#### GOSSIP.

HOG CHOLERA, AND VACCINATION AS A PREVENTIVE TREAT-· MENT.

Reports from various parts of Kansas indicate the great prevalence of the disease of hog cholera in this State at the present time. The Experiment Station is daily receiving letters of inquiry relative to the prevention of this disease.

Probable Causes of Prevalence at this Time.-Hundreds of farms in Kansas have become infected with this disease during the last few months. Increased prevalence of the disease during the present season may be attributed to the excessive rainfall during the past spring and summer. Under such conditions the hogcholera virus has been washed from infected pens and farms into rivers and small streams, these tributaries having emptied into larger streams and flooded districts, thus sweeping the infection over large areas. Other means of dissemination such as dogs, birds and the boots of stock-buyers, have doubtless contributed their share toward the wide distribution of the disease.

Precautions Against the Disease.-The greatest care should be exercised to keep the infection from entering healthy herds. If the disease is in the immediate locality, stray dogs should not be allowed in the hog lots or pastures. To eliminate as much as possible, infection from birds, the hogs should be fed in covered enclosures. Stockmen and buyers should not be allowed to enter the premises without first thoroughly disinfecting the shoes with some such germicidal solution as carbolic acid. The hogs should, under no consideration, have access to a stream which is fed from water running through other farms. No newly-purchased hogs should be placed with the general herd until they have been kept in quarantine for two or three weeks. Plenty of airslaked lime should be used about the hog houses and feeding places.

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#### VACCINATION.

The Bureau of Animal Industry, U. S. Department of Agriculture, has recently perfected a vaccine known as "Dorset's Hog Cholera Vaccine." It consists of (1) immune serum (blood serum drawn from a hog which is immune to the disease) and (2) hog-cholera virus (blood serum from a hog suffering from the disease). The two substances are injected simultaneously into the healthy hog. Experimental evidence shows that this method of vaccination is efficient.

"Dorset's Hog Cholera Vaccine" has some disadvantages. (1) These serums, both the immune and the hog-cholera serum, are expensive, because they are obtained from hogs, which, in comparison with other domesticated animals, yield only. a small amount of blood serum. Under these conditions this process involving the killing of hogs to save hogs, when put into practice, is very expensive. (2) The danger that might follow the broadcast distribution of hog-cholera men will be at least partially subdued, virus, in some instances among careless as a result of the increased attention to uninformed farmers, cannot be ignored.

## KANSAS EXPERIMENT STATION

Kansas Station has, during the past year, conducted a line of experimental work in an attempt to produce a practical hog-cholera vaccine. The general scheme of the work has been to attenuate or so modify the hog-cholera virus by passing it through a horse that it will successfully vaccinate a healthy hog against the disease, but will not produce infection. Three horses and some twenty hogs are at present under observation, and during the fall months some field work will be undertaken. The following conclusions have been suggested by the

results so far obtained: 1. Hog-cholera serum exerts a toxic influence upon a healthy horse when injected intravenously.

2. The blood serum from a horse, drawn a few hours (3-6) after the animal has received in the veins 75 to 150 cc. of hog-cholera serum, is as virulent as the original hog-cholera serum, producing typical symptoms healthy hogs. In some cases horse ser- has a few nice yearling Shropshire rams, um, drawn 3-6 hours after the animal good flock-headers. If interested, write has received intravenously a dose of hogcholera virus, produces in healthy hogs advertisement in this issue.

a more acute form of the disease than |

3. The blood serum of a horse drawn 24-72 hours after the animal receives an injection of hog-cholera virus intravenously, shows attenuated properties and into healthy hogs. It also, however, in most cases, produces a reaction in the temperature of the healthy hog five to twelve days after the inoculation.

4. Twenty - four - hour horse serum (drawn from the horse 24 hours after the animal was injected intravenously with hog-cholera serum), when injected into healthy hogs, exhibits protective properties against, the disease.

A bulletin is in process of preparation which will explain the above experiments WALTER E. KING, Manhattan, Kan. Bacteriologist.

#### SHEEP TO FIGHT RAGWORT.

In the Maritime Provinces sheep are fast becoming a popular part of the livestock world, because of their value in eradicating ragwort, a weed that has been found to cause serious sickness among cattle. According to J. B. Spencer, of the Live-stock Branch, Department of Agriculture, Ottawa, this disease was for some time considered to he contagious. Investigation revealed the fact that it never should have been classed as being contagious, as it is now known to be due to the cattle eating hay in which ragwort is abundant. This con dition of affairs was discovered on a farm opened by Dr. J. G. Rutherford, at Antigonishe, N. S. It was found that sheep could eat it either in pasture or hay, without ill effects, and with the former treatment the weed soon was eradicated.

The districts infested by ragwort are found chiefly surrounding Antigonishe and Pictou, in Nova Scotia, and at the east and west ends of Prince Edward Island. Last spring seventy - seven pure - bred shearling rams were selected by Mr. Spencer and sent to these districts. They were chiefly Shropshires and Oxfords, but a few each of Cotswolds, Leicesters and Lincolns. The selections were made on the recommendations of the Maritime mutton-raisers. In addition, twenty-five well-developed lambs were purchased in the Maritime Provinces.

To further encourage the sheep-raising industry, sales are being arranged at which Mr. Spencer will be present. On September 30th, at Pictou Fair thirtyfour fine lambs were to have been sold. At Antigonishe on October 14th, an equal number will be disposed of. On October 1st, at Souris, P. E. I., 14 are to be sold, and again on October 3rd, 15 are to be on sale at Summerside, P. E. I.

The sheep-raisers of those localities are very much interested in these sales. Great results are anticipated for the sheep industry of the Maritime Provinces. the same time a weed that has been causing great annoyance with the cattlesheep husbandry.

### SELF-SUCKING COWS.

For the benefit of those that have cows The Bacteriological Department of the that suck themselves, Sylvester Klinker, lace's Farmer. He claims it is a sure cure, as he has used it for over thirty "Take an ordinary bridle bit, years: jointed in center, and bridle the cow just as you would a horse, using strap, rope, or anything to keep bit in mouth. This ends all trouble, with no inconvenience to the cow. Publish this for the humane part of it, as I see so many cruel and many bunglesome contrivances used."

> The time has arrived when the tests of cows must be real tests in order to command the slightest attention from commercial milk-producers, who are starting in to breed up or to pure-breed their herds. The "private" tests may be all right, but dairymen are not looking for tests of that sort. The breed that puts out real tests is going to do the business in the near future.

Mr. John Robertson, Wyoming, Ont.,

# Dairy-bred Shorthorns By Auction

ON TUESDAY, OCTOBER 20th, 1908,

At his farm, 2 miles south of Whitechurch station (G. T. R.), and 5 miles west of Wingham (C. P. R. and G. T. R.), Mr. David Clow will sell by auction 28 Head of strictly Dairy-bred Shorthorn Cattle. This offering is one of the best dual-purpose lots of Shorthorns in Ontario. Big, thrifty cattle, every one a money-maker. Terms: 3 months on bankable paper, or 6% per annum off for cash. Conveying and Wingham stations veyances will meet trains at Whitechurch and Wingham stations.

JOHN PURVIS. Catalogues on application to: David Clow, Whitechurch, Ont.

#### Shorthorns, Cotswolds, Berkshires.

In Shorthorns, over 50 head—cows, heifers and calves from 2 to 8 months. In Cotswolds, shearling ewes and ram and ewe lambs. In Berkshires, a few young sows. For Sale: 2 young bulls and 10 heifers, sired by Aberdeen Hero (imp.) = 28840=. Some bred to the Lavender bull, Lavender Lorne = 68706=.

Chas. E. Bonnycastle, Campbellford, Ont.
Post Office and Station.

Spruce Lodge Shorthorns and Leicesters. In Shorthorns, we are offering young bulls and heifers, by imp. sires and out of heavy-milking dams. In Leicesters, we have a grand lot of shearling rams and ram lambs, and one and two year old ewes of No. 1 quality. W. A. DOUGLAS, TUSCARORA P. O., ONT. Coledonia Station.

Athelstane Shorthorns Three choice bulls and a few heifers; low-down, thick-fleshed sort, of noted families, and mostly sired by Star Prince =53900=. Prices very

WM. WALDIE, Box 324, Stratford, Ont.

6 bulls and 2 heifers for sale. Bred from imp. and home-bred stock. A number of young cows safe in calf. Present stock bull, Starry Morning. C.D. WAGAR. Enterprise, Ont. Stn. and P.O. Shorthorns, Lincoins and Oxford Downs—Improved to the Story Protector heads herd. For sale: Young bulls and cows; also ram lambs and ewes. All at reasonable prices.

JOHN McFARLANE & W. H. FORD.
P. M. and M. C. Rys.

Box 41, Dutton. Ont.

WM. GRAINGER & SON, Londesboro, Ontario.

HAWTHORN HERD

OF DEEP-MILKING

**Shorthorns** 

MAPLE GROVE

SHORTHORNS

# Farmers and Cattlemen, Read This!

When you cannot sell your export cattle at satisfactory prices at home, and wish to ship them to the Old Country markets, write or wire for steamer space, market and shipping information to

the Old Country markets, write or wire for steamer space, market and shipping information to Denald Munre, Live-stock Fordwarding Agent and Commission Salesman, 43 St. Sacrament St. Montreal.

Load your cattle carefully, and bill them to me. I provide the necessary feed, insurance, etc., pay freight and all other expenses from shipping point, and give liberal cash advances on all consignments. Cattle are loaded on steamer under my personal supervision, and placed in charge of capable attendants for the ocean voyage. I represent the most reliable salesmen at all the different British markets.

BUSINESS ESTABLISHED 1890. REFERENCES: THE MOLSONS BANK, MONTREAL

### **Brampton Jerseys!**

Select your stock bull or family cow from Canada's most famous and largest Jersey herd.

B. H. Bull & Son, Brampton, Can.

We are now offering a number of heifers of all ages, out of producing show stock, and by champion sires, and in calf to Fontaine's Boyle. Also several yearling bulls out of high-class cows, and by same sires as the heifers. The best lot of young things we ever had for sale. Duncan Station, C. N. R.

D. DUNCAN, DON, ONTARIO.

W. Willis & Sons, Pine Ridge Farm. Breeders of registered high-class JERSEY CATTLE. Stock for sale of both sexes, and reg. Cotswold sheep. Correspondence solicited.



### THE GOLDEN LAD BULL.

Golden Fox of Dentonia. First-prize yearling and junior champion at Toronto, 1907, Exhibition. His calves coming from my pure St. Lambert cows proves this cross a wonderful success. Correspondence invited.

T. PORTER, Weston Road, Toronto Junction.

JERSEYS We have the get of Ethel's John, a 75
FOR SALE per cent. Mary Ann of St. Lambert
bull; also of Minette's Star, a son of Brampton
Minette, Brampton Monarch (imported), Blue
Blood, and Financial King. Write for what you
want. H.S. Pipes & Son, Amherst, Nova Scotia.

Ayrshires—Oldest-established herd in Ontario.
herd, 4.2; milk yield, 40 to 60 lbs. a day. For sale:
Females of all ages, and several young bulls, all by
imp. sire, and some out of imp. dams.

JAMES BENNING, Williamstewn P.O., Ont.

Lancaster station.

## Burnside's Champion Ayrshires

My 1907 importation of 75 head being about all disposed of, I ampreparing to import again. Mr. And. Mitchell, the world's most extensive dealer and breeder of Ayrshires, is at present securing for me the best young bulls from the best herds in Scotland. Send in your order now for a choice bull and a female or two. Bulls will be out of quarantine in time for spring service. Correspondence solicited. Long-distance phone in house.

R. R. NESS, Howick, Que.



Hoard's Sta., G. T. R. Telephone in house.

Wardend
Present offering: 1 two-year-old, 2 yearling bulls, and choice lot of spring calves from good milkers.

F. W. TAYLOR, Wellman's Corners, Ont. Hoard's Sta., G. T. R. Telephone in house.

SPRINGBROOK to large milk and butter production, coupled with vigor of constitution, and being true to type. A few bull calves of 1908 for sale.

W. F. SIEPHEN, bull calves of 1908 for sale.

Box 163, Huntingdon, Que.



# Springhill Ayrshires!

A better lot of young cows and heifers we never had. They have only to be seen to be appreciated. "Deep milkers." "Good teats." Just the kind for foundation stock. Bull calves from best cows. Will leave for Scotland shortly to import. Order a choice yearling or bull calf or a female or two. They will be out of quarantine for spring service. Write for prices. Long-distance phone.

ROBERT HUNTER & SONS, Maxville, Ont.

For sale: 75 pure-bred registered Ayrshires, all ages; prizewinners; many imported. Apply to LLAN P. BLUE, Eustis, Quebec. Dundas Station and telegraph. Clappison, Out. ALLAN P. BLUE,

HOWGLEN AYRSHIRES! AYRSHIRES Bull and heifer calves from producing dams. Right good ones.