Manheim dairyman doesn't miss daily manure hauling

BY DICK ANGLESTEIN
MANHEIM — Dairy farmer Andrew Miller Jr, R2 Manheim, didn't mind this winter's frigid temperatures or brisk, biting winds one bit.

Well, at least he didn't mind them as much as he has during previous winters

coax a stubborn tractor into action every day and then climb onto the cabless seat to haul manure onto the windswept fields

operate an 85-acre dairy farm than doubled stall capacity

between Manheim and Mount Joy, ended their daily manure hauling routine when they included a gravity flow manure system into their recent barn and herd expansion

"I didn't miss the daily hauling one bit," Miller said

"It was a pleasure to come out to This past winter he didn't need to the barn on those cold days, knowing there was no manure that had to be hauled "

The gravity flow system became an integral part of the planning for Miller and his son, Lamar, who the barn expansion, which more



look out over earthen bank holding pond, gravity flow manure system.

"It was a little more than a year ago when we started planning,' Miller said

Miller was introduced to the gravity flow concept at a manure management meeting held last year by Lancaster County Extension The meeting featured a slide presentation and explanation of the gravity flow concept developed at Cornell University

County dairy agent Glenn Shirk and Roger Grout, Penn State ag engineer, also visited the Miller farm and helped with the planning

Construction was started last April and completed in August An 80 X 55-foot barn addition contains 40 stalls The older, original part of the barn has 37 stalls

A gutter-cleaner is utilized to move the manure from both sections of the barn to a holding pit at the end of the new addition

The six-foot square pit is 8 feet at the bottom. It is 13 feet deep deep and is equipped with an exhaust fan The fan provides at least two advantages

"The fan in the pit pulls odors from both the barn and the milk house," Miller explained

'Also, as it pulls the warmer air from the barn it prevents freezeups in the holding pit We had no trouble with freezing during the past winter "

A 30-inch underground concrete pipe extends 120 feet from the pit to an earthen bank holding pond

The top level of the pond is about five feet lower than the bottom of the gutter. This difference provides the necessary force for the manure to flow from the holding pit to the pond

The pond, which was designed by ASC personnel, is 100 feet square at the top and tapers to 40-feet square

Manure from gutters in the older section of the barn began moving into the pond in mid-July. Manure depth in the pond is presently about six and one-half feet Total capacity is believed sufficient to accomodate 80 cows for a year

"Excavation for the pond fitted in with the construction of the barn addition because we needed fill," Miller said

He said total cost for the pit, pipe and pond excavation was about \$9,000

'That's just about what a ram alone would have cost," Miller said

When he went to the gravity flow system, Miller switched his type of bedding. He now uses wood shavings instead of straw and each stall is equipped with a mat

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TOBACCO MEETING

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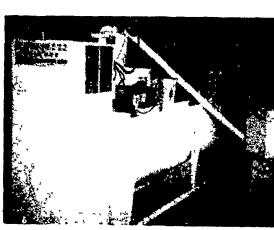


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