Dairy engineering meeting held

By SALLY BAIR Feature Writer

LANCASTER, Pa. Proper ventilation in dairy barns could increase production and could decrease herd health problems, according to Gerald Bodman, Penn State Extension agricultural engineer. Bodman spoke to nearly 60 Lancaster County farmers at a meeting organized by N. Alan Bair, Lancaster Co. Extension agent.

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sylvania barn ventilation." air inlets can be installed at very low cost.

reluctant to build the necessary air inlets because often calves are housed in they want "nice tight barns to keep the wind out." However, this reasoning can cause farmers some severe problems.

the quality of air, which means outside air must be air, which includes the proper size of fans; and the distribution of air, having fresh air throughout the structure without drafts.

Temperature, moisture important in considering air quality, and if they are not in the proper relationship, mildew and condensation can be the result. Either, Bodman said, means a farmer has a problem with

Using slides to illustrate,

Bodman said that "lack of Bodman showed several proper air inlets is the alternatives for correct biggest problem in Penn- ventilation of barns. He emphasized the importance He added that very efficient of getting fresh air to all parts of a building, and atrery low cost. tributed many winter calf He said often builders are problems to "dead air space" in barns. He said the back part of the barn, and this is just the place where air circulation is nonexistent.

When installing fans, Air ventilation, Bodman Bodman said it is most efsaid, must take into account ficient to install them in banks, and added, "The greater the length of the an introduced; the quantity of inlet, the smaller the openings required. And the smaller the opening, the less chance of draft." He said that in a long barn, two banks of fans should be used. "You can not efficiently and relative humidity are all move air for more than a distance of 100 feet," he said.

Bodman also suggested that farmers insist on installing fans which are "certified ratings fans." Fans are rated by the Air Moving and Conditioning Association, Inc., which is

which are approved by the Underwriters Laboratory.

Bodman also cautioned that controls for fans should be located where they can sense average conditions in the building and they should be kept in a group for easy calibration. He said they need to be kept very clean for proper functioning. "After the third whitewash, they won't work!"

In a discussion of calf hutches, Bodman told dairymen that if they provide a wide range of conditions an animal will find a place which is good for its well-being and which is comfortable for it.

The real question farmers have about calf hutches, Bodman said, is not what is comfortable for the animal, but whether it is too cold to go out and feed it. He said, "If you're having calf problems, I would encourage you to try calf hutches. You the producer must provide a good environment if the animal is to survive."

Bodman also talked about manure management, similar to electrical units saying that ventilation and

Ag Engineer Gerald Bodman makes a point at the blackboard as he discusses proper ventilation for farm buildings.

related areas. He urged farmers to consider all the alternatives before choosing a manure handling system. He said it is important to consider both storage cost and equipment cost, saying there is not enough money in manure tojustify two sets of equipment. He pointed out that milking center effluent of the cost of the total system, so if a separate system must be added to handle milking wastes, the total cost can be quite high.

He told farmers it is a challenge to them to find a system they can afford, one they can easily manage and one that doesn't cause environmental problems.

In discussing the various options available, Bodman pointed out that some require handling the manure more than once. He said further that safety factors should also be considered in the final selection.

Basically, Bodman, said, "We're ahead of the environmentalists, because we're doing things because we want to and because of good management practices.

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the handling of wastes are Farmers are more concerned about the environment than 90 per cent of the population.

He discussed the clean streams law and its effect on farmers who are considering manure handling systems. He emphasized that daily hauling will not be outlawed under the present law, so must be considered as part farmers should not be pushed into buying a system they may not want or need. Fines for polluting, Bodman said, are now much stiffer than previously.

> Bodman pointed out that dairymen operating with less than 200 head of cows need not have a permit to install or operate manure handling equipment, except in a case by case designation under current federal regulations. This means that a dairyman who is doing a good job will not be required to get a permit, Bodman said. A manual has been compiled which spells out acceptable methods of manure handling, under state environmental regulations, it will be





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