

EFFICIENT FARMING

MINERAL MIXTURES AND MEAT MEALS FOR BACON HOGS.

The availability of mineral matter for the proper nutrition of hogs is of vital importance and the normal demand for such in the development of frame and also in the functioning of the vital processes is strikingly apparent when such is lacking, more particularly with young growing pigs and brood sows.

The lack of an adequate calcium or phosphorus supply is not immediately apparent, but after a more or less prolonged period such deficiency will be manifested by a general debility and lack of tone in the animal and this followed by decreased production.

Of all classes of livestock hogs suffer more frequently because of their inability to utilize bulky roughage. Only three roughages being a fruitful source from which to draw sufficient mineral constituents to maintain the body requirements. The cereal grains, especially corn, are low in calcium and unless this element is supplied from another source a deficiency may be found. The addition of succulent feeds, such as roots, pulp, molasses, etc., and which consist of a collection of very soft, succulent, and easily digested material, is necessary because of the cause of the mineral content of these feeds among other reasons, and such cannot be too strongly advocated for winter feeding and when pastured crops are not available. Milk products rank high as sources of mineral matter and are a valuable supplement to the grain ration.

Other sources of mineral matter such as bone meal, meat meal, tankage, ground fish, stone, rock phosphate, fish meal, charcoal, etc., are more expensive but valuable sources upon which to draw.

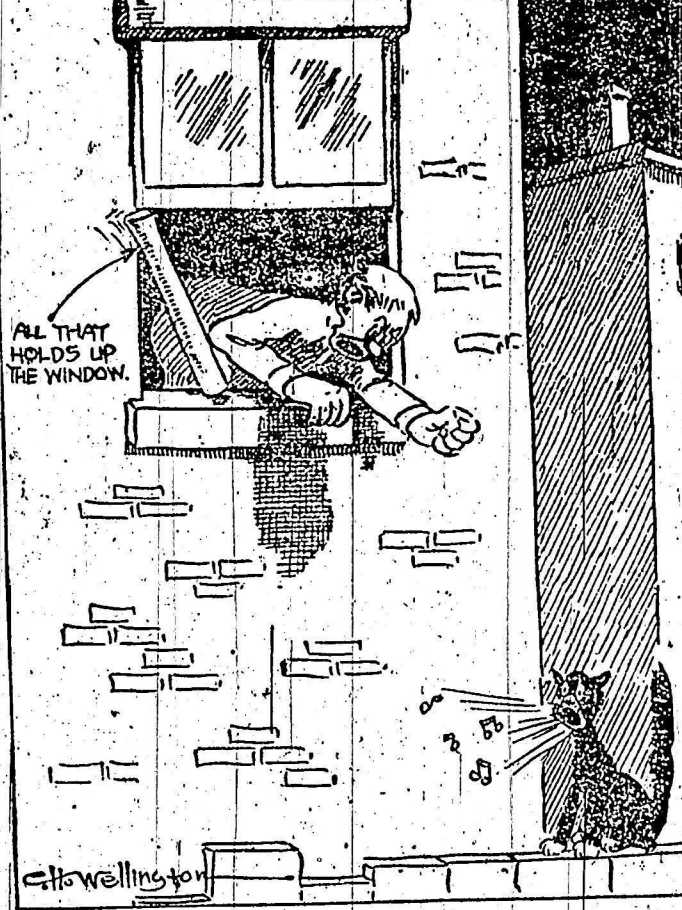
The exact amount of these last that should be supplied has not been definitely determined. With the object of obtaining some information on this matter, therefore, five lots of hogs totaling in all twenty head, were placed on a ration composed of ground oats, 2 parts; ground barley, shorts, and middlings, each 1 part; and oil meal 3 per cent, supplemented with skim-milk. Lot 1 was used as a check on the other four lots each of which received a mineral meal in a different manner. Lot 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Poultry

On many farms the hens obtain plenty of grit while on the range, but when housed for winter the grit supply is forgotten. If a barrel of fine gravel has not been saved for that purpose it pays to buy the commercial grit. Hens cannot obtain the proper nourishment from the hard grain and bulky mash unless they have grit to grind it up.

At once visited a flock of hens that were supplied with plenty of mash, scratch grain and green food, but the owner had not been able to go to town, thought the hens were empty. The birds were on a board floor covered with straw, so had no chance to dig gravel from the floor, as they often do in earth floor houses. The hens seemed lacking in appetite and vigor. The ground was frozen and covered with snow, so they could not obtain gravel. But we did find an old cracked earthen jug. This was cracked up by hammering the broken chunks on a chunk of wood. The small square bits of the jug were placed in a sackcloth and given to the hens. As we thought they were starved for grit, they ate down the jug like corn, and in about five minutes the jug was gone. The example proves the strong craving for grit that exists when hens are deprived of it. It is a fact that the fact that they cannot thrive without it. Before the roads are blocked with snow it always pays to inventory the poultry supplies and be sure there is sufficient grit to keep the hoppers filled.

AND THE WORST IS YET TO COME



Why Wood Alcohol is Fatal.

Old Father Hubbard went to his cupboard to get a glass of wood alcohol. To tickle his palate, that's all. In forty-eight hours, a prayer and some flowers.

Alas! It was wood alcohol. —Chemical Review.

When ordinary alcohol is taken into the body it is rapidly converted into water and carbon dioxide gas, which is exhaled. However, wood alcohol, which is promptly eliminated by the other hand, instead of being changed into harmless substances, remains in the body as such for a considerable time, and is then slowly converted into another poison—formic acid—the acid which is found in ants. This poison, which is highly toxic, attacks the brain and spinal cord, and causes death or blindness. Poisonousness is an inherent quality of wood alcohol. It is as impossible to prepare non-poisonous wood alcohol as it is to prepare non-poisonous acid. Individually, wood alcohol and formic acid are not poisonous, but when combined they become so. Some die, or become blind from wood alcohol. This is true, however, of all poisons. Death or blindness is not caused by the wood alcohol itself, but by the formic acid which it produces. Sixty drops of a one per cent solution of formic acid will kill a mouse. A quarter of a pint or half a glassful of wood alcohol will kill a man.

The Sunday School Lesson

JANUARY 13
The Long Sojourn in Egypt, Gen. Ch. 37-50. Golden Text—The Lord shall preserve thee from all evil: He shall preserve thy soul.—Ps. 121: 7.

The stories of the patriarchs of Israel are full of historical interest and contain moral and religious lessons of great value. There are more than a dozen of these stories, and they are all of very high order and the stories of Jacob and Esau and of Joseph are among the world's great classics.

Ch. 37: 1. Joseph came and told Pharaoh. The passage of the country is low ground extending from the eastern arm of the delta to the valley of Suez and the Salt Lakes. North and south of this district, there are high mountains. It was in this region that the battle of Tel-el-Kebir was fought in 1882.

V. 3. Thy servants are shepherds. Their occupation was an ancient one, and the Egyptians, who were not shepherds, but the Arab shepherds of the eastern border land, were frequently invaded and spoiled their flocks.

V. 4. We pray thee. It is not man who is prepared. It was Joseph who said, "I will be a shepherd to my father's flock. And their pasture shall be in the land which I shall say unto thee." He was a shepherd, and he was a man of God.

V. 6. The authority. It was Joseph who said, "I will be a shepherd to my father's flock. And their pasture shall be in the land which I shall say unto thee." He was a shepherd, and he was a man of God.

V. 7. Jacob blessed Pharaoh. The patriarchs were not shepherds, but the Arab shepherds of the eastern border land, were frequently invaded and spoiled their flocks.

V. 9. My pilgrimage. By this figure Joseph is shown to be a pilgrim, and his life is a picture of the life of a pilgrim.

Pa knew. Tommy—"Pa, what is an equinox?" Pa—"Why, or—is it—ahem! Tommy, don't you know anything about mythology at all?" Tommy—"I know that a half horse, half cow, is called a mule. Its name is derived from the words 'equus' and 'ox.' It does seem as if these public schools don't teach children anything nowadays!"

We were put into the world to live our lives, not merely to kill time. We can pretty accurately judge a farmer by the quality of the alfalfa which he grows.

WINTER FEEDING OF DAIRY COWS.

The cheapest milk production is made from the cow that will not eat much, but there is no reason why her profits should be made from the winter months. This, however, cannot be done by feeding her alone or with the addition of a few roots, as is often the practice. The winter ration should be made up of succulents, concentrates, and roughage with a plentiful supply of good fresh water.

The summer grass must be supplemented with a ration of succulents such as roots, pulp, molasses, etc., and which consist of a collection of very soft, succulent, and easily digested material, is necessary because of the cause of the mineral content of these feeds among other reasons, and such cannot be too strongly advocated for winter feeding and when pastured crops are not available. Milk products rank high as sources of mineral matter and are a valuable supplement to the grain ration.

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Honey and Some of Its Uses.

Honey consists of sugar about 75 per cent, water 18 per cent, and small quantities of mineral matter and other substances such as protein, acid and volatile oils. It is a natural product of the bee, and is a very valuable food. It is a natural product of the bee, and is a very valuable food. It is a natural product of the bee, and is a very valuable food.

Dollars From Winter Days

BAILS HAY WITH HOME-MADE PRESS.

One method of using the winter months is preparing the crops for market, instead of spending a lot of money to get it done. I do the baling of the hay and straw by hand. I made a box so as to hook the hay, full place chain and to run the hay over a top, then press with lifting jack, giving the length of jack, then catch with prop, trip the jack, put back under, then repeat until hay is brought to proper size, which is made in this way, warm stable on one man in mow. I made the box so as to have the bales larger than ordinary.

DOES IT THROUGH GOOD COWS?

It is not the most profitable way to increase of make any profit at all through the winter months is through the dairy cow. I have a herd of pure-bred Guernsey cows, and I expect to make the profit during the coming months.

In the first place, I belong to the county cow-testing association, and every month the tester comes to my place and checks up on the cows and their feed, showing me the ones which are the most profitable, and making a formula for a balanced ration, using only one man at press and one man in mow. I made the box so as to have the bales larger than ordinary.

The European Corn Borer.

The European corn borer, which was discovered in Ontario three years ago, has already done much damage in such districts as have been heavily infested. A regulation governing the movement of corn and other products, which was passed in 1911, has been found to be inadequate to prevent the spread of the pest. The quarantine regulations now in force include a large section of western Ontario, including the counties of Elgin, Middlesex, Brant, Essex, Hamilton, Haldimand, Halton, Kent, Lincoln, Norfolk, Oxford, Perth, Waterloo, and Wellington.

CANADA GROWS GOOD SEED.

Canadian seed growers have again demonstrated their ability to produce wheat of outstanding merit by the many winnings made at the recent Hay and Grain Show at the Twentieth International Live Stock Exposition, recently held at Chicago.

In the class of hard red spring wheat, open to all of North America, Canada succeeded, from a field of 91 exhibitors, in winning 15 out of 25 prizes, including the grand champion ship which went to Major Strange of Fern, Alberta, with Marquis variety. Major Strange, a prominent and successful member of the Canadian Seed Growers' Association, also won first prize in white field peas. Second prize for hard red wheat went to a Montana grower who had obtained his seed from Indian Head, Sask. Third to twelfth prizes inclusive were awarded to Canadian seed growers with the exception only of the sixth and eighth, which Montana claimed. All but two of the prize winning samples, including the first and second, were of the Marquis variety, the exceptions were Ruby and Kitchener. At least the first three prize winning samples at the International Hay and Grain Show since 1910, have been of the Marquis variety.

Repeating his victory of 1922, Mr. Biglands of Lacombe, Alberta, won the championship for white oats against all North America. In the regional contest 25 out of the 35 prizes offered for that section com-

Cleaning Rusted Rims.

Unless exceptional care is taken every car that uses the clincher tire is liable to damage the tires because of rust inside the rims. This rust accumulates when the car is driven over wet roads, and when it drives through mud, the fabric thin rims.

When the rims have become rusted they can be quickly and easily cleaned. For rear wheels jack up the car and remove the tire. Take a discarded file and rub the rim until the rust is removed. Then, using a wire brush, clean the rim until it is bright. The tire should be replaced.

Easy Rattled.

Turtle—"You look gloomy." Ratton—"I just lost my job." The boss said I was too easily rattled.

Content makes poor men rich; discontent makes rich men poor.

Fryers Pay Me 75% Profit.

I would rather have a chicken in the boiler and freeze than any other for market demands. At two pounds early-chickens will readily reach around \$1 per bird. At a pound and a half, if early enough, price is not much less. Later on, a fully grown bird often brings more. The consumption of a young flock is very great.

In the latter part of June I sold about 85 cents each. I have figured carefully, and find that a two-pound chicken may grow very cheaply. The result should be about 75 per cent profit when raised in good conditions.

In June and July I have chickens for the Thanksgiving and Christmas holidays, when the price is even higher than it is of early-hatched chickens. About Christmas a 2 1/2 pound chicken is usually being sold at \$1.40, G. G.

Progress.

I am Progress. At my 1500th birthday I was old and wise and peaceful. I was the world's best friend. I was the world's best friend. I was the world's best friend.

IN RABBITORO

MRS. POPEYE WANTED A MAN TO COME IN AND LOOK AT HER PORTRAIT.

IS IT FINISHED, MR. WIGGLENOSE?

OH YES, AND I MUST SAY, I THINK IT IS JUST LIKE HER!

WE'LL DON'T I LIKE IT—BUT I KNOW IT—BUT THERE'S A REASON ABOUT THE MOUTH THAT DOES NOT SEEM RIGHT!



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Hotel

Hotel advertisement text.

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