

# Helping the Meat and Milk Supply

(Special Information Service, U. S. Department of Agriculture.)

## A STEAM GERM-KILLER FOR SMALL DAIRIES



Placing a Milk Can Over the Home-Made Sterilizer—It Can Be Used on the Kitchen Stove.

### DEVICE INSURES CLEANSSED MILK

Steam Destroys Disease Germs and Injurious Bacteria.

SMALL OUTFIT EASILY MADE

Tests Show Five-Minute Treatment of Dairy Utensils is Sufficient—Two-Burner Wickless Kerosene Stove is Useful.

Steam is the arch enemy of harmful bacteria that lurks in milk utensils. But steam isn't the common method of sterilizing used in small dairies, because it is not always available. In fact, lacking it, dairy utensils on small farms are not often sterilized satisfactorily, and as a result diseases hide in milk and may be carried to many families. Washing milk cans and utensils, at least by the processes ordinarily used, does not insure freedom from infection and contamination.

For \$10 or \$15 a simple steam sterilizer, which will serve a small dairy, can be made in a short time. At that price—which includes a small kerosene stove—this sterilizer should be practical in any dairy from which cream or milk is sold. And the additional keeping qualities which the sterilization of utensils will give milk and cream probably will pay for the cost of the sterilizer in one season. For when utensils are treated with steam all bacteria or disease germs which may be in them are destroyed, and therefore milk and cream when placed in these utensils will keep sweet much longer.

**Directions for Making.**  
This is the way to make a small sterilizer. Specialists of the United States department of agriculture, who describe the process, say this sterilizer will be of greatest use to those who have one, two or three ten-gallon or smaller cans, with a similar number of pails and a strainer cloth. It can be used, however, with a large number of cans. It is made of a roasting pan, a cover, a galvanized-iron box and a removable top to the box.

#### FOR \$10 TO \$15. SMALL DAIRIES CAN HAVE STEAM STERILIZER.

The cost of the steam sterilizer itself should not be more than \$8. If it is necessary to buy a small stove the cost will be \$4 or \$5 more. The materials used in it can be bought at prices about as follows: Roasting pan, 25 cents to \$1, depending on the grade of iron. The galvanized iron with asbestos and construction work should not cost more than \$7, and the work can be done by any tinner. A two-burner wickless kerosene stove costs from \$4 to \$5; but in many cases it will not be necessary to purchase a stove. The details of making the sterilizer and suggestions as to how it should be operated are described in Farmers' Bulletin 768 of the United States department of agriculture.

When properly operated this sterilizer destroys practically all the bacteria in the utensils, including all disease germs, which may be present. It will accomplish the same results as any sterilizer in which steam not under pressure is used. Experiments with it show that the five-minute steaming is, for all practical purposes, as good as the 15 to 30 minute steaming usually recommended.

The roasting-pan is of standard size, 20 inches long, 14 inches wide—top measurement—and 3 inches deep. The cover to this is close fitting and insulated. Upon this is placed the galvanized-iron box with its removable top. The insulated cover is made as follows:

Take a sheet of heavy galvanized iron and cut it large enough to allow it to project three-fourths inch over the edge of the pan. Bend the edges of the sheet so as to form a shallow box with sides three-eighths inch high. Then cut out a cover for the shallow box. Cut a hole one and one-half inch in diameter in the center, through the top and bottom, of the small box. Iron braces should be placed crosswise of the box to strengthen it. Then fill the shallow box completely with paper or asbestos sheets, after which the top is carefully soldered on, care being taken to make the seams absolutely tight. Solder a round, galvanized iron pipe, four and one-half inches long and one and one-half inch in diameter in the hole in the center of the cover. Solder flanges beneath cover so that they will meet the edge of the roasting pan, thus making a tight cover. On the top of the insulated cover solder strong folded galvanized-iron strips, three-eighths inch high, to form a square 15 inches by 15 inches, for holding the upper galvanized-iron box. On top of the cover solder also four strips of stiff, galvanized-iron eight inches long and three-eighths inch wide. These strips should extend three-

#### PATRIOTISM AND GOOD MILK.

Every owner of a dairy herd should consider it his duty to himself and to the community to keep only healthy cows, supply them with wholesome feed and keep them in clean, comfortable quarters. There is not only patriotism in the service to his patrons which results from such management, but there is more profit.

The milkers and all who handle the milk should realize that they have in their charge a food which is easily contaminated and should, therefore, take all reasonable precautions to prevent the milk from becoming a source of danger to themselves and to others.

The consumer should understand that clean, safe milk is worth more and its production costs more than milk which contains dirt and disease germs; therefore he should be willing to pay more for it than for dirty milk, which is dear at any price.

eight inches above the cover and run from a distance of one inch from the corners to one inch from the steam outlet in the center.

The galvanized-iron box has no bottom but fits in the square formed by the four strips on the cover. The box is 11 inches high. Inside it, three-fourths inch from the top and one-half inch from one side, a stiff wire should be riveted and soldered. It is sometimes desirable to re-enforce the box at each corner with angle iron six inches long and one-half inch wide, riveted half way up the side.

**Kerosene Stove Used.**  
In the department of agriculture's tests of the outfit described a two-burner wickless kerosene stove was used with excellent results. The sterilizer, however, may be placed on the kitchen stove or over any other source of heat, such as a gas, gasoline, or laundry stove, which burns either wood or coal. Good results also are obtained at very little cost by building under the sterilizer a small brick furnace 12 inches high. It is necessary to have sufficient heat to furnish steam at the end of the outlet pipe at least 205 degrees Fahrenheit, and 210 to 211 degrees Fahrenheit should be obtained if possible.

#### BUSINESS LOCALS.

**NICE CAR MULES WELL BROKEN**  
Come look them over. Roberts-Atkinson Co., Selma, N. C.

**W. H. WAKEFIELD, M. D., OF** Charlotte, will be in Kenly at Glenn Hotel on Friday, March 1st; Benson, Parrish Hotel, Wednesday, March 6th; Four Oaks, Dr. Stanley's Office, Thursday, March 7th. The doctor limits his practice to the medical and surgical treatment of eye, ear, nose and throat diseases. Ask your physician about consulting Dr. Wakefield.

**OBERS 8-3-3. YOU CAN HAVE IT** today. Austin-Stephenson Co.

**THREE PURE-BRED POLAND** China male pigs for sale. Also 4 grade Poland China and Berkshire, 3 male and one female, and three Poland China grade gilts for sale. Phillip Lee, Four Oaks, N. C., R. 3.

**PLOWS AND PLOW CASTING**—Largest stock we have ever carried. See our line before you buy. Roberts-Atkinson Co., Selma, N. C.

**MISS BLANCHES MIZELL, WHO** has been in charge of The Bon Ton Millinery Department for several years, and her two assistants are now on the Northern markets purchasing millinery for the Bon Ton. Miss Mizell will return in a few days with one of the largest lines of fashionable millinery ever shown in Smithfield. Wait for her.

**CAR LOAD OF BEST MULES EVER** brought to Smithfield. W. R. Long.

**GUANO DISTRIBUTORS, THE** best on the market and prices right. Roberts-Atkinson Co., Selma, N. C.

**A NICE LOT OF BIBLES JUST RECEIVED.** Prices from 35 cents each to \$4.00. Herald Book Store.

**IF YOU ARE READY TO PAINT** see us. We carry a full line of leads and oil and ready mixed paints. Smithfield Hardware Co.

**WE HAVE ON HAND A FEW GOOD** mules and horses for sale. Cotter-Underwood Company.

**SEE OUR BIG TYPE TESTAMENT,** big enough for very old people to read. Herald Book Store.

**THE DAVIS STORES IS THE** place to do your Spring and Summer trading, as we have a large stock of cotton goods at one-half price. The Davis Stores, Smithfield, N. C.

**SEE US FOR ASPHALT ROOFING** and proslate shingles. Cotter Hardware Co.

**STALK CUTTERS: INTERNATIONAL** Harvester Co.'s non-chokeable, best stalk cutters made. Roberts-Atkinson Co., Selma, N. C.

**800 SACKS RED DOG. COME** quick. Austin-Stephenson Co.

**WANTED: EXTRA STENOGRAPHIC** Work. Box No. 271, City.

**SEE US FOR POULTRY NETTING** and goose fence. Cotter Hardware Company.

**MISS BLANCHES MIZELL, WHO** has been in charge of The Bon Ton Millinery Department for several years, and her two assistants are now on the Northern markets purchasing millinery for the Bon Ton. Miss Mizell will return in a few days with one of the largest lines of fashionable millinery ever shown in Smithfield. Wait for her.

**OBERS GUANO 8-3-3. AUSTIN-** Stephenson Co.

**DISC AND SMOOTHING HAR-** rows, International Harvester Co. and Walter A. Wood's makes, all guaranteed. We have good prices on these harrows. Come to see us for harrows. Roberts-Atkinson Co., Selma, N. C.

**ANOTHER SUPPLY "TEN NIGHTS** in a Barroom" just received. Five cents each. By mail, eight cents. Herald Book Store.

**GRAIN DRILLS, LIME AND MA-** nure Spreaders. We bought at the right time, be sure to get our prices, every piece guaranteed. Roberts-Atkinson Co., Inc., Selma, N. C.

**JUST RECEIVED A LARGE LOT** of New Testaments, ranging in price from ten cents to \$1.40 each. Herald Book Store, Smithfield, N. C.

**SEED IRISH POTATOES FOR** sale at Cotter-Underwood Co.

**SEE US FOR ASPHALT ROOFING** and proslate shingles. Cotter Hardware Co.

**RIDING CULTIVATORS.** Our No. 4 pivot axle riding Cultivators increase the yield, but decrease the cost of crop production. A large stock on hand, but they are selling fast. Roberts-Atkinson Co., Inc., Selma, N. C.

**JUST RECEIVED BIG LOT CAN-** vas cloth for tobacco beds. Cotter-Underwood Company.

**COTTON SEED MEAL AND ACID.** Come after it now. Austin-Stephenson Company.

**JUST RECEIVED AT COTTER-UN-** derwood Company's a car load of Red Rust Proof seed oats.

**CAR LOAD OF BEST MULES EVER** brought to Smithfield. W. R. Long.

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**DISC AND SECTION HARROWS**—Prepare your land thoroughly with these harrows, your cultivation will be easier and harvest larger. Roberts-Atkinson Co., Inc., Selma, N. C.

**THREE HUNDRED TONS BEST** grade-fertilizers now in warehouse. Cotter-Underwood Co., Smithfield, N. C.

**TOBACCO BED CANVASS ON** hand now. Austin-Stephenson Company.

**ANOTHER CAR HEART CEDAR** Shingles just received. Cotter Hardware Co.

**CORN AND FLOUR MILLS WILL** pay for themselves and then earn you a handsome profit on your investment. Come to see us to talk Corn or Flour Mills and we will show you what others who have bought of us are doing. Roberts-Atkinson Co., Inc., Selma, N. C.

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**REAPERS AND BINDERS. IT** will pay you to buy the International Harvester Co. makes, and will pay you to buy now. Later prices will be higher and deliveries slower and more uncertain. Roberts-Atkinson Co., Inc., Selma, N. C.

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**LIME: AGRICULTURE & BUILD-** ing lime. Have you tried lime on your land? You will be surprised at the results if you have not. We have agriculture and building lime. Roberts-Atkinson Co., Inc., Selma, N. C.

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**HORSE AND BUGGY AND ONE-** Horse Wagon for Sale on easy terms.—Apply to Dr. L. D. Wharton, Smithfield, N. C.

**FERTILIZERS—WE HAVE ANY** analysis or body you want. Get our prices and terms before you buy. Roberts-Atkinson Co., Inc., Selma, N. C.

**IF YOU WISH TO SELL YOUR** farm it will pay you to see us. Abell & Gray, Smithfield, N. C.

**WHERE DO YOU BUY? IF YOU** buy your machinery from us you have no trouble in getting your repairs. This should be a big consideration in buying your machinery and improvements. Roberts-Atkinson Co., Inc., Selma, N. C.

**WE SELL THE NEW WAY AIR** Cooled Gasoline Engine. Cotter Hardware Company, Smithfield.

**WE HAVE JUST RECEIVED A CAR** of Muriate of Potash. Come quick if you want any. Cotter-Underwood Company.

**I HAVE SOME CALIFORNIA PRIVET** Hedge for sale at a reduced rate. See H. S. Powell, Smithfield, N. C.

**CORN MILLS—WE HAVE THE** best on the market at a reasonable price. No where is the local demand for good corn meal supplied. Get you an engine and mill. Roberts-Atkinson Co., Inc., Selma, N. C.

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**ONE GOOD MULE FOR SALE. SEE** Mrs. J. H. Sanderson or Mr. W. H. Austin, Smithfield.

**ALL KINDS OF FERTILIZERS Now** on hand. Austin-Stephenson Co.

**MULES. WE HAVE JUST RECEIVED** a shipment of nice, good-weighted, well-broke mules. Come look them over. Roberts-Atkinson Company, Selma, N. C.

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**FLOUR MILLS—OUR MEADOWS** Whole Wheat Flour Mills are the best on the market. With small investment you can grind your own and neighborhood wheat. Roberts-Atkinson Co., Inc., Selma, N. C.

**WE SELL THE NEW WAY AIR** Cooled Gasoline Engine. Cotter Hardware Company, Smithfield.

**IF YOU WANT TO SELL YOUR** farm to the best advantage see us. Abell & Gray, Smithfield, N. C.

**PLOWS AND PLOW CASTING,** Disc and Section Harrows, International Harvester Co., and Acme makers. Roberts-Atkinson Company, Selma, N. C.

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**Positive—Convincing Proof**

We publish the formula of Vinol to prove convincingly that it has the power to create strength.

**It Cod Liver and Beef Peptones, Iron and Manganese Peptones, Iron and Ammonium Citrate, Lime and Soda Glycophosphates, Casaria.**

Any woman who buys a bottle of Vinol for a weak, run-down, nervous condition and finds after giving it a fair trial it did not help her, will have her money returned.

You see, there is no guess work about Vinol. Its formula proves there is nothing like it for all weak, run-down, overworked, nervous men and women and for feeble old people and delicate children. Try it once and be convinced.

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**FLOUR PANIC IS NOT KNOWN** to the man who raises his own wheat and has one of our Meadows' Mills. Let us sell you a Grain Drill, Reaper and Binder, Gasoline Engine and a Meadows Flour Mill. They will pay for themselves. Do your own work and make you a profit. Roberts-Atkinson Co., Inc., Selma, N. C.

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A bad back makes a day's work twice as hard. Backache usually comes from weak kidneys, and if headaches, dizziness or urinary disorders are added, don't wait—get help before the kidney disease takes a grip—before dropsy, gravel or Bright's disease sets in. Doan's Kidney Pills have brought new life and new strength to thousands of working men and women. Used and recommended the world over.

#### A Smithfield Case



C. A. Bryant, carpenter, R. F. D. No. 1, Smithfield, says: "I suffered from dull pains across my back. In the morning, I was so sore and stiff

that I could hardly stoop to put on my shoes. I had dizzy spells, too. I read of Doan's Kidney Pills and got a box at D. H. Creech's Drug Store. They relieved me of all symptoms of kidney trouble.

Get Doan's at Any Store, 60c a Box

**DOAN'S KIDNEY PILLS**  
Foster-Milburn Co. Buffalo, N. Y.

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We wish to inform our customers and the public that we do all kinds of automobile repairs and all kinds of Iron Work.

We will shoe mules and horses two days in each week, every Tuesday and Friday. No other days.

We guarantee our work to give complete satisfaction.

Yours to serve,

**PHELAND BOYKIN**  
Manager

## LUZIANNE coffee and Good Cheer go together like Possum and Sweet Potatoes

**BECAUSE** Luzianne makes the best-tasting cup of coffee you ever drank. It's roasted just right. The fragrance—you can't forget it. And the flavor is delicious.

Coffee-lovers know that Luzianne just hits the spot, for it's full of punch and pep.

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