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Mr. S. — Well, they got some small potatoes rape in the fall.

Writer — What would that stuff be worth?

Mr. S. — Oh, nothing much.

Writer - Would \$25 pay for it?

Mr. S. — Oh, yes, more than pay for it.

Mr. S. — Well, 200 bushels barley, that is improvement of, say, 5 per cent. \$130; 200 bushels oats, that is \$120; and four costs me \$20 to keep a sow a year. That is —? Writer — That is \$455.

this spring, I suppose?

at 55 cents, \$99; oats, 200 bushels, at 50 cents, the Experimental Farm in 1907-08. \$100 ; shorts, 4 tons, at  $\$24,\,\$96$  ; potatoes, etc. \$25; total, \$360. You got \$463, or the equivalent, which makes \$103 profit.

Mr. S. — But barley is worth 65 cents, and oats 60 cents a bushel

Writer - They were not those prices in the fall, when you would probably have sold. Besides, you would have had to clean, bag and haul the grain 8 miles — that is a consideration, is it not

Mr. S. — Well, I suppose one might look at it

in that way

Mr. S. still has his four sows, and is not quite so pessimistic as he was. I wonder how many farmers there are in this Canada of ours who figure it the same way as Mr. S.? How many use round numbers and top prices when figuring the cost, but neglect little odds and ends like a pig killed or a sow kept, when figuring the returns? And another item very seldom considered in the returns is the manure, than which no better fertilizer can be found.

From a number of years' experience with a herd ranging from 100 to 400 pigs of various breeds, under most adverse conditions as to housing, and most expensive as to care and feed, I am of the opinion that, taken one year with 37,100 lbs. roots, at \$2 per ton ...... another, the pig business can be made to yield good profits. This I say, taking into consideration the high prices ruling at present, and likely to maintain for another year at least, for all feedstuffs, and not overlooking the possible drop in prices for the finished product.

One great aim must, however, be kept constantly in view; that is, lower the cost of production. The farmer cannot control the selling price of the hog. That, like prices for most other commodities, is controlled entirely or very largely by supply and demand. The cost of production is likewise influenced to a considerable extent by the same great law, in so far as it affects the prices of feedstuffs, but the skill and knowledge of the breeder and feeder enter at this point, and may very easily make a difference of one-half in the cost of production, with the same class of Swine and the same prices for feeds. This may seem to some a rather too great difference in cost to attribute to skill and knowledge, but my experience would seem to indicate that it is probably underestimated, rather than overstated.

I would suggest, as lines along which improvement or effort at lowering cost might be made :

Selection of sire and dam. Raising young sows.

3. Feeding old sows.

Care and management of young pigs. Economy in feeding or finishing off.

Winter feeding-off

in evidence in the dam of the sire selected. young ones. Another point, and one very commonly neglected, is to see that families from which selections are youngsters from birth must have an abundance of looks small. maturing animals.

grain or meal. Did you feed any roots, or any-cent., between well-selected and poorly-selected commonly observable defects. To overcome breeding stock — say, 25 per cent.

and apples, a few pumpkins, and a little bit of ing stock once selected, may usually be fed as are however, a question in itself, and one which I feeding pigs until four or five months old. After should like to take up at some future time in this age, they should be put on a special ration; detail. The feed of the youngsters must necesthat is, a ration likely to induce growth, roominess sarily be through the mother for a couple of and bone development, rather than smoothness weeks. Any overfeeding or unsuitable food is and trimness. In this way the chances of fatal at this period. Cooling food, rich in milk-Writer - Well, how do you figure out your the sow becoming a good dam and a prolific producing elements, is the right thing. Skim breeder are greatly increased. This means an milk, cooked turnips or raw mangels, bran,

tons shorts, that is \$100; \$25 for pasture, etc., stock, number and vigor of the young, and econ- is important. Giving them the right food in and four sows' keep, that is \$80, for I reckon it omy of the feeding operations, must be the aim proper condition is of more importance still. in feeding old sows. After five years' experiment- Cleanliness is necessary; a sufficiency of food, ing with 40 to 60 sows annually, the writer and no more, is imperative. Skim milk or whey, Mr. S. — Well, I got \$418, so you see I lost considers the following plan the most economical, always sweet, or always sour, with a little feed lots of money.

Writer — You forgot the three pigs you kept, sows should be housed in well-ventilated quarters. milk, then oat chop, with hulls sifted out, coarse

Small cabins outside do very well. They should feed flour, and oil-cake meal, equal parts, in a Small cabins outside do very well. They should feed flour, and oil-cake meal, equal parts, in a charged present market prices for your grain. I be fed outdoors. Their food should consist thin gruel, is about right. Getting them out on would figure it out this way: Your sows cost, largely of rough and succulent feeds, as clover, the land early in the game is highly advisable. say, \$10 for these litters. They gave you litters hay and roots. The meal should be light in Some succulent feed when quite young is benecharacter, and rather sparing in quantity, ficial. Pulped roots, clover or rape, are all especially early in the winter. To illustrate, suitable. A certain amount of pasture or green Writer — Well, sows, \$40; barley, 180 bushels, take this feeding record of a bunch of sows at feed is always profitable. Overdoing with these

## FEED REPORT

from December 1st, 1907, up to March 14th, 1908.

Week ending.			Roots.	Bran.	Shorts Clover		
					37	hay.	
			lbs.	lbs.	lbs.	lbs.	
Dec.	7		2,600	300		50	
Dec.	14		2,600	300		50	
Dec.	21		2,650	250		100	
Dec.	28	***	2,650	250		100	
Jan.	4		2,700	200		100	
Jan.	11		2,700	200		100	
Jan.	18		2,700	200		105	
Jan.	25		2,100	140	280	100	
Feb.	1		2,450	150	300	150	
Feb.	8		2,450	238	476	150	
Feb.	15		2,450	238	476	100	
Feb.	22		2,400	300	575	100	
Feb.	29		2,250	336	672	100	
Mar.	7		2,200	350	700	100	
Mar.	14		2,200	336	672	100	

37,100 3,788 4,151 Cost to feed 29 brood sows for 105 days 3,788 lbs. bran, at \$22 per ton . . . . . 4,151 lbs. shorts, at \$25 per ton .... 1,550 lbs. hay, at \$7 per ton ......

satisfactory results, as the following figures will the country, nor the prices for feeds and product, show

these, better ventilation and more hygienically-Raising Young Sows and Boars. - The breed- constructed piggeries are necessary. This is, shorts, oil-cake meal and oats are the best feeds. Feeding Old Sows. — Health and thrift of the Teaching the youngsters to eat at an early age

is not economical at any stage. Finishing Off. — The final period should begin while the pigs are still young. They should, in Amount of Feed Consumed by 29 Brood Sows fact, always be in good condition. To attempt to economize by feeding on green feed exclusively, or almost entirely, is mistaken economy. Keep r pigs thrifty and doing. In summer, meal, green feed, shade, and an abundance of water, with only a very small run, are the best conditions. In autumn, replace the green feed with pulped ) sugar beets and mangels or cooked potatoes, turnips or pumpkins, about equal weights of meal and roots fed mixed and in a thick slop. Do not cook meal. Feed warm in cold weather, if convenient. Feed meal mixtures of medium weight; too open and light makes paunchy pigs; too close and heavy means indigestion. regularly; feed a uniform ration as to quality and quantity. Feed at least three times a day. Keep pigs dry, cool and well watered, in summer. Keep air pure, floor dry, bed clean, and pigs active in fall and winter. Good feeding and good care means all of 50 per cent. difference in cost

To summarize, I am certain that pigs ready 1,550 for the market, that have been raised in the right way, fed off with the right feeds, under proper \$ 37.10 conditions, and which are the get of properly-41.66 selected and properly and economically fed 51.81 breeding stock, are frequently put on the block at 5.42 half the total cost of other similar-looking pigs that have been raised in a haphazard way from \$135.99 poorly-selected breeding stock, and then fed, as is 105 days, cost per pig per diem, 4.46 cents. too often the case, on too expensive foods, badly First 7 weeks, or 49 days, cost per diem, 2.77 proportioned in mixing, and badly handed out cents.

to the pigs under bad conditions as to housing, As indicated, these sows cost 4.46 cents a day water and air. This being the case, as I am sure to feed, or \$4.68 for the winter, each. This not a few will admit possible, and too frequently experience was repeated in 1908-09, with quite as true; it is in the writer's opinion, not the pig, nor

that are to blame, but rather the too great care-

COST OF WINTERING 27 BROOD SOWS — WINTER 1908-1909.

The state of the s										
						Total-	Cost	Cost		
	No. of	A	mount of	feed const	umed.	cost of	per	per		
Periods.	days.	Bran.	Shorts.	Roots.	Clover.	feed.	pig.	day.		
		Lbs.	Lbs.	Lbs.	Lbs.	\$	\$	C.		
Nov. 1 to Nov. 30, 1908	30	1,400	460			25.35	. 93	3.1		
Nov. 30 to Dec. 31, 1908	31	1,200	700	10,420	300	32.82	1.21	3.9		
Dec. 31, '08, to Jan. 31, '09.	31	1,350	710	11,020	650	36.33	1.34	4.3		
Jan. 31 to Feb. 28, 1909	28	1,210	605	8,400	600	30.76	1.13	4.0		
Feb. 28 to March 13, 1909	13	800	400	4,200	300	18.65	. 69	5.3		
Total number of size 199	1	t C	C 1 . 0 1 4 0	0.1			AF 00			

At a number of pigs, 133; total cost of feed, \$143.91; average cost per pig, \$5.33; average cost per pig per day. 4 cents.

in 70 or 80 sows so fed in the two years, not no matter what the conditions. Selection of Breeding Stock. — A very great more than one or two litters were unsatisfactory

points means a difference of from 20 to 30 per farms. Dampness and foul air are the most be counted, but we keep at it. Not so with

Lowness of cost is, however, not the only con-lessness of a large number of our farmers who sideration, and here the results of the feeding sys- fail to give this question the attention and study tem outlined were even more satisfactory, since, that are absolutely necessary to insure success,

There is another feature of the pig-feeding difference exists in strains or families of different in either quality or number. It is possible, in problem that in my opinion accounts in no small breeds, as well as among cross-breds, as to fe- this way, to save from 10 to 20 per cent., in the measure for the smallness of our pork product. cundity or size of litters. Care should be taken cost of the young dropped. That is, by selection I am inclined to think that not a few of our to keep sows from large litters. No sow gives a and care, along with judicious feeding of the Canadian farmers go out of the pig business very large litter every time, but the average breeding stock, one may effect a saving of from largely because they do not like it. This would should be good. The same peculiarity should be 25 to 40 per cent. before even starting to feed the explain in large measure the promptness with which the supply falls off, when to the loose Care and Management of Young Pigs. — The figurer or casual observer the margin of profit

made are quick-growing, easy-feeding and early- pure air, dry quarters, and just sufficient food Beef-raising is not always profitable, but we of the right kind. Very seldom, indeed, are all keep at it. Dairying is too often, under existing There is no doubt that attention to these these requirements fulfilled on our Canadian conditions, not very profitable, if all the cost