"The Bacon Pig and How to Feed Him."

Paper read before the Farmers' and Dairymen's Association meeting by F. W. Hodson.

(Continued from last week)

Whey, Skim Milk and Butter Milk.

Numerous experiments and practical work done by individual feeders have proved the great value of dairy bye-products as part of the rations for fattening swine. There is little difference in the feeding value of skim milk, butter milk or whey when all three are fed prime condition except that of course skim milk will be richer or poorer according to the care taken to remove the butter fat in the separator. Five pounds of skim milk per head a day is an economical allowance in fattening swine over one hundred pounds in weight when mixed grains are fed. Where corn was fed as in Wisconsin the best returns were secured with not more than three pounds of milk to each pound of meal. Experiments have shown that one pound of mixe peas, barley and rye is equivalent to 6.65 pounds of skim milk. The protein and ash in the milk are what are needed to give strength to the bones and develop the muscles sufficiently. Whey and skim milk produce rapid and economical gains and a fine quality of bacon even when no exercise is given to the fattening stock and counteract the tendency to softness produced by too lavish feeding of shorts. The average results of experiments at the Guelph and Wisconsin stations show that 785 pounds of whey are equal to 100 pounds of grain. Danish experiments has proven that 1253 pounds of unskimmed milk, 1613 pounds of sweet skimmed milk, and 1545 pounds of sour skim milk will each produce 100 pounds of gain. Experiments at the Wisconsin experiment station go to 100 pounds of corn meal when not over three pounds of skim milk are fed with each pound of meal; 446 pounds of skim milk equal 100 pounds of meal when from 3 to 5 pounds of hay mixed with their meal gained 143 pounds small ones getting among the manure and skim milk are fed with each pound of meal; or 30 per cent. more. The possible value of being planted in the fields. 574 pounds of skim milk equal 100 pounds of moistened clover hay as a bye-feed with pigs meal when from 5 to 7 pounds of skim milk is well illustrated by this trial. are fed with each pound of meal; 552 pounds | PASTURE. - Results of experiments in less of sugar beets equal in value one pound of skim milk equal 100 pounds of meal when America show with one exception, that pigs of grain. This is the consensus of opinion of from 7 to 9 pounds of skim milk are fed with each pound of meal. Average of all 475 pounds of skim milk equal 100 pounds of meal. Danish experiments show 6 pounds of day than a larger or smaller quantity. The | dof the daily feed was given in the form of skim milk to be equal to one pound of grain.

Value of skim milk in combination with ing prices.

> Value 100 lbs of skim milk When feed- When feeding 1 to 3lbs ing 7 to 9lbs

Value of Corn. milk to 1 lb milk to 1lb corn meal. meal. \$10 ton (28c per bus) \$12 ton (33.6c per bus) \$14 ton (39.2c per bus) \$16 ton (44.8c per bus) \$18 ton (50.4c per bus \$20 ton (56.0c per bus) \$30 ton (84.0c per bus)

The average of the trials is 11 cents.

Experiments show that chere is practically no difference between sweet and sour milk for pig feeding, providing however that the utensils are kept clean and not allowed to become foul. Regarding butter milk in general it may be assumed that when no water

equal to skim milk. As the result of experiments conducted at that 784 pounds of whey is equal to 100 corn as a grain ration, when fed with the bye-American experiments are as follows:-475 Danish experiments show that: - 600 pounds of skim milk equal 100 pounds of corn meal; in Denmark show 6 pounds of skim milk to be equal to one pound of grain, and 1200 pounds of whey to be equal to 100 pounds of corn meal. The whey used by this investigator was a bye-product from the manufacture of skim milk cheese, and it was neces-

hours before feeding. Another lot received can be obtained from the field one year and ashes were given, 491 pounds of corn were the clover mixture. This lot getting clover mature a crop of artichokes. I know of no obtain the same gain when either bone meal hay showed the best appetite. the greatest method that will produce more pork per acre or ashes were given. thrift, and made the steadiest gains. The of land than this. If fed to pigs in pens the pigs getting meal gained 110 pounds each in artichokes should be cooked, otherwise they in some parts of Canada, but it has not been

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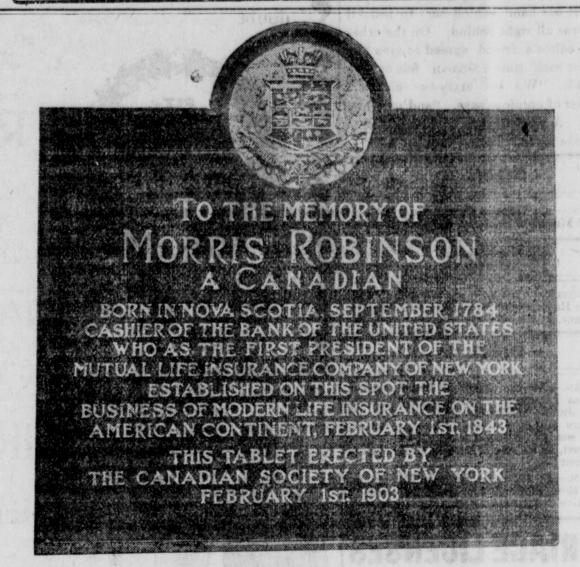
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prove that 327 pounds of skim milk equal The above tablet was unveiled on Monday, February 2nd, at 56 Wall street, New York, in memory of Morris Robinson, a Canadian.

will maintain themselves on pasture without | the Ottawa, Copenhagen and several Amerimaking any appreciable gain. It is more can stations. At Copenhagen the mangels economical to feed a } ration of grain each | were fed finely cut and raw and even when pasture will maintain the animals, while the roots no injuries effects were noticed on the grain given them will be entirely utilized in quality of the pork. The increase per head corn meal for pig feeding with corn at vary- increasing the weight. The best pasture plant in ten days on a ration half grain and half for pigs is alfalfa, where it will grow, white whey or milk was 7.6 pounds, whereas when red clover, white clover, blue grass and rape are good pastures in about the order named. A pasture to be satisfactory for swine must be 8.3 and 8 6 pounds. When half the grain be short and tender. Experiments show that one acre of rape or other suitable pasture is 1 to 8 the growth of the different lots was equivalent to 2600 pounds of grain in feeding | very nearly the same, viz:-8.5 pounds for

> Potatoes.—Potatoes should always be cooked, and may be profitably fed with grain favor of the latter. It must be noted that for the production of bacon without fear of pigs in this experiment had been fed roots injuring the meat. This has been proven by both Danish and American experiments. | ily. From 4 to 42 pounds of potatoes are equal to one pound of grain in pig feeding.

ARTICHORES.—These are said to have the same feeding value as potatoes, but they may has been added to it, it has a feeding value | be fed without being cooked, and while the average crop of potatoes will be 200 to 250 bushels per acre, Artichokes will range from Guelph and in Wisconsin it has been found 800 to 1200 bushels. They may be planted and cultivated the same as potatoes, but it pounds of grain, the grain in this case being | would be better to reserve a field for the a mixed ration which would probably equal purpose as they are very difficult to get out of the ground. I have found it a good plan products of the dairy. The average products to plant them in the fall of the year, or very of airy as determined by Canadian and early in the spring. As soon as the ground these experiments the pigs had been well freezes up cut off the tops even with the pounds of skim milk, or butter milk free ground, and burn them. As soon as the from water, equals 100 pounds of corn meal. | frost is out of the ground in the spring, turn | two each. Lot one received corn meal with the pigs on the artichoke field, putting in a moveable pig pen for each eight or ten pigs, 785 pounds of whey equals 100 pounds of according to their size. Dig up a few hills corn meal. Fjords' (Feords') experiments of the artichokes here and there to start the of ashes. In one of the trials which lasted pigs looking for food, and as soon as they find the artichokes are in the ground they will dig them readily. In this case any rings | ing the same time two other pigs consumed should be removed from the noses of the 33 pounds of wood ashes, and 8 pounds of pigs. They will in this way do very well with a small grain ration each day, if they have sarily poorer in fat than that used by the free access of water. They should be left in the field until about the first of June, when it, as they would otherwise have done, especi-CLOVER HAY .- Stewart fed pigs averaging the land should be thoroughly worked over ally those which had no bone meal or ashes seventy-five pounds each with corn meal, and the remaining artichokes dug out, and to resort to, and consequently would have two quarts of short cut clover being added to the field immediately sown with rape which impaired the results of this experiment. each day's allowance, and the whole wet with in six or eight weeks will be ready to turn hot water, and allowed to stand ten to twelve the pigs on again. By this method two crops corn produced 100 pounds of gain; when meal prepared in the same way but without | none the next, as it requires a long season to | required, while 629 pounds had to be fed to

120 days, while those having the cut clover are likely to get spread over the farm by

Roots -Eight pounds of mangels or carrots and about the same weight or a little the grain was replaced by roots after the proportion of 1 to 10, the increase was found to was replaced by roots in the proportion of the grain fed pigs, and 8.6 pounds for these fed roots, thus showing a small difference in previously and consequently took them read-

Bone Meal and wood ashes .- In experiments conducted by Prof. Henry as to the advantage of feeding bone meal and wood ashes to fattening pigs in combination with corn meal, it was found that the effect of the bone meal and wood ashes was to save about 28 per cent. of the total amount fed to produce 100 pounds of gain live weight. Bone meal doubled the strength of the thigh bones while ashes were only slightly inferior in value in this respect. The results show the great usefulness of bone meal and ashes, especially where much corn is fed to hogs. In started in their developement when the trial began. They were divided into three lots of salt and water. Lot two received in addition hardwood ashes, while lot three was fed a spoonful of bone meal at each feed in place 112 days, two pigs consumed 10.5 pounds of bone meal, and 7.5 pounds of salt, and dursalt. The earth in the yard in which the pigs exercised was covered with boards to prevent the animals rooting in it and eating

When bone meal was fed 487 pounds of

Cotton seed has been fed

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found a desirable feed, and should not at any time bellused.

SOAKED MEAL VS. DRY MEAL .- The result of tests at the Wisconsin, Minnesota, Oregon and Missouri Stations show that on the average 451 pounds of grain or meal when wet or soaked were equal in feeding value to 483 pounds of dry grain or meal a difference of 7 per cent. in favor of useing wet or soaked meal. This would indicate that the soaking of grain is about as useful in increasing its feeding value as grinding.

Relative weight, gain, and feed consumed by pigs.

Weight of pigs Feed eaten daily per 100 lbs live Feed for 100 lbs gain 5.95 lbs 293 lbs 50 to 100 lbs 4.32 lbs 400 lbs 100 to 150 lbs 3.75 lbs 437 lbs 150 to 200 lbs 482 lbs 498 lbs 250 to 300 lbs 511 lbs 2.74 lbs 300 to 350 lbs 2.35 lbs

> Proof of Underlying Virtue. (New York Times.)

President Edwin A. Alderman, of Tulane University, in New Orleans, used to do much speechmaking for educational causes when he was a citizen of North Carolina, and tells this story of an experience in the home of a mountain woman, to whose house he had been invited to take dinner.

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"'Mr. Alderman, there's one thing the boy never has done; he never cussed his pa at the table.'

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