How to Can Fresh Vegetables

Vegetables are at peak quality for six to 12 hours after harvesting. Vegetables picked from your garden or purchased from nearby producers are usually good for canning. If you must delay canning fresh vegetables, keep them refrigerated until you are ready to begin.

For safety’s sake
Pressure canning is the only safe method for canning vegetables. Clostridium botulinum, the bacterium that causes botulism food poisoning, is destroyed in low-acid foods, such as vegetables, when they are processed for the correct amount of time at the correct temperature in pressure canners.

- Canning low-acid foods in boiling-water canners is absolutely unsafe because the botulinum bacteria can survive this process.
- If Clostridium botulinum bacteria survive and grow inside a sealed jar of food, they can produce a poisonous toxin.

It’s OK to skip the salt
Salt seasons vegetables, but it is not necessary for safety. It is perfectly safe to can vegetables without adding salt. Add salt substitutes when serving vegetables, but not when canning. If added before the canning process, salt substitutes may cause a bitter taste. If you do add salt, be sure to use canning salt. Please refer to MU Extension publication GH1451, The Basics of Safe Canning(opens in new window), for information on correct canning procedures and the steps to follow in pressure canning.

Note: Use only tested recipes from the U.S. Department of Agriculture Cooperative Extension Service or the Ball Blue Book (dated 1989 or later). Follow canning procedures from the same sources dated 2009 or later.

Asparagus — spears or pieces

Quantity: For eight to 12 quart jars, you need an average of 24 pounds of fresh asparagus.

A crate weighs 30 pounds and yields 10 to 15 quarts (an average of 2 to 3 pounds per quart).

Quality: Use tender, tight-tipped spears, 4 to 6 inches long.

Procedure: Wash asparagus. Trim off tough scales, break off tough stems and wash again. Cut into 1-inch pieces or leave whole.

Hot pack: Cover asparagus with boiling water. Boil 2 or 3 minutes. Loosely fill jars with hot asparagus; leave 1 inch of headspace.

Raw pack: Fill jars with raw asparagus, pack as tightly as possible without crushing, and leave 1 inch of headspace.

Final steps: Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to each jar, if desired. Add boiling water; leave 1 inch of headspace. Adjust lids, and process as directed in Table 1.

Beans or peas—shelled and dried (all varieties)

Quantity: For each 7-quart canner load, you need an average of 5 pounds of dried beans or peas. For each 9-pint canner load, you need an average of 3 ¾ pounds of dried beans or peas (an average of ¾ pound per quart).

Quality: Select mature, dry seeds. Sort out and discard discolored beans.

Procedure: Place dried beans or peas in a large pot, and cover with water. Soak 12 to 18 hours in a refrigerator. Drain water or, to save time, cover sorted and washed beans or peas with boiling water in a saucepan. Boil 2 minutes, remove from heat, soak 1 hour, and drain.

After soaking beans or peas, cover with fresh water and boil 30 minutes. Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to each jar if desired. Fill jars with beans or peas and cooking water; leave 1 inch of headspace. Adjust lids, and process as directed in Table 1.

Beans, fresh lima—shelled

Quantity: For each 7-quart canner load, you need an average of 28 pounds of fresh, shelled lima beans. For each 9-pint canner load, you need an average of 18 pounds of fresh, shelled lima beans.

A bushel weighs 30 pounds and yields 5 to 8 quarts (an average of 4 to 5 pounds per quart).
Quality: Select well-filled pods with green seeds. Discard insect-damaged and diseased seeds.
Procedure: Shell beans, and wash thoroughly.
Hot pack: Cover beans with boiling water, and heat to boil. Boil 3 minutes. Fill jars loosely; leave 1 inch of headspace.
Raw pack: Fill jars loosely with raw beans. Do not press or shake down.
Small beans: Leave 1 inch of headspace for pints and 1½ inches for quarts.
Large beans: Leave 1 inch of headspace for pints and 1¼ inches for quarts.
Final steps: Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to each jar if desired. Add boiling water; leave the same headspace listed above. Remove air bubbles. Adjust lids and process as directed in Table 1.

Beans, snap and Italian—pieces (green and wax)
Quantity: For each 7-quart canner load, you need an average of 14 pounds of fresh beans. For each 9-pint canner load, you need an average of 9 pounds of fresh beans.
A bushel weighs 30 pounds and yields 15 to 20 quarts (an average of 1½ to 2 pounds per quart).
Quality: Select filled but tender, crisp pods. Remove and discard diseased and rusty pods.
Procedure: Wash beans and trim ends. Leave whole, cut or snap into 1-inch pieces.
Hot pack: Place beans in a large saucepan, and cover with boiling water; boil 5 minutes. Fill jars; leave 1 inch of headspace.
Raw pack: Fill jars with raw beans, pack tightly, and leave 1 inch of headspace.
Final steps: Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to the jar, if desired. Add boiling water; leave 1 inch of headspace. Remove air bubbles. Adjust lids, and process as directed in Table 1.

Beets—whole, cubed or sliced
Quantity: For each 7-quart canner load, you will need an average of 21 pounds of fresh beets (without tops). For each 9-pint canner load, you will need an average of 13½ pounds of fresh beets.
A bushel of beets (without tops) weighs 52 pounds and yields 17 to 20 quarts (an average of 1½ to 2 pounds per quart).
Quality: Beets with a diameter of 1 to 2 inches are preferred for whole packs. Beets larger than 3 inches in diameter are often fibrous and tough.
Procedure: Trim off beet tops; leave 1 inch of stem and root to reduce bleeding of color. Scrub well. Cover with boiling water. Boil until skins slip off easily, about 15 to 25 minutes depending on size. Cool just enough to remove skins. Trim off stems and roots. Leave baby beets whole. Cut medium or large beets into ½-inch cubes or slices. Halve or quarter very large slices.
Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to each jar, if desired. Fill jars with hot beets and fresh hot water; leave 1 inch of headspace. Remove air bubbles. Adjust lids, and process as directed in Table 1.

Carrots—sliced or diced
Quantity: For each 7-quart canner load, you will need an average of 17½ pounds of fresh carrots (without tops). For each 9-pint canner load, you will need an average of 11 pounds of fresh carrots. A bushel of carrots (without tops) weighs 50 pounds and yields 16 to 20 quarts (an average of 2½ to 3 pounds per quart).
Quality: Select small carrots, preferably 1 to 1¼ inches in diameter. Larger carrots are often too fibrous and tough.
Procedure: Wash, peel and rewash carrots. Slice or dice.
Hot pack: Cover with boiling water, bring to boil again and simmer for 5 minutes. Fill jars; leave 1 inch of headspace.
Raw pack: Fill jars with raw carrots, packing tightly.
Final steps: Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to each jar, if desired. Add boiling cooking liquid or water; leave 1 inch of headspace. Remove air bubbles. Adjust lids, and process as directed in Table 1.

Corn—cream style
Quantity: For each 9-pint canner load, you will need an average of 20 pounds of sweet corn (in husks). A bushel weighs 35 pounds and yields 12 to 20 pints (an average of 2¼ pounds per pint).
Quality: Select ears containing slightly immature kernels or corn that is at the ideal stage or maturity for eating fresh.
Procedure: Husk corn, remove silk and wash ears. Blanch ears 4 minutes in boiling water. Cut corn from cob at about the center of the kernel. Scrape remaining corn from cobs with a table knife.
Caution: Quart jars are not recommended due to the denseness of the canned product.
Hot pack: Add 1 cup of boiling water for each 2 cups of corn. Heat to boiling.
Add ½ teaspoon canning salt to each pint jar, if desired. Fill pint jars with hot corn mixture; leave 1 inch of headspace. Remove air bubbles. Adjust lids, and process as directed in Table 1.

Corn—whole kernel
Quantity: For each 7-quart canner load, you will need an average of 31½ pounds of sweet corn (with husks). For each 9-pint canner load, you need an average of 20 pounds of sweet corn.
A bushel weighs 35 pounds and yields 8 to 9 quarts (an average of 4½ pounds per quart).
Quality: Select ears containing slightly immature kernels at the ideal stage of maturity for eating fresh. Some of the sweeter varieties may turn brown during the canning process. Kernels that are too immature may also turn
Peppers—hot or sweet

Types: Chili, jalapeño and pimento peppers.

Caution: If you choose hot peppers, wear plastic gloves while handling them, or wash hands thoroughly with soap and water before touching your face.

Quantity: For each 9-pint canner load, you need an average of 9 pounds of fresh peppers.

A bushel weighs 25 pounds and yields 20 to 30 pints (an average of 1 pound per pint).

Quality: Select firm yellow, green or red peppers. Do not use soft or diseased peppers.

Procedure: Select your favorite pepper(s). Leave small peppers whole. Cut large peppers into quarters. Remove cores and seeds. Slash 2 or 4 slits in each pepper, and either blanch in boiling water or blister in an oven or broiler.

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

Allow peppers to cool. Place in a pan, and cover with a damp cloth to make peeling the peppers easier. After several minutes, peel each pepper. Flatten whole peppers. Fill jars loosely with peppers, and add fresh boiling water; leave 1 inch of headspace. Add ½ teaspoon canning salt to each pint jar, if desired. Adjust lids, and process as directed in Table 1.

Caution: It is unsafe to dry-pack or can mashed or pureed sweet potatoes.

Quantity: For each 7-quart canner load, you need an average of 17½ pounds of potatoes. For each 9-pint canner load, you need an average of 11 pounds of fresh potatoes.

A bushel weighs 50 pounds and yields 17 to 25 quarts (an average of 2½ pounds per quart).

Quality: Choose small to medium potatoes. They should be mature and not too fibrous. Can within 1 to 2 months after harvest.

Procedure: Wash potatoes, and boil or steam just until tender, about 15 to 20 minutes. Remove skins. Cut potatoes into uniform pieces. Fill jars; leave 1 inch of headspace. Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to each jar, if desired. Cover with fresh boiling water or syrup. (See MU Extension publication GH1455, How to Can Fresh Fruit, for syrup directions.) Remove air bubbles. Adjust lids, and process as directed in Table 1.

Potatoes, sweet—pieces or whole

Quantity: For each 7-quart canner load, you need an average of 3½ pounds of fresh potatoes. For each 9-pint canner load, you need an average of 7 pounds of fresh potatoes.

A bushel weighs 30 pounds and yields 19 to 21 quarts (an average of 1½ pounds per quart).

Quality: Select filled pods containing young, tender, about 15 to 20 minutes. Remove skins. Cut potatoes into uniform pieces. Fill jars; leave 1 inch of headspace. Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to each jar, if desired. Cover with fresh boiling water or syrup. (See MU Extension publication GH1455, How to Can Fresh Fruit, for syrup directions.) Remove air bubbles. Adjust lids, and process as directed in Table 1.
**Procedure:** Wash and peel potatoes. Place in ascorbic acid solution to prevent darkening. (See MU Extension publication GH1455, How to Can Fresh Fruit.) If desired, cut into ½-inch cubes. Drain. Cook cubed potatoes 2 minutes in boiling water, and drain again. For whole potatoes, boil 10 minutes and drain. Add 1 teaspoon canning salt per quart, or ½ teaspoon per pint, to each jar, if desired. Fill jars with hot potatoes and fresh hot water; leave 1 inch of headspace. Remove air bubbles. Adjust lids, and process as directed in Table 1.

**Pumpkins and winter squash**

**Caution:** It is unsafe to can mashed or pureed pumpkins or squash. Instead, cut pumpkins or squash into cubes.

**Quantity:** For each 7-quart canner load, you need an average of 16 pounds of pumpkins or squash. For each 9-pint canner load, you need an average of 18 pounds of fresh pumpkins or squash (an average of 2¼ pounds per quart).

**Quality:** Pumpkins and squash should have a hard rind and stringless, mature pulp of ideal quality for cooking fresh. Small pumpkins (sugar or pie varieties) make better canned products.

**Procedure:** Wash, remove seeds, cut into 1-inch-wide slices and peel. Cut flesh into 1-inch cubes. Boil 2 minutes in water. Fill jars with cubes and cooking liquid; leave 1 inch of headspace. Remove air bubbles. Adjust lids, and process as directed in Table 1.

**Spinach and other greens**

**Note:** Greens can be canned, but freezing results in a better product.

**Quantity:** For each 7-quart canner load, you need an average of 28 pounds of fresh spinach or other greens. For each 9-pint canner load, you need an average of 18 pounds of fresh spinach or other greens. A bushel weighs 20 pounds and yields 3 to 9 quarts (an average of 4 pounds per quart).

**Quality:** Can only freshly harvested greens. Discard any wilted, discolored, diseased or insect-damaged leaves. Leaves should be tender and attractive in color.

**Procedure:** Wash only small amounts of greens at a time. Drain water and continue rinsing until water is clear and free of grit. Cut out tough stems and midribs. Place 1 pound of greens at a time in cheesecloth bag or blancher basket and steam 3 to 5 minutes, or until wilted thoroughly.

Fill jars loosely with greens, add fresh boiling water and leave 1 inch of headspace. Add ½ teaspoon canning salt to each quart jar, or ¼ teaspoon per pint, if desired. Remove air bubbles. Adjust lids, and process as directed in Table 1.
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