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## GOOD SIZED HERD NEEDED FOR PROFIT IN BEEF OPERATION

One of the main problems of organizing a profitable beef cattle farm is production of an adequate gross income, according to Dr. Karl T. Wright, Michigan State College agricultural economist.

It may look easy to the outsider, when each brood cow drops a calf that will sell as a feeder for around \$100 by the time the snow flies. But Wright says records kept by northeast Michigan farmers on beef herd operations do not show it quite so simple.

Most successful farmers have gross incomes of at least \$8,000 to \$10,000 in order to cover the expense of operation and provide an adequate net income, Wright says. It takes a sizeable herd to make a profit-producing farm operation. One year of bad luck in breeding, or the loss of a brood cow or a few calves will soon wipe out any chance of profit on a small operation.

Average feed requirements for maintaining a beef cow for a year on Michigan farms equates seven months of pasture, nearly 1.5 tons of hay and nearly a ton of other roughage. Around 12 hours of labor is required to care for one animal during the year.

Wright believes that some other livestock enterprise or some type of cash crop farming needs to be tied together with beef cattle production for efficient and profitable operation in Michigan. The exception would be where acreage is available for a large beef breeding herd.



**BEARDED BANTAM**—Despite the reassuring hand of Jane Palmer, this bearded whistling Polish bantam hen had nothing but scowls for the photographer. Owned by H. R. Hartman of Downey, Calif., the haughty hen will be shown at this year's Los Angeles County Fair along with rare and fancy birds from all over the world. More than 200 varieties of 53 breeds of poultry will be on exhibit.

## Advise Pigs Be Vaccinated Early

Reports of hog losses have been increasing in the past two years, advises Dr. B. J. Kilham, Michigan State College extension veterinarian. The trouble seems to be in connection with, or following, vaccination against hog cholera.

Investigations in Michigan indicate that losses are largely confined to sows or older hogs. Pigs vaccinated before weaning are rarely affected.

Preliminary research work by Dr. H. W. Dunne, animal pathologist at Michigan State College, appears to indicate that there are possibilities of variations in the virus used in vaccinating against cholera. Adjustments will have to be made in the serum to care for these variations. Much research in this connection is underway at present.

Dr. Kilham reports that vaccination hazards can be reduced by confining vaccinations, if possible, to pigs about six or seven weeks of age before weaning. At this age the pigs are in the best physical condition to withstand vaccination. They are not weakened by worming, nose ringings, changes in diet or other factors. The nursing pig is furnished with a certain amount of natural resistance to cholera by the sow's milk, however, is not sufficient to interfere with the immunizing process.

Veterinarians questioned about hog losses have invariably stated that when pigs are vaccinated before weaning there is no trouble. So Dr. Kilham says the moral at this time is "vaccinate early".

Want Ads Cover and Discover  
A Multitude of Needs

## New Poison Gives Good Rat Control

Farmers and others who are used to quick-killing rat and mouse poisons will find that the new poison "warfarin" is slow but sure, says B. D. Kuhn, state agricultural extension leader at Michigan State College.

Warfarin, according to extensive tests by federal and private agencies, promises to be an important rat-killer for farm use, though it is not a fast killer like red squill. It requires several days for warfarin to work. Rats and mice need to eat only a small amount each day for about five days before death occurs.

The poison is odorless and tasteless and once rats start eating it, they do not stop until they are too far gone. For this reason, many may die unnoticed in their burrows in the ground.

County agricultural agents are reporting that warfarin gives farmers one of the best tools to use in getting rid of rats and mice. It can be used safely on farms if reasonable precautions are taken to keep it out of the reach of livestock and pets.

Several manufacturers make the new poison, which was developed by research at the University of Wisconsin.

Rat and mouse control still remains a four-point program, Kuhn advised. First, kill the rats and mice; secondly, take away trash in buildings and yards in which rats and mice live and breed. Next step is to make foundations, feed rooms and bins rat and mouse-proof. The fourth and most important step is the maintenance of neat, clean buildings and yards to discourage this vermin.

## MSC Veterinary School Named Giltner Hall

Michigan State College's new veterinary medicine center will be named Giltner Hall in honor of the late Dr. Ward Giltner, dean of the School of Veterinary Medicine from 1923 to 1948.

Dr. Giltner, who served the college for 40 years, was dean emeritus of the veterinary school from 1948 until his death, July 14, 1950. He was MSC's second dean of veterinary medicine and was succeeded by Dr. C. S. Bryan. Under the direction and inspiration of Dean Giltner, the veterinary school at MSC gained recognition as one of the top schools in the nation.

Classified Ads Bring Results

## IF YOU'RE PALE AS A GHOST!

When your skin has a pallor (sallow complexion) with that faded-out look, or your nerves are jaded and you have that "sallow" look, it is usually due to one thing, that is:

### BLOOD POVERTY

Your blood cells may be fagged-out or shrunken, and you might not realize it. Even if you eat the "best" foods you may not be getting all the good out of your meals simply because you have SLOW Digestion, without knowing it (or gassy stomach) and as a result you are a victim of Blood Poverty! In other words, your blood is not getting the fullest good out of what you eat. So your blood-cells become worn-down and you have only half as much energy as you really need, you get up in the mornings still tired, and your nerves become dull.

Hundreds here in Farmington suffered with "faded-out" blood and stomach gas until they got CERTA-VIN. This is the new medicine containing 12 herbs blended with Vitamin B and Iron; you take it before meals and it works with your food. Benefits come quickly. Your food digests FASTER, with less gas, and you get more good out of your meals. In a few days your blood is energized with new red cells and your nerves become stronger. Weak, rundown people tell they soon feel different all over. And best of all, our price on CERTA-VIN is reasonable. You can actually take this New, modern medicine for only a Few Cents a Day! So don't go on feeling half-sick and half-well. Get Cert-A-Vin—Smith-Bradley Drug Store adv.

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Having decided to discontinue dairy business, I will sell at public auction, located 4 miles south of Farmington on Farmington Road, then 1 mile west at 35601 Six Mile Road.

**Saturday, October 21**

1:00 O'clock

**DAIRY CATTLE**

HOLSTEIN COW, 7 years old, Freshened in July, not bred  
HOLSTEIN COW, 7 years old, due November 1.  
GUERNSEY COW, 5 years old, freshened August 17.  
GUERNSEY COW, 6 years old, freshened July 2.  
HOLSTEIN COW, 10 years old, freshened September 20.  
HOLSTEIN COW, 9 years old, due November 6.  
GUERNSEY COW, 6 years old, freshened July 15.  
GUERNSEY COW, 9 years old, freshened August 15.  
GUERNSEY COW, 6 years old, due soon.  
HOLSTEIN COW, 7 years old, freshened September 24.  
HOLSTEIN COW, 8 years old.  
HOLSTEIN COW, 6 years old, freshened September 12.  
HOLSTEIN COW, 5 years old, due November 15.  
HOLSTEIN COW, 9 years old, freshened in March.  
HOLSTEIN COW, 5 years old, due in December.  
HOLSTEIN COW, 7 years old, freshened September 15.  
JERSEY COW, 4 years old, due January 5.  
JERSEY COW, 7 years old, fresh.  
Good Grade HOLSTEIN BULL, 16 months old.

### Farm Tools

Farm Wagon  
Two Horse Box  
Six Tooth Barrow  
Case Mowing Machine  
Oliver Churn  
Horse Plow  
Shovel  
Star Horse Cultivator  
Corn Planter  
Wheelbarrow  
Three Section Spring Tooth  
Siney Spoke Tooth Drag  
Star Potato Digger  
1 Roll Wire Fence, 6 in. Gauge  
100 ft. 1 inch Rope  
100 ft. 7/8 inch Rope  
Bulldozers, 2 Tractors  
Montgomery Ward Wagon, rubber  
Tires and Back  
100 Lillian Bags  
100 Lillian Bags  
Case Hand Water Sprayer  
1 600 lb. Iron Sled  
Drop Tail Gate for Standard Box  
Truck

### Dairy Equipment

Delaware Machine Makers  
12 Milk Coolers (overhauled)  
Case Mowing Machine  
International 1 Case Milk Cooler, 3  
Months old  
Case Alfalfa, Pails, Strainers  
12 Milk Cans  
Electric Dairy Hot Water Heater

### Hay and Grain

200 Bales Wheat Straw  
260 Bales Timothy Straw  
100 Bushels Oats  
100 Bushels Corn

### Horses

2 Horses  
1 Double Harness

### Chickens

40 Yearling Hens, Austria Whites

### Household Items

Thor Ironer, Ironing Board, Table (2 leaves extension) Laundry  
Stove, Philips Cook Stove, Large Heating Stove, Small Heating  
Stove, Large Ice Box, Gasoline Range.

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## Rural Tele-news



**BARK THAT BITES**—To test various types of insulating coatings for telephone wires, Bell Laboratories maintain a dense birch forest in New Jersey. Wires strung through the forest show how different materials resist the rubbing action of tree limbs under actual outdoor conditions.

**TIME WAS** when the horse and buggy offered rural families and friends the only means of visiting back and forth. With the telephone, "visiting" without leaving the farm became possible. Now, extended area service, which permits subscribers in certain neighboring communities to call one another without a specific toll charge, is bringing telephone users on the farm even closer to their social and marketing centers. By the end of this year, over 200 Michigan Bell exchanges will have this new service.



**USEFUL... AND FUN**—A survey shows that more than half the farm families served by Michigan Bell use their telephones for reaching the doctor, dentist and veterinarian, and for ordering parts, repairs, feed and supplies. "Visiting" with friends and arranging church and social activities are high up on the list too.

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