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Metropolitan

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Survey for Giveaway

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OKLAHOMA COUNTY EXTENSION Water Bath Canning
What foods can you preserve?
Equipment Needed
Canning Process

Dutline

• Live water bath canning demo

"We'll have lots to eat this winter, won't we Mother?"

CORDERATOR STREET

Grow your own Can your own

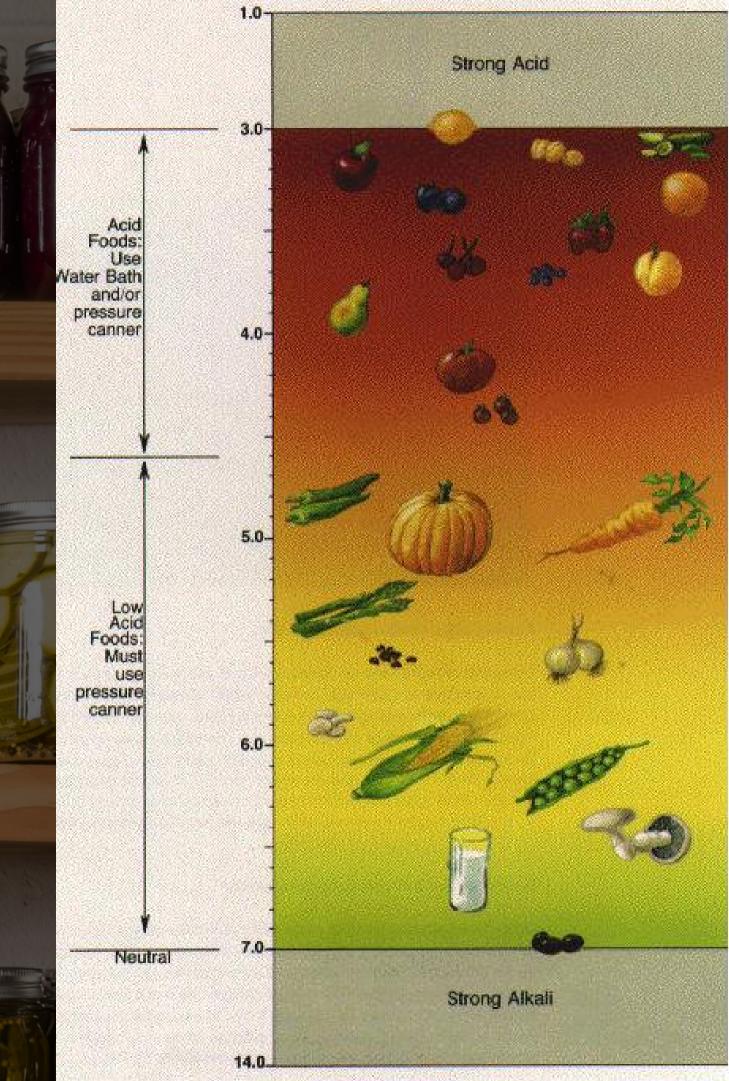
What foods can you preserve with the water bath method?

Acid Foods

• Fruit

Two proven and safe methods of canning:
 Boiling Water Method
 Pressure Canning Method

Processing times and methods are not interchangeable



- apples
- berries
- peaches
- pears
- tomatoes are borderline and must be considered a special case, with acid added!

- asparagus • beans • corn • cucumbers
- peas

• green beans

Low pH ressure Canned

• greens (lettuce, kale, collards, spinach, etc.)

 pumpkins squash (summer or winter) varieties) Meats including seafood



Traditional Water Bath Canner ~ \$20



Ball Electric Water Bath Canner ~ \$150





• Jar • Lid Band (rings) Jar funnel Jar lifter • Magnetic lid lifter

Equipment needed for water bath canning

• Bubble popper/measurer • Tongs Band tightener • Thermometer

Uater Bath Canning Process Trusted Recipe

Prep

Hot Pack vs. Raw Pack

Process Jars

Test Seal

Scientist test recipes to ensure safe canning processes using a thermocouple • Find specific instructions for what you are canning • Current resources dated after 1988 or newer Reliable source Adjust processing time or pressure based on altitude

******There are very few exceptions to the rule when following a canning recipe (see Fact Sheet "Canning") Safety Rules")

Water Bath Canning Process



• Most recipes are based on a 1,000ft or less in elevation • Due to the increase in elevation, adjustments must be made to ensure the proper temperature is met

PROCESS in a boiling water canner for 15 minutes, adjusting for altitude. Remove jars and cool. Check lids for seal after 24 hours. Lid should not flex up and down when center is pressed.

• In OKC, we're around 1,200 ft, so what would the adjustments be? How long would the process time be?



ALTITUDE CHART For Boiling Water Processing

If you are preserving at an altitude higher than 1,000 feet above sea level, adjust boiling water processing time as indicated.

Altitude Feet	Increase Processing Time
1,001-3,000	5 minutes
3,001-6,000	10 minutes
6,001-8,000	15 minutes
8,001-10,000	20 minutes



Use clean hot jars Use new cleaned lids each time Can reuse bands if in working condition

 Clean, peel (if needed), and cut fruit into pieces, according to recipe.





•Best for delicate foods Uncooked whole or cut food •Hot brine, syrup, fruit juice, or water is added just to cover as stated

Rall Pack

Raw pack

Add very hot canning iquid or water to cover raw food, but leave head space.

Raw foods peeled and packed tightly

Removes air from food •Shrinks food •Stronger seal •Improve shelf life



Hot pack

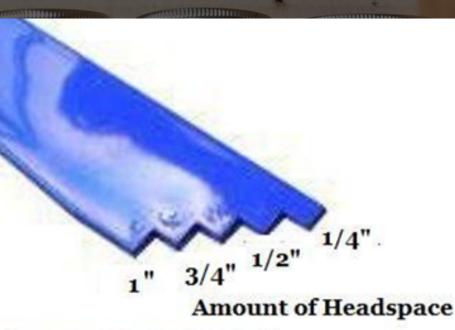
Raw foods are boiled 3 to 5 minutes in a saucepan or blancher, then poured into jars.

Room between top of food & bottom of flat. In general headspaces

Headspace

are:

Fruits, tomatoes, pickles
1/2 inch
Jams, jellies, preserves
1/4 inch or less
1/2-inch





Spatula is measuring 1 " of headspace!

1/4-inch

1-inch

1. Use nonmetallic spatula to remove air

bubbles

2. Wipe rim and sides of rim with damp cloth 3. Center lid on jar, followed by band and tighten until fingertip-tight



1. Fill canner halfway with water.

2. Preheat water to 140F for raw packed,

180F for hot-packed 3. Load filled jars with lids, into canner rack,

use handles to lower rack into water; or fill canner one jar at a time, with jar lifter





4. Add more boiling water, if needed to ensure 1-2

Processing

inches above jars.

5. Turn heat to highest position until water boils vigorously

6. Set timer for the minutes required for processing



7. Cover with canner lid & lower heat setting to maintain gentle boil throughout process schedule 8. Add more boiling water, if needed, to keep water level above jars

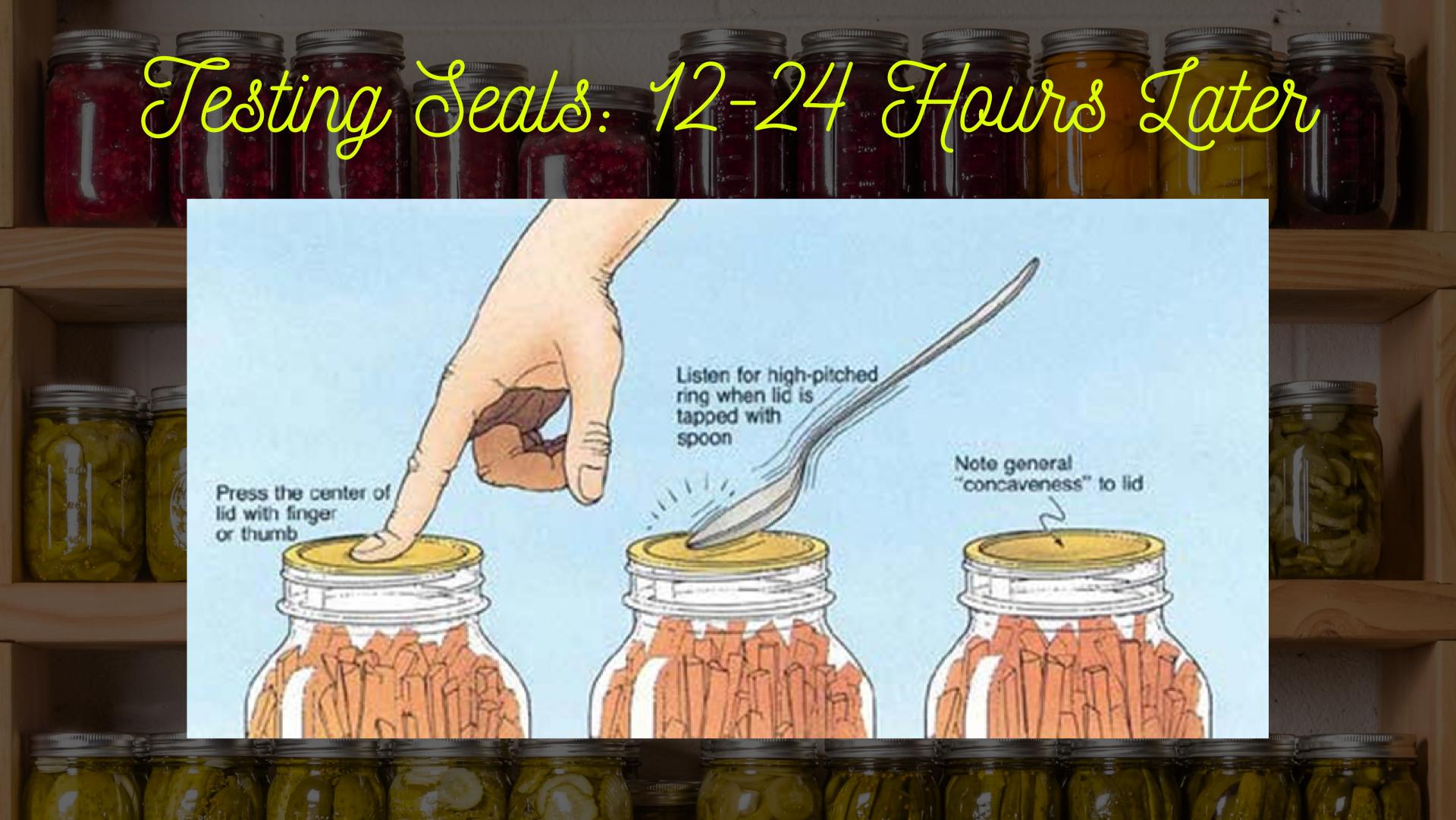
Processing



9. When jars have processed for recommended time, turn off heat & remove canner lid 10.Wait 5 minutes to remove jars 11.Use jar lifters to remove jars & place when on towel, leaving at least 1-inch space between jars during cooling (do not touch for 12-24 hours).

Processing





• Reprocess within 24 hours

• Use new lid

 Refrigerate & use within a few days • Freeze

• May need to adjust headspace

Na Seal?

SCREWBANDS OFF FOR STORAGE



Keeping Yourself Safe when Canning at Home:

1. Use proper canning techniques • Follow research-based recipe, specifically those that follow the USDA Complete Guide to Home Canning • Do not follow recipes and cookbooks that do not follow the steps in the USDA guide, even if you got these items from a trusted friend or family member.

Keeping Yourself Safe when Canning at Home:

2. Use the right equipment for the kind of foods you are canning

 Do not use a boiling water canner for low-acid foods because it will not protect against botulism. Do not use an electric, multi-cooker appliance, even if it has a "canning" or "steam canning" button on the front panel.

3. When in doubt, throw it out! • If the container or the food inside has any signs of contamination, throw it out! Look for: the container is leaking, bulging, or swollen the container looks damaged, cracked, or abnormal the container spurts liquid or foam when opened or the food is discolored, moldy, or smells bad.

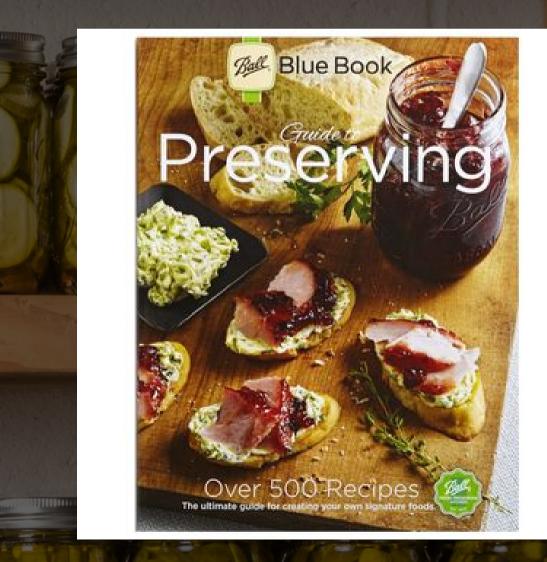
• Never taste food to determine if it is safe.

Keeping Yourself Safe when Canning at Home:

• For further information on water bath canning, pressure canning, freezing vegetables & fruit, or other home food preservation recommendations visit: https://nchfp.uga.edu/ Ball Blue Book https://www.freshpreserving.com/home

Local Extension office

Reputable Resources



Home Canning and Botulism. (June, 2020). Centers for Disease Control and Prevention. https://www.cdc.gov/foodsafety/communication/home-canningand-botulism.html

National Center for Home Food Preservation. (2020). https://nchfp.uga.edu/publications/uga/using_bw_canners.html

References