Canning the Catch

HANDLING THE CATCH

In the field
When you catch fish, handle the fish with care to avoid bruising and exposure to sun or heat. Bleed the fish immediately after catching to help increase storage life. Remove viscera (internal organs). Rinse fish and keep iced, refrigerated or frozen.

GETTING STARTED

Contact your local Cooperative Extension Service office for current canning information.

Two canning DVDs, Canning Basics (Extension publication FNH-01280, $5) and Canning Meat and Fish (Extension publication FNH-01281, $5), are available from district Extension offices or by dialing toll free 1-877-520-5211.

Preparing the fish
If the fish is frozen, thaw it in the refrigerator before canning. Rinse the fish in cold water. You can add vinegar to the water (2 tablespoons per quart) to help remove slime.

For most fish, remove the head, tail, fins and scales. It is not necessary to remove the skin. You can leave bones in most fish because the bones become very soft and are a good source of calcium. For halibut, remove the head, tail, fins, skin and the bones. Refrigerate all fish until you are ready to pack in jars.

Equipment
Be certain that you have all the equipment needed to produce a safe, good-tasting canned product.

A pressure canner is required for processing fish. The high temperatures reached under pressure are necessary to ensure a safe product.

Re-read and follow directions for your canner. If you no longer have an instruction manual, look online or write the manufacturer for a new copy.

Your pressure canner must be in good condition. Replace the gasket and safety plug if necessary. Be certain the vent or petcock is clear.

If you have a dial pressure gauge, have it checked for accuracy before the canning season begins. Dial pressure gauges may be checked at your local Cooperative Extension Service office.

For pressure processing fish, the 1-pint, straight-sided mason-type jar is recommended. Researched times and pounds of pressure for processing fish in quart jars are available in Extension publication FNH-00126, Canning Fish in Quart Jars.

It is a good idea to complete a trial run with your canner. Use 2-3 inches (about 3 quarts) of water in the canner. Put the canner through a short canning cycle to be certain you are familiar with the sound of the weighted gauge or with reading the dial gauge.
Jars should be washed in hot, soapy water and rinsed before you use them. Check the rims of jars and discard any that have nicks.

Use two-piece, self-sealing lids.

Prepare the jar lids and rings according to the lid manufacturer’s directions. Lids should be purchased new each year. Rings are reusable if they are not bent or rusty.

An acrylic or hardwood cutting board is recommended to cut down on bacterial contamination. Knives should be sharp.

**PACKING THE JARS**

Cut the fish into jar-length filets or chunks of any size.

If the skin has been left on the fish, pack the fish with the skin side out.

Pack solidly into clean 1-pint jars, leaving 1 inch headspace (the unfilled space between the jar sealing edge and the top of the food or its liquid).

Run a plastic knife around the inside of the jar to align the product; this allows firm packing of fish and helps in even heat distribution during processing.

For most fish, no liquid, salt or spices need to be added, although seasonings or salt may be added for flavor (½ teaspoon salt per pint, or amount desired).

For halibut, add up to 4 tablespoons of vegetable or olive oil per pint jar if you wish. The canned product will seem more moist. However, the oil will increase the caloric value of the fish.

Carefully clean the jar sealing edge with a damp paper towel; wipe with a dry paper towel to remove any fish oil.

Attach jar lids and rings.

Follow the manufacturer’s guidelines for tightening the jar lids properly.

If the rings are too loose, liquid may escape from the jars during processing, and seals may fail.

If the rings are too tight, air cannot vent during processing, and food will discolor during storage. Over-tightening may also cause lids to buckle and jars to break.

**PROCESSING**

Add 2–3 inches (about 3 quarts) of cool water to the pressure canner. Put the rack in the bottom of canner. Place closed jars on the rack according to the instructions provided with your pressure canner. Fasten the canner cover securely, but do not close the lid vent.

Heat the canner until steam comes through the open vent in a steady stream. Allow the steam to escape for 10 minutes. This step removes air from inside the canner so the temperature is the same throughout the canner.

Close the vent (use a hot pad or mitt) by shutting the petcock or by placing the weighted gauge on the vent. There are three positions on the weighted gauge; for most pressure canning the weighted gauge will be positioned on 10 pounds of pressure.

Turn the heat on high and when the pressure reads 11 pounds per square inch (psi) on the dial gauge or the 10-pound weighted gauge begins to jiggle, adjust the heat to maintain a steady pressure and begin timing the process.
For safety’s sake, you must have a complete, uninterrupted 100 minutes at a minimum pressure of 11 pounds for a dial gauge or 10 pounds for a weighted gauge.

If the pressure drops below 10 or 11 psi, the timing must begin again from zero minutes. If the pressure rises above 10 or 11 psi, lower the heat on the stove but do not begin timing again.

*Note: If you live at, or should move to, an altitude greater than 1,000 feet (305 meters) above sea level, these times/pressures may be insufficient. Consult your local Extension agent for recommended times/pressures.

**RECOMMENDED FOR JARS OF FISH**
- Process 1-pint jars for 100 minutes*.
- Use 10 pounds pressure for a weighted pressure gauge.
- Use 11 pounds pressure for a dial pressure gauge.

* If you use ½-pint jars, process for 100 minutes also, using the same pressures recommended for 1-pint jars.

Open the canner and tilt the lid far side up so the steam escapes away from you.

Carefully remove jars with a jar lifter or tongs and place on a cloth or newspaper covered table away from drafts. **DO NOT TIGHTEN LID RINGS.** The sealing compound is hot and soft and the jar lids are still sealing. Most two-piece lids will seal with a “pop” sound while cooling.

**CHECKING THE SEAL**

After 12 hours, the jar lids should be sealed (lids curve downward in the middle and do not move when pressed with a finger). Rings are not needed on stored jars; you may remove them. Wash and store for later use.

If a jar did not seal (lid bulges or does not curve downward in the center and moves when pressed with a finger), remove the lid and check the jar sealing edge for tiny nicks. If needed, change the jar, add a new, properly prepared lid, and reprocess within 24 hours using the same processing time. Food in unsealed jars may also be stored in the freezer. Adjust headspace to allow for expansion of frozen food.

**STORING THE JARS**

Wash the jars, label with contents and processing date. Store jars in a cool, dry, storage area.

For best quality, home-canned food should be used within one year.

**Note:** Glass-like crystals of magnesium ammonium phosphate (common name struvite) sometimes form in canned salmon. There is no way for the home canner to prevent these crystals from forming, but they usually dissolve when heated and are safe to eat.

Write down the time at the beginning of the process and the time when the process will be finished.

**COOLING DOWN**

At the end of the processing time, slide the canner away from the heat so it can cool.

Let the pressure drop to zero psi naturally; weighted gauge canners usually have a lid lock that drops when zero psi is reached.

Wait one more minute; then, using a hot pad or mitt, slowly open the vent on dial gauge canners, or remove the weighted gauge.
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<td>HEAT HOME CANNED FISH BEFORE EATING!</td>
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- Do you know if the dial gauge on your canner is reading accurately?
- Do you know when the rocking or jiggling weight is signaling properly?
- Did you follow the USDA Cooperative Extension recommendations for pressure processing this food?
- Was this preserved food a gift? If it was, do you know if the USDA Cooperative Extension Service recommendations for pressure processing this food were followed?

If you answered no to any of these questions, you should heat this home canned food before you eat it. Here’s how:

1. Open the jar of fish. Check the contents. **If fish smells bad or if you see gas bubbles, THROW CONTENTS AWAY! Do not taste!**
2. If fish smells and looks good, insert a meat thermometer into the center of the fish. Cover the jar loosely with foil.
3. Place the opened jar in an oven that has been preheated to 350°F.
4. Remove jar from the oven when the meat thermometer registers 185°F. This heating takes about 30 minutes.
5. Allow the jar to stand at room temperature for 30 minutes to let the heat distribute evenly.
6. Serve the fish hot or chill for later use.
7. If jar is recovered, cover with a clean lid.

* Before you throw it away, detoxify, so that no humans or pets can get poisoned by eating spoiled foods. To detoxify, place jar lids and open jars with food in saucepan. Add water to cover jars and boil 30 minutes. Cool. Drain liquid. Throw away food and jar lids. Jars may be reused.

Research on food preservation is an ongoing process. The United States Department of Agriculture and the Cooperative Extension Service continuously apply new research findings to their recommendations for food preservation techniques. The guidelines in this publication may be revised at any time additional knowledge is gained that may increase the margin of safety or improve the quality of home preserved products. Please consult your local Cooperative Extension Service annually for updated information.

www.uaf.edu/ces or 1-877-520-5211

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