cake. The cherry flavor comes from a whole jar of maraschino cherries chopped finely in the blender.

This cake works best in a rectangular pan.
and is sweet enough that it doesn’t have to be frosted. If you do choose to frost it, choose a light frosting, either a glaze or a fluffy, light frosting. Our choice for this cake is a dab of whipped cream or maybe a little ice cream.

**Ingredients**

- 2 cups all-purpose flour
- 1 teaspoon baking powder
- 1/2 teaspoon baking soda
- 1/2 cup shortening
- 1 1/3 cups granulated sugar
- 1/4 teaspoon salt
- 4 large egg whites
- 1/2 teaspoon almond extract
- 1 ten-ounce jar of maraschino cherries
- 1/2 cup or more of buttermilk
- 2 drops red food coloring (optional)

**Directions**

Prepare an 8 x 13-inch pan by greasing the pan and dusting it with flour.

Preheat the oven to 350 degrees.

1. Mix the flour, baking powder, and baking soda together in a medium bowl. Set aside.
2. With the paddle attachment of an electric mixer, beat the shortening at medium speed for 30 seconds. Add the granulated sugar and salt in two additions, beating after each.
3. Add the egg whites in three or four additions, beating after each. Add the almond extract. Beat at medium speed for eight to ten minutes. The mixture should be very light and fluffy.
4. Place the cherries from the jar in a blender along with a tablespoon of juice. In the blender, finely chop the cherries. Add the buttermilk. You should have about 1 1/4 cups of the cherry-buttermilk mixture. Add more buttermilk to reach exactly 1 1/4 cups.
5. Add about one-fourth of the dry ingredients to the creamed mixture. Mix until almost combined. Do not over-stir or you may reduce the entrained air in the creamed mixture.
6. Add about one-third of the liquid ingredients and optional red food coloring and stir them in. Repeat with the rest of the flour mixture and cherry mixture until all ingredients are combined.
7. Place in pan, smooth the top, and bake immediately for 30 to 35 minutes at 350 degrees or until a toothpick stuck in the center of the cake comes out clean.
8. Cool in the pan on a wire rack. If you have lined the pan with parchment paper, after ten minutes lift the cake with parchment paper, after ten minutes lift the cake and lift the batter even more.

**Baker’s note:** This cake is light and airy because there is so much air entrained into the shortening, sugar, and egg white mixture. Be sure that the mixture is very light and fluffy before baking. The baking soda, an alkaline substance, reacts chemically with the buttermilk, an acid, to create carbon dioxide and lift the batter even more.

**Easy Flourless Chocolate Cake with Raspberry Sauce**

With only four ingredients and three steps, this is an easy flourless cake. And it’s scrumptious—perfect to make for your sweetheart. As with other flourless chocolate cakes, this is dense and chocolatey.

A simple dusting of powdered sugar makes this cake elegant. Drizzle it with raspberry sauce, raspberry chocolate sauce, or chocolate sauce (a recipe for raspberry sauce follows). Finally, add a scoop of vanilla ice cream or a dollop of whipped cream.

Be sure and use good quality, dark cocoa. We use Ramstadt-Breda Dark Cocoa which has three times the cocoa butter of most national brands. This will not be the same with ordinary cocoa.

A simple dusting of powdered sugar makes this cake elegant. Drizzle it with raspberry sauce, raspberry chocolate sauce, or chocolate sauce (a recipe for raspberry sauce follows). Finally, add a scoop of vanilla ice cream or a dollop of whipped cream.

**Yield:** 12 servings.

**How to Make Raspberry Sauce**

Raspberries alone are not tart or flavored enough for a dessert sauce, even when thickened with a starch. There are two possible solutions. You can either cook the fruit down to concentrate the flavors, or you can add a jelly for thickness and flavor. This recipe uses the latter option.

**Ingredients**

- 12 ounces, about 3 cups frozen, unsweetened raspberries
- 2/3 cup red currant jelly
- about 1/4 cup sugar

**Directions**

1. Thaw and puree the raspberries. Strain them twice through a sieve/strainer or until nearly all of the seeds are removed. Place the puree in a small saucepan. Add the jelly.
2. Cook, stirring occasionally, until the jelly is completely melted and blended with the fruit. Sweeten to taste with the sugar while it is still hot. Stir to make sure that the sugar is dissolved. Let cool.

**Yield:** About 1 1/3 cups of raspberry sauce.
Soda Pop Spice Cake

For this cake, you can use any of your favorite types of soda pop. Make sure you use a type with sugar in it, not sugar-free. For this recipe we used root beer, but if you prefer you can use 7-Up® or another lemon lime soda instead.

**Ingredients**

- 3/4 cup shortening
- 1 3/4 cups brown sugar
- 2 large eggs
- 1/2 tablespoon vanilla extract
- 2 3/4 cups all-purpose flour
- 1/2 teaspoon salt
- 1 teaspoon baking soda
- 1/4 teaspoon ground nutmeg
- 1/2 cup buttermilk
- 1 12-ounce can root beer, not sugar-free

**Directions**

Preheat the oven to 350 degrees. Grease and dust with flour a 13 x 9-inch baking pan.

1. Cream the shortening and sugar together. Add the eggs one at a time, beating well after each. Beat for five or six minutes so that the mixture is light and fluffy. Add the vanilla.
2. In another bowl, mix the flour, spices, salt, and soda together.
3. In three or four additions, add the dry ingredients and the liquids to the creamed mixture alternately starting and ending with the dry ingredients. (Each time that we made this, we added the buttermilk first then one half of the soda and finally, the rest of the soda.) Mix only until smooth.
4. Pour the batter into the prepared pan. Bake for 35 to 40 minutes or until the cake tests done with a toothpick. Cool completely before frosting with the frosting of your choice (try Root Beer Butter Frosting).

*Baker’s Note: When making a cake such as this, you are mixing oil (shortening) and water (soda pop and buttermilk)—which don’t mix. The egg yolks act as an emulsifier, a bonding agent between the oil and water molecules and the flour absorbs much of the water. That is why you start with the flour addition—so that the water doesn’t overload the fat mixture before the flour is there to start absorbing water. It’s also why you add the liquids in stages between the flour additions.

Sour Cream Apple Coffee Cake

This is a fun, very good little apple coffee cake recipe. It’s made in an eight-inch skillet but you can double it for a 9 x 13-inch pan. It’s got two cups of apples in a light, delightsome cake with a walnut and brown sugar topping.

We first made with a brown sugar flavor—because we love brown sugar flavor. Then we decided that we wanted to boost the apple flavor and changed the recipe to apple flavor. We’re sure that it would be good with vanilla too.

**Ingredients**

- 1/4 cup shortening
- 1/2 cup brown sugar
- 1/2 teaspoon cinnamon
- 1/2 teaspoon salt
- 1/2 teaspoon brown sugar flavor or apple flavor
- 1 egg
- 2/3 cup sour cream
- 2 cups peeled, diced apples
- 1 1/4 cups flour
- 1/2 teaspoon baking powder
- 1/2 teaspoon baking soda
- 1/3 cup chopped walnuts
- 1/3 cup brown sugar, packed
- 1 teaspoon ground cinnamon
- 1/3 cup butter

**Directions**

Preheat the oven to 350 degrees.

1. Cream the shortening, sugar, first measure of cinnamon, and salt together. Add the flavor and eggs and beat well. Add the sour cream and diced apples.
2. In another bowl, whisk the flour, baking powder, and soda together.
3. Add the flour to the creamed mixture in four additions, beating after each. Pour batter into a greased eight-inch pan.
4. For the topping, mix the walnuts, second measure of brown sugar, and second measure of cinnamon together. Cut in the butter with a pastry knife. Sprinkle over the cake.
5. Bake for 30 to 35 minutes. Or until a toothpick inserted into the center of the cake comes out clean.
**BONUS BULLETIN: STORING FATS AND OILS**

Fats turn rancid as they oxidize and oxidation is accelerated by exposure to heat, light, and oxygen. Butter, of course, must be refrigerated and should be used within two weeks of purchase. Other fats, such as vegetable oil and shortening, should be stored with tight-fitting lids in cool dark places. Do not store your oils above the stove which is probably the warmest spot in your kitchen.

The human body requires the intake of six types of substances for survival: Fats, carbohydrates, proteins, water, vitamins, and minerals. Certain fatty acids are essential to our health and fats and oils are important components of our food and their preparation. Fat is responsible for much of the texture, appearance, and taste of our baked goods. Since fat is both required for human health and an important part of our diets, we should include fat in our emergency preparedness plans—some combination of butter, margarine, vegetable oil, olive oil, and shortening. (Oils are liquid at room temperature; fats are solid.) Though we need to store these foods to maintain our lifestyles and our health, they represent a particular food storage challenge. As oils and fats age, they oxidize. Oxidation is the process that turns fats rancid. Rancid foods not only taste bad, they are unhealthy. As fats and oils breakdown, they become toxic. These oxidized oils promote arterial damage, cancer, inflammation, degenerative diseases, and premature aging. So it is important that we store fats properly, use all fatty foods well before they become rancid, and discard those foods that have been stored too long.

So what is the proper way to store fats and oils? Since three conditions accelerate the oxidation of fats—the exposure to heat, to oxygen, and to light—fats should be stored in cool or cold conditions, in the dark, and sealed so that they are not exposed to air. We store our vegetable oil, olive oil, and shortening in a dark, fifty-degree room. Once opened, we store our vegetable and olive oils in the refrigerator.

How long can we safely store fats and oils? That, of course, depends on the storage conditions. At seventy degrees, shortening can be kept for eight months. Butter does not last long at all in the refrigerator—only two weeks—but can be stored for up to nine months in the freezer (not the freezing compartment of a refrigerator which is usually not as cold). Margarine can also be frozen, though some margarine tends to be flaky once thawed. While I do not have a government source for the shelf life of vegetable oils, I would not store oils for over eight to ten months. My recommendation is to store butter in the freezer for up to nine months and store oils and shortening for eight months at seventy degrees—slightly longer at cooler temperatures. Maybe more so than any other food group, fatty foods must be carefully and conscientiously rotated to maintain adequate and healthy stocks. Use what you store and store what you use.

Not just oils and fats have to be carefully stored. Any food with a significant fat content such as nuts, cookies, or whole wheat flour is subject to rancidity. Nuts should be stored in a cool, dark environment and always checked for rancidity before they are used. Ideally, nuts should be stored in metal or metalized containers; plastic bags are permeable to air and slowly allow oxygen to seep into the package and accelerate oxidation. We keep our nuts in the freezer—even unopened bags. Freshly ground whole wheat should be kept in the refrigerator and used within two weeks. (The commercial milling process removes most of the fat from wheat. Most white flour is nearly fat free. Any whole wheat flour with a fat content higher than two percent should not be stored.) Any food that has any rancid odor should be discarded.

So what fats should we store? Flaxseed oil and safflower oil oxidize very rapidly and are not good candidates for storage. Most commonly purchased vegetable oils are extracted with heat, pressure, and chemical additives, which may accelerate oxidation; 5 Cold pressed oils are better though more expensive. I know of no government source for the shelf life of cold pressed oils. Check any oil carefully for rancidity before using.

The modern diet is high in the consumption of Omega-6 essential fatty acids and low in Omega-3 fatty acids. Flesh from grain and corn fed animals and most vegetable oils are high in Omega-6. The National Institutes of Health urges nearly all people to reduce the consumption of the Omega-6 fatty acids and increase the consumption of Omega-3 believing that this is critical to achieving optimal brain and cardiovascular functions. Of the commonly used oils, canola oil and soybean oil contain Omega-3 fatty acids. Avocados and nutmeats, especially walnuts, are high in Omega-3.

Andrew Weil in his excellent book, Eating Well for Optimum Health, promotes olive oil as a healthy substitute for vegetable oils. It has the highest percentage (77%) of monounsaturated fats of any of the oils but is low in Omega-3. There are many different varieties of olive oil available, each with a little different flavor. Choose what you like but watch it carefully for rancidity. Stored in the refrigerator or a cool basement, olive oil may turn cloudy while the quality remains unaffected.

Nutritionists advise us to reduce our intake of hydrogenated fats—margarine and shortening. Margarine is not a healthy substitute for butter. Hydrogenated means that hydrogen atoms have been added to stabilize the oil and turn it from a liquid at room temperature to a solid. A saturated fat is a fat that has been saturated with hydrogen atoms, and is therefore more stable and less prone to oxidation. However, the molecular composition of saturated fats is believed to raise serum cholesterol levels.

Storing oils and fats is a great idea, as they are essential to a well-prepared household and some fat is necessary to maintain health. However, choose the right fats and oils, store them properly, rotate religiously, and discard any that have to get old.