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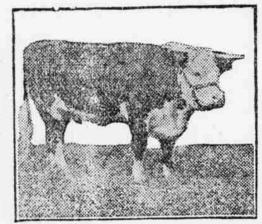


STEER RETARDED IN GROWTH

Stunting an Animal as Result of Insufficient Food May Be Only Temporary Condition.

Live stock products are the result of growth. By far the largest part of increase in animals is the result of growth. The younger the animals the greater the growth impulse. Many factors influence the tendency of an animal to grow. Amon; these are age, condition, gestation, lactation and the quantity and quality of food. A given amount of food will produce more growth on a young azimal than on the same animal at a 'ater age. All the growth factors influence the young animal much more powerfully than older

If an animal's food supply is insufficient for normal growth, the animal may be *etarded in growth. If this



Well-Fed Hereford.

insufficient food may be only a tempo- essary drain upon his strength and rary condition. An animal does not vitality. Nor is this all. A horse that lose its capacity to grow as the result sweats freely during the changing of stunting. F. B. Mumford, dean of weather of spring is very apt to take the Missouri College of Agriculture, cold. Rough, shaggy coats should be cites a feeding test at the Missouri ex- clipped in the spring before heav. periment station in which an animal work begins. that had been stunted by poor feeding to such an extent that it weighed only | market for this purpose, and they can 200 pounds at twelve months of age, be bought at very reasonable prices. gained 841 pounds during the second | A good clipper will pay for itself in & year. Only 5.6 pounds of grain for single season on almost any farm, and each pound of gain made were re- sometimes it will do much more than quired on this steer stunted during the that. If a team is laid up with a bad first twelve months. A steer that had | cold for a few days when work is been generously fed during the first pressing the loss of work may become twelve months of his life gained only very expensive. This should be avoid 500 pounds during the second twelve ed by the use of a clipper and inci months, and this gain was more expen- dentally also make the horse more sive than the gain made on the stunted comfortable. steer. The amount of grain required to make a pound of gain on the wellfed steer was 9.8 pounds.

It is certain that stunting an animal even for so long a period as twelve months does not destrey its capacity

GAINS MADE FEEDING LAMBS

to Determine Value of Alfalfa and Prairie Hay.

The best gains ever secured at the South Dakota experiment station in feeding lambs was in an experiment to determine the comparative value of alfalfa and prairie hay with the same kind of a grain ration. The grain ration consisted of a mix-

ture of 100 pounds of oats, 100 pounds of shelled corn and 25 pounds of oll Each lot was started on one pound

per head of the mixture daily, and tocreased until they were receiving two enough, but a hog goes through. If

the lot that received the alfalfa hay second and forty-ninth time. was .51 of a pound, while with the lot that received the prairie hay, the aver- failing to supply something which the age daily gain per head was .38 of a animals crave in the feed makes hogs

DAILY EXERCISE FOR STOCK

Horses and Mules Should Be Given Run for an Hour or So in Lot Adjoining Stables.

Horses and mules should have good dally carding and regular exercise. If there is nothing for them to do remove their shoes and give them a run for an hour or so in a well-fenced

lot adjoining the stables. ture is of stout woven wire, rail or a omy in rearing hogs to provide them combination board and smooth wire, with comfortable quarters. It is Barbed wire should not be used, as it cheaper to warm a hog with a reasonis dangerous.

SUNLIGHT IS BIG ESSENTIAL

Provision for Admission of Maximum Amount of Light in Barn Should Not Be Overlooked.

No barns or shelters for any kind of animals should ever be constructed without making ample provision for the admission of the maximum amount of sunlight. Such buildings should have a southern exposure, if possible, This will provide extra warmth in the winter time and the sunlight which is thus permitted to enter the building will destroy many disease genus.

ISE OF BACTERIAL VACCINE

Vaccination as Preventive for Strangles and Distemper Being Extensively Employed.

The vaccination of horses as a preventive for strangles or distemper is being extensively employed. It has been found that the cause of the disease warrants the use of a bacterial vaccine. This gives assistance to nature's own efforts of protection and forms the logical means of preventing strangles as well as other diseases; gaused by specific organisms.

The outcome of the vaccination of horses has in some instances been disappointing. It is possible that in such cases the bacteria has deteriorated or become ineffective, or that the results are complicated by secondary infections. In the latter case it is advisable to use bacterins that will combat the secondary infections. These are called mixed bacterins, and contain a variety of killed bacteria commonly encountered in such diseases.

In case distemper appears, all healthy animals should be immediately injected with streptobacterins. The administration of bacterial vaccines should be made by a competent veterinarian, as improper administration may not provide proper protection and so result in irregularities. Bacterins can be obtained from manufacturers of various biological products.

CLIPPING HORSES IN SPRING

Heavy Coat of Hair Causes Much reating, which is Enervating to Work Animals.

A good many horses come through the winter season with heavy, rough coats that are not shed when spring work begins; the result is they are untreatment is continued for a long time | comfortable when at heavy work. A the animal may become permanently heavy coat of hair causes much sweat ing, which is enervating to the horse Stunting an animal as the result of and consequently produces an unnec-

There are excellent clippers on the

KEEP ALL SWINE CONTENTED

One of Most Difficult Animals to Con trol Once It Gets Habit of Breaking Out of Pasture.

When a hog once gets the habit of getting out of its yard, pasture or whatever its enclosure may be, it is Result of Test at South Dakota Station one of the most difficult animals to control. You can stop a breachy horse or cow if you build a fence high



Contented Sow.

and one-tenths pounds per head of there is no hole in the fence it makes grain daily, and what hay they would one. Of course if the fence was so tight at first that the hog could not The average daily gain per head for get through, it won't bother you the

Insufficient or irregular feeding, or restless and ready to take the first chance of exploring the outside world in hopes of finding what they failed to find in their troughs.

It saves time and patience to keep them contented and at home.

COMFORTABLE PEN FOR SOWS

Cheaper to Warm Animal With Reasonably Good Building Than to Furnish Alfalfa.

Do the hogs have warm, dry beds? The best and safest fence for pas- Remember that it is a matter of econably good building, with straw and litter, than to burn alfalfa hay and 60cent corn in maintaining the heat of the animal body.

PERMITTING RAM WITH EWES

Flock Longer Than Six Weeks to Prevent Accidents.

Never let the ram run with the ewes any longer than six weeks, for he will oughly. The dough should be of such built them around and cause them to They will mostly all get with lamb sooner than this, but it is best to keep

him in long enough to be sure.

Parched cornmeal is the feature of these excellent wheatless biscults. First, the commeal-one-half a cupis put in a shallow pan placed in the oven and stirred frequently until it is a delicate brown. The other ingredients are a teaspoon of salt, a cup Not Advisable to Let Him Run With of peanut butter and one and a half cups of water. Mix the peanut butter, water and salt and heat. While

sixth of an ounce of protein,

WHEATLESS BISCUITS.



this mixture is hot stir in the meal which should also be hot. Beat thoronsistency that it can be dropped from a spoon. Bake in small cakes in an ungreased pan. This makes 16 | Pour in the milk and add the rye flour biscuits, each of which contains one-

FACE the FACTS

Unless the Allies fight as they never yet have fought, defeat threatens. Hungry men cannot fight at their best; nor hungry nations. France, England, and Italy are going hungry unless we feed ther.

Wheat Savings-They must have wheat. It is the best food to fight on. It is the easiest to ship. We alone can spare it to them. By saving just a little less than a quarter of what we ate last year-we can support those who are fighting our battles. And we can do it without stinting ourselves. We have only to substitute another food just as good.

The Corn of Plenty—Corn is that food. There's a surplus of it. Providence has been generous in the hour of our need. It has given us corn in such bounty as was never known before. Tons of corn. Trainloads of corn. Five hundred million bushels over and above our regular needs. All we have to do is to learn to appreciate it. Was ever patriotic duty made so easy? And so clear?

America's Own Food-Corn! It is the true American food. The Indians, hardiest of races, lived on it. Our forefathers adopted the diet and conquered a continent. For a great section of our country it has blong een the staff of life. How well the South fought on it, history tells. Now it can help America win a world war.

Learn Something—Corn! It isn't one food. It's a dozen. It's a cereal. It's a vegetable. It's a bread. It's a dessert. It's nutritious; more food value in it, dollar for dollar, than meat or eggs or most other vegetables. It's good to eat; how good you don't Best '', it's plentiful and it's patriotic.

Corn's Infinite. ——How much do you know about corn? About how it is? About the many delicious ways of cooking it? And what you miss by not knowing more about it? Here are a few of its uses:

There are at least fifty ways to use corn meal to make good dishes for dinner, supper, lunch or breakfast. Here are some suggestions:

HOT BREADS Boston brown bread.

Hoecake. Muffins. Biscuits. Griddle cakes. Waffles.

DESSERTS

Corn-meal molasses cake. Apple corn bread. Dumplings. Gingerbread. Fruit gems.

HEARTY DISHES

balls. Corn-meal croquettes. Corn-meal Meat and corn-meal dumplings Italian polenta

The recipes are in Farmers Meal as a Food and Ways of Using It," m the Department of Agriculture.

1-wheat use more corn

2-meat use more fish & beans

3-fats use just enough

4-Sugar ouse syrups

and serve the cause of freedom



Here's an old fashioned recipe for corn muffins that has recently been in several of the larger New York hotels: To make three and a buil dozen muffins take one quart milk, six ounces butter substitute twelve ounces of light syrup or honey, four eggs, pinch of salt, two ounces baking powder, one and a half pounds commeal and one and a half pounds are though the butter and syrup sibulated incountdy mixed; then add the east gradually, mixed with cornmeal and boking pow-

DELICIOUS CORN MUFFINS.



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