

Canning, Freezing and Food Preservation

UNIVERSITY PARK — With plenty of rain and good growing weather, home canners should be able to preserve a bumper crop of produce.

Each year Louise Hamilton, Extension foods and nutrition specialist at The Pennsylvania State University, is asked how to properly can tomatoes, how best to freeze corn (on or off the cob), and numerous other requests on how to safely and properly preserve foods.

The author of Penn State's Correspondence Course on CANNING, FREEZING, AND FOOD PRESERVATION gives this information and more on the correct methods and procedures to use to get good quality products.

Boiling water bath and pressure canner directions, as well as how to freeze fruits, vegetables, meats, and prepared foods are included. Added bonus to more adventuresome homemakers are for drying, how to build a dryer, and storing foods, jellies, jams, and

preserves, and pickles.

To order your copy of this 9-lesson course, send \$8.25, plus 75 cents handling to CANNING, Box 5000, University Park, PA, 16802. Make check payable to PENN STATE.

The course is not only designed for the reader who wants to complete question papers and return them to Penn State for a completion certificate, but also for the consumer who wants a valuable reference guide.

BEAT THE SUMMER HEAT...

SPRINKLER COOLING SYSTEM

(Not Fogger)

FOR HOGS

THE PROBLEM

When the temperature goes up, one of the first ways your body reacts is by breaking out in perspiration. That's nature's way of cooling off.

It's different with hogs. High temperatures cause them a great deal of stress because they can't sweat. When under this stress due to heat, hogs will lose their appetite, weight gains drop, there is poor feed conversion, conception rate is reduced and pens become a mess. All of this adds up to lost profits.

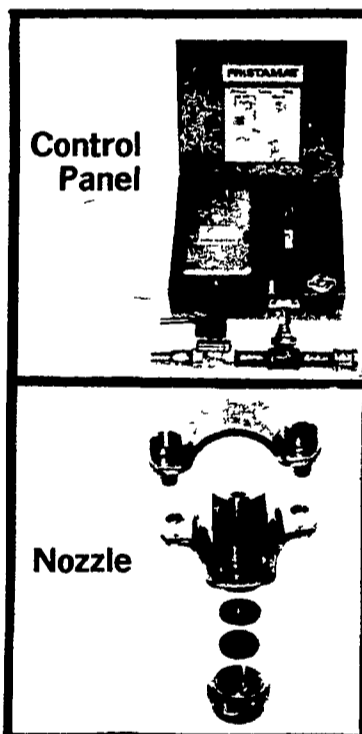
THE SOLUTION:

When the temperature is above 72° F even ventilation can't cure the stress that results. But a sprinkler cooling system can help your hogs where nature fell short, giving them a chance to cool off. It sprays them with coarse water droplets to reduce their body temperature. The idea is simple, but extremely effective.

THE SYSTEM:

The sprinkle cycle is turned on automatically whenever the barn temperature rises above a preset level 72° F. Throughout this "on" period the control functions to permit sprinkling to occur for a preset time period each hour. (2 minutes/hour is recommended for best results) When the barn temperature drops below 72° F the cycle is automatically interrupted.

The nozzles are clamped to a plastic pipe strung over the gutter of slatted area at the rear of the pen. Each nozzle covers a 5-6 foot diameter area which usually means one nozzle per pen. The nozzle assures a coarse droplet spray pattern which is important for maximum cooling. A fine mist of fog is not desirable in geographical areas of generally high summer relative humidity.



THE PROOF:

	Control Hogs not sprayed	Hogs Sprayed 1 min per hr above 85°F	Hogs Sprayed 1 min per 1/2 hr above 70°F	Hogs Sprayed 1 min per hr above 70°F
Average daily gain per hog	1.37	1.62	1.62	1.72
Average daily feed consumption per hog	5.84	6.77	6.72	6.67
Lbs feed per lb grain per day	4.38	4.18	4.16	3.89
Lbs feed save/hog	0	22	22	49
Days earlier to market	0	1	11	15

Research done at Ridgetown College of Agricultural Technology in Ontario and at the University of California have shown these results

* These figures are calculated on hogs from 100 lbs up to 200 lbs

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Suggested Readings

Electrical tips for everyone

UNIVERSITY PARK — Being "almost right" is not enough when dealing with electricity. An electrical installation is either right or wrong.

With the extra demand for electrical energy in summer, can you be sure that your home is adequately wired? You may have trouble brewing if fuses blow or trip; lights dim when an appliance is used; or, if the television screen shrinks or jumps when an appliance is turned on.

In these days of do-it-yourself projects, Penn State offers information, in the form of a correspondence course, that may help you avert trouble in your home.

The course titled, ELECTRICAL TIPS FOR EVERYONE, covers diagnosis and solutions to many electrical problems in the home. It details how to install light fixtures, outlets and switches, and methods

to use for testing fuses, circuits, cords, and appliances.

This well-illustrated, 10-lesson course describes procedures and gives examples of do-it-yourself jobs and others that require professional help. Outside and inside wiring, eliminating shock hazards, repairing electrical motors, and avoiding an electrical crisis in your home are discussed.

Consumers who are interested in reducing their electric bills will find helpful the section on how to determine if you are paying a reasonable amount for the electricity used each month.

You can get a complete copy of the course on electricity by sending \$8.25 plus \$1 handling to ELECTRICITY, Box 5000, University Park, PA, 16801. Make check payable to PENN STATE. State the booklet you are requesting.

Protecting high quality streams

HARRISBURG — "Local Protection of High Quality Streams," the latest in a series of Environmental Planning Information Reports, is available from the Pennsylvania Department of Environmental Resources.

The publication, sixth in the series, was prepared by DER's Bureau of Environment Planning and is intended primarily for local government officials, planning commission members and individuals concerned with the protection of high quality streams in the Commonwealth.

The 80-page booklet outlines actions that can be taken by local and county governments and citizens to help protect high quality streams throughout the Commonwealth. It will help communities plan and manage wisely a valuable asset and avoid the expense of damaging an en-

vironmental feature—high quality and exceptional value waters.

The publication:

—Contains background information about federal and state programs for protecting high quality streams.

—Describes the importance and problems of such streams in the Commonwealth.

—Outlines techniques which local governments can use to help protect streams.

—Provides case studies of efforts by municipalities and organizations to put protection programs into action.

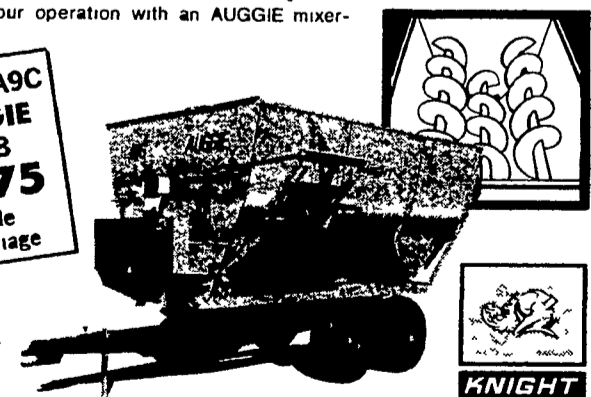
Copies of the publication are available from: Department of Environmental Resources, Bureau of Environmental Planning, Division of Planning Assistance, Box 2357, Room 819, Executive House, Harrisburg, Pa., 17120.

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