IOWA STATE UNIVERSITY

Extension and Outreach

Foods for Iowa 4-H Fairs - Quick Reference Guide (2023)

Food and nutrition exhibits involve fun and engaging food science and nutrition experiments.

Exhibits should be prepared with food safety in mind. Using unsafe ingredients or recipes could cause judges who evaluate exhibits to become ill. Plan ahead for a successful fair experience. Use these guidelines to help you select an acceptable product for exhibit, find an approved recipe source, and identify the appropriate preparation method.



Preserved Foods - Keys to Success

Approved Recipe Source

Between 1994-2015, significant changes have been made in home food preservation processes. As a result, recipes handed down from previous generations, found in older cookbooks, or published online may not be safe to use or exhibit.

In order to qualify for state fair in lowa, home preserved food exhibits must follow current preservation quidelines and use an approved, tested recipe.

ISU Extension and Outreach recognizes the following as current, tested recipe sources:

- 1. Iowa State University Extension and Outreach's Preserve the Taste of Summer
 - Canning and Freezing Tomatoes (PM 638) store.extension.iastate.edu/Product/3990
 - Canning Fruits (PM 1043) store.extension.iastate.edu/Product/4366
 - Canning Vegetables (PM 1044) store.extension.iastate.edu/Product/4367
 - Canning Salsa (HS 21) store.extension.iastate.edu/Product/14173
 - Freezing Fruits and Vegetables (PM 1045) store.extension.iastate.edu/Product/4369
 - Making Fruit Spreads (PM 1366) store.extension.iastate.edu/Product/4785 Making Pickles and Pickle Products
 - store.extension.iastate.edu/Product/4787

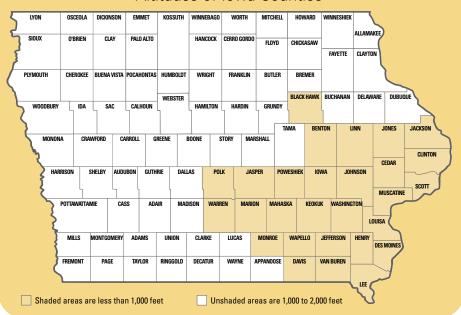
 - · Canning Meats, Poultry, Wild Game and Fish (PM 3021)
- store.extension.iastate.edu/Product/13757 2. National Center for Home Food Preservation -
- nchfp.uga.edu
 - <u>Judging Home Preserved Foods</u> nchfp. uga.edu/publications/nchfp/tech bull/0Judging_Preserved_full.pdf
- 3. USDA Complete Guide to Home Canning (2015) - nchfp.uga.edu/publications/usda/ INTRO_HomeCanrev0715.pdf
- So Easy to Preserve (University of Georgia) setp.uga.edu

Proper Equipment and Processing Time

If pressure canning is necessary, be sure to USE A PRESSURE CANNER NOT A PRESSURE COOKER. A canner will hold at least 4 quart-sized jars.

Adjust the processing time based on the altitude of your location.

Altitudes of Iowa Counties



Ask the Experts

Contact Iowa State University Extension and Outreach AnswerLine with any questions. Tell them you are calling in reference to a 4-H exhibit. Calls are answered Monday through Friday, 9 a.m.-noon, 1-4 p.m.

EMAIL: answer@iastate.edu

CALL: 1-800-262-3804 or (515) 296-5883 Relay Iowa (hearing impaired) 1-800-735-2942

Preserved Foods

Home preserved food must be prepared using current, tested recipes to qualify as a fair exhibit.

	ACCEPTABLE EXAMPLES	UNACCEPTABLE EXAMPLES	METHOD NOTES
JAMS JELLIES SWEET SPREADS	 Fruit jams and jelly Corn cob jelly Pepper jelly Tomato jam Fruit butter Conserves Preserves Marmalades 	 Recipes made with Jell-0® Recipes that require refrigeration Jars sealed with paraffin or inverted 	It is highly recommended that any freezer/refrigerator/Jell-O® jams or jellies be exhibited as a written project.
PRESERVED FRUITS	Whole or cut fruits		May be packed in sugar syrup, water or fruit juice.
LOW ACID VEGETABLES	BeansCarrotsCornSoupsVegetable with meat	Do not pack for artistic affect ("fancy packs" or hand-placing the vegetable to produce a tight, vertical pack) unless the recipe directly states to pack this way	If recipe calls for a peeled vegetable, it must be peeled.
PICKLES AND RELISHES	CucumberBeetsAsparagusCarrots	 Do not pack for artistic affect ("fancy packs" or hand-placing the vegetable to produce a tight, vertical pack) unless the recipe directly states to pack this way Alum not advised 	
SALSA	Canned mild salsaCanned hot salsaCanned fruit salsa	 Fresh salsa Pico de gallo Recipe that a participant creates CANNOT be used as a fair exhibit 	May NOT contain corn or black beans. If desired, you can add them at the time of serving.
TOMATO Products	 Tomatoes Tomato juice Tomato sauce Ketchup Spaghetti sauce BBQ sauce (canned) 	Fresh BBQ sauce (not canned)	 Tomato products are considered an acidified product and should be acidified according to recipe standards. Refer to the National Center for Home Food Preservation² for standards and include in your recipe explanation.
MEATS OR POULTRY	Canned beef, chicken, pork, and venison	• Jerky	Either raw pack or hot pack are acceptable.
HONEY		Honeycomb	 Package in Queenline or classic honey jar. Density/moisture content must be measured by a refractometer.
MAPLE SYRUP	Maple syrup		It is highly recommended that maple syrup exhibits should follow the instructions as outlined by <u>University of</u> <u>Minnesota Extension's</u> , <u>Maple Syrup page</u> , extension.umn.edu/goods-your-woods/ homemade-maple-syrup
DRIED FOODS	FruitsVegetables	Meats, including jerky	 Must be completely dry (brittle texture). Must be stored in an airtight food grade container. Fruit leather must be brought in a plastic bag as part of a display but is not for tasting.

Baked Goods and Confections

	ACCEPTABLE EXAMPLES	UNACCEPTABLE EXAMPLES	METHOD NOTES
PERISHABLE FOOD	• None	 Foods served hot Foods that require refrigeration Foods containing alcohol Foods served or made in canning jars or containers that are not food-grade Dips, fried foods, homemade noodles, nut butters, salads, smoothies 	 Perishable items (except home canned foods) that cannot be safely brought to the fair can be exhibited as a written project. Project can include pictures, explanation of steps, and evaluation of product quality from others at home.
PIES	Double crusted fruit pieDutch apple pie	 Custard, meringue, pecan, or pumpkin pies Unbaked fruit pies Products made with a butter-sugar mixture topping that is baked less than 45 minutes, e.g., apple or rhubarb crisps 	Fruit must be cooked.
PASTRIES	CroissantsDanishesStrudelsTurnovers	Cream or custard filled	Fruit must be cooked.
CANDIES	FudgeTaffyCandied lemon	Candies that require refrigerationCream cheese mints	Texture must be dry enough that it does not require refrigeration.
YEAST BREADS	 White, Wheat, Rye Pretzels Rolls Breads with cheese that is fully incorporated (not visually detectable) 	 Breads containing meat, salsa, vegetables, potatoes, beans, fresh herbs or layers of cheese inside or on top of the product Breads leavened by wild microorganisms such as sourdough, friendship bread, etc. Caramel rolls made with milk or cream in caramel sauce 	
QUICK BREADS	 Coffee cakes Muffins Biscuits Scones Banana, Pumpkin, Zucchini breads 	Quick breads containing meat, salsa, vegetables, beans, fresh herbs, or chunks (large or small) of cheese.	 May be frosted or unfrosted. See frosting guidelines (page 4). No baking in metal cans. No visibile chunks of cheese. It is highly suggested that you use shredded cheese.
BISCUITS	Rolled or dropped biscuitsScones	Biscuits containing meat, salsa, vegetables, beans, fresh herbs, or chunks (large or small) of cheese.	 No visibile chunks of cheese. It is highly suggested that you use shredded cheese.
CEREAL GRAINS	Baked granolaCerealCrackers (containing no herbs)Trail mixes		Must be baked.Must be dry and in an airtight food grade container.
FLAVORED OILS/ VINEGARS	None	 Homemade salad dressings Flavored vinegars with fruit peels in the product Vinegar or oils with added herbs or garlic 	
COOKIES AND BARS	 Drop, rolled, pressed, or refrigerator Black bean brownies (commercially processed beans) Brownies, Scotcheroos No-bake cookies that do not contain flour 	 Lemon bars Items that require refrigeration after baking or preparing (this excludes items that set up at room temperature) Edible cookie dough 	All doughs containing flour and eggs MUST be baked.

	ACCEPTABLE EXAMPLES	UNACCEPTABLE EXAMPLES	METHOD NOTES
CAKES	FoamSpongeShortenedCupcakesAngel foodPoundChocolate	 Carrot Cake filled or topped with any product requiring refrigeration Cake filled, garnished, or topped with fresh fruit Fruit filled cakes containing chunks of fruit Pineapple upside down cake 	 May be frosted or unfrosted. Frosting is required if decorating skills are part of the goal. No baking in metal cans.
FROSTING AND GLAZES	 Commercially canned frostings, e.g., German chocolate, cream cheese Sprinkle of powdered sugar Traditional vanilla buttercream (butter, powdered sugar, extract, milk) Glazes made with powdered sugar and water only 	 Cream cheese frosting made from scratch German chocolate frosting made from scratch Ganache 7-minute frosting Fresh juice or zest 	It is highly suggested that exhibits be presented without frosting unless the frosting is part of the exhibit goal.

No endorsement of products or firms is intended nor is criticism implied of those not mentioned.

Developed by Shannon Coleman, associate professor and state human sciences specialist in food safety and Lena Frank (alum), department of food science and human nutrition. Reviewed by Beth Marrs and Marlene Geiger, AnswerLine specialists; and Gail Castillo, 4-H Youth Development risk management specialist, all with Iowa State University Extension and Outreach.

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