12.50

# **Breeders' Directory**

CARDS under this head inserted at the rate of \$6.00 a line a year. No card

#### SHEEP

# FORSTER FARM, Oakville, Ont., Breeders of Dorset Horn Sheep. Registered Stock for sale. Correspondence cheerfully answered. See large ad. 0-81

J. C. ROSS, Jarvis, Ont. Cotswold Sheep Prize-winners at America's leading shows. Im-ported and home bred. Also some good Clydesdale Horses. 66-15 Clydeedale Horees.

JNO. COUSINS & SONS, Harriston, Ont., C.P.
R. and G.T.R. Oxford Down Sheep, Short-horn Cattle, Yorkshire Swine. Stock 64-516

64-16

GEO. B. ARMSTRONG, Bowhill 8 Teeswater, Ont. Leicester Breed

PETER ARKELL & SONS, Toeswater, P.O. an station, C.P.R., Mildmay, G.T.R. Oxfor Down Sheep, show-ring and breeding stoel imported and home-bred. 68-15

THOS. ARKELL, Teeswater, Ont., sta. C.P.R. Mildmay, G.T.R. Choice breeding stock, Or ford Down Sheep. 0-8-15

TOLTON & SONS, Walkerton, eeders of Oxford Down Sheep and S rn Cattle4 young breeding stock for se JNO. AYER & SON, "Belowart Farm," Bo-manyille, Ont., Breeders of Southdown 04-15

SAMUEL CUDMORE.. Hurondale, Ont. importer and breeder of Dorset sheep. E-10-15

#### SWINE

CHAS. CURRIE, Morriston, Ont., breeder of choice Tamworth Swine. Stock for E-11-09 OS. FEATHERSTONE & SON, Streets-ville, Ont. Large Yorkshire and Essay hogs for sale E-11-05

LORNE FOSTER, "Glenhodson Stock Farm, Myrtle, G. F.R. and C.P.R., breeder of York shire Swine. Young stock for sale. 0-0-15

D. DOUGLAS & SONS, Mitchell, Ont., b ers of Tamworth Swine. B. Turkeys, ouse Geese, Pekin Ducks and st. C. W. horns. Correspondence invited.

A. A. COLWILL, Newcastle Ont, (successor to Colwill Bros.). Shorthorns and Tamworth Swine. Choice young stock for sale. 0-7-1

#### CATTLE

FITZGERALD BROS., Mount St. Louis, Ont., breeders of Shorthorn Cattle and Shropshire Sheep. Offering great bargains now. Long distance telephone.

CHAS. GROAT, Brooklin, Ont., breeder of Clydesdales and Shorthorns, Gloster, Mead

A. J. WATSON, Castlederg, Ont., breed Scotch Short Horns. 9 young bulls for so 0.9.15

A. P. POLLARD, Shadeland Stock Farm, Canton, Ont., breeder of Shortherns and Berk shire Swine. Young stock always for sale Ruyal phone.

BERTRAM HOSKIN (Mt. Pleasant Farm), The Gully, Ont., Breeder of Holstein Cattle, Tam-worth Swine. High-el-se young stock for sale. Long distance phone. 6-11-1

O. CLIFFORD; "The Maples," Oshawa, Ont. Breeder of Herefords. Stock for sale. Long distance phone.

E. MEADOWS, Port Hope, Ont. Short orns, Matildas, Isabellas, Gloster, Lady Ann amilies. Choice young stock for sale. 0-8-15

JOHN PRYDON, Milverton, Ont., G. T. R. Breeder of Shorthorn cattle. 0-8-15

JAS. ROBERTSON & SONS, Willow Bank Farm, Milton, Ont., Breeders of Shorthor. Cattle, Dorset Sheep and Berkshire Swine. 6-16-15

GEO. B. ARMSTRONG, Bowhill Stock Farm Teeswater, Ont., Imported and Homebre Shorthorns for sale, 0-8-15

JOHN GARDHOUSE & SONS, Highfield, Ont.

#### **MISCELLANEOUS**

J. T. GIBSON, Denfield, Ont., Station G.T.R Imported and Home bred Scotch Shorthorns Choice breeding stock in Lincoln Sheep. -0815

H. BARTLETT, Kimbo P.O., Ont., Lin Co., Riverview Stock Farm. Shorthorns Dorset Sheep.

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AYRSHIRES Of the Highest Dairy Type and of the Choicest Milking Strains FOR SALE—At all times young stock of both sexes. Enquiries by mail romptly answered. R. C. Clark, Hammond, Ont. 0-9-23

STONE HOUSE STOCK FARM Importer and Breeder of Clyde data breeze and Arrhite cattle Stock of all agree for sale, including choice young bulls. Enquiries promptly answered and astisfaction guaranteed. Heoter Gurdon, knowlet, quobes

THE STEVENS DAIRY FARM Broader and Importer of High-class Holstein FOR SALE—Bull calves, ready for service sired by Sir Alta Posh Beets, also a number of young cows. Wm. C. Stevens, Philipsville P. O. Leeds Co., Ontario.

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I HAVE FOR SALE Pigs of all ages, both sexes, from eight weeks to eight months old, sired by such Stock Boars as Woodstock Laddie and Polgate Doctor's Rival. All true to type and prize-winning stock. Call and see or write for prices.

DOUGLAS THOMSON, Woodstock, Ont. C.P.R. & G.T.R.

SPRINGHURST FARM BERKSHIRES-Pigs of all agrs from imported stock of the cholcest breeding and individual sceellence. Satisfaction guaranteed.

JOHN ELLENTON & SON, Hornby, P.O. Milton Stn., G.T.R. and C.P.R. 0-10-28

### FAIRVIEW BERKSHIRES

Young stock for sale from Imp. and Canadian bred stock, bred on prize win-ring lines fr m choice individuals, come and see them or write to HENRY A. MASON, Szarboro, Ont.

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A grand consignment of Imp Stallions, Mares and Fillies

Received from R. Moore & Sons. Now for sale at right prices. Also a choice lot of Shorthorns and Lincolns.



Long Distance Weston Station, Phone G.T.R. & C.P.R.

Experimental Farm

The feeding of cattle outside for the production of beef has been re-ceiving considerable attention of late at the hands of Manitoba cattlemen. The strongest advocates of this me-thod of producing beef are men who have been successfully practising it for a number of years and those who have seen it in operation. The con-ditions of outdoor feeding are so radically different from those that have been generally considered essential that the majority of cattlemen are sceptical about it, while many others look upon the practice as ludicrous, and aver that it must involve a wanton waste of feed.

Last fall some work was started to get definite information on the com-parative economy of making beef in a comfortable stable and in the open a comfortable stable and in the open with comparatively little shelter. The first lot of steers, thirteen head, has just been marketed and the results are available.

Thirteen steers were purchased late in November and divided into late in November and divided into two groups as nearly alike as possible in size and quality, eight being de-horned and put outside, and five (as many as we had accommodation for) tied in the stable. The steers were domestic purchased in the neighbor-hood of Oak River, and cost 5½C shall shrunk. The inside group were start-ed on December 3rd, on a standard ration that has given good results here for a number of verse for beef here for a number of years for beef production. This consisted of silhere for a number of years for beer production. This consisted of silage, straw, hay, a few roots and grain. The grain ration at the start consisted of 2 lbs of a mixture of oats, barley, and feed wheat, and 2 lbs, of bran per steer. This was increased from time to time until by the 1st of April each steer was re-ceiving daily 10 lbs of grain and 2 lbs of bran. The steers were not out of the stable after being tied up until they were sold.

The eight steers outside had a range of about 100 acres of rough rolling land some of which was well sheltered with shrub. Water was available in one of the coulees, the available in one of the coulees, the ice being cut every day. No shelter by way of sheds was provided. Grain was fed in a trough about 3 feet wide and high enough off the ground to prevent the steers getting in 1t. Straw was always kept before them in an enclosure of stakes that would hold about a load, arranged so that the straw could not be wasted by tramping over it. On December 3rd they were started and 2 lbs of the constant of the consta by April 1st each grain and pran. For about six weeks to time steer was a 2 lbs of bran. ugh hay was fed instead of straw. This is charged for at the rate of \$2 per ton which is its full value Both lots of steers were sold on April 22nd for \$4.25 per hundred with 4 per cent. shrinkage. Following is a statement of the transaction

Outside. Inside No. of steers in lot First weight gross First weight average 8854 5695 1106 1130 Finished weight gross 10630 6050 Finished weight average 1328 1300 Total gain in 318 days Average gain per steer Daily gain per steer Daily gain per lot 1776 1255 234 251 1.6 1.81 12.8 9.05

Gross cost of feed 100.76 Cost of 100 lbs gain 5.67 Cost of steers 8848 lbs. at 3%c 276.50 5695 lbs. at 3%c

Total cost to produce beef

Feeding Steers on the Brandon Sold 14,135 lbs. at 41/40 less 4 per cent. 6,050 lbs. at 4%c

less 4 per cent. 283.56 56.45 Net profit per steer 7. Average buying price per 5.52 34.56 35.50 Average selling price per

54.21 \$6.71 Average increase in value 19.65 21.12 Average cost of feed per

Amount of meal eaten by 8892- 5390 lot of steers
Amount of straw
Amount of hay
Amount of millet 8 tons 6 tons 2840 r ton Amount of ensilage and

25850 Amount of corn fodder 1 ton

#### INVESTMENT AND LABOR

The net profit as shown here, \$5.52 on those fed inside, and \$7.05 on those fed outside makes no allow-ance for interest on investment or labor involved in tending the cattle. For the outside lot the only invest ment was the price of the steers and the value of the lumber for troughing, a total of \$286.00. The lincident to attending this lot, cluding the drawing of straw, f The labor ing grain and cutting ice, would at the outside not amount to more than the time of one man for one hour per day: The extra expense in attending 56 head would have been not more than the time required to draw the additional straw, a small item.

In feeding inside the investment is necessarily very much greater no matdone. Provided a building suitable for stabling 30 steers could be erected for \$1,000, an additional gross profit of \$2.00 a head would be required to meet interest on the investment. The labor required to atvestment. The labor required to at-tend to the cattle fed inside was fully four times as much as that required when the feeding was done

The point has been raised in dis cussions on this subject that a large part of the food consumed by the cattle fed outside must be utilized to keep up the animal heat, and that since those fed in a comfortable keep up the animal heat, and that since those fed in a comfortable stable do not have the same waste of heat to provide for in the food consumed, they should on that ac-count lay on fat more economically. It must be borne in mind however, that cattle that are not stabled gro a coat of hair more resembling in its density that of a beaver than a steer, and that this provision aids greatly in conserving the animal heat During the coldest weather that we had this winter, when for a week we had this winter, when for a week the temperature averaged 29 below zero, the steers did not seem to suffer in the least, and were not standing around the straw pile with humped backs as one might imagine. The catbacks as one might imagine. The cat-tle were always ready for their feed and none of them went off feed dur-ing the winter. The abundance of fresh air has no doubt a salutary effect in keeping the digestive system in tone.

The work carried on this winter The work carried on this winter is intended as introductory to more extensive trials. Experiments of the sort above outlined must be continued for a number of years, when different kinds of seasons are encountered before the results can be con-sidered of any great value. The past 8 c 8 c winter's results may be taken as re100.76 77.05 presenting what may be expected in
276.50 177.07 an unusually mild winter free from
276.50 177.07 are with what may be obtained in a
377.26 255.92 be seen—James Murray, Supt.