

Complete Guide to
Home Canning

United States Department of Agriculture

National Institute of Food and Agriculture

# Guide 6 **Preparing and Canning Fermented Foods and Pickled Vegetables**



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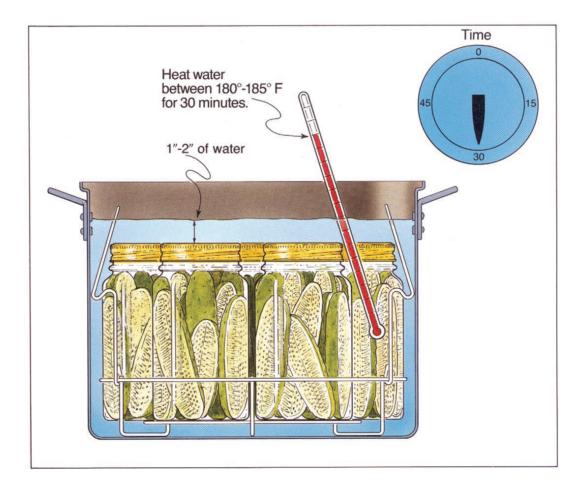
# **Selection of fresh cucumbers**

**Quantity:** An average of 14 pounds is needed per canner load of 7 quarts; an average of 9 pounds is needed per canner load of 9 pints. A bushel weighs 48 pounds and yields 16 to 24 quarts—an average of 2 pounds per quart.

**Quality:** Select firm cucumbers of the appropriate size: about 1-1/2 inches for gherkins and 4 inches for dills. Use odd-shaped and more mature cucumbers for relishes and bread-and-butter style pickles.

# Low-temperature pasteurization treatment

The following treatment results in a better product texture but must be carefully managed to avoid possible spoilage. Place jars in a canner filled half way with warm (120° to 140°F) water. Then, add hot water to a level 1 inch above jars. Heat the water enough to maintain 180° to 185°F water temperature for 30 minutes. Check with a candy or jelly thermometer to be certain that the water temperature is at least 180°F during the entire 30 minutes. Temperatures higher than 185°F may cause unnecessary softening of pickles. **Caution: Use only when recipe indicates.** 



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# Suitable containers, covers, and weights for fermenting food

A 1-gallon container is needed for each 5 pounds of fresh vegetables. Therefore, a 5-gallon stone crock is of ideal size for fermenting about 25 pounds of fresh cabbage or cucumbers. Food-grade plastic and glass containers are excellent substitutes for stone crocks. Other 1- to 3-gallon non-food-grade plastic containers may be used if lined inside with a clean food-grade plastic bag. **Caution: Be certain that foods contact only food-grade plastics. Do not use garbage bags or trash liners.** Fermenting sauerkraut in quart and half-gallon Mason jars is an acceptable practice, but may result in more spoilage losses.



Cabbage and cucumbers must be kept 1 to 2 inches under brine while fermenting. After adding prepared vegetables and brine, insert a suitably sized dinner plate or glass pie plate inside the fermentation container. The plate must be slightly smaller than the container opening, yet large enough to cover most of the shredded cabbage or cucumbers. To keep the plate under the brine, weight it down with 2 to 3 sealed quart jars filled with water. Covering the container opening with a clean, heavy bath towel helps to prevent contamination from insects and molds while the vegetables are fermenting. Fine quality fermented vegetables are also obtained when the plate is weighted down with a very large clean, plastic bag filled with 3 quarts of water containing

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4-1/2 tablespoons of canning or pickling salt. Be sure to seal the plastic bag. Freezer bags sold for packaging turkeys are suitable for use with 5-gallon containers.

The fermentation container, plate, and jars must be washed in hot sudsy water, and rinsed well with very hot water before use.

# Salts used in pickling

Use of canning or pickling salt is recommended. Fermented and nonfermented pickles may be safely made using either iodized or noniodized table salt. However, noncaking materials added to table salts may make the brine cloudy. Flake salt varies in density and is not recommended for use.

Reduced-sodium salts, for example mixtures of sodium and potassium chloride, may be used in quick pickle recipes, as indicated in this guide. The pickles may, however, have a slightly different taste than expected. **Caution: Use of reduced-sodium salt in fermented pickle recipes is not recommended.** 

# **Fermented foods**

# **DILL PICKLES**

Use the following quantities for each gallon capacity of your container.

4 lbs of 4-inch pickling cucumbers
2 tbsp dill seed or 4 to 5 heads fresh or dry dill weed
1/2 cup salt
1/4 cup vinegar (5%)
8 cups water and one or more of the following ingredients:
2 cloves garlic (optional)
2 dried red peppers (optional)
2 tsp whole mixed pickling spices (optional)

Procedure: Wash cucumbers. Cut 1/16-inch slice off blossom end and discard. Leave 1/4-inch of stem attached. Place half of dill and spices on bottom of a clean, suitable container (see page 6-6). Add cucumbers, remaining dill, and spices. Dissolve salt in vinegar and water and pour over cucumbers. Add suitable cover and weight. Store where temperature is between 70° and 75°F for about 3 to 4 weeks while fermenting. Temperatures of 55° to 65°F are acceptable, but the fermentation will take 5 to 6 weeks. Avoid temperatures above 80°F, or pickles will become too soft during fermentation. Fermenting pickles cure slowly. Check the container several times a week and promptly remove surface scum or mold. Caution: If the pickles become soft, slimy, or develop a disagreeable odor, discard them. Fully fermented pickles may be stored in the original container for about 4 to 6 months, provided they are refrigerated and surface scum and molds are removed regularly. Canning fully fermented pickles is a better way to store them. To can them, pour the brine into a pan, heat slowly to a boil, and simmer 5 minutes. Filter brine through paper coffee filters to reduce cloudiness, if desired. Fill hot jar with pickles and hot brine, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process as below, or use the low temperature pasteurization treatment described on page 6-5.

Recommended process time for Dill Pickles in a boiling-water canner					
		Process Ti	me at Altitude	s of	
Style	Jar	0-	1,001–	Above	
of Pack	Size	1,000 ft	6,000 ft	6,000 ft	
Raw	Pints	10 min	15	20	
	Quarts	15	20	25	

#### SAUERKRAUT

#### 25 lbs cabbage 3/4 cup canning or pickling salt

**Quality:** For the best sauerkraut, use firm heads of fresh cabbage. Shred cabbage and start kraut between 24 and 48 hours after harvest.

#### Yield: About 9 quarts

**Procedure:** Work with about 5 pounds of cabbage at a time. Discard outer leaves. Rinse heads under cold running water and drain. Cut heads in quarters and remove cores. Shred or slice to a thickness of a quarter. Put cabbage in a suitable fermentation container (see page 6-6), and add 3 tablespoons of salt. Mix thoroughly, using clean hands. Pack firmly until salt draws juices from cabbage. Repeat shredding, salting, and packing until all cabbage is in the container. Be sure it is deep enough so that its rim is at least 4 or 5 inches above the cabbage. If juice does not cover cabbage, add boiled and cooled brine (1-1/2 tablespoons of salt per quart of water). Add plate and weights; cover container with a clean bath towel. Store at 70° to 75°F while fermenting. At temperatures between 70° and 75°F, kraut will be fully fermented in about 3 to 4 weeks; at 60° to 65°F, fermentation may take 5 to 6 weeks. At temperatures lower than 60°F, kraut may not ferment. Above 75°F, kraut may become soft.

If you weigh the cabbage down with a brine-filled bag, do not disturb the crock until normal fermentation is completed (when bubbling ceases). If you use jars as weight, you will have to check the kraut two to three times each week and remove scum if it forms. Fully fermented kraut may be kept tightly covered in the refrigerator for several months or it may be canned as follows:

Hot pack—Bring kraut and liquid slowly to a boil in a large kettle, stirring frequently. Remove from heat and fill hot jars rather firmly with kraut and juices, leaving 1/2-inch headspace.

Raw pack—Fill hot jars firmly with kraut and cover with juices, leaving 1/2-inch headspace.

Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Sauerkraut in a boiling-water canner						
		Process Til	me at Altitude	s of		
Style of Pack	Jar Size	0– 1,000 ft	1,001– 3,000 ft	3,001– 6,000 ft	Above 6,000 ft	
Hot	Pints	10 min	15	15	20	
	Quarts	15	20	20	25	
Raw	Pints	20	25	30	35	
	Quarts	25	30	35	40	

# **Cucumber pickles**

# **BREAD-AND-BUTTER PICKLES**

6 lbs of 4- to 5-inch pickling cucumbers 8 cups thinly sliced onions (about 3 pounds) 1/2 cup canning or pickling salt 4 cups vinegar (5%) 4-1/2 cups sugar 2 tbsp mustard seed 1-1/2 tbsp celery seed 1 tbsp ground turmeric 1 cup pickling lime (optional) for use in variation below for making firmer pickles

#### Yield: About 8 pints

**Procedure:** Wash cucumbers. Cut 1/16-inch off blossom end and discard. Cut into 3/16-inch slices. Combine cucumbers and onions in a large bowl. Add salt. Cover with 2 inches crushed or cubed ice. Refrigerate 3 to 4 hours, adding more ice as needed.

Combine remaining ingredients in a large pot. Boil 10 minutes. Drain and add cucumbers and onions and slowly reheat to boiling. Fill hot pint jars with slices and cooking syrup, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process as below or use low-temperature pasteurization treatment described on page 6-5.

Variation for firmer pickles: Wash cucumbers. Cut 1/16-inch off blossom end and discard. Cut into 3/16-inch slices. Mix 1 cup pickling lime and 1/2 cup salt to 1 gallon water in a 2- to 3-gallon crock or enamelware container. Caution: Avoid inhaling lime dust while mixing the lime-water solution. Soak cucumber slices in lime water for 12 to 24 hours, stirring occasionally. Remove from lime solution, rinse, and resoak 1 hour in fresh cold water. Repeat the rinsing and soaking steps two more times. Handle carefully, as slices will be brittle. Drain well. With this variation, the onions are not limed.

**Storage:** After processing and cooling, jars should be stored 4 to 5 weeks to develop ideal flavor.

**Variation:** Squash bread-and-butter pickles. Substitute slender (1 to 1-1/2 inches in diameter) zucchini or yellow summer squash for cucumbers. Do not use the liming variation.

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Recommended process time for Bread-and-Butter Pickles in a boiling-water canner					
		Process Tir	ne at Altitude	es of	
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft	
Hot	Pints or Quarts	10 min	15	20	

## QUICK FRESH-PACK DILL PICKLES

8 lbs of 3- to 5-inch pickling cucumbers 2 gals water 1-1/4 cups canning or pickling salt (divided) 1-1/2 qts vinegar (5%) 1/4 cup sugar 2 qts water 2 tbsp whole mixed pickling spice about 3 tbsp whole mustard seed (1 tsp per pint jar) about 14 heads of fresh dill (1-1/2 heads per pint jar) or 4-1/2 tbsp dill seed (1-1/2 tsp per pint jar)

#### Yield: About 7 to 9 pints

**Procedure:** Wash cucumbers. Cut 1/16-inch slice off blossom end and discard, but leave 1/4-inch of stem attached. Dissolve 3/4 cup salt in 2 gallons water. Pour over cucumbers and let stand 12 hours. Drain. Combine vinegar, 1/2 cup salt, sugar, and 2 quarts water. Add mixed pickling spices tied in a clean white cloth. Heat to boiling. Fill hot jars with cucumbers. Add 1 tsp mustard seed and 1-1/2 heads fresh dill per pint. Cover with boiling pickling solution, leaving 1/2-inch head-space. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process as below or use the low-temperature pasteurization treatment described on page 6-5.

Recommended process time for Quick Fresh-Pack Dill Pickles in a boiling-water canner						
		Process Til	me at Altitude	s of		
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft		
Raw	Pints	10 min	15	20		
	Quarts	15	20	25		

# SWEET GHERKIN PICKLES

7 lbs cucumbers (1-1/2 inch or less)
1/2 cup canning or pickling salt
8 cups sugar
6 cups vinegar (5%)
3/4 tsp turmeric
2 tsp celery seeds
2 tsp whole mixed pickling spice

Yield: About 6 to 7 pints

**Procedure:** Wash cucumbers. Cut 1/16-inch slice off blossom end and discard, but leave 1/4-inch of stem attached. Place cucumbers in large container and cover with boiling water. Six to 8 hours later, and again on the second day, drain and cover with 6 quarts of fresh boiling water containing 1/4-cup salt. On the third day, drain and prick cucumbers with a table fork. Combine and bring to a boil 3 cups vinegar, 3 cups sugar, turmeric, and spices. Pour over cucumbers. Six to 8 hours later, drain and save the pickling syrup. Add another 2 cups each of sugar and vinegar and reheat to boil. Pour over pickles. On the fourth day, drain and save syrup. Add another 2 cups sugar and 1 cup vinegar. Heat to boiling and pour over pickles. Drain and save pickling syrup 6 to 8 hours later. Add 1 cup sugar and 2 tsp vanilla and heat to boiling. Fill hot sterile pint jars (see page 1-14) with pickles and cover with hot syrup, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process as below, or use the low temperature pasteurization treatment described on page 6-5.

Recommended process time for Sweet Gherkin Pickles in a boiling-water canner					
	Process Time at Altitudes of				
Style	Jar	0—	1,001–	Above	
of Pack	Size	1,000 ft	6,000 ft	6,000 ft	
Raw	Pints	5 min	10	15	_

# **14-DAY SWEET PICKLES**

#### Can be canned whole, in strips, or in slices

4 lbs of 2- to 5-inch pickling cucumbers

(If packed whole, use cucumbers of uniform size)

3/4 cup canning or pickling salt

(Separated—1/4 cup on each of the 1st, 3rd, and 5th days)

2 tsp celery seed

2 tbsp mixed pickling spices
5-1/2 cups sugar
4 cups vinegar (5%)

Yield: About 5 to 9 pints

**Procedure:** Wash cucumbers. Cut 1/16-inch slice off blossom end and discard, but leave 1/4-inch of stem attached. Place whole cucumbers in suitable 1-gallon container (see page 6-6). Add 1/4 cup canning or pickling salt to 2 quarts water and bring to a boil. Pour over cucumbers. Add suitable cover and weight. Place clean towel over container and keep the temperature at about 70°F. **On the third and fifth days,** drain salt water and discard. Rinse cucumbers and rescald cover and weight. Return cucumbers to container. Add 1/4 cup salt to 2 quarts fresh water and boil. Pour over cucumbers. Replace cover and weight, and re-cover with clean towel. **On the seventh day,** drain salt water and discard. Rinse cucumbers and rescald containers, cover, and weight. Slice or

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strip cucumbers, if desired, and return to container. Place celery seed and pickling spices in small cheesecloth bag. Combine 2 cups sugar and 4 cups vinegar in a saucepan. Add spice bag, bring to a boil and pour pickling solution over cucumbers. Add cover and weight, and re-cover with clean towel. **On each of the next six days**, drain syrup and spice bag and save. Add 1/2 cup sugar each day and bring to a boil in a saucepan. Remove cucumbers and rinse. Scald container, cover, and weight daily. Return cucumbers to container, add boiled syrup, cover, weight, and re-cover with towel. **On the 14th day**, drain syrup into saucepan. Fill hot sterile pint jars (see page 1-14) or clean hot quart jars, leaving 1/2-inch headspace. Add 1/2 cup sugar to syrup and bring to boil. Remove spice bag. Pour hot syrup over cucumbers, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process as below or use low-temperature pasteurization treatment described on page 6-5.

Recommended process time for 14-Day Sweet Pickles in a boiling-water canner					
		Process Tir	ne at Altitude	es of	
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft	
Raw	Pints	5 min	10	15	
	Quarts	10	15	20	

## **QUICK SWEET PICKLES**

#### May be canned as either strips or slices

8 lbs of 3- to 4-inch pickling cucumbers
1/3 cup canning or pickling salt
4-1/2 cups sugar
3-1/2 cups vinegar (5%)
2 tsp celery seed
1 tbsp whole allspice
2 tbsp mustard seed
1 cup pickling lime (optional) for use in variation below for making firmer pickles

Yield: About 7 to 9 pints

**Procedure:** Wash cucumbers. Cut 1/16-inch off blossom end and discard, but leave 1/4 inch of stem attached. Slice or cut in strips, if desired. Place in bowl and sprinkle with 1/3 cup salt. Cover with 2 inches of crushed or cubed ice. Refrigerate 3 to 4 hours. Add more ice as needed. Drain well.

Combine sugar, vinegar, celery seed, allspice, and mustard seed in 6-quart kettle. Heat to boiling.

Hot pack—Add cucumbers and heat slowly until vinegar solution returns to boil. Stir occasionally to make sure mixture heats evenly. Fill sterile jars, leaving 1/2-inch headspace.

Raw pack—Fill hot jars, leaving 1/2-inch headspace. Add hot pickling syrup, leaving 1/2-inch headspace.

Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process as below or use the low temperature pasteurization treatment described on page 6-5.

**Variation for firmer pickles:** Wash cucumbers. Cut 1/1 6-inch off blossom end and discard, but leave 1/4-inch of stem attached. Slice or strip cucumbers. Mix 1 cup pickling lime and 1/2 cup salt to 1 gallon water in a 2- to 3-gallon crock or enamelware container. **Caution: Avoid inhaling lime dust while mixing the lime-water solution.** Soak cucumber slices or strips in lime water solution for 12 to 24 hours, stirring occasionally. Remove from lime solution and rinse and resoak 1 hour in fresh cold water. Repeat the rinsing and resoaking two more times. Handle carefully because slices or strips will be brittle. Drain well.

Recommended process time for Quick Sweet Pickles in a boiling-water canner					
		Process Til	me at Altitude	es of	
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft	
Hot	Pints or Quarts	5 min	10	15	
Raw	Pints	10	15	20	
	Quarts	15	20	25	

**Storage:** After processing and cooling, jars should be stored 4 to 5 weeks to develop ideal flavor.

Variation: Add 2 slices of raw whole onion to each jar before filling with cucumbers.

# Other vegetable pickles

#### PICKLED ASPARAGUS

Yield: 6 wide-mouth pint jars

10 lbs asparagus 6 large garlic cloves 4-1/2 cups water 4-1/2 cups white distilled vinegar (5%) 6 small hot peppers (optional) 1/2 cup canning salt 3 tsp dill seed Yield: 7 12-ounce jars

7 lbs asparagus 7 large garlic cloves 3 cups water 3 cups white distilled vinegar (5%) 7 small hot peppers (optional) 1/3 cup canning salt 2 tsp dill seed

**Procedure:** Wash asparagus well, but gently, under running water. Cut stems from the bottom to leave spears with tips that fit into the canning jar, leaving a little more than 1/2-inch headspace. Peel and wash garlic cloves. Place a garlic clove at the bottom of each jar, and tightly pack asparagus into hot jars with the blunt ends down. In an 8-quart saucepot, combine water, vinegar, hot peppers (optional), salt and dill seed. Bring to a boil. Place one hot pepper (if used) in each jar over asparagus spears. Pour boiling hot pickling brine over spears, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

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Recommended process time for Pickled Asparagus in a boiling-water canner					
		Process Tim	ne at Altitude	s of	
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft	
Raw	12-ounce or Pints	10 min	15	20	

#### PICKLED DILLED BEANS

4 lbs fresh tender green or yellow beans (5 to 6 inches long) 8 to 16 heads fresh dill 8 cloves garlic (optional) 1/2 cup canning or pickling salt 4 cups white vinegar (5%) 4 cups water 1 tsp hot red pepper flakes (optional)

Yield: About 8 pints

**Procedure:** Wash and trim ends from beans and cut to 4-inch lengths. In each hot sterile pint jar (see page 1-14),place 1 to 2 dill heads and, if desired, 1 clove of garlic. Place whole beans upright in jars, leaving 1/2-inch headspace. Trim beans to ensure proper fit, if necessary. Combine salt, vinegar, water, and pepper flakes (if desired). Bring to a boil. Add hot solution to beans, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Dilled Beans in a boiling-water canner					
		Process Time at Altitudes of			
Style	Jar	0-	1,001–	Above	
of Pack	Size	1,000 ft	6,000 ft	6,000 ft	
Raw	Pints	5 min	10	15	

#### PICKLED THREE-BEAN SALAD

1-1/2 cups cut and blanched green or yellow beans (prepared as below)
1-1/2 cups canned, drained, red kidney beans
1 cup canned, drained garbanzo beans
1/2 cup peeled and thinly sliced onion (about 1 medium onion)
1/2 cup trimmed and thinly sliced celery (1-1/2 medium stalks)
1/2 cup sliced green peppers (1/2 medium pepper)
1/2 cup white vinegar (5%)
1/4 cup bottled lemon juice
3/4 cup sugar
1/4 cup oil
1/2 tsp canning or pickling salt
1-1/4 cups water

#### Yield: About 5 to 6 half-pints

**Procedure:** Wash and snap off ends of fresh beans. Cut or snap into 1- to 2-inch pieces. Blanch 3 minutes and cool immediately. Rinse kidney beans with tap water and drain again. Prepare and measure all other vegetables. Combine vinegar, lemon juice, sugar, and water and bring to a boil. Remove from heat. Add oil and salt and mix well. Add beans, onions, celery, and green pepper to solution and bring to a simmer. Marinate 12 to 14 hours in refrigerator, then heat entire mixture to a boil. Fill hot jars with solids. Add hot liquid, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Three-Bean Salad in a boiling-water canner					
		Process Tin	ne at Altitude	s of	
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft	
Hot	Half-pints or Pints	15 min	20	25	

## **PICKLED BEETS**

7 lbs of 2- to 2-1/2-inch diameter beets
4 cups vinegar (5%)
1-1/2 tsp canning or pickling salt
2 cups sugar
2 cups water
2 cinnamon sticks
12 whole cloves
4 to 6 onions (2- to 2-1/2-inch diameter), if desired

#### Yield: About 8 pints

**Procedure:** Trim off beet tops, leaving 1 inch of stem and roots to prevent bleeding of color. Wash thoroughly. Sort for size. Cover similar sizes together with boiling water and cook until tender (about 25 to 30 minutes). **Caution: Drain and discard liquid.** Cool beets. Trim off roots and stems and slip off skins. Slice into 1/4-inch slices. Peel and thinly slice onions. Combine vinegar, salt, sugar, and fresh water. Put spices in cheesecloth bag and add to vinegar mixture. Bring to a boil. Add beets and onions. Simmer 5 minutes. Remove spice bag. Fill hot jars with beets and onions, leaving 1/2-inch headspace. Add hot vinegar solution, allowing 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

**Variation:** For pickled whole baby beets, follow above directions but use beets that are 1-to 1-1/2 inches in diameter. Pack whole; do not slice. Onions may be omitted.

Recommended process time for Pickled Beets in a boiling-water canner							
		Process Time at Altitudes of					
Style of Pack	Jar Size	0– 1,000 ft	1,001– 3,000 ft	3,001– 6,000 ft	Above 6,000 ft		
Hot	Pints or Quarts	30 min	35	40	45		

#### **PICKLED CARROTS**

2-3/4 lbs peeled carrots (about 3-1/2 lbs as purchased)
5-1/2 cups white vinegar (5%)
1 cup water
2 cups sugar
2 tsp canning salt
8 tsp mustard seed
4 tsp celery seed

Yield: About 4 pints

**Procedure:** Wash and peel carrots. Cut into rounds that are approximately 1/2-inch thick. Combine vinegar, water, sugar and canning salt in an 8-quart Dutch oven or stockpot. Bring to a boil and boil 3 minutes. Add carrots and bring back to a boil. Then reduce heat to a simmer and heat until half-cooked (about 10 minutes). Meanwhile, place 2 teaspoons mustard seed and 1 teaspoon celery seed into each empty hot pint jar. Fill jars with hot carrots, leaving 1-inch headspace. Fill with hot pickling liquid, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Carrots in a boiling-water canner							
		Process Time at Altitudes of					
Style of Pack	Jar	0-	1,001–	Above			
of Pack	Size	1,000 ft	6,000 ft	6,000 ft			
Hot	Pints	15 min	20	25			

#### PICKLED BABY CARROTS

**Procedure:** Follow directions for Pickled Carrots, using 8-1/2 cups peeled baby carrots, leaving them whole, and use the same process time.

# PICKLED CAULIFLOWER OR BRUSSELS SPROUTS

12 cups of 1- to 2-inch cauliflower flowerets or small Brussels sprouts
4 cups white vinegar (5%)
2 cups sugar
2 cups thinly sliced onions
1 cup diced sweet red peppers
2 tbsp mustard seed
1 tbsp celery seed
1 tsp turmeric
1 tsp hot red pepper flakes

#### Yield: About 9 half-pints

**Procedure:** Wash cauliflower flowerets or Brussels sprouts (remove stems and blemished outer leaves) and boil in salt water (4 tsp canning salt per gallon of water) for 3 minutes for cauliflower and 4 minutes for Brussels sprouts. Drain and cool. Combine vinegar, sugar, onion, diced red pepper, and spices in large saucepan. Bring to a boil and simmer 5 minutes. Distribute onion and diced pepper among jars. Fill hot jars with pieces and pickling solution, leaving 1/2-inch head-space. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Cauliflower or Brussels Sprouts in a boiling-water canner							
		Process Tin	Process Time at Altitudes of				
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft			
Hot	Half-pints or Pints	10 min	15	20			

#### CHAYOTE AND JICAMA SLAW

4 cups julienned jicama 4 cups julienned chayote 2 cups finely chopped red bell pepper 2 finely chopped hot peppers 2-1/2 cups water 2-1/2 cups cider vinegar (5%) 1/2 cup white sugar 3-1/2 tsp canning salt 1 tsp celery seed (optional)

Yield: About 6 half-pints

Procedure: Caution: Wear plastic or rubber gloves and do not touch your face while handling or cutting hot peppers. If you do not wear gloves, wash hands thoroughly with soap and water before touching your face or eyes. Wash, peel and thinly julienne jicama and chayote, discarding the seed of the chayote. In an 8-quart Dutch oven or stockpot, combine all ingredients except chayote. Bring to a boil and boil for 5 minutes. Reduce heat to simmering and add chayote. Bring back to a boil and then turn heat off. Fill hot solids into hot half-pint jars, leaving 1/2-inch Provided by https://www.pickyourown.org/canningpubs.htm headspace. Cover with boiling cooking liquid, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Chayote and Jicama Slaw in a boiling-water canner						
		Process Time at Altitudes of				
Style	Jar	0-	1,001–	Above		
of Pack	Size	1,000 ft	6,000 ft	6,000 ft		
Hot	Half-pints	15 min	20	25		

## BREAD-AND-BUTTER PICKLED JICAMA

14 cups cubed jicama 3 cups thinly sliced onion 1 cup chopped red bell pepper 4 cups white vinegar (5%) 4-1/2 cups sugar 2 tbsp mustard seed 1 tbsp celery seed 1 tsp ground turmeric

#### Yield: About 6 pints

**Procedure:** Combine vinegar, sugar and spices in a 12-quart Dutch oven or large saucepot. Stir and bring to a boil. Stir in prepared jicama, onion slices, and red bell pepper. Return to a boil, reduce heat and simmer 5 minutes. Stir occasionally. Fill hot solids into hot pint jars, leaving 1/2-inch headspace. Cover with boiling cooking liquid, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Bread-and-Butter Pickled Jicama in a boiling-water canner							
		Process Ti	Process Time at Altitudes of				
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft			
Hot	Pints	15 min	20	25			

#### MARINATED WHOLE MUSHROOMS

7 lbs small whole mushrooms

- 1/2 cup bottled lemon juice
- 2 cups olive or salad oil
- 2-1/2 cups white vinegar (5%)
- 1 tbsp oregano leaves
- 1 tbsp dried basil leaves
- 1 tbsp canning or pickling salt

Yield: About 9 half-pints

**Procedure:** Select very fresh unopened mushrooms with caps less than 1-1/4 inch in diameter. Wash. Cut stems, leaving 1/4 inch attached to cap. Add lemon juice and water to cover. Bring to boil. Simmer 5 minutes. Drain mushrooms. Mix olive oil, vinegar, oregano, basil, and salt in a saucepan. Stir in onions and pimiento and heat to boiling. Place 1/4 garlic clove and 2-3 peppercorns in a half-pint jar. Fill hot jars with mushrooms and hot, well-mixed oil/vinegar solution, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Marinated Whole Mushrooms in a boiling-water canner							
	Process Time at Altitudes of						
Style of Pack	Jar	0-	1,001–	3,001–	Above		
of Pack	of Pack Size 1,000 ft 3,000 ft 6,000 ft 6,000 ft						
Hot	Half-pints	20 min	25	30	35		

#### PICKLED DILLED OKRA

7 lbs small okra pods 6 small hot peppers 4 tsp dill seed 8 to 9 garlic cloves 2/3 cup canning or pickling salt 6 cups water 6 cups vinegar (5%)

Yield: About 8 to 9 pints

**Procedure:** Wash and trim okra. Fill hot jars firmly with whole okra, leaving 1/2-inch headspace. Place 1 garlic clove in each jar. Combine salt, hot peppers, dill seed, water, and vinegar in large saucepan and bring to a boil. Pour hot pickling solution over okra, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Dilled Okra in a boiling-water canner						
	Process Time at Altitudes of					
Style	Jar	0-	1,001–	Above	_	
of Pack	Size	1,000 ft	6,000 ft	6,000 ft		
Hot	Pints	10 min	15	20		

# **PICKLED PEARL ONIONS**

8 cups peeled white pearl onions 5-1/2 cups white vinegar (5%) 1 cup water 2 tsp canning salt 2 cups sugar 8 tsp mustard seed 4 tsp celery seed

Yield: About 3 to 4 pints

**Procedure:** To peel onions, place a few at a time in a wire-mesh basket or strainer, dip in boiling water for 30 seconds, then remove and place in cold water for 30 seconds. Cut a 1/16th-inch slice from the root end, and then remove the peel and cut 1/16th-inch from the other end of the onion. Combine vinegar, water, salt and sugar in an 8-quart Dutch oven or stockpot. Bring to a boil and boil 3 minutes. Add peeled onions and bring back to a boil. Reduce heat to a simmer and heat until half-cooked (about 5 minutes). Meanwhile, place 2 teaspoons mustard seed and 1 teaspoon celery seed into each empty hot pint jar. Fill with hot onions, leaving 1 inch headspace. Fill with hot pickling liquid, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Pearl Onions in a boiling-water canner						
	Process Time at Altitudes of					
Style of Pack	Jar	0–	1,001–	Above		
of Pack	Size	1,000 ft	6,000 ft	6,000 ft		
Hot	Pints	10 min	15	20		

#### MARINATED PEPPERS

#### Bell, Hungarian, banana, or jalapeño

4 lbs firm peppers\*
1 cup bottled lemon juice
2 cups white vinegar (5%)
1 tbsp oregano leaves
1 cup olive or salad oil
1/2 cup chopped onions
2 cloves garlic, quartered (optional)
2 tbsp prepared horseradish (optional)

\* **Note:** It is possible to adjust the intensity of pickled jalapeño peppers by using all hot jalapeño peppers (hot style), or blending with sweet and mild peppers (medium or mild style).

For hot style: Use 4 lbs jalapeño peppers.

For medium style: Use 2 lbs jalapeño peppers and 2 lbs sweet and mild peppers.

For mild style: Use 1 lb jalapeño peppers and 3 lbs sweet and mild peppers.

#### Yield: About 9 half-pints

**Procedure:** Select your favorite pepper. **Caution: If you select hot peppers, wear plastic or** rubber gloves and do not touch your face while handling or cutting hot peppers. If you do not wear gloves, wash hands thoroughly with soap and water before touching your face or eyes. Peppers may be left whole. Large peppers may be guartered. Wash, slash two to four slits in each pepper, and blanch in boiling water or blister skins on tough-skinned hot peppers using one of these two methods:

Oven or broiler method to blister skins – Place peppers in a hot oven (400°F) or under a broiler for 6 to 8 minutes until skins blister.

*Range-top method to blister skins* – Cover hot burner (either gas or electric) with heavy wire mesh. Place peppers on burner for several minutes until skins blister.

After blistering skins, place peppers in a pan and cover with a damp cloth. (This will make peeling the peppers easier.) Cool several minutes; peel off skins. Flatten whole peppers. Mix all remaining ingredients in a saucepan and heat to boiling. Place 1/4 garlic clove (optional) and 1/4 teaspoon salt in each hot half-pint jar or 1/2 teaspoon per pint. Fill hot jars with peppers. Add hot, wellmixed oil/pickling solution over peppers, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Marinated Peppers in a boiling-water canner						
		Process Time at Altitudes of				
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft		
Raw	Half-pints or Pints	15 min	20	25		

#### PICKLED BELL PEPPERS

7 lbs firm bell peppers 3-1/2 cups sugar 3 cups vinegar (5%) 3 cups water 9 cloves garlic 4-1/2 tsp canning or pickling salt

#### Yield: About 9 pints

Procedure: Wash peppers, cut into quarters, remove cores and seeds, and cut away any blemishes. Slice peppers in strips. Boil sugar, vinegar, and water for 1 minute. Add peppers and bring to a boil. Place 1/2 clove of garlic and 1/4 teaspoon salt in each hot sterile half-pint jar; double the amounts for pint jars. Add pepper strips and cover with hot vinegar mixture, leaving 1/2-inch 6

headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Bell Peppers in a boiling-water canner							
		Process Time at Altitudes of					
Style of Pack	Jar	0-	1,001–	Above			
OT Pack	Size	1,000 ft	6,000 ft	6,000 ft			
Hot	Half-pints or Pints	5 min	10	15			

#### **PICKLED HOT PEPPERS**

#### Hungarian, banana, chile, jalapeño

4 lbs hot long red, green, or yellow peppers
3 lbs sweet red and green peppers, mixed
5 cups vinegar (5%)
1 cup water
4 tsp canning or pickling salt
2 tbsp sugar
2 cloves garlic

Yield: About 9 pints

**Procedure: Caution: Wear plastic or rubber gloves and do not touch your face while handling or cutting hot peppers. If you do not wear gloves, wash hands thoroughly with soap and water before touching your face or eyes.** Wash peppers. If small peppers are left whole, slash 2 to 4 slits in each. Quarter large peppers. Blanch in boiling water or blister skins on tough-skinned hot peppers using one of these two methods:

*Oven or broiler method to blister skins* – Place peppers in a hot oven (400°F) or under a broiler for 6 to 8 minutes until skins blister.

*Range-top method to blister skins* – Cover hot burner (either gas or electric) with heavy wire mesh. Place peppers on burner for several minutes until skins blister.

After blistering skins, place peppers in a pan and cover with a damp cloth. (This will make peeling the peppers easier.) Cool several minutes; peel off skins. Flatten small peppers. Quarter large peppers. Fill hot jars with peppers, leaving 1/2-inch headspace. Combine and heat other ingredients to boiling and simmer 10 minutes. Remove garlic. Add hot pickling solution over peppers, leaving 1/2-inch headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

		Process Time at Altitudes of				
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft		
Raw	Half-pints or Pints	10 min	15	20		

## PICKLED JALAPEÑO PEPPER RINGS

3 lbs jalapeño peppers 1-1/2 cups pickling lime 1-1/2 gallons water 7-1/2 cups cider vinegar (5%) 1-3/4 cups water 2-1/2 tbsp canning salt 3 tbsp celery seed 6 tbsp mustard seed

Yield: About 6 pint jars

**Procedure: Caution: Wear plastic or rubber gloves and do not touch your face while handling or cutting hot peppers. If you do not wear gloves, wash hands thoroughly with soap and water before touching your face or eyes.** Wash peppers well and slice into 1/4-inch thick slices. Discard stem end. Mix 1-1/2 cups pickling lime with 1-1/2 gallons water in a stainless steel, glass or food grade plastic container. Avoid inhaling lime dust while mixing the lime-water solution. Soak pepper slices in the lime water, in refrigerator, for 18 hours, stirring occasionally (12 to 24 hours may be used). Drain lime solution from soaked pepper rings. Rinse peppers gently but thoroughly with water. Cover pepper rings with fresh cold water and soak, in refrigerator, 1 hour. Drain water from peppers. Repeat the rinsing, soaking and draining steps two more times. Drain thoroughly at the end. Place 1 tablespoon mustard seed and 1-1/2 teaspoons celery seed in the bottom of each hot pint jar. Pack drained pepper rings into the jars, leaving 1/2-inch headspace. Bring cider vinegar, 1-3/4 cups water and canning salt to a boil over high heat. Ladle boiling hot brine solution over pepper rings in jars, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Jalapeño Rings in a boiling-water canner							
	Process Time at Altitudes of						
Style	Jar	0—	1,001–	Above			
of Pack	Size	1,000 ft	6,000 ft	6,000 ft			
Hot	Pints	10 min	15	20			

## PICKLED YELLOW PEPPER RINGS

2-1/2 to 3 lbs yellow (banana) peppers
2 tbsp celery seed
4 tbsp mustard seed
5 cups cider vinegar (5%)
1-1/4 cups water
5 tsp canning salt

Yield: About 4 pint jars

**Procedure: Caution: Wear plastic or rubber gloves and do not touch your face while handling or cutting hot peppers. If you do not wear gloves, wash hands thoroughly with soap and water before touching your face or eyes.** Wash peppers well and remove stem end; slice peppers into 1/4-inch thick rings. Place 1/2 tablespoon celery seed and 1 tablespoon mustard seed in the bottom of each empty hot pint jar. Fill pepper rings into jars, leaving 1/2-inch headspace. In a 4-quart Dutch oven or saucepan, combine the cider vinegar, water and salt; heat to boiling. Cover pepper rings with boiling pickling liquid, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Yellow Pepper Rings in a boiling-water canner							
	Process Time at Altitudes of						
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft			
Hot	Pints	10 min	15	20			

# PICKLED SWEET GREEN TOMATOES

10 to 11 lbs of green tomatoes (16 cups sliced) 2 cups sliced onions 1/4 cup canning or pickling salt 3 cups brown sugar 4 cups vinegar (5%) 1 tbsp mustard seed 1 tbsp allspice 1 tbsp celery seed 1 tbsp whole cloves

#### Yield: About 9 pints

**Procedure:** Wash and slice tomatoes and onions. Place in bowl, sprinkle with 1/4 cup salt, and let stand 4 to 6 hours. Drain. Heat and stir sugar in vinegar until dissolved. Tie mustard seed, allspice, celery seed, and cloves in a spice bag. Add to vinegar with tomatoes and onions. If needed, add minimum water to cover pieces. Bring to boil and simmer 30 minutes, stirring as needed to prevent burning. Tomatoes should be tender and transparent when properly cooked. Remove spice bag. Fill hot jar with solids and cover with hot pickling solution, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommen boiling-wate		me for Pickled	Sweet Greer	Tomatoes in a		
Process Time at Altitudes of						
Style	Jar	0–	1,001–	Above		
of Pack	Size	1,000 ft	6,000 ft	6,000 ft		
Hot	Pints	10 min	15	20		
	Quarts	15	20	25		

## PICKLED MIXED VEGETABLES

4 lbs of 4- to 5-inch pickling cucumbers, washed, and cut into 1-inch slices (cut off 1/16 inch from blossom end and discard)
2 lbs peeled and quartered small onions
4 cups cut celery (1-inch pieces)
2 cups peeled and cut carrots (1/2-inch pieces)
2 cups cut sweet red peppers (1/2-inch pieces)
2 cups cauliflower flowerets
5 cups white vinegar (5%)
1/4 cup prepared mustard
1/2 cup canning or pickling salt
3-1/2 cups sugar
3 tbsp celery seed
2 tbsp mustard seed
1/2 tsp whole cloves
1/2 tsp qround turmeric

Yield: About 10 pints

**Procedure:** Combine vegetables, cover with 2 inches of cubed or crushed ice, and refrigerate 3 to 4 hours. In 8-quart kettle, combine vinegar and mustard and mix well. Add salt, sugar, celery seed, mustard seed, cloves, turmeric. Bring to a boil. Drain vegetables and add to hot pickling solution. Cover and slowly bring to boil. Drain vegetables but save pickling solution. Fill vegetables in hot sterile pint jars, or hot quarts, leaving 1/2-inch headspace. Add pickling solution, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Mixed Vegetables in a boiling-water canner							
Process Time at Altitudes of							
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft			
Hot	Pints	5 min	10	15			
	Quarts	10	15	20			

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# PICKLED BREAD-AND-BUTTER ZUCCHINI

16 cups fresh zucchini, sliced 4 cups onions, thinly sliced 1/2 cup canning or pickling salt 4 cups white vinegar (5%) 2 cups sugar 4 tbsp mustard seed 2 tbsp celery seed 2 tsp ground turmeric

#### Yield: About 8 to 9 pints

**Procedure:** Cover zucchini and onion slices with 1 inch of water and salt. Let stand 2 hours and drain thoroughly. Combine vinegar, sugar, and spices. Bring to a boil and add zucchini and onions. Simmer 5 minutes and fill hot jars with mixture and pickling solution, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process or use low-temperature pasteurization treatment described on page 6-5.

Recommended process time for Pickled Bread-and-Butter Zucchini in a boiling-water canner								
Process Time at Altitudes of								
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft				
Hot	Pints or Quarts	10 min	15	20				

# Pickled vegetable relishes

# CHAYOTE AND PEAR RELISH

3-1/2 cups peeled, cubed chayote
3-1/2 cups peeled, cubed Seckel pears
2 cups chopped red bell pepper
2 cups chopped yellow bell pepper
3 cups finely chopped onion
2 Serrano peppers, finely chopped
2-1/2 cups cider vinegar (5%)
1-1/2 cups water
1 cup white sugar
2 tsp canning salt
1 tsp ground allspice
1 tsp ground pumpkin pie spice

Yield: About 5 pint jars

Procedure: Caution: Wear plastic or rubber gloves and do not touch your face while handling or cutting hot peppers. If you do not wear gloves, wash hands thoroughly with soap and water before touching your face or eyes. Wash, peel and cut chayote and pears into 1/2-inch cubes, discarding cores and seeds. Chop onions and peppers. Combine vinegar, water, sugar, salt and spices in a Dutch oven or large saucepot. Bring to a boil, stirring to dissolve sugar. Add chopped onions and peppers; return to a boil and boil for 2 minutes, stirring occasionally. Add cubed chayote and pears; return to the boiling point and turn off heat. Fill the hot solids into hot pint jars, leaving 1-inch headspace. Cover with boiling cooking liquid, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Chayote Pear Relish in a boiling-water canner								
	Process Time at Altitudes of							
Style	Jar	0-	1,001–	Above				
of Pack	Size	1,000 ft	6,000 ft	6,000 ft				
Hot	Pints	15 min	20	25				

# PICCALILLI

- 6 cups chopped green tomatoes
- 1-1/2 cups chopped sweet red peppers
- 1-1/2 cups chopped green peppers
- 2-1/4 cups chopped onions
- 7-1/2 cups chopped cabbage
- 1/2 cup canning or pickling salt
- 3 tbsp whole mixed pickling spice
- 4-1/2 cups vinegar (5%)

3 cups brown sugar

Yield: About 9 half-pints

**Procedure:** Wash, chop, and combine vegetables with 1/2 cup salt. Cover with hot water and let stand 12 hours. Drain and press in a clean white cloth to remove all possible liquid. Tie spices loosely in a spice bag and add to combined vinegar and brown sugar and heat to a boil in a sauce pan. Add vegetables and boil gently 30 minutes or until the volume of the mixture is reduced by one-half. Remove spice bag. Fill hot sterile jars (see page 1-14), with hot mixture, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Piccalilli in a boiling-water canner							
Process Time at Altitudes of							
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft			
Hot	Half-pints or Pints	5 min	10	15			

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# PICKLE RELISH

3 qts chopped cucumbers 3 cups each of chopped sweet green and red peppers 1 cup chopped onions 3/4 cup canning or pickling salt 4 cups ice 8 cups water 2 cups sugar 4 tsp each of mustard seed, turmeric, whole allspice, and whole cloves 6 cups white vinegar (5%)

#### Yield: About 9 pints

**Procedure:** Add cucumbers, peppers, onions, salt, and ice to water and let stand 4 hours. Drain and re-cover vegetables with fresh ice water for another hour. Drain again. Combine spices in a spice or cheesecloth bag. Add spices to sugar and vinegar. Heat to boiling and pour mixture over vegetables. Cover and refrigerate 24 hours. Heat mixture to boiling and fill hot into hot jars, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickle Relish in a boiling-water canner							
	Process Time at Altitudes of						
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6,000 ft	Above 6,000 ft			
Hot	Half-pints or Pints	10 min	15	20			

# PICKLED CORN RELISH

10 cups fresh whole kernel corn (16 to 20 medium-size ears), or six 10-ounce packages of frozen corn 2-1/2 cups diced sweet red peppers 2-1/2 cups diced sweet green peppers 2-1/2 cups chopped celery 1-1/4 cups diced onions 1-3/4 cups sugar 5 cups vinegar (5%) 2-1/2 tbsp canning or pickling salt 2-1/2 tsp celery seed 2-1/2 tsp dry mustard 1-1/4 tsp turmeric

Yield: About 9 pints

**Procedure:** Boil ears of corn 5 minutes. Dip in cold water. Cut whole kernels from cob or use six 10-ounce frozen packages of corn. Combine peppers, celery, onions, sugar, vinegar, salt, and celery seed in a saucepan. Bring to boil and simmer 5 minutes, stirring occasionally. Mix mustard and turmeric in 1/2 cup of the simmered mixture. Add this mixture and corn to the hot mixture.

Simmer another 5 minutes. If desired, thicken mixture with flour paste (1/4 cup flour blended in 1/4 cup water) and stir frequently. Fill hot jars with hot mixture, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Corn Relish in a boiling-water canner							
Process Time at Altitudes of							
Style	Jar	0-	1,001–	Above			
of Pack	Size	1,000 ft	6,000 ft	6,000 ft			
Hot	Half-pints or Pints	15 min	20	25			

# PICKLED GREEN TOMATO RELISH

10 lbs small, hard green tomatoes 1-1/2 lbs red bell peppers 1-1/2 lbs green bell peppers 2 lbs onions 1/2 cup canning or pickling salt 1 qt water 4 cups sugar 1 qt vinegar (5%) 1/3 cup prepared yellow mustard 2 tbsp cornstarch

Yield: About 7 to 9 pints

**Procedure:** Wash and coarsely grate or finely chop tomatoes, peppers, and onions. Dissolve salt in water and pour over vegetables in large kettle. Heat to boiling and simmer 5 minutes. Drain in colander. Return vegetables to kettle. Add sugar, vinegar, mustard, and cornstarch. Stir to mix. Heat to boiling and simmer 5 minutes. Fill hot sterile pint jars (see page 1-14) with hot relish, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Pickled Green Tomato Relish in a boiling-water canner								
	Process Time at Altitudes of							
Style	Jar	0-	1,001–	Above				
of Pack	Size	1,000 ft	6,000 ft	6,000 ft				
Hot	Pints	5 min	10	15				

## PICKLED HORSERADISH SAUCE

2 cups (3/4 lb) freshly grated horseradish 1 cup white vinegar (5%) 1/2 tsp canning or pickling salt 1/4 tsp powdered ascorbic acid

Yield: About 2 half-pints

**Procedure:** The pungency of fresh horseradish fades within 1 to 2 months, even when refrigerated. Therefore, make only small quantities at a time. Wash horseradish roots thoroughly and peel off brown outer skin. The peeled roots may be grated in a food processor or cut into small cubes and put through a food grinder. Combine ingredients and fill into sterile jars (see page 1-14), leaving 1/4-inch headspace. Seal jars tightly and store in a refrigerator.

#### PICKLED PEPPER-ONION RELISH

6 cups finely chopped onions 3 cups finely chopped sweet red peppers 3 cups finely chopped green peppers 1-1/2 cups sugar 6 cups vinegar (5%), preferably white distilled 2 tbsp canning or pickling salt

Yield: About 9 half-pints

**Procedure:** Wash and chop vegetables. Combine all ingredients and boil gently until mixture thickens and volume is reduced by one-half (about 30 minutes). Fill hot sterile jars (see page 1-14) with hot relish, leaving 1/2-inch headspace, and seal tightly. Store in refrigerator and use within one month. **Caution: If extended storage is desired, this product must be processed.** 

Recommended process time for Pickled Pepper-Onion Relish in a boiling-water canner								
Process Time at Altitudes of								
Style	Jar	0-	1,001–	Above				
of Pack	Size	1,000 ft	6,000 ft	6,000 ft				
Hot	Half-pints or Pints	5 min	10	15				

# SPICY JICAMA RELISH

9 cups diced jicama (you will need about 4 pounds purchased jicama)
1 tbsp whole mixed pickling spice
1 two-inch stick cinnamon
8 cups white vinegar (5%)
4 cups sugar
2 tsp crushed red pepper
4 cups diced yellow bell pepper

Yield: About 7 pint jars

Procedure: Caution: Wear plastic or rubber gloves and do not touch your face while handling or cutting hot peppers. If you do not wear gloves, wash hands thoroughly with soap and water before touching your face or eyes. Wash, peel and trim jicama; dice. Place pickling spice and cinnamon on a clean, double-layer, 6-inch-square piece of 100% cotton cheesecloth. Bring corners together and tie with a clean string. (Or use a purchased muslin spice bag.) In a 4-guart Dutch oven or saucepot, combine pickling spice bag, vinegar, sugar, and crushed red pepper. Bring to boiling, stirring to dissolve sugar. Stir in diced jicama, sweet peppers, onion and fingerhots. Return mixture to boiling. Reduce heat and simmer, covered, over medium-low heat about 25 minutes. Discard spice bag. Fill relish into hot pint jars, leaving 1/2-inch headspace. Cover with hot pickling liquid, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Spicy Jicama Relish in a boiling-water canner								
	Process Time at Altitudes of							
Style of Pack	Jar Size	0– 1,000 ft	1,001– 3,000 ft	3,001– 6,000 ft	Above 6,000 ft			
Hot	Pints	20 min	25	30	35			

#### TANGY TOMATILLO RELISH

12 cups chopped tomatillos 3 cups finely chopped jicama 3 cups chopped onion 6 cups chopped plum-type tomatoes 1-1/2 cups chopped green bell pepper 1-1/2 cups chopped red bell pepper 1-1/2 cups chopped yellow bell pepper 1 cup canning salt 2 gts water 6 tbsp whole mixed pickling spice 1 tbsp crushed red pepper flakes (optional) 6 cups sugar 6-1/2 cups cider vinegar (5%)

#### Yield: About 6 or 7 pints

Procedure: Remove husks from tomatillos and wash well. Peel jicama and onion. Wash all vegetables well before trimming and chopping. Place chopped tomatillos, jicama, onion, tomatoes, and all bell peppers in a 4-quart Dutch oven or saucepot. Dissolve canning salt in water. Pour over prepared vegetables. Heat to boiling; simmer 5 minutes. Drain thoroughly through a cheese cloth-lined strainer (until no more water drips through, about 15 to 20 minutes). Place pickling spice and optional red pepper flakes on a clean, double-layer, 6 inch-square piece

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of 100% cotton cheesecloth. Bring corners together and tie with a clean string. (Or use a purchased muslin spice bag.) Mix sugar, vinegar and spices (in cheesecloth bag) in a saucepan; bring to a boil. Add drained vegetables. Return to boil; reduce heat and simmer, uncovered, 30 minutes. Remove spice bag. Fill hot relish mixture into hot pint jars, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Tangy Tomatillo Relish in a boiling-water canner				
		Process Time at Altitudes of		
Style	Jar	0—	1,001–	Above
of Pack	Size	1,000 ft	6,000 ft	6,000 ft
Hot	Pints	15 min	20	25

# Pickled foods for special diets

# NO SUGAR ADDED PICKLED BEETS

7 lbs of 2- to 2-1/2-inch diameter beets 4 to 6 onions (2- to 2-1/2-inch diameter), if desired 6 cups white vinegar (5 percent) 1-1/2 tsp canning or pickling salt 2 cups Splenda<sup>®</sup> 3 cups water 2 cinnamon sticks 12 whole cloves

#### Yield: About 8 pints

**Procedure:** Trim off beet tops, leaving 1 inch of stem and roots to prevent bleeding of color. Wash thoroughly. Sort for size. Cover similar sizes together with boiling water and cook until tender (about 25 to 30 minutes). **Caution: Drain and discard liquid.** Cool beets. Trim off roots and stems and slip off skins. Slice into 1/4-inch slices. Peel, wash and thinly slice onions. Combine vinegar, salt, Splenda<sup>®</sup>, and 3 cups fresh water in large Dutch oven. Tie cinnamon sticks and cloves in cheesecloth bag and add to vinegar mixture. Bring to a boil. Add beets and onions. Simmer 5 minutes. Remove spice bag. Fill hot beets and onion slices into hot pint jars, leaving 1/2-inch headspace. Cover with boiling vinegar solution, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

**Variation:** *Pickled whole baby beets* - Follow the directions above but use beets that are no more than 1- to 1-1/2 inches in diameter. Pack whole after cooking, trimming and peeling; do not slice.

Recommended process time for No Sugar Added Pickled Beets in a boiling-water canner						
		Process Ti	me at Altitude	es of		
Style of Pack	Jar Size	0– 1,000 ft	1,001– 3,000 ft	3,001– 6,000 ft	Above 6,000 ft	
Hot	Pints	30 min	35	40	45	

#### NO SUGAR ADDED SWEET PICKLE CUCUMBER SLICES

3-1/2 lbs of pickling cucumbers
boiling water to cover sliced cucumbers
4 cups cider vinegar (5%)
1 cup water
3 cups Splenda®
1 tbsp canning salt
1 tbsp mustard seed
1 tbsp whole allspice
1 tbsp celery seed
4 one-inch cinnamon sticks

Yield: About 4 or 5 pint jars

**Procedure:** Wash cucumbers. Slice 1/16th-inch off the blossom ends and discard. Slice cucumbers into 1/4-inch thick slices. Pour boiling water over the cucumber slices and let stand 5 to 10 minutes. Drain off the hot water and pour cold water over the cucumbers. Let cold water run continuously over the cucumber slices, or change water frequently until cucumbers are cooled. Drain slices well. Mix vinegar, 1 cup water, Splenda<sup>®</sup> and all spices in a 10-quart Dutch oven or stockpot. Bring to a boil. Add drained cucumber slices carefully to the boiling liquid and return to a boil. Place one cinnamon stick in each empty hot jar, if desired. Fill hot pickle slices into hot pint jars, leaving 1/2-inch headspace. Cover with boiling pickling brine, leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for No Sugar Added Sweet Cucumber Pickle Slices in a boiling-water canner					
		Process Ti	me at Altitude	es of	
Style	Jar	0	1,001–	Above	
of Pack	Size	1,000 ft	6,000 ft	6,000 ft	
Hot	Pints	10 min	15	20	

# **REDUCED-SODIUM SLICED DILL PICKLES**

4 lbs (3- to 5-inch) pickling cucumbers 6 cups vinegar (5%) 6 cups sugar 2 tbsp canning or pickling salt 1-1/2 tsp celery seed 1-1/2 tsp mustard seed 2 large onions, thinly sliced 8 heads fresh dill

#### Yield: About 8 pints

**Procedure:** Wash cucumbers. Cut 1/16-inch slice off blossom end and discard. Cut cucumbers in 1/4-inch slices. Combine vinegar, sugar, salt, celery, and mustard seeds in large saucepan. Bring mixture to boiling. Place 2 slices of onion and 1/2 dill head on bottom of each hot pint jar. Fill hot jars with cucumber slices, leaving 1/2-inch headspace. Add 1 slice of onion and 1/2 dill head on top. Pour hot pickling solution over cucumbers, leaving 1/4-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Reduced-Sodium Sliced Dill Pickles in a boiling-water canner					
		Process Time at Altitudes of			
Style of Pack	Jar Size	0– 1,000 ft	1,001– 6.000 ft	Above 6.000 ft	
Raw	Pints	15 min	20	25	

# **REDUCED-SODIUM SLICED SWEET PICKLES**

4 lbs (3- to 4-inch) pickling cucumbers

Brining solution: 1 qt distilled white vinegar (5%) 1 tbsp canning or pickling salt 1 tbsp mustard seed 1/2 cup sugar

Canning syrup: 1-2/3 cups distilled white vinegar (5%) 3 cups sugar 1 tbsp whole allspice 2-1/4 tsp celery seed

Yield: About 4 to 5 pints

**Procedure:** Wash cucumbers and cut 1/16 inch off blossom end, and discard. Cut cucumbers into 1/4-inch slices. Combine all ingredients for canning syrup in a saucepan and bring to boiling. Keep syrup hot until used. In a large kettle, mix the ingredients for the brining solution. Add the cut cucumbers, cover, and simmer until the cucumbers change color from bright to dull green (about 5 to 7 minutes). Drain the cucumber slices. Fill hot jars, and cover with hot canning syrup leaving 1/2-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe rims of jars with a dampened clean paper towel. Adjust lids and process.

Recommended process time for Reduced-Sodium Sliced Sweet Pickles in a boiling-water canner					
		Process Time at Altitudes of			
Style of Pack	Jar	0	1,001–	Above	
of Pack	Size	1,000 ft	6,000 ft	6,000 ft	
Hot	Pints	10 min	15	20	

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