

# **COLORFUL PICKLES AND MORE!**

#### **PICKLES!**

A pickle is any fruit, vegetable, egg or meat preserved in vinegar or brine.

# Vinegar

The vinegar in a pickled product is as important to its safety as it is to taste and texture. When pickling, always use high-quality commercial vinegars with at least 5% acidity. The acidity should be listed on the label; if not, assume it is not 5%.

Do not alter vinegar, food, or water proportions in a recipe or use a vinegar with unknown acidity. Doing so may undermine the safety of the product.

#### Salt

Use canning or pickling salt. Table salt contains anti-caking ingredients which can cloud the brine.

#### Recipe

Use a current, reputable recipe. Grandma's recipe may not use the correct proportions of water and vinegar, or may have assumed a higher level of acidity in the vinegar.

Altitude Chart	
Altitude in feet	Increase processing time
1,000 - 3,000	5 minutes
3,001 - 6,000	10 minutes
6,001 - 8,000	15 minutes
8,001 - 10,000	20 minutes

# Adjusting for Altitude

At sea level, water boils at 212°F. All recipes are developed using sea level as the criteria for processing times. At higher altitudes water boils at a lower temperature. If you are at an altitude higher than 1000', adjust the processing times following any specific instructions provided with the recipe. If instructions are not provided, consult a reliable source, such as the National Center for Home Preservation website. The altitude chart (left) provides sample guidelines for adjusting processing times based on altitude.

# CANNING PROCESSES

# **Boiling Water Canner Processing** Highlights

- 1. Place jars on a rack on the bottom of the
- 2. Add enough very hot (but not boiling) water to cover the jars by at least 1 inch.
- 3. Place lid on canner and bring water to rolling boil, then reduce heat to a gentle boil.
- 4. Begin counting process time when the water starts to boil. Be sure to add time for altitude, if necessary. If the water stops boiling, return to a boil and restart timing.
- 5. At the end of the process time, turn off the heat, remove the canner lid, and wait no more than five minutes before removing
- 6. Remove the jars from the canner by lifting them upright and placing them on a folded towel.
- 7. Leave the jars alone until they have cooled thoroughly (approximately 24 hours).
- 8. If a jar didn't seal, refrigerate and use the product within a few days.

# **Steam Canner Processing Highlights**

- 1. Use recipes for a **boiling water** canner.
- 2. Add hot (not boiling) water to cover the
- 3. Load jars onto rack and place lid on canner base.
- 4. Turn heat to high and boil water until a steady column of steam (6-8 inches)

- appears from the vent hole(s) in the canner lid. Jars must be processed in pure steam environment.
- 5. If canner has a temperature sensor, begin processing time when the marker is in the green zone for your altitude. If using a canner without a temperature sensor, begin processing time when a steady stream of steam is visible from the vent hole(s). Processing time is limited to 45 minutes or less, including any modification for elevation.
- 6. Monitor the temperature sensor and/or steady stream of steam during the entire timed process. Regulate heat so that the canner maintains a temperature of 212°F. A canner that is boiling too vigorously can boil dry within 20 minutes. If a canner boils dry, the food is considered underprocessed and therefore potentially unsafe.
- 7. At the end of the processing time, turn off the heat, wait 2-3 minutes and remove the lid.
- 8. Remove the jars, place them on a towel and leave them alone for 24 hours.

# PICKLED BEETS

**Yield: About 8 pints** 

7 lbs of 2-2½" diameter beets

4 cups vinegar (5%)

11/2 teaspoons canning or pickling salt

2 cups sugar

2 cups water

2 cinnamon sticks

12 whole cloves

4 to 6 onions (2-21/2" diameter) if desired

- 1. Trim off beet tops, leaving 1 inch of stem and roots to prevent bleeding of color. Wash thoroughly. Sort for size.
- 2. Cover similar sizes together with boiling water and cook until tender, about 25 to 30 minutes. Caution: Drain and discard liquid. Cool beets.
- 3. Trim off roots and stems and slip off skins.

- 4. Slice into ¼" slices. Peel and thinly slice onions.
- 5. Combine vinegar, salt, sugar, and fresh water. Put spices in cheesecloth bag and add to vinegar mixture. Bring to a boil.
- 6. Add beets and onions. Simmer 5 minutes.
- 7. Remove spice bag.
- 8. Fill jars with beets and onions, leaving ½ inch headspace. Add hot vinegar solution, allowing 1/2" headspace. Adjust lids.
- 9. Process in a boiling water or steam canner for 30 minutes under 1000', 35 minutes at 1001-3000', 40 minutes at 3001-6000', or 45 minutes above 6000'.

Source: Complete guide to home canning.

#### PICKLED DILLED BEANS

**Yield: About 8 pints** 

4 lbs fresh tender green or yellow beans (5-6" long)

8 to 16 heads fresh dill

8 cloves garlic (optional)

½ cup canning or pickling salt

4 cups white vinegar (5%)

4 cups water

1 teaspoon hot red pepper flakes (optional)

- 1. Wash and trim ends from beans and cut to 4-inch lengths.
- 2. In each **sterile** pint jar, place 1 to 2 dill heads and, if desired, 1 clove of garlic. Place whole beans upright in jars, leaving ½" headspace. Trim beans to ensure proper fit, if necessary.
- 3. Combine salt, vinegar, water, and pepper flakes (if desired). Bring to a boil.
- 4. Add hot solution to beans, leaving ½" headspace.
- 5. Adjust lids and process in a boiling water or steam canner for 5 minutes under 1000, 10 minutes at 1001-3000', 15 minutes at 3001-6000', or 20 minutes above 6000'.

Source: Complete guide to home canning.

# ZUCCHINI PICKLES

#### **Yield: About 8 pints**

5 lbs. medium zucchini cut into ¼" thick slices

2 lbs. mild white onions, thinly sliced

¼ cup salt

Ice water

4 cups cider vinegar (5%)

2 cups sugar

2 Tablespoons mustard seeds

1 Tablespoon each: celery seeds and ground turmeric

2 teaspoon ground ginger

3 cloves garlic, minced

- 1. Place zucchini, onions, and salt in a large kettle; cover with ice water and let stand for 1 to 2 hours.
- 2. Drain, rinse well and drain again.
- 3. In large kettle mix vinegar, sugar, mustard seeds, celery seeds, turmeric, ginger, and garlic. Bring to a boil over high heat, stirring to dissolve sugar. Boil for 2 to 3 minutes.
- 4. Stir in zucchini mixture, return to a boil and boil for 2 more minutes.
- 5. Pack hot mixture into hot pint jars, leaving ½" headspace.
- 6. Remove air bubbles. Wipe the rims clean. Place lids and rings on jars, tightening rings finger tight.
- 7. Process in a boiling water or steam canner for 10 minutes below 1000', 15 minutes between 1000-6000', or 20 minutes above 6000'

Source: Safe methods for preparing pickles, relishes & chutneys.

# **PICKLED BABY CARROTS**

**Yield: About 4 pints** 

81/2 cups peeled baby carrots 5½ cups white distilled vinegar (5%)

- 1 cup water
- 2 cups sugar
- 2 teaspoons canning salt
- 8 teaspoons mustard seed
- 4 teaspoons celery seed
- 1. Wash and rinse pint canning jars; keep hot until ready to use. Prepare lids and bands according to manufacturer's directions.
- 2. Wash carrots well and peel, if necessary. Wash again after peeling.
- 3. Combine vinegar, water, sugar and canning salt in an 8-quart Dutch oven or stockpot. Bring to a boil and boil gently 3 minutes. Add carrots and bring back to a boil. Then reduce heat to a simmer and heat until the carrots are half-cooked (about 10 minutes).
- 4. Meanwhile, place 2 teaspoons mustard seed and 1 teaspoon celery seed in the bottom of each clean, hot pint jar.
- 5. Fill hot jars with the hot carrots, leaving 1" headspace. Cover with hot pickling liquid, leaving 1/2" headspace. Remove air bubbles. Wipe rims clean. Place lids and rings on jars, tightening rings finger tight
- 6. Process in a boiling water or steam canner for 15 minutes below 1000', 20 minutes between 1000-6000', or 25 minutes above 6000'.

Source: So easy to preserve.

# **ZUCCHINI-PINEAPPLE**

A surprise sweet non-pickle treat that is a great way to use the large caveman club end-of-summer zucchini anywhere you would use cubed or crushed pineapple.

**Yield: About 8 to 9 pints** 

4 qts cubed or shredded zucchini 1½ cups bottled lemon juice 46 oz canned unsweetened pineapple juice 3 cups sugar

1. Peel zucchini and either cut into ½-inch cubes or shred.

- 2. Mix zucchini with other ingredients in a large saucepan and bring to a boil.
- 3. Simmer 20 minutes.
- 4. Fill jars with hot mixture and cooking liquid, leaving 1/2" headspace. Remove air bubbles and add additional hot liquid if necessary to retain ½" headspace.
- 5. Adjust lids and process in a boiling water or steam canner for 15 minutes below 1000', 20 minutes between 1000-6000', or 25 minutes above 6000'.

Source: Complete guide to home canning.

# REFERENCES

Andress, E. L., J. A. Harrison, and S. J. Reynolds. 2014. So easy to preserve. Athens, GA: University of Georgia. Cooperative Extension Service.

Groppe, C. C., G. K. York, K. J. Boor, and J. E. Byers. 1989. Safe methods for preparing pickles, relishes & chutneys. Oakland: Division of Agriculture and Natural Resources Publication 4080.

National Center for Home Food Preservation website, https://nchfp.uga. edu/.

USDA. 2015. Complete guide to home canning. National Center for Home Preservation website, https://nchfp.uga. edu/publications/publications\_usda. html.

# IMPORTANT SAFETY NOTE

Research on food preservation is ongoing, and recommendations may change. Make sure your information is current. Always follow up-to-date, tested guidelines and recipes from reliable sources.

# LOCAL CONTACT

For more information, contact the University of California Cooperative Extension office in your county. See your telephone directory for addresses and phone numbers, or visit http:// mfp.ucanr.edu/Contact/Find\_a\_Program/.

# **ACKNOWLEDGMENT**

Colorful Pickles and More! was originally created by the UCCE Master Food Preserver Program of Amador/Calaveras County.

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