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nks! "Long ear." RADSHAW

our issue of

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> n any onet boil) Trub

bing the solution well with hand.

room to exercise.

Hoping this will reach A. S. before he kills his colt or has a chance to. Fielding, Sask. BERT IVESON.

# STOCK

(Contributions invited. Discussions welcomed.)

#### The Waste of Manure.

According to Prof. Cyril G. Hopkins, of the University of Illinois, the waste of barn manure two and one-third billion dollars' worth of economy of production. manure, of which at least one-third is wasted. Putting it another way, the average American corn crop for the past ten years has been two and a quarter billion bushels, and the manure wasted is equal to the value of this whole crop at 33 cents a bushel. The \$75,000,000 worth of commercial fertilizer used in the Republic each year is equal to only one-tenth of the annual waste in farmyard manure. And yet, with this stupendous economic loss constantly facing them, there are farmers—

knowledge that it is constantly going on should pigs growing from birth until disposed of. cause us to think, and think hard. Underdrainage of fields, cement doors in stables, water-tight barnyards, manure spreaders, and prompt application to the land, are essentials in the utilization of manure to the best purpose, and with a minimum of loss.

### More Experiments that do not Determine.

endeavor to determine which "breed" of hogs makes the most economical gains grazing and under pen conditions. The results are interesting as indicating how contradictory such experiments Dear Editor: are and as a further proof that the relationship of breed to cost of production is very largely inci-The real factor that affects production is something in the inherent character of an animal, and strains within a breed all varying in their inherent characteristics, it is obvious that the mere circumstance of a breed is little guide to determine the productive potentialities of any animal. Below we republish from the Utah bulletin the results of the experiments mentioned:

GRAZING EXPERIMENTS WITH SWINE.

During the summer of 1905 investigations were started to compare the grazing qualities of purebred Tamworth, Yorkshire, Berkshire, Poland China, and Tamworth grades. The bacon type was well represented by purebred Tamworth and Yorkshire, and the lard type by Berkshire and Poland China grades. There were six pigs in each lot the first year and five the second year.

The following table gives the combined results of the two year's tests extending an average length of 107 days:

BREED	Gain per pig per day— pounds	Shorts consumed per one pound gain	Skim-milk con- sumed per one pound gain	Cost of one pound gain exclusive of alfalfa.	Average weight of pigs at. be ginning of experiment	Average weight of pigs at close of experiment
Tamworth Yorkshire Berkshire and	.78 .70	2.31 2.52	6.70 8.17	\$3.31 3.75	53.6 48.1	140.6 126.2
Poland China grades	.74 .73	2.46 2.46	7.1 6.65	3.52 3.45	56.0 56.8	137.7 137.8

Purebred Tamworths gave the largest gains at Be sure and keep the bandages out of sight the least cost, while purebred Yorkshires gave so far as use is concerned and give plenty of the smallest gains at the greatest cost. Notwithstanding the fact that the Tamworths were the youngest and were the lightest in weight when the experiment began in the first trial, they led in both gain and cost of production. In the second trial the purebred and grade Tamworths were equal in gain and cost of production, but the grades were older and were heavier in weight Editor Farmer's Advocate: when the experiment began.

At the close of the grazing experiment the first year, all lots were put in pens and fed grain. withen appeared in your assured to the grain with a property and are laboring under a misapprehension in this ary period, for fifty-seven days. In this the pure- offer be doubled, nor has Oliver's bill any idea in in the United States amounts to three-quarters of second in gain and first in economy of production; is not an additional 160 acres of free land. It is a billion dollars a year. Careful estimates by the Poland China and Berkshire grades third in well-known in Saskatchewan and Alberta that U. S. Department of Agriculture show that the gain and second in economy of production, and every homesteader expects to get, or tries to 180,000,000 domestic animals produce annually purebred Yorkshires fourth in gain and fourth in procure for himself, 320 acres for his farm. In

> one in bare pen, the Tamworth grades on an sively practiced. This system provides for average were little ahead of the Berkshire and one-third of the cropped area to be summer-Poland China grades. The purebred Yorkshires fallowed each year. A man requires at least 320 in which alfalfa hay formed a large part of the ration, were not the equal of the other breeds. They did not prove to be robust, vigorous feeders.

The raising of swine in Utah has never received never the best ones, either—who will say they are the attention from the farmers that its importance farming as well as it is possible to do, and that demands, presumably because little is known the study of soil chemistry is a fruitless search. of the cost of production. A great many feeding It is hard to convince a man who does not wish to experiments have been carried on at this station from time to time, but no records have been In Canada, be it said to our credit, there is kept of what it costs to produce pork in its less waste in the handling of farmyard manure various stages, including the cost of the keep of than across the line. We suspect, however, that the sow. In securing the figures in the following if the truth were known, the loss in this country table the animals were fed various products of the is not far short of one-third the potential value, farm, some of which could not be utilized in any if we were to count leaching and washing in the other way. In every instance the sows and pigs field as part of the loss. Not all this waste can had the run of a grass paddock if not of an alfalfa be eliminated by the most thrifty methods, but field. The aim was to so regulate the feed as to

#### Plowing at Boissevain not Sensational.

not a success from any standpoint. Nine plowmen how can they best be administered for the benefit that the competition was not keen. The people did not appear to take much interest in the match and the officials find little encouragement to con-The Utah Experiment station has been con-tinue it. The Turtle Mountain farmers being men ducting some of those absurd experiments in the who as a class understand their business, should be homesteader at the nominal price of \$3 per acre. able to see a lot of good in a plowing match and should turn in and get up a good one.

There is no doubt but that speculators would be glad to purchase all these lands from the Govern-

We look forward to receiving the FARMER'S ADVOCATE with our mail every Saturday, and dental, although type to a certain extent is a guide. have a good time every week-end reading its contents. My wife takes a great interest in the Poultry and Veterinary columns, which conyour paper the success which it deserves.

S. T. COOPER. Highclerc, Sask.

## **FARM**

(Comments upon farming operations invited.)

#### Oliver's Proposal not a Free Grant.

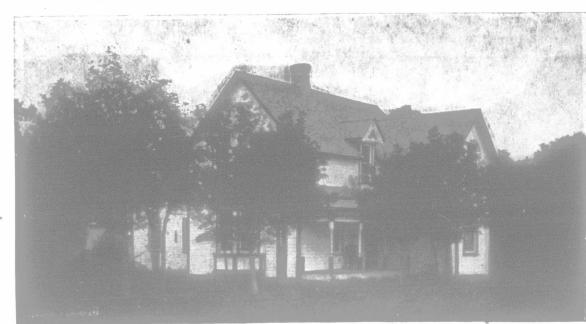
Kindly allow me to comment on your editorial "Is it wise to double the free land offer?" skim-milk and sugar beets, exclusive of prelimin-matter. Nobody has asked that the free land bred Tamworths were first in gain and third in doubling the free land grant. A pre-emption of economy of production; the Tamworth grades 160 acres at a fixed price to every homesteader the past, he has purchased land adjoining him, 160, 320 or 640 acres, as his means will allow. In the three experiments, two in grazing and The system known as "dry farming" is extenin these trials as well as in the maintenance work acres in order to make provision for such dry farming. In the district controlled by the Saskatchewan Valley Land Co., the even-numbered sections were granted as free homesteads. The remainder having been secured by the Saskatchewan Valley Land Co. at a nominal price of, say, \$1.00 an acre, was sold to the homesteaders. The price charged to the homesteaders was at first, \$5, \$6, or \$7 per acre. These prices advanced to from \$7 to \$10 and in recent years, the price was increased to anything from \$12.00 to \$20 per acre. You can readily understand that a new settler paying such prices for the land other than his homestead, is crippled in his farming operations for many years. His buildings are poor, his implements are poor and he is not in a position to purchase live stock.

The cry throughout the Western country is there is a grand opportunity to reduce it, and the keep the sows in good thrifty condition and the that Government lands be no longer disposed of in large blocks to any corporation or company to make enormous profits out of the same, out of the actual settlers. The Dominion Government holds vast areas not yet disposed of. These The plowing match at Boissevain in June was lands must be administered and the question is, were upon the field, but there were so many classes of the settlers, cutting out the speculator alto-

> Oliver's bill recommends that 160 acres of the odd-numbered sections be sold direct to the glad to purchase all these lands from the Government at \$3 an acre and possibly charge from \$7 to \$10, \$15 or \$20 to the actual settler for the same. It is the fear of such a situation that makes settlers favor Oliver's bill. If a profit is to be made out of these lands, let the Government put the price on and receive the benefit.

In another letter, I shall comment on what as there are many animals and many families and tain some very useful information. Wishing you say re sparseness of settlement and the overwhelming preponderance of bachelors.

Moose Jaw, Sask. HUGH MCKELLAR.



RESIDENCE OF JOHN'F. GUNN, "OAK LAWN" FARM, GREEN RIDGE, MAN.