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From a litter of eight pigs, six were selected for the trial, 15 weeks after they were born. The pigs were cross-bred Jersey-Reds and Poland Chinas: not a had selection, as the former breed has a tendency to grow muscle, and the latter, fat. Both lots of these had, up to the commencement of the experiment, been kept on the same food, viz: a mixture of shorts, corn-meal, skim-milk and butter-milk. At the beginning of the trial, lot a was given a ration consisting of one part of dried blood, six parts of shorts, and fourteen parts of sweet skim-milk—all by weight. Lot a received all the fine-

The digestible matter in the two lots of food stands as follows:

Albuminoids. Carbhydrates.

Total digestible matter—Lot **A.**.. 428 lbs. 833 lbs. "—Bot **B.**.. 153 " 1193 "

Here, my readers will observe that Lot A got rid of 1261 pounds of food and Lot R of 1346 pounds, a difference of 85 pounds only, but the difference of the quality of the two rations is very great. I need not tell my readers that, speaking in general terms, carbhydrates produce fat, and albuminoids produce muscle or lean meat.

The logs were slaughtered Nov. 8, 1886, and ever precau-

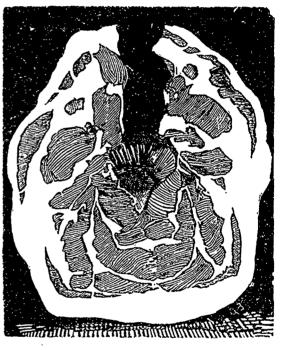
The logs were slaughtered Nov. 8, 1886, and ever precaution was used to preserve every particle of the blood, entrails, &c. Upon being taken to the block, when cold, each hog was laid on the block, the head was severed, the body was out square across between the fifth and sixth ribs, and again at

PLATE I.





Lot A, No. 1, Carbhydrate fed.



Fed for Lean.

Lot B, No. 1, Protein fed.

the loin. The places of separation were both photographed

THE ILLUSTRATIONS.

It will be seen that the illustrations afford the following

The albuminoid-fed hogs have more lean meat than the hogs whose food consisted chiefly of carbhydrates. In the loin-cut, the muscles of the former are almost twice as abun-

Plate I shows in cross section the proportional size of the muscles (lean meat) in the necks of bogs No. 1 of each lot.

NOTE.—The lean meat is striped black and white; the fat is shown in clean white. The cuts are made from the dressed hogs lying on their backs.

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and painted by an artist.

ground corn-meal the pigs could consume, and both lots had plenty of fresh water, and a small yard to run in for exercise. The experiment was continued for 136 days, and all the pigs did well upon the food. The following condensed form shows the amount of food consumed during the trial:—

	•		
BI	Lot 1, fed for Lean.		
וע	•	lbs.	
	Skim-milk	3302	
	Shorts	1415	1.7
	Dried blood		
Á	LOT & PED FOR EAT		

Corn-meal....

dant as the muscles of the latter. The bones of Lot were stronger than those of Lot in the proportions of 5 to 3, nearly. (1)

(1) A very curious fact indeed, showing, I fancy, that the nitrogenous food of Lot instrengthened the bones by furnishing ampler supplies of gelatine.

A. R. J. F.

 \mathcal{B}_{A}^{f}

B/