Recommended Varieties
Resistant Golden Acre, Danish Ballhead, and Late Flat Head are good varieties for sauerkraut. Early varieties are lower in sugar and less desirable for making kraut.

Quantity
A 50-pound bag of fresh cabbage makes 16 to 20 quarts of kraut.

Quality
To make good kraut, use disease-free, firm, sweet, mature heads of cabbage from mid- and late season crops. Prepare and start the fermentation 1 to 2 days after harvesting the cabbage.

Containers for Fermenting Cabbage
A 1-gallon stone crock holds 5 pounds of shredded cabbage, and a 5-gallon crock holds 25 pounds. Do not use copper, iron, or galvanized metal containers or lead-glazed crocks. If you are unsure about the safety of a container, use an alternative such as glass or food-grade plastic containers. Many restaurants receive foods and ingredients in 5-gallon plastic pails, which make ideal fermentation containers. Do not use garbage bags or trash liners.

Preparation
Work with about 5 pounds of fresh cabbage at a time. Discard outer leaves. Rinse heads with cold water and drain. Cut heads in quarters, remove cores, and trim and discard worm- and disease-damaged tissue. Shred or slice cabbage to a thickness of one to two quarters, or ⅛ to ⅛ inch.

Filling and Packing the Container
Place 5 pounds of shredded cabbage in the fermentation container and thoroughly mix in 3 tablespoons of canning or pickling salt. Pack it with clean hands until the level of natural juices drawn from the cabbage covers its surface. Continue preparing and packing 5-pound quantities of shredded cabbage and 3 tablespoons of salt at a time until finished, or until the fermentation container is filled within 3 to 4 inches from its top. To avoid surface mold growth, keep the cabbage submerged at all times. If the juice does not cover the cabbage, add boiled and cooled brine prepared with 1½ tablespoons of salt in a quart of water. An acceptable alternative is to fill a large, sealed, food-grade plastic bag containing 4½ tablespoons of salt and 3 quarts of water. The filled bag may be inserted into another bag and sealed for added strength. Plastic bags sold specifically for cooking turkeys are the right size for 5-gallon containers. Cover the top of the container with several layers of clean cheesecloth or a clean kitchen towel to reduce exposure to airborne mold spores.

CAUTION: Do not use copper, iron, or galvanized metal containers, lead-glazed crocks, garbage bags, or trash liners for fermenting cabbage.
Canning Procedure

Wash jars. Prepare lids according to manufacturer’s instructions. If there is not enough juice to cover the cabbage in each jar, add boiled and cooled brine prepared with 1½ tablespoons of salt in a quart of water. Preheat canner filled halfway with water to 180°F for hot packs and 140°F for raw packs.

To Make a Hot Pack

Bring kraut and liquid slowly to a boil in a large kettle, stirring frequently. Remove from heat and fill jars rather firmly with kraut and juices, leaving ½ inch of headspace. Wipe sealing edge of jars with a clean, damp paper towel. Add lids, tighten screw bands, and load sealed jars onto the canner rack. Lower with handles in the preheated boiling water canner, or load one jar at a time with a jar lifter. Add water, if needed, to 1 inch above jars and cover. When water boils vigorously, lower heat to maintain a gentle boil and process for recommended time (Table 1). After processing is complete, remove the canner from the heat, remove the canner lid, and place them on a towel or rack to air-cool for 12 to 24 hours. Remove screw bands and check lid seals. If the center of the lid is indented, wash, dry, label, and store jar in a clean, cool, dark place. If lid is unsealed, examine and replace jar if defective, use new lid, and reprocess as before. Wash screw bands and store separately. Kraut is best if consumed within a year and is safe as long as lids remain vacuum sealed.

To Make a Raw Pack

Fill jars firmly with unheated kraut and cover with juices, leaving ½ inch of headspace. Fill and seal as previously described for a hot pack and process for recommended time (Table 1).

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**Table 1. Recommended process times in a boiling water canner at designated altitudes.**

<table>
<thead>
<tr>
<th>Style of pack</th>
<th>Jar size</th>
<th>Process time (in minutes) at altitudes of</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0–1,000 ft</td>
</tr>
<tr>
<td>Hot</td>
<td>Pints</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Quarts</td>
<td>15</td>
</tr>
<tr>
<td>Raw</td>
<td>Pints</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Quarts</td>
<td>25</td>
</tr>
</tbody>
</table>

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For additional information about food preservation, visit the Penn State Food Safety website at [extension.psu.edu/food-safety](http://extension.psu.edu/food-safety) and select the Home Food Preservation website, or contact Penn State Extension in your county.

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