

milk, and the digesting which rots the

curd. The latter class is like the out-

plant, in that it is able to grow at

a low temperature, while the lactic,

like the corn-plant, grows best at the

Milk which is held at well-water

temperature will remain sweet for one

Types of Sanitary Milking Stools.

This temperature, however, is more

partly unfit for use. If milk is kept

on ice almost from the time of milk-

the milk will be in prime condition

For the most rapid cooling of milk,

1. That cold air is better than no

2. That cold water is more rapid

3. That an occasional stirring hast-

4. That ice water is much more

5. That a mixture of ice water and

salt is the most efficient cooling agent.

To insure pure mllk, free from im-

purities, the utmost care must be taken

In every part of the dairy from the

barnyard and stables to the bottling

of the milk. Absolute cleanliness is

recommended and they should be kept

essential. Iron milking stools are

No. 1 is a good type of sanitary

stool made of metal. The ends of the

pipes used for the legs are filled with

lead, and there are no corners to col-

Nos. 2 and 4 are similar to No. 1,

except that caps are screwed on the

ends of the legs, making them slight-

No. 3 serves for both pail and milk

No. 5 is devised so that one end

serves as a receptacle to hold the pall

while the milker sits on the other end.

As in the case of No. 3, this style is

more difficult to keep in a sanitary

No. 6 is constructed entirely of iron,

galvanized after being put together.

It is simply constructed, having only

a single leg. The base, however, fur-

nishes a larger surface to keep clean,

Of the several stools shown herewith,

therefore the most desirable.

Keep milk Cold.

specialists, are:

No. 1 is the easiest to keep clean,

Clean.

Covered.

condition than the simpler forms.

stool. The cover, hoops, bail, etc.,

make it more difficult to keep clean

ly more difficult to keep clean.

rapid than air of the same tempera-

the following points should be ob-

after several days,

attempt at cooling.

ens the cooling process.

scrupulously clean.

than cold air.

ture.

higher temperatures.

Berkshire Boar,

will study and apply some of the fundamental principles underlying the business.

On the average farm there should be radical improvement in breeding and the care of details during farrow-Ing, weaning, etc. There are many complaints throughout the country either of small litters or else a great zmortality in pigs. By keeping the production records of sows and selecting from those that produce and raise large average litters a breeder can raise to its most efficient point the size of his litters. This probably runs between seven and eight to the litter. The hog raiser can prevent losses, other than those caused by disease, by providing proper shelter for the sow at farrowing time. The raiser should siways cultivate the confidence of his animals by quiet and humane handling; this care and attention in times of necessity will pay big returns.

#### SHEEP KILLED BY MAGGOTS

Parasites Develop in Clotted Filth in Wool and Work Well Over the Hind Quarters.

Much injury from maggots on sheep is reported this senson. In ordinary years these maggots bother only the or more days, depending upon the lambs, especially following docking cleanliness of milking and handling, and castration, when sores are ex- because the temperature is low enough posed. The maggots develop in the to prevent rapid growth of lactic bacclotted filth in the wool and work well teria. over the hind quarters if not checked. If undisturbed they become so bad that serious injury and death frequently result. Under favorable conditions the maggots develop in 24 hours.

Each sheep should be carefully ex- ing, there will be but very little develamined, and enough lysol or some other dip of practically full strength at the first application should be poured on the maggets. Apply as many times as is necessary to be effective. Then examine frequently, and when the maggots are all killed apply a healing salve so that the skin will keep soft and the wool will grow

## MARKING SYSTEM FOR LAMBS

Simple Plan Outlined in Illustration Given Herewith-Notches in Ears Indicate Numbers.

This marking system is simple. If you want to mark a lamb as No. 3, make notch in ear where "3" is indicated. The numbers can be com-



Simple Marking System.

bined, as for instance in marking No. 9 where "5" and "4" are marked on the left ear, as shown in the dlagram. Sufposing the lamb is No. 22, then the right ear is notched at "20" and the than the simpler styles. left ear at "2."

# PROPER CARE OF BROOD SOW

Start Feeding Little Grain About Month Before Breeding Time-Give Oats and Alfalfa.

About a month before breeding time brood sows that have been living on pasture since their pigs were weaned may be started on a little grain.

Oats and finely cut alfalfa fed twice a day in amounts which the sow will wendily clean up will put them in good

condition for breeding. Larger and more vigorous litters will he obtained if the sow is in a vigorous condition when bred. She should he gaining in flesh at the time, not fat, but just starting to get fat.

e housewife meone in the milk in a clean, over it instantly, and delay toto the refrigerae coldest available place. no circumstances should an unered pitcher, bowl or pan be left out on the porch to receive bulk milk. The vessel, both before and after the milk is poured into it, is accessible to flies and collects particles of dust and

delivttled milk

# BENEFITS OF FALL PLOWING

Than in Spring-Weeds and Insects Destroyed.

(By J. L. HIERS, Louisiana Experiment

The soil is generally in better condition in the fall for plowing than in the spring. Fall plowing gives a better texture to the soil and causes a greater liberation of plant food due be gathered and soon the milk flow to the action of the weather. By turning the organic or vegetable matter under earlier it has, of course, more time to rot and to become thoroughly incorporated with the soil.

Fall plowing causes many of the weed seeds to germinate, thereby decreasing this pest the following spring. Many insects are turned to the surface and killed by the frosts.

The time for fall plowing should be largely a matter of convenience. The heavier soils can be safely plowed first. Land with a great deal of vegetable matter to be turned under should be plowed early in order to give this matter more time to rot. In the spring there is not always time for the proper preparation of the soil, especially where the crops are to be planted early, so it is good farm management to do a part of this preparation in the

It isn't always the best plan to plow sandy lands in the fall unless they are also seeded to a cover crop, otherwise there is apt to be much loss from leaching and erosion. It is much more important to put a cover crop on sandy soils than on heavy soils, especially if the land is not entirely level.

## BIRDS SPREAD HOG DISEASES

Crows and Buzzards Tear Flesh of Dead Animals and Carry Infection to Neighboring Farm.

Crows and buzzards are all right where they belong, but they have no place in the hog lot. The buzzards especially are most excellent disease spreaders. Wherever a dead animal favorable for the digesting class of of any kind lies exposed for any FURNISHING WATER FOR COWS bacteria, which imparts an old, stale length of time these scavengers will odor to the milk, and renders the milk claws for tearing the flesh and when they go to the next place carry pieces of flesh and a load of infection with opment of either class of bacteria, and them. If an animal dies of some infectious disease and is left for the buzzards to get at they are sure to hall, probably some hog lot 20 miles nway.

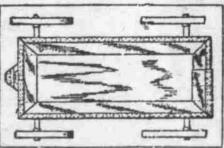
Throughout the South they are protected because of their value as scavengers, and where they are found in abundance hog cholera prevails-if all the hogs have not already died off. The only way to fight this form of contagion is to maintain such conditions that buzzards and crows will not be attracted.

The safe way to handle any animals dying of contagious diseases is to burn them. If buried, dogs may dig them up and carry germs all over the country on their feet.

## PREVENTING LOSS OF GRAIN

Wagon-Box Fitted With Lining of Canvas or Like Material Found to Be Quite Satisfactory.

In hauling small grain in farm wagons over rough roads there sometimes is a loss of grain because the sides of the wagon-box are jarred away from the bottom. The box shown Dairyman Is Fortunate Who Has here is provided with a lining of canvas or like material, which covers the sides and part of the bottom and pre-



Wagon-Box Lining.

vents this loss. It covers about onefourth of the bottom around the edges of milk in the home, according to dairy by metal books riveted to the canvas. At the rear, one end of the lining laps the lower part of the tail board is re-Milk is a highly perishable food, moved and the ends are spread spart. good. and the length of time it will remain | Farmer's Mail and Breeze.



#### HEAT REDUCES FLOW OF MILK

Poor Pastures and Flies Also Contribute to Loss-Main Thing is to Feed Cows Well.

By C. H. ECALES, Missouri Agricultural Experiment Station.)

During hot weather the milk flow of the average herd drops down nearly nalf. The heat and the condition of the pastures common at that time of the year are the main causes of this irop. The flies generally blamed are of much less importance than other conditions. The real cause is the failare of the animals to eat sufficient Soil is Generally in Better Condition feed. Poor pastures, heat, the flies may all contribute to this result. It will be observed that during the hot weather the cows will graze but little and come to the barn at night evidently hungry. To produce three gallons of milk a day a cow has to gather at last 100 or 125 pounds of grass. If he pastures are short and the weather hot, generally this much grass will not roes down.

The influence of these summer coniltions cannot be removed, but may be improved. The main thing is to see



Results of Good Management.

that the cows do not lack food. They should be in the pasture at night-and during the earliest, coolest part of the day. If the pasture is short, feed silage or green crops. It is well known to all experienced with dairy cattle that when the milk flow goes down once for lack of feed it is impossible to bring it back to where it was before by better feeding later. To get a high production of milk during the year the cow must be kept at a high level of production all the time. For this reason do not neglect the cows during the hot weather and expect them to come back strong again when In Use for Over 30 Years. conditions become better in the fall. Children Cry for Fletcher's Castoria Keep them going all the time.

soon appear. They use their strong Suitable and Adequate Supply Demands Dairyman's Careful Attention-Avoid All Germs.

All animals require plenty of good, pure water. This is especially true of the milking cow, as water consticarry the germs to their next banquet | tutes more than three-fourths of the volume of milk. The water supply, therefore, demands the dairyman's most careful attention. Stale or impure water is distasteful to the cow and she will not drink enough for maximum milk production. Such water may also carry disease germs which might make the milk unsafe for human consumption or be danger-

ous to the cow herself. During the winter, when cows are stabled the greater part of the time, and unless arrangements have been made to keep water before them all the time, they should be watered two or three times a day. If possible, the water should be 15 or 20 degrees above the freezing point, and should be supplied at practically the same temperature every day. If a boiler is used for running a separator or for heating water to wash and sterilize utensils, steam from it can readily and cheaply be used to warm the water,-Farmers' Bulletin 743.

# NEARBY MARKET FOR BUTTER

String of Private Customers-Give First-Class Article.

It is one thing to produce an article and another to get a good price for it, even when it is worth it. The private dairyman is most favorably situated when he has a good nearby market for butter composed of people whom he knows welt. There is no better trade than a private one made up of selected customers, provided the producer supplies them with a first-class article of butter.

Selling to the nearby stores, as many people do, is, for the most part, like giving butter away, unless one can make some arrangement other than the ordinary ones. As a rule, the coun-The three "C's" for the proper care and is attached to the top of the sides try merchant pays a very low price for butter, and in many instances It is safe to say that he pays as much over the other and this permits the as it is worth. The fact is, he often box to be emptied readily. To do this pays more than the poor butter is worth and less than the value of

# THE SHOE THAT HOLDS ITS SHAPE"

\$3.00 \$3.50 \$4.00 \$4.50 & \$5.00 AND WHEN Save Money by Wearing W. L. Douglas shoes. For sale by over 9000 shoe dealers. The Best Known Shoes in the World. W. L. Douglas name and the retail price is stamped on the bottom of all shoes at the factory. The value is guaranteed and the wearer protected against high prices for inferior shoes. The retail prices are the same everywhere. They cost no more in San Francisco than they do in New York. They are always worth the price paid for them.

The quality of W. L. Douglas product is guaranteed by more than 40 years experience in making fine shoes. The smart styles are the leaders in the Fashion Centres of America. They are made in a well-equipped factory at Brockton, Mass., by the highest paid, skilled shoemakers, under the direction and supervision of experienced men, all working with an hones determination to make the best shoes for the price that money

Ask your shoe dealer for W. L. Douglas shoes. If he can-not supply you with the kind you want, take no other make. Write for interesting booklet explaining how to got shoes of the highest standard of quality for the price, by return mail, postage free.

LOOK FOR W. L. Douglas name and the retail price stamped on the bottom.

FRESH-CRISP-WHOLESOME-DELICIOUS THE SANITARY METHODS APPLIED IN THE MAKING OF THESE BISCUITS MAKE THEM THE

President \$3.00 \$2.50 & \$2.00 W. L. Douglas Shoe Co., Brockton, Mass.



STANDARD . F EXCELLENCE from Dealer has them, or if not he should. Ask him or write us giving his name. CHATTANOOGA BAKERY CHATTANOOGA

# Sold for 47 years. For Malaria, Chills & Fever. Also a Fine General Strengthening Tonic. 50c and \$1.00 at all

Sold for 47 years. For Soc and \$1.00 at all Brug Stores.

Money-Making Scheme. "You say you'd like to own a battleship?" "Yes.

"That's a curious wish. What would you do with it?"

"I'd anchor it off Newport and lease it to fashonable folk for dances."

#### CLEAR RED PIMPLY FACES

Red Hands, Red Scalp With Cuticura Soap and Ointment. Trial Free,

The soap to cleanse and purify, the Ointment to soothe and heal. Nothing better, quicker, safer, surer at any price for skin troubles of young or old that itch, burn, crust, scale, torture or disfigure. Besides, they meet every want in toilet preparations.

Free sample each by mail with Book. Address postcard, Cuticura, Dept. L, Boston. Sold everywhere.-Adv.

A Mere Hillock.

"Melodrama seems to be languishing on the stage."

"The movies struck it a vital blow. The highest cliff you can put on the stage won't run much over forty feet."

Important to Mothers Examine carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it

Bears the

Heard on 'Change,

"I'm a 'bull' on the market," said the first operator.

"Same here," rejoined operator No. 2. "Let's go over to the cafe and purchase a couple of hours."

# What the Doctor Knows

KIDNEYS MUST BE RIGHT TO INSURE HEALTH.

Few people realize to what extent their health depends upon the condition of the kidneys.

The physician in nearly all cases of illness, makes a chemical analysis of the patient's urine. He knows that unless the kidneys are doing their work properly, the other organs cannot readily be brought back to health and strength.

When the kidneys are neglected or abused in any way, serious results are sure to follow. According to health sta-tistics, Bright's Disease, which is really an advanced form of kidney trouble, caused nearly ten thousand deaths in one year, in the State of New York alone. Therefore, it is particularly necessary to pay more attention to the health of these important organa

An ideal herbal compound that has had remarkable success as a kidney remedy is Dr. Kilmer's Swamp-Root, the great kidney, liver and bladder remedy.

The mild and healing influence of this preparation, in most cases, is soon realized, according to sworn statements and verified testimony of those who have used

When your kidneys require attention, get Swamp-Root at once from any pharmacy. It is sold by every druggist in bottles of two sizes—50c and \$1.00.

However, if you wish first to test this great preparation send ten cents to Dr. Kilmer & Co., Binghamton, N. Y., for a sample bottle. When writing be sure and mention this paper. Adv.

The Style of It. "Read my palm, please." "Ah, you want a hand-picked fu-

ture, do you?"

REMARKABLE LETTER FROM A WELL KNOWN WASHINGTON DRUGGIST. in reference to Elixir Babek the great remedy for chills and fever and all malarial diseases. "Within the last five months I have sold 3,600 bottles of Elixir Babek for Malaria, Chills and Fever. Our customers speak very well of it." Henry Evans, 922 FSt., N. W., Washington, D. C. Elixir Babe? 50 cents, all druggists, or by Parcels Post, prepaid, from Kloczewski & Co., Washington, D. C.

Argument makes three enemies to one friend.

Sties, Granuisted Eyelids, Sore and Inflamed Eyes healed promptly by the use of ROMAN EYE BALSAM.—Adv.

New Zealand in 1915 exported 1,486,-18 rabbits.



# backache

Yager's Liniment is excellent for any kind of pain or congestion. It quickly re-lieves backache and rheu-matic pains, and is a splen-did remedy for Neuralgia, Sciatica, chest pains, sprains, strains, swellings and enlargements.

Keep a bottle in your home for emergencies — you never can tell when you will require something of the sort.

The 25 cent bottle of Yager's Liniment contains four times as much as the usual bottle of lini-ment sold for that price. AT ALL DEALERS

AGER GILBERT BROS. & CO.

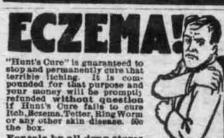
BALTIMORE, MD.

Your Money Back If Not Benefited **We Guarantee** 

# For Sick Women

If you are suffering from wo-men's peculiar ills, we know this medicine will bring YOU relief because it has helped thousands of other women for more than 30 years. Its value has been proven, and that is why the dealer, backed by our own guarantee, will positively refund your money if you are not benefited by the very first bottle.

TRY IT! THAT IS ALL WE ASK. \$1 at your Dealers'. See them today. THACHER MEDICINE CO., Chattanooga, Tenn.





WHY NOT TRY POPHAM'S

WILLIAMS MFG. CO., Prope. Cleveland, O



\*\* BOUGH on HATS FERDER Hats, Mice, Son W. N. U., CHARLOTTE, NO. 41-1916.