When preserving fresh foods at home, follow proper procedures to prevent foodborne illness. These safety-tested methods can be used to freeze and can apples.

**Freezing**

Freezer manuals offer guidelines for the maximum amount that can be frozen at one time to maintain quality — usually 2 to 3 pounds of food for each cubic foot of freezer space.

Syrup pack is preferred for apples to be used for uncooked desserts or fruit cocktail. A sugar or dry pack is good for pie making. Select full-flavored apples that are crisp and firm, not mealy in texture. Wash, peel, and core. Slice the medium apples into twelfths, the large ones into sixteenths.

For a syrup pack: Use a chilled 40 percent syrup. Dissolve 2¾ cups of sugar in 4 cups of lukewarm water, mixing until the solution is clear. Chill. To prevent browning, add ½ teaspoon (1500 mg) of ascorbic acid to each quart of syrup. Slice the apples into the syrup in a container starting with a ½ cup of syrup for each pint of apples. Fill pint- or quart-size freezer bags to a level of 3 to 4 inches from the tops, add the syrup if needed to cover the apples, squeeze out the air, seal, and label.

For a sugar pack: To prevent darkening, dissolve ½ teaspoon (1500 mg) of ascorbic acid in 3 tablespoons of water. Sprinkle over the fruit. Mix ½ cup of sugar with 1 quart (1¼ lbs.) of fruit. Fill freezer bags to a level of 3 to 4 inches from the tops, squeeze out the air, seal, and label.

For a dry/tray pack: Follow the directions for a sugar pack, omitting the sugar. Treated apple slices can also be frozen first on a tray and then packed into containers as soon as they are frozen.

**Canning**

Wash, sterilize, and keep jars hot. For standard metal lids, preheating is optional. If desired, heat in simmering but not boiling, water. If using reusable plastic lids with rubber rings, follow the manufacturer’s instructions.

To learn more about canning, see *How-to Guide to Water Bath Canning and Steam Canning* (MF3241) and *How-to Guide to Pressure Canning* (MF3242).

**Apple Butter**

Use Jonathan, Winesap, Stayman, Golden Delicious, MacIntosh, or other cooking varieties. This recipe may be canned in half-pint, pint or quart jars.

*Yield:* About 8 to 9 pints
- 8 pounds apples
- 2 cups apple cider
- 2 cups cider vinegar (5%)
- 2¼ cups white sugar
- 2¼ cups packed brown sugar
- 2 tablespoons ground cinnamon
- 1 tablespoon ground cloves

Wash, remove stems, quarter, and core fruit. Cook slowly in cider and vinegar until soft. Press the fruit through a colander, food mill, or strainer. Cook fruit pulp with sugar and spices, stirring frequently. To test for doneness, remove a spoonful and hold it away from the steam for 2 minutes. It is done if the butter remains mounded on the spoon. Another way to determine when the butter is cooked adequately is to spoon a small quantity onto a plate. When a rim of liquid does not separate around the edge of the butter, it is ready for canning.

Fill hot half-pint, pint, or quart jars with hot product, leaving ¼-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label, and store.
Apple Jelly

Yield: 4 half-pints

- 4 cups apple juice (about 3 pounds of apples and 3 cups of water)
- 2 tablespoons lemon juice, optional
- 3 cups sugar

To prepare juice: Select about one-fourth slightly under ripe apples and three-fourths fully ripe apples. Sort, wash, and remove stems and blossom ends; do not peel or core. Cut the apples into small pieces. Add water, cover, and bring to a boil on high heat. Reduce heat and simmer for 20 to 25 minutes or until apples are soft. Extract juice through a damp jelly bag or four thicknesses of cheesecloth. Avoid squeezing pulp to obtain clear juice.

To make jelly: Measure apple juice into a saucepan. Add lemon juice and sugar, and stir to dissolve sugar. Boil over high heat, stirring constantly, to 8°F above the boiling point of water or until the jelly mixture sheets from a spoon. Remove from heat; skim off foam quickly. Pour jelly immediately into hot, sterilized jars, leaving ¼-inch headspace. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label and store.

Apple Juice

Good quality apple juice is made from a blend of varieties. For best results, buy fresh juice from a local cider maker within 24 hours after it has been pressed. Refrigerate juice for 24 to 48 hours. Without mixing, carefully pour off the clear liquid and discard sediment. Strain clear liquid through a paper coffee filter or double layers of damp cheesecloth. Heat quickly, stirring occasionally, until juice begins to boil. Fill immediately into hot, sterilized jars, leaving ¼-inch headspace. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label and store.

Apple Pie Filling

This fruit filling is an excellent and safe product. Each canned quart makes one 8- to 9-inch pie. Fillings may be used as toppings on desserts or pastries. Clear Jel® is a starch modified to produce excellent sauce consistency even after fillings are canned and baked. Other cooking starches are not recommended as they break down, causing a runny sauce consistency. (Clear Jel® is available from bulk food stores or on the Internet.)

Because the variety of fruit may alter the flavor of the fruit pie, you should first make a single quart, make a pie, and serve it. Then adjust sugar and spices to suit your personal preference. The amount of lemon juice should not be altered, because it aids in ensuring the safety and storage stability of the fillings. If the filling is too tart, add more sugar to taste.

### Apple Pie Filling

Use firm, crisp apples; Stayman, Golden Delicious, Rome, and other cooking varieties are suitable. If apples lack tartness, use an additional ¼ cup of lemon juice for each 6 quarts of slices.

Wash, peel, and core apples. Cut apples into slices, ½-inch wide, and place them in water containing ascorbic acid to prevent browning. Use 1 teaspoon of ascorbic acid crystals or six 500 mg. vitamin C tablets (crushed) in 1 gallon of water. Blanch apples by placing 6 cups at a time in 1 gallon of boiling water. Boil each batch 1 minute after the water returns to a boil. Drain fruit and keep hot in a covered bowl or pot. Combine sugar, Clear Jel®, and cinnamon in a large kettle with water and apple juice. If desired, food coloring and nutmeg may be added. Stir and cook on a medium high heat until mixture thickens and begins to boil. Skim off foam quickly. Pour into hot, sterilized jars, leaving ¼-inch headspace. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label, and store.
to bubble. Add lemon juice and boil 1 minute, stirring constantly. Fold in drained apple slices immediately and fill hot pint or quart jars with the mixture without delay, leaving 1-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe jar rims. Apply lids and rings fingertip-tight. Process immediately according to directions in Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label, and store.

**Applesauce**

An average of 21 pounds is needed per canner load of 7 quarts; an average of 13¼ pounds is needed per canner load of 9 pints. A bushel weighs 48 pounds and yields 14 to 19 quarts of sauce — an average of 3 pounds per quart. Select apples that are sweet, juicy, and crisp. For a tart flavor, add 1 to 2 pounds of tart apples to each 3 pounds of sweeter fruit.

Wash, peel, and core apples. Slice apples into water containing ascorbic acid to prevent browning. Use 1 teaspoon of ascorbic acid crystals or six 500 mg. vitamin C tablets (crushed) in 1 gallon of water. Place drained slices in an 8- to 10-quart pot. Add ½ cup of water. Stirring occasionally to prevent burning, heat quickly until tender (5 to 20 minutes, depending on the maturity and variety).

Press through a sieve or food mill, or skip the pressing step if you prefer chunk-style sauce. Sauce may be packed without sugar. If desired, add ½ cup of sugar per quart of sauce. Taste and add more, if preferred. Reheat sauce to boiling.

Fill hot jars with hot sauce, leaving ½-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to directions in Table 2 or in a pressure canner following guidelines in Table 3. Turn off heat and remove canner lid. If pressure canning, let the canner depressurize naturally, then remove lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label, and store.

**Apples – Sliced Rings**

An average of 19 pounds is needed per canner load of 7 quarts; an average of 12¼ pounds is needed per canner load of 9 pints. A bushel weighs 48 pounds and yields 16 to 19 quarts — an average of 2¾ pounds per quart. Select apples that are juicy, crispy, and preferably both sweet and tart.

Wash, peel, and core apples. To prevent discoloration, slice apples into water containing ascorbic acid. Use 1 teaspoon of ascorbic acid crystals or six 500 mg. vitamin C tablets (crushed) in 1 gallon of water.

Raw packs make poor quality products. Place drained slices in a large saucepan and add 1 pint of water or very light, light, or medium syrup per 5 pounds of sliced apples. Use Table 1 to make the syrup. Boil for 5 minutes, stirring occasionally to prevent burning.

Fill hot jars with hot slices and hot syrup or water, leaving ½-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to Table 2 or pressure canner according to Table 3. Turn off heat and remove canner lid. If pressure canning, let the canner depressurize naturally, then remove lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label, and store.

| Table 1. Measures of water and sugar in preparing and using syrups |
| --- | --- | --- | --- |
| Syrup type | Approximate percent of sugar | For 9-pint load* | For 7-quart load |
| | | Cups of water | Cups of sugar | Cups of water | Cups of sugar |
| Very light | 10 | 6½ | ¾ | 10½ | 1¾ |
| Light | 20 | 5¼ | 1½ | 9 | 2¼ |
| Medium | 30 | 5¼ | 2¼ | 8¼ | 3¼ |

*This amount is also adequate for a 4-quart load.
Spiced Apple Rings

Yield: About 8 to 9 pints

12 pounds firm tart apples (maximum diameter is 2½ inches)
12 cups sugar
6 cups water
1¼ cups white vinegar (5%)
3 tablespoons whole cloves
¾ cup red hot cinnamon candies or
8 cinnamon sticks and
1 teaspoon red food coloring (optional)

Wash, peel and slice apples. Immediately cut crosswise into ½-inch slices, remove core area with a melon baller. Immerse in an ascorbic acid solution. Use 1 teaspoon of ascorbic acid crystals or six 500 mg vitamin C tablets (crushed) in 1 gallon of water.

To make a flavored syrup, combine sugar, water, vinegar, cloves, cinnamon candies or cinnamon sticks, and food coloring in a 6-quart saucepan. Stir, heat to boil, and simmer for 3 minutes. Drain apples, add to the hot syrup, and cook for 5 minutes.

Fill hot jars (preferably wide-mouth) with apple rings and hot flavored syrup, leaving ½-inch headspace. Remove air bubbles and adjust headspace if needed. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label and store.

Crabapple Jelly Without Added Pectin

Yield: About 5 or 6 half-pint jars

4 cups crabapple juice (about 3 pounds of crabapples and 3 cups water)
4 cups sugar

To prepare juice: Select firm, crisp crabapples, about ¼ firm ripe and ¾ fully ripe. Sort, wash and remove stem and blossom ends; do not pare or core. Cut crabapples into small pieces. Add water, cover and bring to boil on high heat. Stir to prevent scorching. Reduce heat and simmer for 20 to 25 minutes, or until crabapples are soft. Do not overcook; excess boiling will destroy the pectin, flavor and color. When fruit is tender, pour everything through a double layer of dampened cheesecloth or a damp jelly bag. Suspend the bag over a bowl or pan, using a stand or colander to hold the bag. Drain the juice without pressing or squeezing, which will cause cloudy jelly. If a fruit press is used, the juice should be restrained through a jelly bag.

To prepare jelly: Measure juice into saucepot. Add sugar and stir well. Boil over high heat until temperature measures 8°F above the boiling point of water (220°F at sea level), or the jelly mixture sheets from a metal spoon. Remove from heat; skim foam quickly. Pour hot jelly immediately into hot, sterile jars, leaving ¼-inch headspace. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to directions in Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label, and store.
Reduced Sugar Apple Butter

Yield: About 4 to 5 half-pint jars.

- 4 pounds apples
- 1 cup apple cider
- ½ cup Splenda®
- 1 tablespoon ground cinnamon
- ¼ teaspoon ground cloves
- ½ teaspoon ground allspice

Wash apples well and remove stems. Cut apples into quarters or eighths and remove cores.

Combine unpeeled apples and cider in 8-quart saucepan. Cook slowly and stir occasionally to prevent sticking. Cook until apples are very soft (falling apart).

Position a food mill or strainer securely over a large bowl. Press cooked apples with cider through the food mill or strainer to make a pulp. Be sure to collect all the pulp that comes through the food mill or strainer; for example, scrape any pulp clinging under the food mill into the bowl.

Combine pulp with Splenda® and spices in an 8-quart saucepan. Simmer over low heat, stirring frequently. To test for doneness, spoon a small quantity onto a clean plate; when the butter mounds on the plate without liquid separating around the edge of the butter, it is ready for processing. Another test for doneness is to remove a spoonful of cooked butter away from steam for 2 minutes. It is done if the butter remains mounded on the spoon.

Fill hot apple butter into clean hot jars, leaving ¼-inch headspace. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to directions in Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label and store.

Harvest Time Apple Relish

Yield: About 7 to 8 pint jars

- 8 pounds apples (crisp cooking variety such as Honey Crisp, Cameo, or Pink Lady)
- 3 cups distilled white vinegar (5%)
- 2½ cups sugar
- 2 cups water
- 2 teaspoons ground cloves
- 8 pieces stick cinnamon (3 inches each)
- 1 tablespoon ground allspice
- 4 teaspoons ground ginger
- 4 tablespoons (¼ cup) finely chopped red Serrano pepper (about 4-6 peppers as purchased)

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.

Rinse apples well, peel if desired for best quality, and core. Immerse prepared apples in a solution of 1 teaspoon ascorbic acid and 4 quarts of water to prevent browning. Coarsely shred with food processor or dice by hand and return to ascorbic acid bath as you work.

Rinse peppers and remove stem ends; trim to remove seeds then finely chop.

Combine vinegar, sugar, water, cloves, cinnamon sticks, allspice, ginger and red pepper. Heat while stirring to dissolve sugar; bring to a boil.
Drain apples and add to hot syrup. Bring back to a boil. Boil gently 5 minutes, stirring occasionally, until apples are mostly translucent. Turn off heat. Remove cinnamon sticks from relish mixture and place one piece in each jar.

Fill hot fruit with syrup into hot jars, leaving ½-inch headspace, making sure fruit is completely covered with syrup. Remove air bubbles and adjust headspace if needed. Wipe jar rims. Apply lids and rings fingertip-tight. Process in a boiling water canner or steam canner according to the guidelines in Table 2. Turn off heat and remove canner lid. Let jars cool 5 minutes. Remove jars from canner; do not retighten bands. Cool completely, check seals, label, and store.

Table 2. Recommended processing times in a water bath canner or steam canner

<table>
<thead>
<tr>
<th>Product</th>
<th>Jar size</th>
<th>Hot-pack processing times in minutes at different altitudes (in feet)</th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0-1,000</td>
<td>1,001-3000</td>
<td>3,001-6,000</td>
<td></td>
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<tr>
<td>Apple butter</td>
<td>Half-pints or pints</td>
<td>5</td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quarts</td>
<td>10</td>
<td>15</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Apple jelly</td>
<td>Half-pints or pints</td>
<td>5</td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Apple juice</td>
<td>Pints or quarts</td>
<td>5</td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Half-gallons</td>
<td>10</td>
<td>15</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Apple pie filling</td>
<td>Pints or quarts</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td></td>
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<tr>
<td>Applesauce</td>
<td>Pints</td>
<td>15</td>
<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quarts</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Sliced apples</td>
<td>Pints or quarts</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td></td>
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<tr>
<td>Spiced apple rings</td>
<td>Half-pints or pints</td>
<td>10</td>
<td>15</td>
<td>15</td>
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<tr>
<td>Spiced crab apples</td>
<td>Pints</td>
<td>20</td>
<td>25</td>
<td>30</td>
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<tr>
<td>Crabapple jelly</td>
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<td>10</td>
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<td>Reduced-sugar apple butter</td>
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<td>Apple chutney</td>
<td>Pints</td>
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<td>15</td>
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<tr>
<td>Harvest Time Apple Relish</td>
<td>Half-pints or pints</td>
<td>10</td>
<td>15</td>
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Table 3. Recommended hot-pack processing times in a pressure canner

<table>
<thead>
<tr>
<th>Product</th>
<th>Jar Size</th>
<th>Process Time (min.)</th>
<th>Canner gauge pressure at different altitudes (in feet)</th>
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<td></td>
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<td></td>
<td>Dial gauge 0-2,000</td>
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<tr>
<td>Sliced Apples</td>
<td>Pints or Quarts</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>Applesauce</td>
<td>Pints</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Quarts</td>
<td>10</td>
<td>6</td>
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## Nutrition Information

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<thead>
<tr>
<th>Apples</th>
<th>Serving size</th>
<th>Calories</th>
<th>Fat (g)</th>
<th>Carbohydrates (g)</th>
<th>Fiber (g)</th>
<th>Vit. C (mg)</th>
<th>Sodium (mg)</th>
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<tr>
<td>Apple butter</td>
<td>1 tablespoon</td>
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<td>Apple jelly</td>
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<td>Apple juice</td>
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<td>1.3</td>
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<td>Apples – sliced rings</td>
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<td>Spiced apple rings</td>
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<td>Spiced crab apples</td>
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<td>Crabapple jelly</td>
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<td>11.0</td>
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<tr>
<td>Reduced sugar apple butter</td>
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<td>0.0</td>
<td>3.0</td>
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<tr>
<td>Apple chutney</td>
<td>1 tablespoon</td>
<td>30</td>
<td>0.0</td>
<td>8.0</td>
<td>0.0</td>
<td>2.4</td>
<td>25.0</td>
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<tr>
<td>Harvest Time Apple Relish</td>
<td>1 tablespoon</td>
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<td>0.0</td>
<td>4.0</td>
<td>0.0</td>
<td>0.8</td>
<td>0.0</td>
</tr>
</tbody>
</table>

## Problems and Solutions

1. **After canning apples, why do they float?**
   The fruit is lighter than the sugar syrup. Use firm, ripe fruit. Use the hot pack method to remove air from the fruit. Use a light or medium syrup instead of a heavy syrup. Pack fruit as close as possible and release trapped air before applying the lid.

2. **Can apples be canned without sugar?**
   Yes. Sugar is added to improve flavor, help stabilize color, and retain the shape of the fruit. It is not added as a preservative.

3. **How do you make homemade pectin?**
   Homemade liquid pectin is made from tart cooking apples that are slightly underripe or from crab apples. Directions can be found at [http://extension.oregonstate.edu/lane/sites/default/files/images/sp50778.pdf](http://extension.oregonstate.edu/lane/sites/default/files/images/sp50778.pdf).

4. **How are apples dried?**
   Directions for drying apples and many other fruits can be found at [www.rrc.ksu.edu](http://www.rrc.ksu.edu).

5. **How can I reduce the amount of foaming in jelly?**
   Add ½ teaspoon butter or margarine to the fruit mixture before boiling.