

Canning tomatoes and tomato products

Jeanne Brandt

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All varieties and sizes of tomatoes, including heirloom tomatoes, are preserved the same way.

Credit: Jeanne Brandt, © Oregon State University

Ripening tomatoes are a familiar sight in Pacific Northwest gardens and fields during the late summer months. Because the storage life of fresh tomatoes is limited, many households preserve them for year-round enjoyment. Home canning is one of the most popular preservation methods.

When canning tomatoes and tomato products, safe procedures must be used. Microorganisms (molds, yeast and bacteria) that cause either poor quality or potentially unsafe products are destroyed by heat processing.

Processing times are scientifically determined. Several factors influence the length of time home-canned products must be processed. Therefore, it is extremely important to follow a tested recipe for canning tomatoes and tomato products (such as spaghetti sauce). Changes in the amount or type of ingredients and method of preparation can influence the processing conditions needed to guarantee safety. For example, adding vegetables to a tomato sauce recipe can change acidity, and overcooking can change consistency and density. *Products that are not prepared according to the research-based instructions in this publication should be frozen.*

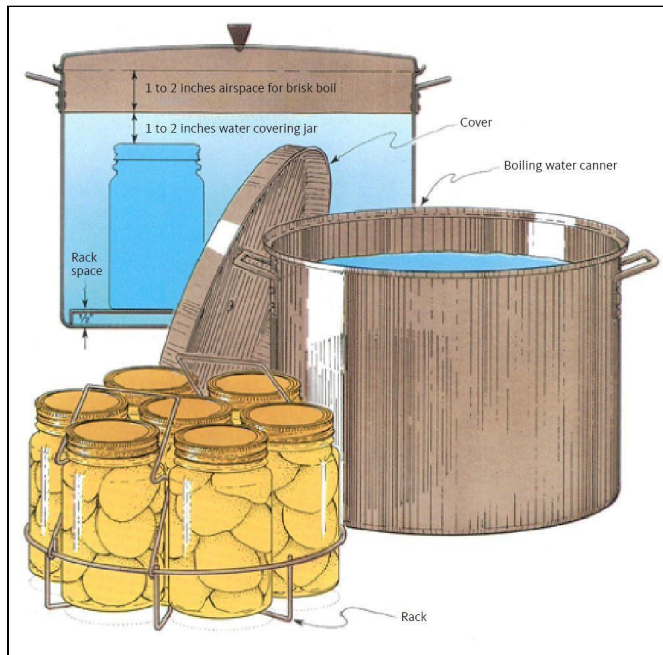
As a result of new research findings and changes in tomato varieties, tomato-canning recommendations have changed over the years. This publication contains the most current recommendations. Be sure to replace all previously published instructions to ensure a high-quality and safe product. These recommendations are effective for all varieties and sizes of tomatoes including heirloom tomatoes. Underripe or green tomatoes can also be preserved using these instructions. The instructions for crushed, whole or halved tomatoes are for peeled tomatoes.

Selecting and preparing equipment

Tomato products are processed using either a boiling water canner or a pressure canner. Follow the processing instructions included with each recipe. Crushed, halved and whole tomatoes can be safely canned using either method. The results of each method are similar, so it is a personal choice which method of processing to use.

Boiling water canner

Any pot deep enough so that at least 1–2 inches of briskly boiling water covers the tops of the jars during processing will work as a boiling water canner. It should have a rack to keep the jars off the bottom and a tight-fitting lid.



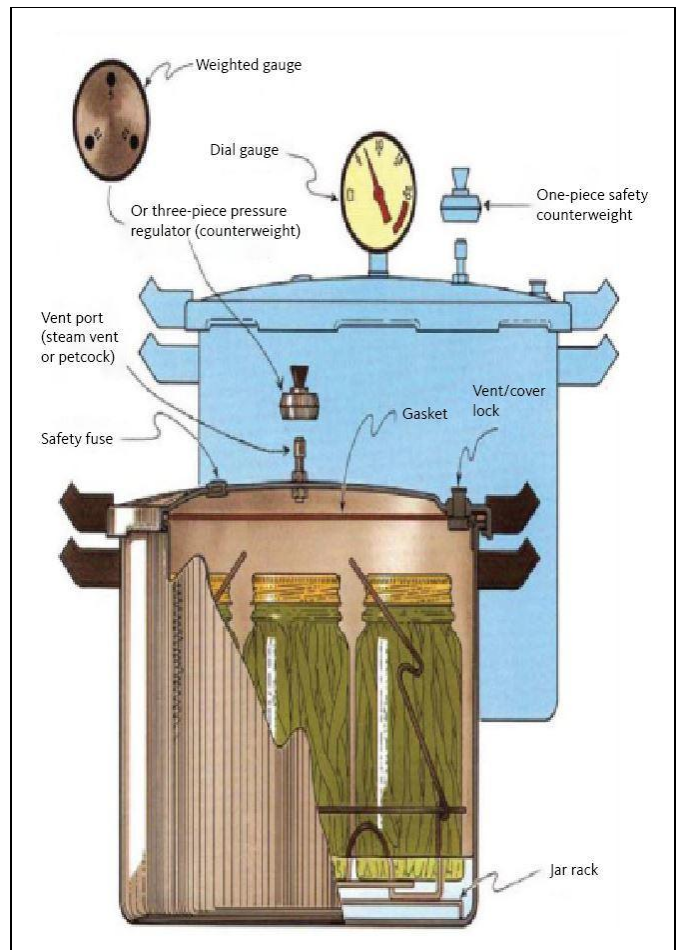
Boiling water canner.

Credit: National Center for Home Food Preservation

Pressure canner

Pressure canners are available in several sizes. A pressure canner must hold at least four quart jars to be safe for processing. A dial gauge or weight indicates the pressure inside the canner. The gasket keeps steam from leaking out around the cover. A petcock, safety valve or weight is used to control the escape of air or steam during processing. The pressure canner should have a rack to hold jars off the bottom. Pressure saucepans are not recommended for use in home canning.

Inspect the pressure canner before each use. See that the petcock and safety valve are not blocked. Clean them by drawing a string or pipe cleaner through the openings. Be sure the gasket around the cover fits tightly and replace the gasket if it is loose. If you have a weighted pressure gauge, keep it clean. Check dial pressure gauges for accuracy once a year (more often if the canner is used frequently or dropped). Your local Extension office may be able to tell you where you can get the gauge checked. If the dial gauge reads high or low by more than 2 pounds, buy a new one.



Pressure canner.

Credit: National Center for Home Food Preservation

Jars

Processing times are based on standard size, Mason-type jars designed for home canning. Inspect jars for cracks and chips, and discard damaged ones. Wash the jars in hot, soapy water and rinse well. Keep them hot until ready for use by placing them in the canner filled with hot water or in a heated dishwasher.

Lids

Two-piece metal canning lids and screw bands are recommended. Follow the manufacturer's instructions for preparing the lids. To prevent sealing failures, do not re-use lids. Wash the screw bands and discard any with dents or rust.

Preparing tomatoes

Select firm, ripe tomatoes. Avoid tomatoes that are overripe or from dead or frost-killed vines. These will result in a poor quality and potentially unsafe canned product. (Products made from these tomatoes can be safely frozen.)

Wash the tomatoes in cool, running water. To can crushed, whole or halved tomatoes, first remove the skins by dipping them in boiling water for 30–60 seconds or until the skins split. You can score the tomatoes on the bottom with a knife before dipping in hot water to help with peeling. Dip them in cold water, then slip off the skins and remove the cores.

Yields vary. The amount generally needed per quart is as follows:

Type	Pounds needed
Whole or halved tomatoes	3
Crushed tomatoes	2 1/4
Tomato juice	3 1/4
Tomato sauce	5–6 1/2



To remove the tomato skins, dip the tomatoes in boiling water for 30–60 seconds or until the skins split.

Credit: © Chris Baranski / [CC BY](#)



Dip them in cold water.

Credit: © Chris Baranski / [CC BY](#)



You should be able to slip off the skins.

Credit: © ilovebutter / [CC BY](#)

Packing the jars

Follow either hot-pack or raw-pack directions in the following sections. In the hot-pack method, food is packed in jars while it is very hot. Then the cooking liquid or boiling water is added. In the raw-pack method, raw food is packed in the jars and covered with boiling water or juice. There is also one method for raw packed tomatoes that calls for no added liquid (see Table 2).

Pack food and liquid to allow ½ inch of headspace for jars that will be processed in a boiling water canner and 1 inch of headspace for jars that will be processed in a pressure canner. Headspace is the space between the food or liquid and the top of a jar. If the jars are too full, some of the contents could bubble out during heat processing and prevent sealing by sticking to the rim. Too much headspace may also prevent sealing if the processing time is too short to exhaust all air from the jar.

After packing, remove any air bubbles by running a plastic knife or other thin, nonmetal utensil around the inside of the jar. Adjust the headspace if needed.

Adding acid

Because of the variation in tomato varieties, acid must be added to all jars of canned tomatoes and tomato juice before processing to ensure safety. The acid may be added before or after the jars are filled with tomatoes. Acid must be added to both boiling water canning and pressure canning options.

Acid	Per pint	Per quart
Bottled lemon juice	1 tbsp	2 tbsp
Bottled lime juice	1 tbsp	2 tbsp
Citric acid USP	1/4 tsp	1/2 tsp
Vinegar (5% acidity)	2 tbsp	4 tbsp

If you are using bottled lime juice, do not use key lime juice. There may be undesirable flavor changes if using vinegar. Sugar may be added to mask the sour flavor of the acids (1 tsp per pint; 2 tsp per quart).

Adding salt

Salt is added to tomatoes for flavor, not to preserve them. Therefore, it may be omitted. If you use salt, add ½ teaspoon to each pint jar, 1 teaspoon to each quart jar.

Closing the jars

Wipe jar rims and threads with a clean, damp cloth to remove any bits of food that might prevent a seal. Place a lid and metal band on each jar. Follow the manufacturer's instructions for tightening the band.



Acid (lemon juice or citric acid) must be added to all jars of tomatoes and tomato juice to ensure safety.

Credit: © Meaghan O'Malley / [CC BY](#)

Processing

Tomatoes and tomato products must be heat processed to destroy microorganisms that cause spoilage. Use either a boiling water canner or a pressure canner. Follow the processing instructions in the next sections for each method of packing and with each recipe.

Processing in a boiling water canner

1. Place a rack in the bottom of the canner. Fill the canner half full with clean water. Preheat water to approximately 140°F for raw-packed foods and 180°F for hot-packed foods.
2. Arrange the filled jars on the rack. Keep the jars upright at all times. Add very hot water, if needed, to bring the water level up to 1–2 inches above the jar tops. Avoid pouring water directly on the jars. Place a tight-fitting cover on the canner. If you use a pressure canner for boiling water canning, leave the cover unfastened and the petcock open to prevent the buildup of pressure.
3. Turn the heat to the highest setting and wait for the water to come to a full, rolling boil. Once boiling, set the timer for the recommended processing time (see Table 2). Increase boiling time at altitudes above 1,000 feet because temperatures will not reach 212°F. (See Table 1 for adjustments for altitude.) The heat setting may be lowered as long as a gentle but steady boil is maintained for the entire processing time. Add boiling water to keep jars covered, if necessary.
4. If the water stops boiling at any time during the process, turn the heat to the highest setting, bring the water back to a vigorous boil, and begin timing the process over again from the beginning.
5. At the end of the processing time, turn off the heat and remove the canner lid. Wait five minutes before removing the jars. Spoilage could occur if jars are allowed to stand longer in hot water. Start timing when water reaches a full, rolling boil.
6. Using a jar lifter, remove the jars—being careful not to tilt them—and place them on a heavy towel or cooling rack with space between them.



Start timing when water reaches a full, rolling boil.

Credit: © Oregon State University

Table 1. Pressure adjustments for altitude

Elevation	Pounds of pressure
Weighted gauge canner	
Sea level to 1,000 feet	10 pounds
Above 1,000 feet	15 pounds
Dial gauge canner	
Sea level to 2,000 feet	11 pounds
2,001–4,000 feet	12 pounds
4,001–6,000 feet	13 pounds
6,001–8,000 feet	14 pounds

Processing in a pressure canner

1. Follow the manufacturer’s directions, particularly to check the canner before and during processing, and to check what to expect while the canner is boiling, such as audible hissing, jiggling, and rocking of the weighted gauge.
2. Have 2–3 inches of hot water in the canner. For hot-packed foods, the water should be approximately 180°F; for raw-packed food, 140°F. Arrange the jars on a rack so steam can flow freely around each one. Keep jars upright at all times. If a double layer of jars is necessary, use another rack to separate the layers. Stagger the placement of jars in the second layer over the first group.
3. Fasten the canner lid securely so no steam escapes around the rim. Leave the weight off the vent port or open the petcock.

4. Turn the heat under the canner to its highest position. Heat until steam flows freely from the vent port or petcock. While maintaining high heat, let steam flow (exhaust) continuously for 10 minutes. This “exhausting” step is very important to remove all the air from the canner. Air that is trapped in the canner will cause inadequate heating of jars. This step is needed even for those types of pressure canners labeled “self-exhausting” or “self-venting.”
5. After venting, or exhausting, close the petcock or place the counterweight or weighted gauge on the canner.
6. Start timing the process when the pressure reading on the dial gauge indicates that the recommended pressure has been reached, or when the weighted gauge begins to jiggle or rock as the manufacturer describes. (See Tables 1 and 2.) Also, write down the time when processing will be completed as a double-check on the timer’s accuracy. At sea level, use 10 pounds of pressure for a weighted gauge, 11 pounds for a dial gauge. (Research has shown that 10 pounds of pressure with a weighted gauge is comparable to 11 pounds on a dial gauge.) At altitudes above 1,000 feet for a weighted gauge canner and above 2,000 feet for a dial gauge canner, it is necessary to increase the pounds of pressure to compensate for decreased atmospheric pressure.
7. Regulate the heat under the canner to maintain steady pressure at or slightly above the correct gauge pressure.
8. If, at any time, the pressure goes below the recommended level, bring the canner back to pressure by increasing the heat, and begin the timing process over again, using the original processing time.
9. When the processing time is complete, turn off the heat. Remove the canner from the heat and allow it to cool undisturbed.
10. After the canner is completely depressurized, remove the weight from the vent port or slowly open the petcock. Wait 10 minutes. Then, unfasten the lid, and remove it carefully. For older canners, you may want to loosen the lid (but do not remove it), and then wait 10 minutes. Tilt the lid away from you so that the steam does not burn your face.
11. Using a jar lifter, remove the jars, being careful not to tilt them. Place them on a heavy towel or cooling rack with space between them. Spoilage could occur if jars are allowed to stand in the warm canner.
12. After the canner has cooled, wash and dry the canner, lid and gasket.

Cooling the jars

After removing the jars from the canner, place them on a heavy towel or cooling rack so air can circulate freely around each jar. There should not be a cold draft or fan blowing on the jars. Let the jars sit undisturbed while they cool, from 12–24 hours. Do not tighten the screw bands or press down on the center of the flat metal lid until the jars are completely cool.



After processing is complete, place jars on a rack or heavy towel to cool completely.

Credit: © chispita_666 / [CC BY](#)

Testing the seal

Test each jar for a seal within 12–24 hours. Jars with flat, metal lids are sealed if you can confirm the following:

1. The lid has popped down in the center.
2. The lid does not move when pressed down in the middle with a finger.
3. The center of the lid gives a clear, ringing sound when tapped with a spoon. (This is not as reliable as the other methods.)

If a jar does not seal, refrigerate or freeze the contents or reprocess within 24 hours of the original processing. Reprocess using a hot or raw pack as recommended for that product. Wipe jar rims clean. Use a new lid and process for the full time listed.

Jars that have not sealed, or jars that were under-processed or improperly processed and held over 24 hours, should be destroyed. If jars unseal during storage, do not consume the contents.

Storing

Remove the screw bands, then wash and dry them. Store them separately from the jars, because liquid under the bands could cause rusting. Wipe the jars and label them with the date and contents.

Store jars in a cool, dark, dry place. Exposure to heat, freezing temperatures, or light decreases the quality and shelf life of canned food. For best eating quality and nutritive value, eat the food within one year.

Before using your canned product

As you select each jar for use, examine it for signs of spoilage. With the jar at eye level, examine the outside of the jar for streaks of dried food. Inside the jar, look for cloudy canning liquid, rising air bubbles or any unnatural color. While opening the jar, watch for spurting liquid or cotton-like mold growth on food surfaces or the underside of the lid. Smell for unnatural or off odors. *Never taste food from a jar with an unsealed lid or food that shows signs of spoilage.*

Never taste food from a jar with an unsealed lid or food that shows signs of spoilage.

Carefully discard any jar of spoiled food to prevent possible illness to you, your family or your pets. Spoiled tomatoes and tomato products, or tomato products that were not acidified prior to canning, should be treated as having produced botulinum toxin and be handled in one of two ways:

If the suspect jars are still sealed, write on the jar:

Danger: Poison
Do Not Eat



Remove the screw bands, wipe off the jars, and label before storage.

Credit: © Rachel Tayse / [CC BY](#)

Place the jars in a heavyweight garbage bag. Close the bag and place it in a regular trash container or a nearby landfill.

If the suspect jars are unsealed, open or leaking, they should be detoxified before disposal.

Detoxification process

- Wear rubber or heavy plastic gloves when handling suspect foods and cleaning up.
- Remove the jar lids, and carefully place the suspect jars on their sides (along with the lids) in a stock pot, pan or boiling water canner (8-quart volume or larger).
- Wash your gloved hands well.
- Carefully add water until the level is 1 inch above the jars. Put a lid on the pot and heat the water to boiling.
- Boil for 30 minutes to detoxify the food.
- Cool jars and contents in the pot, and discard the food and lids when they have cooled.
- Wash the jars and pot.
- Spray or wet contaminated surfaces (such as counters and cutting boards) with a room temperature, household chlorine bleach solution (1 part unscented 5–6% sodium hypochlorite bleach to 5 parts clean water) and let stand for 30 minutes.
- Wipe up treated spills with paper towels and put them in a plastic bag before discarding them in the trash.
- Rinse surfaces.
- Soak metal utensils in a mild chlorine solution (1 teaspoon bleach to 1 quart room temperature water) for 30 minutes. Rinse.

Styles of home-canned tomatoes

There are scientifically tested processing recommendations for several styles of home-canned tomatoes. Use Table 2 to find the instructions you need, and then make these decisions:

1. Do you want to can crushed tomatoes, whole or halved tomatoes, tomato sauce or tomato juice?
2. If tomatoes are whole or halved, what type of liquid will you add (water, juice or none)?
3. Will you use a boiling water canner or a pressure canner?

Preparation

Whole or halved

PACKED RAW WITHOUT LIQUID

[Prepare tomatoes as directed.](#) Leave whole or halve. Loosely fill jars with raw tomatoes, pressing until spaces fill with juice. Leave ½ inch headspace. Add acid. If desired, add salt. Adjust lids, and process in a boiling water canner or pressure canner.

Jar size	Pressure canner (Processing time, in minutes, at 240°F; 10 lb for weighted gauge and 11 lb for dial gauge.)	Boiling water canner (Processing time, in minutes, with adjustments for altitude.)			
		0–1,000 feet	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
	0–1,000 ft; see Table 1 for higher altitudes				
Pint	25	85	90	95	100
Quart	25	85	90	95	100

PACKED IN WATER

[Prepare tomatoes as directed.](#) Leave whole or halve.

Raw pack: Fill jars with raw, peeled tomatoes. Cover with hot water, leaving ½ inch headspace. Add acid. If desired, add salt.

Hot pack: Add enough water to cover tomatoes in a large pan and boil gently for 5 minutes. Fill jars with hot tomatoes and cover with hot cooking liquid, leaving ½ inch headspace. Add acid. If desired, add salt.

Adjust lids, and process in a boiling water canner or pressure canner.

Jar size	Pressure canner (Processing time, in minutes, at 240°F; 10 lb for weighted gauge and 11 lb for dial gauge.)	Boiling water canner (Processing time, in minutes, with adjustments for altitude.)			
		0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–,000 ft
	0–1,000 ft; see Table 1 for higher altitudes				
Pint	10	40	45	50	55
Quart	10	45	50	55	60

PACKED IN TOMATO JUICE

[Prepare tomatoes](#) and tomato juice as directed.

Raw pack: Heat tomato juice in a saucepan. Fill jars with raw tomatoes and cover with hot tomato juice, leaving ½ inch headspace. Add acid. If desired, add salt.

Hot pack: Completely cover tomatoes with tomato juice in large pan. Boil gently for 5 minutes. Fill jars with hot tomatoes and cover with hot tomato juice, leaving ½ inch headspace. Add acid. If desired, add salt.

Adjust lids, and process in a boiling water canner or pressure canner.

Jar size	Pressure canner (Processing time, in minutes, at 240°F; 10 lb for weighted gauge and 11 lb for dial gauge.)	Boiling water canner (Processing time, in minutes, with adjustments for altitude)			
		0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
	0–1,000 ft; see Table 1 for higher altitudes	0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
Pint	25	85	90	95	100
Quart	25	85	90	95	100

Crushed

PACKED HOT WITHOUT ADDED LIQUID

[Prepare tomatoes as directed.](#)

Trim off any bruised or discolored portions and cut into quarters. Heat one-sixth of a canner load quickly in a large pot, crushing them with a wooden spoon as they are added, to press out juice. (Continue heating to boiling, stirring to prevent burning.) Gradually add remaining quartered tomatoes, stirring constantly. (Crushing is not necessary for these.) Boil gently for 5 minutes after adding all tomatoes.

Fill jars immediately with hot tomatoes, leaving ½ inch headspace for boiling water canning or 1 inch headspace if pressure canning. Add acid. If desired, add salt.

Adjust lids, and process in a boiling water canner or pressure canner.

Jar size	Pressure canner (Processing time, in minutes, at 240°F; 10 lb for weighted gauge and 11 lb for dial gauge.)	Boiling water canner (Processing time, in minutes, with adjustments for altitude.)			
		0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
	0–1,000 ft; see Table 1 for higher altitudes	0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
Pint	15	35	40	45	50
Quart	15	45	50	55	60

Tomato juice

Wash, remove stems, and trim off bruised or discolored portions.

To prevent juice from separating into water and pulp layers, quickly cut about 1 pound of tomatoes into quarters and heat immediately to boiling in a saucepan while crushing. Continue to slowly add and crush freshly cut tomato quarters to the boiling mixture. (Make sure the mixture boils constantly and vigorously while you add the remaining tomatoes.) Simmer 5 minutes after adding all pieces.

If you are not concerned about juice separation, simply slice or quarter tomatoes into a large saucepan. Crush, heat, and simmer for 5 minutes before juicing.

Press both types of heated, crushed tomatoes through a sieve or food mill to remove skins and seeds. Heat juice again to boiling. Fill jars with hot juice, leaving ½ inch headspace. Add acid. If desired, add salt. Adjust lids, and process in a boiling water canner or pressure canner.

Jar size	Pressure canner (Processing time, in minutes, at 240°F; 10 lb for weighted gauge and 11 lb for dial gauge.)	Boiling water canner (Processing time, in minutes, with adjustments for altitude.)			
		0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
	0–1,000 ft; see Table 1 for higher altitudes	0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
Pint	15	35	40	45	50
Quart	15	40	45	50	55

Tomato-vegetable juice blend

Prepare, crush, and simmer tomatoes as for tomato juice. An average of 22 pounds of tomatoes is needed per canner load of 7 quarts. Add no more than 3 cups of any combination of finely chopped celery, onions, carrots, and peppers to each 22 pounds of tomatoes. Simmer mixture 20 minutes. Press hot cooked tomatoes and vegetables through a sieve or food mill to remove skins and seeds. Bring tomato-vegetable juice to boiling, and fill jars immediately, leaving ½ inch headspace. Add acid. If desired, add salt. Adjust lids, and process in a boiling water canner or pressure canner.

Jar size	Pressure canner (Processing time, in minutes, at 240°F; 10 lb for weighted gauge and 11 lb for dial gauge.)	Boiling water canner (Processing time, in minutes, with adjustments for altitude.)			
		0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
	0–1,000 ft; see Table 1 for higher altitudes	0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
Pint	15	35	40	45	50
Quart	15	40	45	50	55

Tomato sauce

Wash tomatoes, remove stems, and trim off bruised or discolored portions. Heat and press as for tomato juice. Simmer in large-diameter pan until sauce reaches desired consistency. (Volume should be reduced by about one-third for thin sauce, or about one-half for thick sauce.) Fill jars, leaving ½ inch headspace. Add acid. If desired, add salt. Adjust lids, and process in boiling water canner or pressure canner.

Jar size	Pressure canner (Processing time, in minutes, at 240°F; 10 lb for weighted gauge and 11 lb for dial gauge.)	Boiling water canner (Processing time, in minutes, with adjustments for altitude.)			
		0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
	0–1,000 ft; see Table 1 for higher altitudes	0–1,000 ft	1,001–3,000 ft	3,001–6,000 ft	6,001–8,000 ft
Pint	15	35	40	45	50
Quart	15	40	45	50	55

Recipes for tomato-vegetable combinations

Approximate 1-pound equivalents

1 pound = 3–4 small tomatoes

1 pound = 10 large chile peppers

1 pound = 2½ cups chopped onions

1 pound = 6½ cups sliced mushrooms



Tomato-vegetable combinations should be made following tested instructions.

Credit: Jeanne Brandt, © Oregon State University

Mexican Tomato Sauce

Ingredients:

- 2½–3 pounds chile peppers, chopped
- 18 pounds tomatoes
- 3 cups onions, chopped
- 1 tablespoon salt
- 1 tablespoon oregano
- ½ cup vinegar (5% strength)

Yield: About 9 pints

Caution: Wear plastic or rubber gloves, and do not touch your face when handling or cutting hot peppers. If you don't wear gloves, wash hands thoroughly with soap and water before touching your face or eyes.

Procedure: Wash and dry chiles. Slit each pepper along the side (to allow steam to escape while heating). Peel using one of the following methods:

- Oven or broiler. Place chiles on a rack or pan in a 400°F oven or under a broiler for 6–8 minutes, until skins blister.
- Range top. Cover a hot burner, either gas or electric, with a heavy wire mesh.

Place chiles on the burner for several minutes until skins blister. Place peppers in a pan and cover with a damp cloth. (This will make peeling easier.) After several minutes of cooling, slip off skins. Discard seeds and chop. Wash tomatoes, and dip in boiling water for 30–60 seconds or until skins split. Dip in cold water, slip off skins, and remove cores. Coarsely chop tomatoes, and combine with chopped peppers and remaining ingredients in a large saucepan. Bring to a boil. Cover and simmer for 10 minutes.

Fill jars, leaving 1 inch headspace. Adjust lids, and process in a pressure canner: 20 minutes for pints, 25 minutes for quarts (10 pounds of pressure with a weighted gauge; 11 pounds of pressure with a dial gauge). Adjust pressure for altitude (see Table 1).

Chile Salsa (Hot Tomato-Pepper Sauce)

Ingredients:

- 2 pounds chile peppers, chopped
- 5 pounds tomatoes
- 1 pound onion, chopped
- 1 cup vinegar (5% strength)
- 1 tablespoon salt
- ½ teaspoon pepper

Yield: 6–8 pints

Caution: Wear plastic or rubber gloves, and do not touch your face when handling or cutting hot peppers. If you don't wear gloves, wash hands thoroughly with soap and water before touching your face or eyes.

Procedure: Prepare chiles as directed in the Mexican Tomato Sauce recipe. Wash tomatoes, and dip in boiling water for 30–60 seconds or until skins split. Dip in cold water, slip off skins, and remove cores. Coarsely chop tomatoes, and combine with onions, peppers and remaining ingredients in a large saucepan. Heat to boiling, and simmer for 10 minutes.

Fill jars, leaving ½ inch headspace. Adjust lids, and process in a boiling water canner: 15 minutes for 0–1,000 feet altitude; 20 minutes for 1,001–6,000 feet; or 25 minutes at 6,001–8,000 feet.

Spaghetti Sauce Without Meat

Ingredients:

- 30 pounds tomatoes
- 1 cup onions, chopped*
- 5 cloves garlic, minced
- 1 cup celery or green pepper, chopped*
- 1 pound mushrooms, sliced* (optional)
- ¼ cup vegetable oil
- 4½ teaspoons salt, or to taste
- 2 teaspoons black pepper
- 2 Tablespoons oregano
- ¼ cup parsley, minced
- ¼ cup brown sugar

*It is not safe to increase the proportion of onions, celery, peppers or mushrooms.

Yield: About 9 pints

Procedure: Wash tomatoes, and dip in boiling water for 30–60 seconds or until skins split. Dip in cold water and slip off skins. Remove cores and quarter. Boil 20 minutes, uncovered, in a large saucepan. Put through a food mill or sieve.

Sauté onions, garlic, celery or peppers and mushrooms (if desired) in vegetable oil, until tender. Combine sautéed vegetables and tomatoes, and add salt, pepper, herbs and sugar. Bring to a boil. Simmer, uncovered, until thick enough for serving. (The volume will reduce by nearly one-half.) Stir frequently to avoid burning.

Fill jars, leaving 1 inch headspace. Adjust lids, and process in a pressure canner: 20 minutes for pints; 25 minutes for quarts (10 pounds of pressure with a weighted gauge; 11 pounds of pressure with a dial gauge). Adjust pressure for altitude (see Table 1).

Spaghetti Sauce with Meat

Ingredients:

- 30 pounds tomatoes
- 2½ pounds ground meat (beef, venison, turkey or sausage)
- 5 cloves garlic, minced
- 1 cup onion, chopped*
- 1 cup celery or green peppers, chopped*
- 1 pound mushrooms, sliced (optional)*
- 4½ teaspoons salt, or to taste
- 2 teaspoons black pepper
- 2 Tablespoons oregano
- ¼ cup parsley, minced
- ¼ cup brown sugar

*It is not safe to increase the proportion of onions, celery, peppers or mushrooms.

Yield: About 9 pints

Procedure: To prepare tomatoes, follow directions for the Spaghetti Sauce Without Meat recipe. Sauté meat or sausage until brown. Drain off fat. Add garlic, onion, celery or peppers and mushrooms (if desired). Cook until vegetables are tender. Combine with tomato pulp in a large saucepan. Add salt, pepper, herbs and sugar. Bring to a boil. Simmer, uncovered, until thick enough for serving. (Volume will reduce by nearly one-half.) Stir frequently to avoid burning.

Fill jars, leaving 1 inch headspace. Adjust lids, and process in a pressure canner: 60 minutes for pints; 70 minutes for quarts (10 pounds of pressure with a weighted gauge; 11 pounds of pressure with a dial gauge). Adjust pressure for altitude (see Table 1).

Tomatoes with Okra or Zucchini

Use about 3 pounds of tomatoes to 1 pound of okra or zucchini. Approximately 12 pounds of tomatoes and 4 pounds of okra or zucchini is needed per canner load of 7 quarts. Approximately 7 pounds of tomatoes and 2½ pounds of okra or zucchini is needed per canner load of 9 pints.

Procedure: Wash tomatoes and okra or zucchini. Dip tomatoes in boiling water for 30–60 seconds or until skins split. Then dip in cold water, slip off skins, remove cores and quarter.

Trim stems from okra and slice into 1-inch pieces, or leave whole. Slice or cube zucchini (if used). Bring tomatoes to a boil and simmer 10 minutes. Add okra or zucchini and boil gently 5 more minutes.

Fill hot jars with hot mixture, leaving 1 inch headspace. Add ½ teaspoon salt to each pint jar or 1 teaspoon salt to each quart jar, if desired. Remove air bubbles. Wipe jar rims. Adjust lids, and process in a pressure canner: 30 minutes for pints and 35 minutes for quarts (10 pounds of pressure with a weighted gauge; 11 pounds of pressure with a dial gauge). Adjust pressure for altitude (see Table 1).

Variation: You may add four or five pearl onions or two ¼-inch-thick onion slices to each jar.

Stewed Tomatoes

Ingredients:

- 2 quarts chopped tomatoes
- ¼ cup chopped green peppers
- ¼ cup chopped onions
- 2 teaspoons celery salt
- 2 teaspoons sugar
- ¼ teaspoon salt

Yield: About 3 pints

Procedure: Combine all ingredients. Cover and cook 10 minutes, stirring occasionally to prevent sticking.

Pour hot mixture into hot jars, leaving ½ inch headspace. Remove air bubbles. Wipe jar rims. Adjust lids, and process in a pressure canner: 15 minutes for pints and 20 minutes for quarts (10 pounds of pressure with a weighted gauge; 11 pounds of pressure with a dial gauge). Adjust pressure for altitude (see Table 1).

Safety checklist

- Select firm, ripe tomatoes. Do not can tomatoes that are from dead or frost-killed vines.
- Use the amount and type of ingredients specified.
- Prepare ingredients as directed.
- Acidify tomatoes with bottled lemon juice or citric acid.
- Process tomatoes in a boiling water canner or pressure canner for the time specified.
- Examine jars for spoilage before use.

Related publications

[Pickling Vegetables \(https://extension.oregonstate.edu/catalog/pub/pnw-355-pickling-vegetables\)](https://extension.oregonstate.edu/catalog/pub/pnw-355-pickling-vegetables)

[Use, Care and Operation of Your Pressure Canner \(https://extension.oregonstate.edu/catalog/pub/pnw-421-use-care-operation-your-pressure-canner\)](https://extension.oregonstate.edu/catalog/pub/pnw-421-use-care-operation-your-pressure-canner)

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