Should we Feed for Fat Meat or Lean?

Stock.

In view of the position which we have taken with reference to the breeding and feeding of Lean meat244

stock, and the remarks we have made with regard to the prevalence of disease, the accompanying illustrations, taken from hogs fed for fat and also for lean in experiments conducted at the Wisconsin Agricultural Experiment Station, under the direction of Prof. W. A. Henry, will be of considerable interest to our readers.

Pigs from the same litter were selected, which were 100 days old when the experiment began, and they were divided into two lots of three hogs each. The object was to adopt extreme methods of feeding, the belief having gained currency that hogs fed on corn, Weight of kidneys.....27 oz.

a fatty food, laid on large percentages of fat meat Weight of spleens16 and were liable to disease. Lot I. received a diet | Weight of livers......1461 | that was largely composed of bone and muscle-forming substances, viz., protein and salts, the ration being as follows: 1 part dried blood, 6 parts shorts, and 14 parts by weight of skim-milk, all these foods containing very little fat. On the other hand, Lot II. received nothing but fine ground corn meal, which has a very large percentage of fat and a low percentage of protein and salts. The nutritive ratio of the ration fed to Lot I. was 1:2, and that fed to Lot II. was 1:7.7. Both lots were permitted to take exercise at will, and

received all the food they could consume. The experiment lasted 136 days, | Weight of blood 296 oz. at the expiration of which period it was found that Lot I., fed for lean, gained 405 lbs., while thigh bones, 4550 lbs. Lot II., fed for fat, only

gained 291½ lbs. Upon slaughtering, the carcasses were cut square across between the fifth and sixth ribs, and again at the loin (small of the back). Plate I. in the accompanying illustrations shows the appearance of the meat after the head was removed, the parts having been photographed and painted in order to show the relative proportions of fat and lean.

Plate II. shows the cross-section after the cutting | Summed up in another way, Prof. Henry gives | and that relief will be found in going back for between the fifth and sixth ribs was made, and the following as the results of the experiment: Plate III. shows the appearance at the loin cross-

facts in the case, the weights being of the three

PLATE I.

hogs in each lot:	Lot A.
Total.	Fed for lean.
Live weight	669‡ lbs.
Dressed weight	$\dots .541\frac{3}{4}$ "
External fat	150 "
T most	944

These difference should be borne in mind in considering what follows.
3. The kidneys of Lot A weighed 42 percent Lot B. Fed for fat. more than those of Lot B. $561\frac{1}{2}$ lbs. 4. The spleens of Lot A weighed 33 percent 451

more than those of Lot B. 5. The livers of Lot A weighed 32 percent more than those of Lot B.

> 6. The blood (caught on killing) of Lot A weighed 59 percent more than that of Lot B. 7. The hair on Lot A

weighed 36 percent more than that of Lot B. 8. The skin of Lot A weighed 36 percent more

for Lot A than for Lot B. 9 The large muscles of the back (Ilio spinalis) of Lot A weighed 64 percent

more than those of Lot B. 10. The two tenderloin muscles (Psoas magnus) of Lot A weighed 38 percent more than those of Lot B.

11. Thirty-eight percent of all the meat that could be cut from the carcasses of Lot A was fat, while the fat of Lot B was 46 percent of all that could be separated.

Similar results have been

obtained by experiments

conducted by Prof. San-

born, of the Missouri

Agricultural Experiment

Station, which have already

been published in the AD-

Such experiments will,

or should, revolutionize

the existing methods of

feeding in the United

States, where little else

than corn is fed. (No

writer has yet hinted at

the condition of the corn-

fed men in the Western

Fed for Lean. Lot B, No. 1, Protein fed. 12. The bones of Lot A were 23 percent heavier than those of Lot B. 13. The thigh bones of Lot A were 62 percent stronger with the testing machine than those of

VOCATE.

19 oz.

1091 1

156



Fed for Fat. Lot A, No. 2, Carbhydrate fed.

Fed for Fat.
Lot A, No. 1, Carbhydrate fed.

Fed for Lean. Lot B, No. 2, Protein fed. 186 oz.

2855 lbs.

and Southern States). There is too much truth in the following remarks of Prof. Henry: "We find of late years that the business (hog-raising) is beset with

many difficulties. The pigs at birth are delicate and die easily, the sows are often but indifferent mothers, in some cases even eating their young, while animals of all ages fall easy victims to any contagious malady. The difficulties have grown until now every interested party feels there is no small degree of uncertainty attached to the business. Some tell us that the trouble comes from the so-called improvements, that our stock is bred up too high,

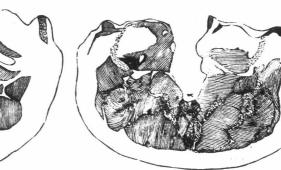
Fed for Lean. Lot B, No. 3, Protein fed. the following as the results of the experiment:

1. The live weight of Lot A (fed for lean) is affirm, was a wonderfully hardy and vigorous animal. Others maintain that our improvement The following table gives the most important

19 percent greater than Lot B, fed for fat.

2. The dressed weight of Lot A is 21 percent greater than Lot B.

2. The dressed weight of Lot A is 21 percent greater than Lot B.



Fed for Fat. Lot A, No. 2, Carbhydrate fed.

PLATE III.