

THE FARM

Skin Milk.

This food material, in the words of Prof. Sandorn (England), when rightly used epitomizes the ideals in foods. In nutritive effect per pound of dry matter it is not inferior. Its high content of protein (nitrogenous matter) requires that it be judiciously associated with some carbonaceous food, not that it is not effective when fed to the young calf or pig, or even to older animals, but that when fed with its proper associate food it lends to the inferior food a value that, apart from it, it does not have. The nutritive ratio of skin milk is 1 to 2.1, that is, for every part of nitrogenous matter it contains there is also present 2.1 parts of non-nitrogenous matter (carbo-hydrates, etc.). This ratio is extremely narrow, as also is that of whole milk (1 to 3.8), and gives us a hint as to the proper feeding of animals during the young state. Skin milk, being already digested and in liquid form, taxes the system to a minimum in handling it, and produces a pound of growth for an exceedingly small quantity of dry matter. In some experiments carried out by the author, quoted above, pigs made a gain of one pound for each 43 quarts of skin milk when fed alone; but where the skin milk was fed in association with other foods, notably with middlings, making an ideal food for very young pigs, decidedly better returns were obtained for the milk. Thus, in seventeen trials, middlings alone made for pigs weighing on the average 17 lb., a gain of one pound for 3.65 lbs. of food. When milk and middlings were fed a gain was made for 2.5 lbs. In these figures the skin milk is calculated into 90 per cent. of dry matter. The skin milk alone required, on the average of several trials, 2.53 lb. of milk solids, plus 10 per cent. moisture. A pound of dry food in the form of middlings, and the skin milk in combination with meal, but this gain, Prof. Sandorn says, is within the limits of experimental error. As the gain over skin milk when fed alone is small in the combination, and very great over middlings when fed alone, it logically follows that skin milk, in combination with dry foods, adds to the value of the dry food for very young pigs, but its normal feeding of nutritive value.

"Breaking Down" in Hogs.

We have alluded to this subject many times in this department of the paper and have pointed out practically all that will by the breeder of swine. Many readers have had experience with heavy hogs "breaking down" at the pasture. These cases are not the result of any disease, which usually attribute to kidney worm, which is not the true cause. Few, however, have suspected that in some of these cases the bones are actually fractured, but we are collecting evidence going to prove that this accident sometimes happens and in perhaps far more common than we are led to believe. The other day we heard of two sows that were running with their six-week-old pigs in a large yard where there was nothing to cause injury and nothing upon which the feet might be caught to cause tripping or falls. Yet one of these sows suddenly went down behind, and, as she was in misery, the owner killed her and made a post-mortem examination. He was astonished to find that the sow had broken her thigh bone, although as already indicated, no possible cause could be discovered. Little was thought about the matter until ten days afterward, or thereabout, the other sow went down with the same fracture. The question is, what led to the breaking of these bones, which are the strongest in the entire skeleton under ordinary circumstances? Then we have another similar case reported by Dr. E. I. Smith, V. S., of Franklin, N.Y. He has six-month-old pigs that had been weaned at four weeks, placed in a small pen and there heavily fed on mixed rations, but without milk. They had experienced no rough handling and apparently did well at first upon the rations fed. When seen they weighed about fifty pounds on an average, and so far as known, were perfectly well and sound, when fattened. All of them were in different stages of lameness. The worst ones were hardly able to move from their pens, and when forced to move would equal and show signs of pain. When they walked their fore feet would sink down, with elbows protruding; their steps were short, slow and cautious, and when forced to move faster they would sidle upon their sternums. One of the latest pigs was killed, and on careful examination it was found that the neck of the shoulder blade was broken, but had commenced to unite. The fracture was at the same point in both bones, and, as the other pigs showed exactly the same symptoms, it was naturally concluded that fracture had taken place in each case. The question again arises as to what caused these fractures. They were not due to accident or injury, for the pigs were as fat as a pig and were in the best of health. We must then conclude that the fault was in the bone texture itself, and this we believe, is the correct conclusion. The veterinarian came to the same conclusion, for he prescribed phosphate of lime and sulphate of iron, and heard afterwards that the pigs were improving so fast that the owner hoped to wean them all and fatten them at a profit. The disease in these cases is, to our minds, simply "rickets," in which disease the bones are abnormally supplied with vegetable (organic) matter, and correspondingly deficient in earth salts (inorganic) matters. The tendency to this disease is hereditary and it is induced by heavy feeding with a lack of exercise throughout several generations of breeding hogs. Experiments by Prof. W. A. Henry of the Wisconsin Experiment Station and other authorities have shown that the bones of sows fed on different foods vary in strength, and that, where corn is fed in excess and without a due amount of nitrogenous food, the bones are notably weak. There can be little question that the bones are often so weak that they actually break, as in the case mentioned above. It is as certain that strong bones can be produced by avoiding the causes indicated and by managing and feeding sows so that they have abundant exer-

Profitable Pig Feeding.

During the last year several articles have appeared in the agricultural press deploring the fact that almost all the blood meal and tankage from Canadian packing houses are sold to firms in the United States, to be used as commercial fertilizers. It has been pointed out that in this way our farmers are being drained of a large amount of fertility which ought to be conserved. Most of the writers of the articles that have so far appeared recommend that these by-products be sought by Canadian farmers and applied by them to the land. The experiment described below indicates that these by-products when properly prepared can be still more advantageously used by being fed on the farm, and thus a profit be made not only from the feed, but also from the manure of the animals fed. For the purpose of the experiment we were supplied with blood meal by a company in Toronto, and with blood meal and tankage by a company in Chicago. The blood meal and tankage from the latter firm are especially prepared for animal food purposes, and are very much finer in texture and freer from foreign matter than the ordinary commercial by-products of the slaughter house used for fertilizing purposes, such as were supplied by the Toronto firm. The Chicago people have a special plant for refining these by-products, and, although they cost considerably to the price of the blood meal and tankage, yet our experiments indicate that the refining process is absolutely necessary. The ordinary commercial blood meal proved unpalatable, and it was found impracticable to continue the experiment with it. Should there, however, arise a demand for these by-products in Canada, we feel sure that our Canadian firms would supply the refined product. Blood meal, as the term indicates, is dried blood reduced to meal. The guaranteed analysis of that supplied to us is 87 per cent. protein, 3 per cent. ash and 10 per cent. moisture. Tankage is a prepared product from refuse meat, entrails and other offal that accumulates in the slaughter house. The guaranteed analysis of that used by us is 20 per cent. protein, 6 per cent. ash and 10 per cent. moisture. In this experiment there were seven groups of pigs, five in each group. The bulk of the ration fed to all the hogs was exactly three-fourths of a pound of blood meal or tankage a day. Owing to the limited amount available for the experiment, we were not able to increase the weight of blood meal or tankage, so the average proportion throughout the experiment was about one to thirteen of meal. The lightweight pigs were fed about three-fourths as much of these by-products as the others, average one-fifth of a pound a day each, and a proportion throughout the experiment of about one to eighteen. Those pigs getting milk were fed in the proportion of about two to milk to one of meal throughout the whole experiment. The lightweight pigs were fed about two pounds of meal and tankage each day, and at the last about ten pounds of milk each day. The remaining two groups, which received part milk and part of either blood meal or tankage, received half as much of the by-products as the lightweight hogs and in addition one and one-quarter pounds of milk each a day throughout the experiment. The blood meal or tankage or milk was mixed with the middlings and barley, and the pigs were fed as much as they would eat up clean twice a day. In addition they were fed at noon a large quantity of green grass, or clover or green oats or rape, all of which were conveniently near the piggery. As the amount of this feed a day was so considerable, no account was kept of it. At the same time we have found that even a very little green feed fed regularly as above mentioned is a most beneficial thing for pigs. The piglets were fed in small pens with small outyards; and during the latter part of the experiment they were cramped for room. In estimating the cost, meal is valued at \$20 a ton, tankage at \$33 a ton, blood meal at \$35 a ton and milk at 10 cents a hundredweight. Conclusions—(1) This is a single experiment, and will have to be repeated several times before any reliable results can be announced; and it must, therefore, be understood that the comments made above apply only to pigs fed in this experiment. (2) Those pigs fed blood meal or tankage produced gains more cheaply and at a less consumption of meal (middlings and barley) a 100 pounds than the ones fed skin milk. (3) In group 6 (pig fed meal, skin milk and blood meal), were two short, chubby pigs that were really finished some time before the conclusion of the experiment, for the small amount of blood meal or tankage fed along with skin milk to groups 6 and 7 seemed to have a very beneficial effect. (4) Even the small amount of blood meal or tankage fed along with skin milk to groups 6 and 7 seemed to have a very beneficial effect. (5) The pigs, without exception, look-

to the blood meal and tankage from the very first with great avidity.

(6) There is nothing in this experiment to indicate which is the most valuable food, blood meal or tankage. (7) In both cases were lightweight pigs were fed in comparison with heavier pigs, cheaper gains were made by the former. (8) The duration of the experiment was 137 days, and the average gain a hog from beginning to end was 1-1-10 pounds a day. On November 3rd all the hogs fed in this experiment were delivered to the William Davis Company, Toronto, where the sides were marked and carefully examined after they came out of the sale some three weeks later. Below is the report upon them as regards to the shipment of hogs which you asked us to follow through the sale, we have only a meagre report to make, but that is eminently satisfactory, so far as the quality of bacon is concerned. Out of the whole shipment there was not a single hog which did not yield firm bacon which was graded by our inspector as "best".

Conclusion: Blood meal and tankage have proved themselves fully equal to skin milk for the production of firm bacon, and, so far as this experiment is concerned, have produced cheaper gains. Even the small amount of green feed fed at noon seems to have been most beneficial.

Poultry Reminders.

It is not always the new things to learn that brings success; but to remember the right thing at the right time, the many things we have learned by experience. An English Exchange gives some valuable reminders that it will do well to tuck up for occasional reference. In my own case I would like to keep your fowl stock young; old hens are wholly unprofitable to keep. Don't forget that coolets as well as hens eat a lot of food, and, especially, don't forget that the hen's egg is a very expensive article. Don't forget that unfertilized eggs keep much longer fresh than eggs laid by hens running with a cock. Don't forget to grade your eggs as to size; it improves the sample, and consequently the price. Don't forget that large loose feathered hens of the Cochins or Brahmas type lay small eggs, and few of them. They are also large eaters and poor layers. Don't forget that close feathered and medium-sized hens of the English or Game breeds, and, especially, the great layers, don't forget that it costs as much to keep a hen that lays 80 eggs in a year, as one that lays 130. Don't forget that by using a special disinfectant for table purposes, by sitting out for a few hours only, so collect your eggs regularly. Don't forget that broody hens after April are seldom wanted, and they are very difficult to get rid of. Don't forget that vinegar diluted in warm water is the best liquid to clean stained eggs. Don't forget that brown-shelled eggs are no richer than white ones, but they are preferred for their shells, should immerse their eggs for an hour in strong tea water. Don't forget to preserve your eggs in water glass when the market price is less than 15 for 100. Don't forget to use a special disinfectant for table purposes, by sitting out for a few hours only, so collect your eggs regularly. 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