



Determine which canning method is the acceptable and safe way to preserve a variety foods.

Younger participants: Help all to know which categories food fits into (fruit, vegetable, etc.).

Experienced canners: Show the graphic on page 2 with the pH scale and foods.

Discuss **ACID** and **TEMPERATURE** as the 2 main factors in the method used for canning.

Note: **Tomatoes** pH is in the middle. Acid needs to be added to all home canned tomatoes. They can be canned in a boiling water canner or a pressure canner.

Attendee activity: Place picture of pressure canner and boiling water canners at opposite ends of room.

Give each student a food picture card (print & cut pages 7-10). For younger participants, have them tell if they have a fruit, vegetable or meat. Once they know what they have, instruct them to go stand by the correct canning method.

Have participants share their picture cards with the entire class, explaining why they have selected the canning method they did.

Safe methods for canning foods at home.

Stopping the growth of *Clostridium Botulinum* is important to keep canned foods safe to eat. This is accomplished by adjusting *ACID* (pH) in or added to the food and by the TEMPERATURE we heat the food to.

METHOD 1

Boiling Water Canner

High Acid + Boiling Water Temperature

Foods with high acid

- Fruits (apples, applesauce, peaches)
- Pickled (pickles, pickled beets, sauerkraut)
- Jams & Jellies (peach jam, jelly)
- Tomatoes when we add acid (tomatoes, salsa)

METHOD 2

Pressure Canner

Low Acid + Water Temperatures Above Boiling

Foods low in acid

- Meat (beef, fish, chicken, spaghetti sauce with meat, game meat)
- Vegetables (asparagus, carrots, corn, green beans, mixed vegetables)
- Beans (beans)

Sources: National Center for Home Food Preservation https://nchfp.uga.edu, K-State Research and Extension **Photos:** Nebraska Extension Food Preservation Team, National Center for Home Food Preservation https://nchfp.uga.edu, and Freepik Premium account.

Nebraska Lincoln



High Acid Foods

Naturally high in acid or have added acid





Low Acid Foods

Naturally low in acid



Pressure Canner







Low acid

High acid

pH Scale

Home-canned vegetables are the most common cause of botulism outbreaks in the United States.

2015

The largest outbreak of botulism, in nearly 40 years, occurred with improperly home-canned potatoes causing 29 illnesses and 1 death.

Source: CDC

Learn more at: http://www.bookstore.ksre.ksu.edu/pubs/MF3241.pdf http://www.bookstore.ksre.ksu.edu/pubs/MF3242.pdf









HOME FOOD PRESERVATION Safe Canning Methods

BOILING WATER CANNER







HOME FOOD PRESERVATION Safe Canning Methods

PRESSURE CANNER

















Wild Game



































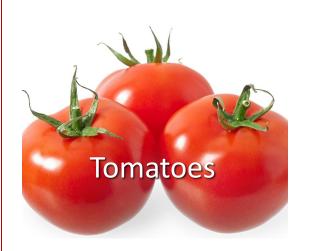




















HOME FOOD PRESERVATION

Safe Canning Methods

Answers - BOILING WATER CANNER



METHOD 1

Boiling Water Canner &
Steam Canner

High Acid +
Boiling Water Temperature



- Fruits (apples, applesauce, peaches)
- Pickled (pickles, pickled beets, sauerkraut)
- Jams & Jellies (peach jam, jelly)
- Tomatoes when we add acid (tomatoes, salsa)





























HOME FOOD PRESERVATION

Safe Canning Methods

Answers - PRESSURE CANNER



METHOD 2

Pressure Canner

Low Acid +

Water Temperatures

Above Boiling

Foods low in acid

- Meat (beef, fish, chicken, spaghetti sauce with meat, wild game)
- Vegetables (asparagus, carrots, corn, green beans, mixed vegetables,
- Beans (beans)





























HOME FOOD PRESERVATION

Safe Canning Methods

STEAM CANNER



Recently, the University of Wisconsin tested atmospheric steam canners for home canning of acid foods.

The only 2 types of steam canners tested were, a **Back to Basics** anner and a **Victorio** model, other canners have not been tested and are not recommended at this time.

METHOD 1

High Acid + Boiling Water Temperature

Atmospheric steam canners surround the jars with steam instead of water. Steam canners can only be used with high acid foods. Processing time is limited to 45 minutes or less because of the amount of water in the base.

Use for high acid foods like fruits, tomatoes, jams & jellies, pickles, and fermented foods.

Read and follow instructions carefully when using atmospheric steam canners. Step by step instructions can be found at: https://food.unl.edu/home-canning-equipment

























