



Roger Angstadt stands beside the 5500 Tractor prior to the banquet. Also introduced at this program was an all new cab option that will be available on all Augusta tractors above 40 horsepower. Pikeville Equipment, Inc. was one of only 150 dealers in North America to receive a special invitation from John Deere to attend this program.

## Pikeville Rep Attends Tractor Intro

OLEY (Berks Co.) — Roger Angstadt of Pikeville Equipment, Inc. was in Augusta, Ga. the week of Sept. 11 to attend a worldwide introduction of a new tractor from John Deere.

The 73-horsepower 5500 Tractor is Deere's newest model. It is another model in a line of John Deere tractors ranging in power from 15 horsepower to 73 horsepower that are built at the Augusta factory.

## Bowl Provides Continuous Water

LITITZ (Lancaster Co.) — A new Zimmerman water bowl provides water automatically and continuously.

Larger in capacity than conventional bowls, the Zimmerman water bowl assures a continuous supply of fresh water. Cows drink from a pool of water. Air intake is reduced, overflow is eliminated, and feed is kept drier.

Made of safe, durable PVC that won't support bacterial growth and resists buildup of mineral deposits, the bowl fills from the bottom, is easy to clean and will last for years. Supported by heavy duty steel mounting brackets and clamps, the bowl is guaranteed unbreakable when properly installed.



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Two designs are available, the WB95P (with fill valve) for adaptation to existing systems and the WB95G gravity fill for new installations.

## Pull-Type Applicators Provide Flexibility

GOODFIELD, Ill. — DMI Inc. has added two new models to its nutri-plac'r® line of fertilizer applicators.

The nutri-plac'r 4300 replaces the nutri-plac'r 4250 while taking a step forward in precision application flexibility. The nutri-plac'r 3300 offers farmers the convenience and control of owning their own applicator while providing dealers an economical rental applicator.

Model 3300 offers the flexibility of accurate pull-type NH<sub>3</sub> application, preplant or sidedressed, into multiple row spacing of up to 13 rows. It is available in working widths of 22.5 feet, 27.5 feet, and 32.5 feet adaptable to 30 inch, 36 inch, and 38 inch rows in sidedressing or indexing, and fully



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adjustable single or walking tandem main frame wheels.

Model 4300 allows more flexibility for a variety of applications such as pre-plant or side-dress and precision dual placement of liquid and NH<sub>3</sub> through the use of an



At Kreider Farms, visitors and staff observe a double-4 parlor. From left, Marlan Kreider, Phil Kimmel, Bill O'Brien, Steve Deppen, Noah Kreider, Tom Dively, Phil Visser, Mark Hayner, Darryl Gross, and Gregg Gillespie.

## Farm Credit Directors Tour Lancaster County

MANHEIM (Lancaster Co.) — The group included a lemon farmer and a Texas cattleman. All 176 of the visitors, representing 40 states, toured the Amish countryside and visited Lancaster agribusiness to learn about the importance of farming to the area recently.

The 176 directors of Farm Credit banks and districts are "very impressed with the Amish life, the amount of agricultural production per acre, and the area's work eth-

ic," said Tom Welsh, director of ag marketing for AgFirst Farm Credit Bank, Columbia, S.C.

In cooperation with Keystone Farm Credit, which hosted the event, AgFirst invited the various directors to Lancaster as part of a two-day seminar on "New Expectations and Realities" at the Hershey Convention Center.

Welsh said the directors, policy leaders for their agricultural districts, were impressed with the

neatness and overall care of the land that farmers exhibit. As part of the tour, the directors visited Amish farms in the southeast part of the county, ate at a local smorgasbord, visited the New Holland plant, and toured the 1,000-cow operation at Kreider Farms in Manheim. At Kreider Farms, directors observed a double-4 parlor and watched as corn silage was packed.



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## Company Receives Patent Claims For Corn

DEKALB, Ill. — Dekalb Genetics Corporation said that it has received a notice of allowance from the U.S. Patent and Trademark Office for claims to transformed corn expressing a corn storage protein.

Expression of this protein acts to elevate the level of amino acids stored in the kernel. Corn is the mainstay of livestock diets, and with higher levels of essential amino acids, corn would be a more nutritious feed grain and require

optional 500-gallon liquid tank. The 4300 comes in 27.5 feet, 32.5 feet, and 37.5 feet widths with a 15 foot main frame. Units can be equipped with single wheels for side-dressing 30 inch rows or walking tandems for a smoother ride in rough fields.

fewer feed supplements.

"To the best of our knowledge, this is the first time that the Patent Office has allowed claims to fertile corn plants into which a preselcted gene has been inserted using genetic engineering techniques," said Bruce P. Bickner, Dekalb's chairman and chief executive officer. "This is an important milestone for Dekalb, which was the first in the industry to establish a biotechnology program in 1975, and the first to transform corn in 1990.

"Enhancing the nutritional quality of grain is a key focus of our biotechnology research," Bickner said. "We anticipate that corn hybrids offering improved feed value for swine and poultry will be on the market by the end of this

century. Since almost one-half of domestic corn consumption is used for swine and poultry feed, we believe there is a substantial market for corn with improved nutritional composition."

Dekalb is using the seed storage protein to elevate levels of methionine, an important ingredient in broiler and layer diets. The company also holds an exclusive license to a patent covering a method of increasing the levels of lysine in plants as well as an exclusive license to a patent covering plants, seeds, and cell cultures with elevated levels of tryptophan. Lysine is a key ingredient in both swine and poultry diets, while tryptophan is an essential amino acid in swine feed.