

# More Thought Going Into Getting Most Out of Manure

(Continued from Page 6) the liquids into the soil by various means. Some of the engineers and soils men have figured out how to handle and distribute them through irrigation channels and sprinklers.

But J. D. Blucke, Ohio State Extension Engineer, cautions not

to sell the manure spreader short. He, along with most other extension people, think it will be used on farms for quite some time.

Researchers at the University of Delaware agree. They found manure, spread from barns and feedlots, not only improves the tilth of the soil, it also reduces

the amount of fertilizer needed on the sandy soils of their state, and increases nutrient availability to plants.

Equipment manufacturers are giving some of the answers to help farmers satisfy complaints of their rural non-farm neighbors. Engineers at New Holland, the farm equipment division of Sperry Rand Corporation, have developed a spreader equipped with special rubber seals on the bottom and sides of the endgate to keep manure in the spreader when traveling to and between fields. The design not only keeps roads and highways clean; it saves the farmer money by eliminating loss of manure.

At the University of Wisconsin, a three-man team of agricultural engineers studied the cost advantages and disadvantages of three different methods of handling manure from stall barns and free stall housing.

In Kentucky, livestock grown in the state produce a mountain of manure — about 16 million tons. Based on its nitrogen, phosphorus and potassium content, University of Kentucky researchers estimate its potential value at more than \$17 million.

Half or more of this accumulates in barns, feedlots and loafing areas, the researchers say. If manure can't be spread frequently, tight-walled manure pits, or deep, well-packed piles with straight sides should be used.

Where spreading is done infrequently, they recommend plowing or disking the manure into the soil immediately after it is spread. This will also help cut nutrient losses sharply, researchers point out.

Stanley Witzel, University of Wisconsin agricultural engineer, says the growing need for modern structures and methods for animal manure storage could further raise dairymen's already rich cost of operation. He thinks this is an unfair burden to place entirely on the shoulders of the farmer, and advocates government cost sharing and a unified approach to the pollution problem by industry, government, urban groups and agriculture.

Witzel proposes that government help farmers with the waste storage problem in much the same way it shares the cost of dams, terraces, ditches, special cropping methods and other soil and water conservation structures and practices.

In short, manure is still a valuable by-product of livestock production and the important question is not how to get rid of the waste, but how best to use it.

## PUBLIC SALE OF FARM EQUIPMENT

MON., MAR. 15, 1971

Will be offered at Public Sale at M. M. Weaver and Sons Farm Equipment Store, Massey-Ferguson Sales and Service, 4 miles west of New Holland on Route 23, one and one-half miles northeast of Bareville, on the North Groffdale Road, or 10 miles east of Lancaster on Route 23, one mile on the right, opposite the Groffdale Mennonite Church, the following, to wit:

### TRACTORS

We expect 40 by day of sale

Massey-Ferguson 1130 Diesel; 1100 Diesel; 180 Diesel; 175 Diesel; 85 Gas; 165 Gas; 65 Diesel; 35 Diesel; 35 Gas; Ferguson 30; John Deere 2010 Gas; MT with Cultivator; Farmall 340; 300 with Loader; 230 with Cultivator; Farmall M; Farmall H; W9; Oliver 1600 Diesel; Oliver 770 Gas; 77 Diesel; Caterpillar D2; Case 800 Diesel; Ford 801 Diesel; Massey-Ferguson 12 Garden Tractor; Massey-Ferguson Snowmobile; New P.T.O. Snow Blower.

### HAYING & HARVESTING EQUIP.

Fox Self Propelled Super D Forage Harvester with GM 471 Diesel Engine, Massey Ferguson 300 S P Combine, New Holland 975, IH 403 MF 82 with corn head, MH 90 Special, New Holland 68 Baler, MF 33 Grain Drill, John Deere 14T Baler, MF 31 Dyna-Balance Mower, Allis Chalmers Haybine, Forage Wagon Box, Rear Unloading Unit, 8-ft Corn Drag, New Holland 800 Forage Harvester, New Holland Hay Crusher, 2 Wagon Hoists; Bale Thrower, New Grove Wagon, Badger Forage Harvester; New Idea 1-row Corn Picker New Holland 717 Forage Harvester with 1-row corn head and pick-up attachment 7 Ton flat-bed Wagon

Hawk Bilt Spreader; Brady Spreader; Long Spreader, IH 125 Spreader, Sauder Loader, Oliver Loader, Sauder Loader with Hydraulic Bucket.

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Massey-Ferguson 3 - 14" Spring Trip Plow, John Deere 5 - 14" Spring Trip Plow, John Deere F130 3 - 16" Plow; Oliver Spring Trip 3 - 16" Trailer Plow; Oliver Spring Trip 3 - 16" 3-pt. Plow, IH 2-pt 3 - 14" Plow; Oliver Spring Trip 2-way 3 - 16" 3-pt. Plow; New McConnel Plow Packer; M M 4 - 16" Plow

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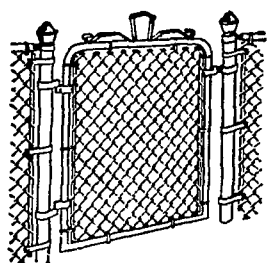
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Monday, March 15, 1971. When terms will be made known by

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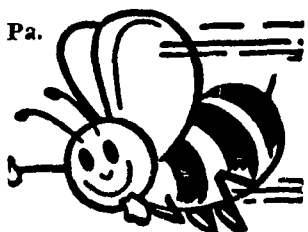
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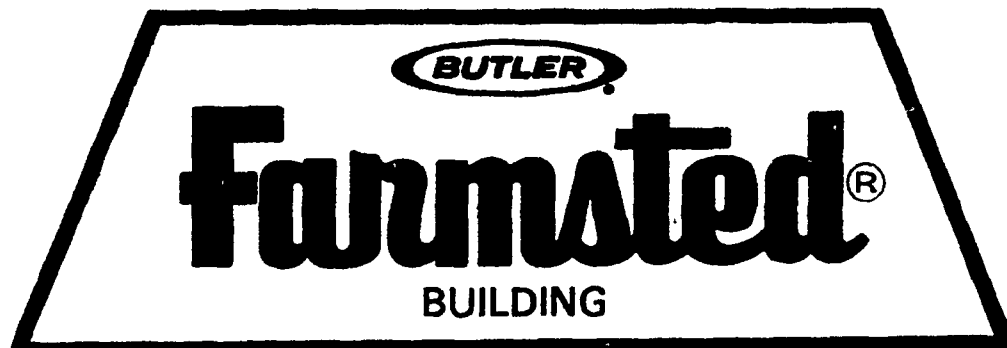
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