

### English Company Making Manure Pump Rig

An English company is manufacturing a machine which spreads chopped-up, water-down farmyard manure by pipeline, according to the British Information Services.

The tractor-driven machine is said to be able to pump manure distances of up to a mile.

Here's how the system works: A concrete tank is used to collect the manure with farmyard drainage. An agitator paddle is used after water is added, unless the manure is fluid. Long straw is chopped by a mixer cutter so the straw and liquid can pass through a piston pump.

The manure is distributed with ordinary irrigation pipelines and is showed over about an acre of land at the delivery end.



THREE FLYING FARMER officers check their routes in preparation for the nation convention to be held next week in New York City. They are, left to right, L. L. Logan, Kennett Square, regional director; Homer Maxon, Holey, N. Y., New York

state president; and H. Gail Kimmel, Enon Valley, Pennsylvania president. They were among some 120 flying farmers who recently attended an area meeting held at the Logan farm.

### False Heat

#### Periods Studied

A 22 year study by two California researchers of more than 3,000 dairy cattle shows that almost five per cent of the cattle came into a false heat following conception at some period of their reproductive life.

The study by D. F. Rahlmann and S. W. Mead, of the University of California, implies that dairy men should take special precautions before re-breeding an apparently barren cow.

False heat occurred within 45 days of conception in more than half the cases, but also occurred at any time from 11 to 213 days after conception. The study showed post-conception heat is almost twice as likely during the first gestation period as in later periods.

Highest number of false heats occurred during July and the lowest during April.

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### Started Pullet Raising

(Continued from page seven)  
needed.  
THE REST OF the farm enter-

prise consists of steers, a small flock of layers and field crops. Garber said that is best not to mix birds of different age groups but that sometimes it is almost unavoidable.

This brings up one of the greatest draw-backs to the business. As noted, the grower is a complete free agent. He must find a buyer for his birds. When a sale is lost or the buyer decides at the last minute that he does not want the birds, the grower is stuck with them.

One large grower in Tioga County has solved this problem by operating two farms. On one the pullets are raised. On the other he maintains a large laying flock. This physical separation keeps down the disease possibility and he can, if needed, use the extra pullets in his own flock.

**THIS, GRANTED,** is an extreme example, but in this particular case it seems to pay.

Hatcherymen are still both pro and con on raising started pullets. They like to see the extra volume of chicks go out of the hatchery to be sure. But they point out that a poor grower can harm the reputation of the hatchery.

And often the grower looks too much to the hatchery for help in marketing the birds. This means that the costs of selling the chicks is actually increased because of the extra time and work involved.

**TO GET INTO THE** business, the farmer should have good equipment, including transportation equipment to deliver to the customer. Because of the stress involved in changing the birds from farm to farm, every effort should be made to keep down exposure to disease.

This means that new coops should be used, or if the farmer must use old coops, they should be thoroughly cleaned and disinfected. The man receiving the birds should try to have the same type of feed on hand that the birds are used to receiving or should use a special stress feed. This too, tends to keep down stress mortality.

This seems to be a growing business that can and will be developed in this area. As more

cage operations are started and as more farmers feel that they can save money by reducing equipment and facilities costs, the business will grow.

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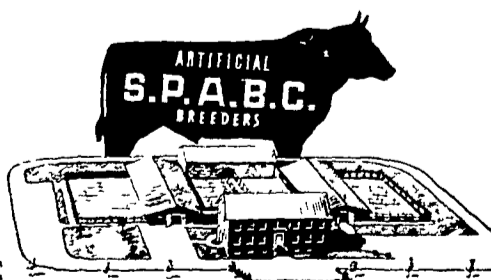
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