

Automatic milling

(Continued from Page A27)

The mixing is done in an eight-foot-tall tank, which is only 36 inches in diameter. In its center is an eight-inch auger.

"This narrow tank assures more uniform mixing," according to Martin.

"In larger tanks, as on a PTO-operated grinder-mixer, some of the ingredients can be missed in the mixing."

A two-fold mixing operation is featured, including within the tank and the elevation of the ration from

the bottom to the top of the tank.

After a five-minute mix cycle, the ration is automatically unloaded and augured to its pre-selected location. The system continues on to prepare another batch.

Feed was sampled from the system and was found to be within about 50 parts per million of uniformity.

The system also features a built-in 10-minute time limit on all operations within the milling

cycle. For example, if an ingredient should run out during a cycle or an auger belt tear during unloading, the system would be shut down and the audible alarm activated after the 10-minute time limit for that particular operation.

"We wanted a system that not only weighed ingredients accurately, but that could be serviced by a farm electrician," Martin said.

"With the schematic we provide the system is simple enough to be maintained with such service."

Lancaster Farming, Saturday, June 27, 1981—A29

Brooks End sale totals \$64,500

BEAVERTOWN — Brooks End and Par Kay Farms, of Beavertown, held their annual summer sale on June 19 with 232 head selling for \$64,500.

The top-selling animal was a Landrace boar, Lot 146, RTBO Pakenham Essay 169-8, selling for \$950.00 to Potecasi Pork Producers, Inc. Potecasi, N.C. The top-selling Landrace open gilt was Lot 154 purchased by Potecasi Pork Producers for \$330.00. The top-selling Landrace bred gilt was Lot 62 purchased by Potecasi for \$500.00.

The top-selling Yorkshire boar was Lot 119 purchased by Hickory Grove Farm, Belleville, Pa. for

\$600.00. The top-selling Yorkshire Bred Gilt was Lot 10 purchased by Marvin Boerger and Sons, Irvin, Ohio for \$525.00.

Sale averages showed: 38 head of Landrace bred gilts, \$348.00; 10 head of Landrace open gilts, \$265.00; 12 head of Landrace boars, \$385.00; 60 head of Landrace, \$342.00; 48 head of Yorkshire bred gilts, \$370.00; 22 head of Yorkshire boars, \$389.00; 70 head of Yorkshires, \$376.00; and 102 head of commercial open gilts, \$173.00.

The next sale offering will be held on October 9. Most of this sale offering was new imported blood from Scotland. This sale offering sold into 11 different states.

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 SYSTEM:

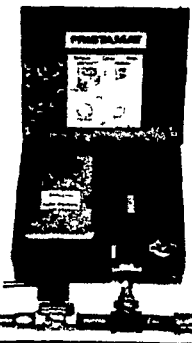
The sprinkle cycle is turned on automatically whenever the barn temperature rises above a preset level 72° F. Throughout this "on" period the control functions to permit sprinkling to occur for a preset time period each hour. (2 minutes/hour is recommended for best results.) When the barn temperature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

Control Panel



Nozzle



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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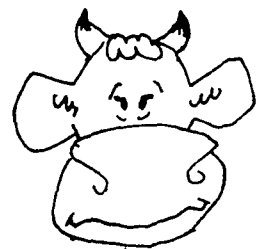
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