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## LIVE STOCK

### SEPARATED MILK IN RATION FOR SWINE

The Michigan experiment station has recently reported an interesting experiment in growing pigs on corn and water as compared to corn and separated milk. Two pigs that got milk gained 221 pounds each in five months. Those on corn and water gained only 8.5 pounds.

At the end of five months the milk-fed pigs were marketed and the two stunted pigs put in separate pens. Pig No. 4 got shelled corn, water and a good mineral mixture. Pig No. 3 got corn and separated milk and though he only weighed 43 pounds at seven months old, weighed 350 pounds at a year old, a gain of 307 pounds. No. 4 gained only 28 pounds, weighing 76 pounds at one year. Then No. 3 was marketed and No. 4 got separated milk and corn for five months. At the end of this time he had gained 274 pounds, weighing 350 pounds, showing that separated milk can bring out even a stunted pig to make good gains. The gains with separated milk cost 6.7 cents per pound, with skim milk at 35 cents per 100 pounds. Gains without milk cost 19.7 to 39 cents per pound.

Although separated milk contains valuable mineral matter, this was evidently not what was lacking in the corn. The main deficiency was in protein and in the growth-promoting vitamins, both of which were supplied abundantly by the separated milk. Many people try to feed pigs on corn alone, while others who have dairy cows separate the milk and throw the skim milk away. Both are making a serious mistake. If separated milk is not available one should use alfalfa pasture, tankage or some other protein supplement along with corn.

Some will say that they get better results on corn alone than were obtained by the Michigan station. This is probably true where pigs are getting some grass or weeds to supply them with mineral matter and vitamins and with some of the supplementary proteins. The main thing to remember is that corn is not a complete feed for growing animals.

Separated milk should be considered as a supplementary feed, not as a complete feed in itself. Where fed in moderate quantities, 2 or 3 pounds of separated milk may take the place of 1 pound of corn. In large amounts count 8 or 10 pounds of milk equal to 1 pound of corn. A good rule is to count 100 pounds of separated milk worth half the price of corn per bushel.—Chas. I. Bray, Colorado Agricultural college.

### Salt Supply for Stock

#### Is of Great Importance

Without giving much thought as to why they do so, most farmers provide salt for their live stock. They know that cows will become "salt hungry," if not well supplied with salt regularly.

Denied salt, normal growth, health, general thrift and production either cease entirely or are sadly impaired. Carefully conducted experiments have proved this to be true. Salt is an essential as good feed and pure water.

Most farm crops and mill feeds are very low in the element chlorine, the very element that common salt supplies cheaply, abundantly and in readily available form. The main use of salt is to supply chlorine that is required to make the hydrochloric acid found in the digestive juice of the cow's stomach, and without which that organ cannot properly perform its digestive function. Diminished milk flow and generally impaired physical condition soon follow if salt is not included in the ration.

It is sometimes customary to add salt to the grain mixture at the rate of one pound salt to 100 pounds grain. This, however, is not enough to provide the requirements for all purposes. Whether fed in the grain mixture or not, additional salt should be available at all times in the barn lots and pastures. This may be provided in the form of rock salt or salt blocks. It is advisable to keep this outside supply protected in some way from the weather. A common practice is to keep common feeding salt in a covered box, where the cattle may have access to it at all times.

### Care for Sow and Litter

The sow and litter can be left in the small pen until the pigs are five to eight days old, after which both sow and pigs should get a little exercise. Care must be taken not to feed the sow too heavily on rich feed or she will produce so much milk that the pigs will very quickly become too fat and some will be lost simply because they get too fat. Once a litter of pigs has reached two weeks of age, losses should be very small.

### Healthy Hogs Best

"The three first principles for healthy hogs are segregation, sanitation and vaccination," said L. E. Drury, a farmer of Morgan county, Ill., who markets about 1,000 head yearly. Cleanliness, sunlight, and plenty of commercial disinfectant he cited as necessities in sanitation. He regards it of importance to have the farm fenced in small well-watered fields with portable hog houses, and also to keep the herd assorted according to size.

### Maya Culture Takes

#### Rank With the Best

About two thousand years ago, writes S. G. Morley, in the Mentor Magazine, while the peoples of northwestern Europe were living in a state of utmost barbarism, there was slowly flowering in the New world the most brilliant civilization of ancient America—namely, the Maya of southern Mexico and northern Guatemala. From a cultural point of view the Maya were the Greeks of the New world.

In many spheres of human activity these Maya excelled, almost beyond believing, in architecture, sculpture, and painting; in ceramics, stone and feather mosaics, and the lapidary art, in astronomy, history, and chronology. In this last-mentioned field their attainments were so remarkable that it may be claimed that no people of the Old world at that time—2,000 years ago—had worked out a system of chronology anywhere approaching that of the Maya, not only in accuracy of results, but also in simplicity of use.

This spectacular progress the Maya accomplished without man's two greatest aids to civilization in the Old world—namely, beasts of burden and tools of metal. When it is considered that they had no beasts of burden, no horses, asses, oxen, camels, or elephants to carry for them, nor tools of iron, bronze, copper, or tin to cut and hew and carve with, it may be ventured that, judged by what they had, they achieved more than any other people the world has ever known.

### Turkish Sumptuary Laws

The Constantinople vilayet council was recently asked by the ministry of the Interior to draw up a sumptuary law forbidding legal prodigality. A commission, which has worked hard on the project, has now devised a number of minute restrictions on the marriages of the well-to-do. Under the rules proposed a bridegroom will give his bride a ring not exceeding 20 Turkish pounds in value, about \$10, and no other wedding present. As for the bride, she may not bring to her new household more than two dresses in all, and her contribution to the furnishings may be no more than for one room.

Weddings must pass off without nuptial banquets, only sweets and innocuous srops being offered to the guests. The wedding procession must not parade more than five carriages or motor cars. As for banquets to celebrate the births of children, they also are forbidden.

These regulations, which have not yet been adopted, would have taken the wind out of a Stamboul Turk who, not very long ago, shocked the respectable street with a parade of 40 carriages and who opened 100 cases of champagne for his guests.

### Dictionary in Demand

The spelling bee in which Republican woman voters competed at the Oak Lane Review club on Tuesday was but a more elaborate event than many which nowadays test the fair orthographers at afternoon parties, says the Philadelphia Bulletin. Cross-word brain twisters necessitate many a resort to the dictionary and success in the game, whether for personal satisfaction or in trying for prizes, requires cultivation of the gentle art of correct spelling. Whatever the impelling cause, the benefit derived from improved orthography is very desirable.

Oldsters profited by the rigorous oral drill in spelling which was prominent in the simplified schooling of other days. Whatever the theory of modern methods, the results in modern manuscripts do not do it credit. There is too much bogging over words that enter into the ordinary vocabulary, too much spelling according to the letter-writer's own taste and fancy. If the cross-word puzzle and the spelling bee will help to better spelling they are to be encouraged.

### Hats Off, Fellers!

The Honorable Mrs. Richard Norton, before sailing back home with the prince of Wales' party, paid a splendid compliment to American manhood.

"American men," she said at a Tuxedo luncheon, "are the handsomest men in the world. But that is nothing. They are the most moral men in the world, and that's everything."

"An American girl writer was telling me the other day how, to get material, she traveled in the wild West and worked in factories and mines, and lived in the slums."

"'But aren't you afraid,' I asked, 'to go about in this way unprotected?'"  
"Oh," said she, "I'm not unprotected. I never venture beyond the call or the American gentleman."

### Soap Bubble as Eye Test

The tiniest things which the human eye can see are the black spots and patches sometimes visible in soap bubbles, said Sir William Bragg, lecturing recently on "Ray and Soap Films" at the Royal Institution, reports the New York World.

The rainbow-colored soap films are, therefore, not the tiniest things the human eye can detect. The black areas are so thin that if the soap bubbles could be magnified to the size of the earth and the thickness of the enveloping film increased in proportion the film would then be only the thickness of a sheet of glass.

### Canary Dealer Fined

For confining canaries in tiny cages made in German prisons, a dealer of Camden Town, England, was fined on the charge of cruelty to birds.

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