

Hog Cots Banked Up on Sides to Keep Animals Warm.

ton among farmers and good farmers est gains in live weight during the at that—as to the age at which sows first two months of their existence. should be bred. Some men breed gilts at ten or eleven months, while others tity of the ration should always be do not breed until they are two years | made very gradually.

long, lean, narrow head, and a wicked little eye. She is apt to be nervous or seven good even pigs are often and cross and a pig eater.

It is a good plan to feed a little ones. grain to the growing pigs, even though they are running on good pastures.

In the South many hog raisers turn their young hogs out into the swamps along the rivers and creeks, and pay no attention to them during the entire summer, rounding them up in the fall, only to feed them two or three weeks before shipping them to market. Some surprisingly good results are obtained in this way, too.

Sows with a young litter should be watched carefully, for there are many sows that do not give enough milk to start the pigs off well. In such cases the youngsters should be fed a little whole cow's milk, warmed at first, and later skim milk, with a handful of aborts in it.

The man who raises pigs for market, and pushes them along with some grain, shorts and oats, even while they are running in rich pastures, will bring them to perfection much more quickly than if they are allowed to run on grass alone, until fall.

Keep the box full of charcoal, salt and sulphur, where the pigs can get at it all the time. It may surprise you to properly appropriated by the tissues find out how much they will eat, but it will pay to provide this food for them.

When pigs are old enough to eat they should be fed in a separate pen from that in which their mother is confined. A door just large enough mother should be placed in the parti tion, so the youngsters can come and go at will.

Sunshine and exercise are the indispensable rights of all farm animals. Modern hog houses are, as a rule, too close, too warm and too comfort-

Poor ventilation is the common fault and the inaccessibility to sunlight is an equally serious one.

It is a sad mistake to imagine that increasing the bulk of the feed for hogs by adding water will do them any

Clean food and clean quarters will keep the hogs healthy.

good.

Keep the troughs clean. Never feed any fermented food.

Among the feeds that should be given is skim milk, which is very good, as it contains a large amount of protein, and is bulky. Clover is an exceptionally good feed in the green state, and even clover hay steamed proves very nutritious. Oil meal cake contains much nutriment of the right kind. Where alfalfa can be had it is also good. Oats in various forms furnish the exact kind of nutriment most serviceable for the breeding animals.

The sow that is carrying pigs needs a large amount of protein food on account of the extra bodies she is building up. But care must be taken not to have too much protein in the food, as the starchy parts are also needed. The starch-forming elements should be five or six times the protein elements. This is about the composition of cat meal. Bran is a highly nitrogenous feed and should be balanced with something else when it is fed. All plants that have pods are rich in protein and are thus good materials out of which to make food for breeding is one of the best. Cabbage, carrots

Young boars will usually make better growth if kept separated from the sews. There might be conditions or exceptions where this would not be true, but they will certainly be rare. bran, enough to take up the moisture Not only should the boar be separat. answers this purpose. Skim milk added from the sows when there are ed to the mash will give good results. song pigs around, but at all other Plenty of fresh water and grit should dag a boar is to let him run with all times. the rest of the herd. He should be kept in a lot by himself, but this lot be large enough to furnish

There is a great difference in opin- | Pigs make the heaviest and cheap

Changes in the character or quan-

Do not judge a brood sow alone by Never select a brood sow with a the number of pigs she raises. Quality must always be considered. Six worth more than nine or ten uneven

When you get a business sow keep her as long as she does well.

GOOD REMEDY FOR PARALYSIS IN HOGS

Colorado Expert Recommends Treatment Ailmentfor Cause of Trouble.

(By GEORGE H. GLOVER, Colorado Agricultural College.)

Partial or complete paralysis of the hind legs of hogs is seen so often in swine herds that a common cause has been suspected but not definitely determined.

inbreeding, parasites, and an unbalanced ration, have each in turn been assigned as the probable cause of this particular form of paralysis, and now it is quite generally attributed to a lack of phosphate of lime. This sait in a form that can be appropriated may be deficient in the ration or not of the body, or again, it may be because of a drain on the system for phosphates to nourish the growing fetus or the young after birth.

it is a well-known fact that there is a deficiency of phosphate of lime in to admit the pigs and keep out the the bones and other tissue of pregnant animals and in those that are suckling their young. This is especially true of the sow. But this condition is not confined to pregnant animals. In one instance a herd of 44 hogs, of both sexes, and ages ranging from ten months to two years, nearly all of them were affected with partial or compiete paralysis of the hind legs. The ration had been largely raw potatoes.

> They appeared to suffer no pain, the appetite was quite normal. A balanced ration would probably have prevented this condition. The following treatment has been recommended and should be helpful in these cases. One tablespoonful of cod liver oil, 15 grains phosphate of lime and three drops of fluid extract of nux vomica mixed with the food twice a day.

LAYING HENS MOVING IN WINTER

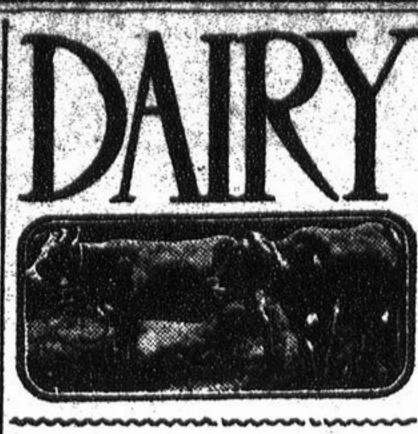
Throw Their Feed in Litter of Some Kind and Make Them Scratch for It.

Make your hens work for all they get to eat. Keep them moving about during the day as much as possible by throwing their feed in chaff, cut straw, shredded cornstalk or other material. Give them as much of a variety of

grain as you possibly can. Wheat, oats, cracked corn, barley and buckwheat are all good, but should be mixed together when fed. Never feed all of one kind of grain at one time. They like a variety. For green food, second cutting of clover and mangel-wurzels can also be fed to advantage. They should be fed at least three times a week meat of some

Beef scraps soaked and mixed with The most expensive way of be where they can have access to it as

Separate the Hogs. Separate the breeding stock from green feed and plenty of exer the fattening hogs, also separate the larger from the smaller one



BUSINESS OF WINTER DAIRY

Adapted to Peculiar Conditions an Localities-Special Attention to Products When Highest.

(By W. MILTON KELLY.) Good farming consists of making a profit out of the farm and at the same time leaving it better at the end of each year than it was at the beginning.

One of the mistakes that we often make when we are measuring the success of a farmer is when we consider only his net profits for the year.

This measure is not correct unless we take into account how much he has drawn from his capital stock, the fertility of his farm, the buildings, machinery and implements. It must also supply him a comfortable living for his family.

Dairying is of two kinds, winter and summer dairying, and each is adapted to peculiar conditions and localities Summer dairying is best adapted to lands where grass growing is the most important feature and on cheap lands that are not productive of large erops of grain and fodder.

The cows are bred to come in about a month before they are turned out in the spring, and fed just enough to keep them healthy during the winter. This system of dairying does not require as expensive buildings as winter dairying, and is as profitable.

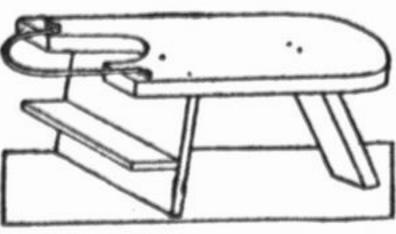
Winter dairying implies giving special attention to the production of milk and dairy products in winter when these productions are highest The cows freshen in the fall and are fed grain and commercial foodstuffs in connection with their fodders and hay and by consuming considerable purchased grains it adds a large amount of fertility to the farm.

Some advocate summer dairying and some claim that winter dairying is the most profitable; but my experience convinces me that all-the-yeararound dairying is more profitable than either, as it brings in about the same amount of money each month when it is conducted properly and the cows can be made to give milk all of the time, with the exception of six weeks or two months before they are due to first opening her and looking at the

EASY TO MAKE MILK STOOL

Pail Is Kept Close to Cow's Udder and There is Little Danger of it Be-Ing Knocked Over.

It is not a great deal of trouble to make a milk stool that keeps the pail up close to the cow's udder, and at the same time holds it so that there is



Handy Milk Stool, Not Easily Tipped

little danger that it will be knocked over, writes Chester M. Wilson It Farmers' Mail and Breeze.

The front leg of this stool has a projecting rest upon which the pail is placed to keep it from the ground The front is hollowed to receive the pail, which is held in place by a wire

VALUE OF SILAGE FOR FEED

Corn and Clover Contain Greatest Percentage of Dry Matter-Roots Contain 90 Per Cent Water.

(By R. R. GRAVES, Dairy Department Oregon Experiment Station.) The relative value of roots, kale and silage—the usual sources of succulence for winter feeding-depends upon their composition, comparative

feeding values, cost of production, keeping qualities and convenience of

The total digestible nutrients in one ton of corn silage is 326 pounds. In ton of red clover silage the total is 224 pounds, but the nutritive ratio is 1 to 6.9, while in corn it is 1 to 11. The digestible nutrients in a ton of sugar beets is 224 pounds, with a ratio of 1 to 8.5. In rutabagas the total is 186 pounds to the ton, with a ratio the same as that of sugar beets. The digestible nutrients in a ton of kale are but 139 pounds, while the ratio is very narrow-1 to 2.8. It is also true that the nutrients of apple pomace on hand for the scratching shed. In sflage are pretty high, about 216 winter when the fowls have pretty pounds to the ton. Their nutritive | well worn out their litter, a carload ratio is the widest of any of the com- of this trash will keep them busy for

15.3. The corn and clover silage contain the greatest percentage of dry matter, while kale and some of the roots contain 90 per cent water. One ton or corn silage contains as much digestible nutrients as a ton and a half of sugar beets, 1.8 tone rutabagas or car- litter.



House Cleaning Time.

Poultry quarters every spring and fall will go a long way toward increasing cutting down their production trementhe production of the flock and decreasing the number of untimely deaths among the chicks, according to a statement recently made by J. G. Halpin of the college of agriculture, University of Wisconsin.

Cleaning out the droppings and the or sand, is the first step in the "clean- as we ordinarily use to spray with up." By bringing the level of the paris green in the garden, or to whitefloor up several inches above the level | wash in barns, may be used. corners, and take every bit of movable | and grit. material out of the nests.

tend. These pests kill off large num- for their owner.

A thorough "house cleaning" of the | bers of young chicks in the spring and sap all the life out of the older fowls.

Spray liberally the whole inside of the house, with a mixture of 14 parts of kerosene and one part carbolic acid, being very sure that every crack and corner where lice and mites or their eggs might be hidden, is thoroughly sour top layer of soil from the floor, soaked. To do the spraying, any orand hauling in some clean, fresh dirt | dinary hand spraying machine, such

of the ground outside, good drainage | After this spray mixture has dried is secured and the fowls will have dry off, apply a good coat of whitewash. "footing" which is absolutely neces- Finish up the job by covering the sary to keep them healthy. Roosts floor with several inches of bright should be scraped clean of fifth in straw or chaff, filling the nests with order to remove possible lodging some clean straw or wood shavings places for lice. Brush all the old cob- and furnishing a dish of clean water webs and dirt from the walls and and a hopper of crushed oyster shells

If the chickens can be treated for By thus "stripping" the house, we lies before being called into their have a chance to get at the lice and renovated home, the job will be commites, which are among the worst ene- | plete and thorough, and the chickens mies with which poultry have to con- will begin a new era of prosperity

HOW TO PICK THE MONEY-MAKING HENS

Do you know which chickens in your flock are producing enough eggs to pay for their feed?

Can you tell the hen that lays thirty eggs a year at a time when they sell at retail for 18 cents a dozen, from the hen that lays six times that number, many of them in the season of high prices?

Can you tell the steady layer from the "boarder" in your flock without egg sack?

These are some of the questions that puzzle poultry farmers the country over.

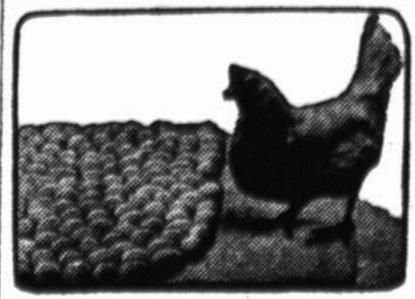
The hen that produces three or four eggs a week, and is on the job nearly the year around is the hen that is always hustling, according to J. G. Halpin of the college of agriculture, University of Wisconsin.

THE HEN THAT LAYS THE EGGS

Is busy all day. Is pervous yet unafraid. Has bright eyes and a scarlet

is always singing and always huagry.

She is the first hen off the roost in the morning and the last on at night. plow in the spring in search of grubs



With Her Year's Work Laid Out Before Her.

on weed seeds in the fall. She is the hen that is unafraid, yet nervous; the hen with the bright eye and the scarlet comb. She is always singing as she works and is generally at work scratching away for dear life making her own living out of God's good green earth. She goes often to the water tank and drinks deeply for much of the eggs she produces is water.

Litter for the Hens. Gather up all weeds, grass, leaves, and waste hay or straw and keep it mon winter succulents, being 1 to several days. The weed seed and the few insects it contains give them a new incentive to dig.

> Litter in Hen Hou Have from eight inches to a fo floor, and keep whole grain in

To Improve the Egg Crop

- 1. Keep a standard variety.
- 2. Provide clean, dry nests.
- 3. Gather eggs twice daily.
- 4. Keep from heat and odors. 5. Market twice weekly. 6. Confine all male birds after

June 1. -Halpin.

CHICKEN MENUS HIGHLY POPULAR

Every since the good old days when the trusty "blunderbuse" of the ploneer used to bring down coveys of pose. partridges and quail and an occasional wild turkey along the virgin trail of the wilderness, plump, juley, well cooked, soul-satisfying poultry and "chicken fixin's" have been a source

of gratification to many people The humble hen and her descendanta of both genders have groved a me a lip stick," delectable topic of conversation at many a boarding house. From the tender "back piece" to the brittle cartilage at the point of the breast bone, and from the neek to the 'Parson's nose" every morsel has its own separate and distinct appeal to the human appetite. Few can resist ft, and even babes in arms have been known to gnaw at a roast wing with

greasy satisfaction. Even with the advent of the cabaret She is always foraging; following the and the "hot dog" lunch places the importance of chicken on the menn has and cut-worms, roaming the woods not been forgotten nor replaced. To and fields during the summer, devour- the housewife who has the wherewithing many injurious insects and their al to obtain a chicken and the skill to larvae, and busily gleaning about the prepare it, there is no need to worry threshing machine or gorging herself over what shall be the crowning glory of the feast spread for special "com-

There are many ways of making the ordinary barnyard variety of fowl taste delicious beyond the wildest dreams. A few recipes of a safe and sane nature from the Wisconsin Farmers' Institute Cook Book are added as an aid to cooks in search of other ways to serve this popular mest:

To Roast Poultry.-One rule will apply to all poultry. Have oven very hot until skin is browned, then cool, and if poultry is stuffed, cook twenty minutes to the pound; unstuffed fifteen minutes. Salt pork is very nice to use for basting purposes; baste frequently; when half done add one teaspoonful of salt and one-fourth tea spoonful of pepper.

Chicken Fricassee. - Dress, clean and cut up the fowl, put in a kettle, cover with boiling water, bring to a boil, then simmer until tender. When half done add pepper and salt; finish cooking, thicken the stock, add a little cream if you can spare it. The time for cooking must depend upon the chicken or fowl used; an old one may be stewed this way for three hours.

Maryland Chicken. - Dress, clear and out up a chicken; sprinkle with salt and popper; dip in flour, ogg and crumbs: place in well greased drip ping pan and bake in hot oven, I with one-third cupful melted butter Arrange on platter and pour over two cupfuls cream sauce.

Creamed Chicken, -- One and on

Get a 10-cent box now Turn the rescale out—the h stomach and foul same-turn out to-night and keep them of

Cancarets. know the misery caused by s liver, clogged bowels or an u

Don't put in another day of di Let Cascarets cleanse your remove the sour, fermen take the excess bile from your bowels. Then you will feel great. A Cascaret to-night straightens ye

out by morning. They work any drug store means a clear sweet stomach and clean, healthy lives and bowel action for months. dren love Cascarets because Uses never gripe or sicken. Adv.

ASKED SPEAKER FOR A SONE

And Bibulous Gentleman Escaped Anger of Dignified Head of Britisi Parliament.

Mr. Balfour is credited with know ing more good stories about the British house of commons than any oth member. One of his best is the lowing, which he told at a public di ner some time ago:

"I remember hearing of a distinguished gentleman," he said, "who reported in the press gallery just abo one hundred years ago. He had he with excellent wine. He was bore with the debate. He was wearled w the superfluity of rhetoric, which p valled just as much one hundred y ago as today. He got bored, and I got up and asked the speaker for a

"The speaker of that day was Mr. Addington, a gentleman who was no ing, if not proper. The whole house, except the speaker, was conven with laughter.

"The sergeant-starms was a to. He went to the gallery and he i quired. The culprit retained the pre-Quaker sitting below him, and the unfortunate gentleman was a taken into custody."

Badly Match Mrs. Yeast-This paper says the matching of colors has been brot down to an exact science by the invention of a machine for the

Mr. Yeast--- You ought to get the people who run the store where you buy your hair to get one of those chines, dear."

Fitting Ejaculation. "Here that mean fellow has send "Can you beat ft!"

Liberal Doses Subbube-How often is this cine to be taken? Doctor-Between cooks.

A Difference. "Authors nowadays don't live in attica, do they?"

"No; they prefer best sellers." A man hasn't a very good religion when he regards Sunday as the longest and drearlest day in the week.

The Meat of Wheat

and child

he wheat is lost because Nature under the bran-

Grape-Nuts