father homeimporof Mr. ersonal st convidson rter of numre sold Canapracurplus

> Ont., ev and luding mpion inning roan, STS. J. erd he roving ers at ıll imn this ton, a 73 by pends ree, it , as it rosses est of orted al inon of calf, ike of being out of , was

> > e sire

of the noted bulls Roan Gauntlet and Cumberland which, however, is a slightly higher average than

of which six are recorded.

FBBRUARY 21, 1906.

Greenwood, Ont., in connection with Mr. David herd the Highland Society prize-winning bull, old: Eclipse by Earl of March, and in the same year he landed a large and excellent importation, which included the white Sittyton heifer, Allspice, an own sister to Field Marshall, four Lancaster heifers, two Clarets, a Nonpareil, and two Rosebuds, from Kinellar, and eight young bulls, seven of which were of Mr. Campbell's breeding. Mr. Johnston made many later importations, and showed his rare good judgment in the purchase, from the Luther Adams' importation of 1887, of the noted roan, Cruickshank-bred Victoria bull Indian Chief, the sire of more successful show bulls than any other in the history of the breed in Canada, with the possible exception of Barmpton Hero.

Cost of Raising Pigs.

The cost of raising pigs, said Prof. G. E. Day, of the Ontario Agricultural College, at one of the sessions of the Ontario Winter Fair, is one which has attracted a good deal of attention of late, and has been discussed at considerable length in certain agricultural papers. As it is a very important question, an attempt will be made to add a little to the sum of knowledge regarding the problem, by presenting and discussing a few figures from our experimental work.

Size of Litter.—The cost of producing young pigs depends largely upon the number in the litter, a small litter costing more per pig than a larger litter. In these calculations we wish to be on the safe side, and hence we are estimating only six pigs in a litter, or a total of only twelve

pigs per sow per year. This, we think, is a moderate estimate.

Valuation of a Sow.—A young grade sow about eight months old can be bought at a very reasonable price, and after the farmer is through with her he can sell her for quite as much as he originally paid for her, provided she makes a reasonable growth, and is well cared for. For this
be nearly \$5.20 per cwt. These figures show a widely and favorably known in the United States
reason, we are omitting the value of the sow
striking advantage in favor of the farmer who are inferior to the Yorkshires and Tamworths in inally paid for her, provided she makes a reasonreason, we are omitting the value of the sow striking advantage from the calculation. We are assuming that the breeds his own pigs. young sow has not been bred at the time of purchase.

Risk.—This is a factor which is very difficult to deal with, and because there are no means of arriving at a satisfactory basis for an estimate, with fifteen pure-bred Yorkshires, which were up- worths, on the same kind of evidence? Since all and because the estimated number of pigs in a on experiment, and were sold at our public sale. the breeds go up and down more or less in the litter is rather below what may be reasonably expected, we are leaving the element of risk out of

the calculation.

This is a matter important part in the maintenance, and many as follows: foods can be used that have very little market value. We think, however, we are making a liberal estimate when we place the cost of maintenance of a sow which is not suckling pigs at seventy-five cents per month. Thus, if the sow raises two litters a year, and nurses each litter six weeks, it would leave about nine and a quarter months of maintenance between litters, which at seventy-five cents per month, would amount to \$6.94.

Cost of Maintaining Sow and Young Pigs.consumed by the sows was composed of bran, one hundred pounds. This is certainly a much accurate figures upon which to base their charges. \$3.04. Total cost of five sows and their litters be somewhere between \$4.10 and \$4.52. for forty-three days, \$16.99, or an average of

practically \$3.40 per sow.

five litters totalled only thirty-two young pigs, modify the calculations contained herein.

the former the sire of Field Marshall, who, in turn, the number of pigs to a litter upon which we dewas the sire of the champion Mario. Mimulus cided to base our calculations, namely, six. We produced only one heifer calf. which was sold to shall count the cost of pig, however, on the basis go to the States, her other produce being all bulls, of six pigs per litter, which makes the cost a little higher than it really was. Assuming, therefore, It was in 1874 that Mr. Arthur Johnston, of that a sow will produce twelve pigs during the year (two litters), that the original cost of a Birrell, made his first importation, including the young grade sow is offset by her value when

2 service fees, at \$1.00 each\$ 2 00 91 months' maintenance of sow, at 75c. per month 2 six weeks' periods of nursing, at \$3.40 6 80 Total cost of 12 pigs\$15 74 Average cost of 1 pig 1 31

Cost of Finishing for Market.—Unfortunately, isfactory results than those we buy. Moreover, concerned, to be as follows: the nature of the experiment was such as to make the cost rather higher on the average, though we second, twice third, and once sixth, in the list. have omitted one group which was fed exclusively upon meal as a check group. We think, therefore, that, by using these pigs in our calculation, the lists. we are making use of a rather extreme case of cost. If we assume that we raised these pigs, and the cost until six weeks old was \$1.31 each; that meal is worth twenty dollars per ton, tankage thirty-three dollars per ton, blood meal fifty-five dollars per ton, tankage thirty-three dollars per ton, and skim milk fifteen cents per cwt., the financial statement for these thirty pigs would be as follows:

30 pigs, Cost o	6 weel	ks o	ld, er	at wea	\$1.	31	ea	ıcl	1		 \$	39	30
	cost												
Total	weig	ht	of	hog	S						 5,	332	1bs
Total	cost	per	IOC	1bs	S.,	nea	arl	y			 \$	4	52

received above \$4.52 per cwt., plus the manure, come the Yorkshires, and probably the Durocs would represent the farmer's interest on capital and Tamworths, in order named. But what and recompense for labor. If, however, these about Poland-Chinas and Chester Whites? Are

offer some more encouraging figures.

upon which there may be some controversy. We they reached the weight specified above. The breed so far as economy of production is coning sows while suckling pigs, but the cost of main- certained, so that we shall use the figures obtained accurately as it is possible to conduct live stock taining sows between litters is rather difficult to from the average of five litters, namely, \$1.31 experiments. All food was carefully weighed,

15 pigs,6 Cost of	week	s old,	at	\$	I		3 1					٠	٠	٠			*		\$19	65
Cost of	DOOI	aiter	W	ea	LI	111	18	9	٠	٠	٠		٠	*	٠	٠		٠	66	68
Total	cost					٠							٠	٠			٠		\$86	33
Weight Cost pe	t of 1	5 pigs	š ,							٠							٠		2,23	8 1bs.

Getting at the Facts in Hog Feeding.

EDITOR FARMER'S ADVOCATE:

In your valuable paper there have been a few statements regarding the swine industry to which would like to call attention.

Mr. Robert L. Holdsworth stated that unless the packers will pay a better price for bacon hogs, the Berkshire, Chester, Poland-China, and other roan yearling heifer Alexandrina 6th, from the through breeding, and neglecting the element of easily and cheaply fed hogs will be the only ones herd of Mr. W. S. Marr, of Uppermill. In 1884 risk, we have the following items of cost entering raised. Another correspondent who signs him-Mr. Johnston brought out from Mr. Duthie's into the raising of young pigs until six weeks against the Tamworths, and implies that Berkshires and Chester Whites are more economical producers than either Yorkshires or Tamworths.

At different times there has been a great deal more along a similar line in various agricultural papers, and I would like to call attention to the results of eight experiments where Berkshires, Yorkshires, Tamworths, Duroc-Jerseys, Poland-Chinas and Chester Whites were fed side by side none of the young pigs mentioned above are yet under the same conditions. Five of these exready for market. so that we shall refer to periments were conducted at Guelph, and three thirty pigs which were used in an experiment of them at the Iowa State Experiment Station. with blood meal, tankage and skim milk. These When we come to analyze these results, we find pigs were all purchased, and we have always the standing of the breeds in the eight differfound that pigs of our own raising give more sat- ent experiments, so far as cheapness of gain is

Berkshires.—Four times stood first, once

YORKSHIRES.—Twice stood first, three time second, once third, once fifth, and once sixth, in

Duroc-Jerseys.—Twice stood first, twice third, twice fourth, once fifth, and once sixth, in

TAMWORTHS.—Three times stood second, once third, twice fourth, once fifth, and once sixth in the list.

POLAND-CHINAS.—Once stood second, twice third, once fourth, once fifth, and three times sixth, in the list.

CHESTER WHITES.—Four times stood four-

th, three times fifth, and once sixth, in the list. I am quite free to confess that I cannot arrange the breeds in order of their ability to make cheap use of food from the results given here. Possibly some reader can do so for us. The Berkshires so far as these experiments go, have, On selling these hogs, therefore, whatever was I should say, the best standing, and next to them point of being able to utilize food to advantage? As previously intimated, we think the figure I do not think that any sane man will make this above represent an extreme case, and below we claim. If, then, we do not consent to the proposition as laid down, is it fair to say that the Berk-Another Instance of Cost.—This case deals shires are superior to either Yorkshires or Tam-When we closed the experiment, on account of different experiments, is it not only a reasonable the sale, they weighed a small fraction over conclusion that there were other reasons entering 149 pounds each. The cost of feeding these hogs into the experiment than merely the breed of the therefore, can be accurately estimated only until animals, and that, after all, there is nothing in have figures representing the actual cost of feed- cost of raising the pigs while on the sow was not as- cerned. These experiments were conducted as arrive at, owing to the fact that pasture plays an per pig. The account against these pigs stands and an accurate record kept of food consumed and gains made by the hogs, and as a result we have the figures submitted above. Against these we have the assertion of a great many farmers that the bacon type of hog is more expensive to produce than the fat type, and yet we have no figures submitted by men who make this claim to show that their claim is a just one. In any experiment comparing breeds, some breed has to come out ahead, but it does not follow that Of course, these pigs were not up to market its standing was the result of the breed to which weights, and the cost increases as the pig gains it belonged, but rather to the individuality of in weight. If we assume that it would cost five the animals representing the breed in that par-For this calculation we shall use five sows under cents per pound to put another forty pounds on ticular experiment. All breed tests which have experiment at the College. An accurate record each of these pigs, the total cost would become been conducted go to show the same thing, and was kept of what the sows and little pigs con- \$116.13, and there total weight would be 2,838 before reckless charges are made againts the bacon sumed before the pigs were weaned. The meal pounds, representing a cost of nearly \$4.10 per type of hog, men should be very correct to the pigs were weaned. pounds, representing a cost of nearly \$4.10 per type of hog, men should be very careful to have.

middlings and oats, and is valued at \$20.00 per better showing than the one previously presented I would like also to say a word regarding the ton. The sows nursed their pigs forty-three days and shows the possibilities of healthy, growing position taken by Mr. S. A. Freeman. The blood on an average, and the cost of the food consumed pigs. It may be that this group of Yorkshires meal and tankage fed in these experiments were was as follows: Sow and litter No. 1, \$3.20; represent an extreme case of cheap production, supplied by Swift & Co., of Chicago, and I am No. 2, \$3.18; No. 3, \$3.87; No. 4, \$3.79; ;No. 5, in which case the normal cost per cwt., would sorry Mr. Freeman takes an unnecessary fling at the Davies Co., who do not manufacture either It must be remembered that these figures are blood meal or tankage for swine. The fact that not regarded as conclusive, but are offered merely these hogs were fed blood meal and tankage is, Cost of Raising Young Pigs until Six Weeks as a contribution towards present knowledge of in my opinion, rather against cheapness of gain. Old.—Two of the five pigs mentioned in the pre- the subject. Before the close of another year we However, they were the only ones in this year's vious paragraph raised very small litters, and the hope to have considerably more data, which may work which could be used for the comparison we wished to make, and therefore I quoted their