

DAIRY

CAN DEPEND ON DAIRY COWS

Preservation of Milk is as Essential as Production—Keep Out All Disease Germs.

The dairy cow will be called upon to yield her maximum share of the world's food supply during the coming months of war. She can be depended upon for production, but preservation of the milk is man's part. The value of milk is dependent upon the care it receives after it is drawn from the cow. Consequently preservation is as essential as production. Milk is dangerous as human food if it contains disease germs or worthless if it is so loaded with bacteria that its complex food nutrients are partly decomposed. It is equally valueless to the producer and distributor if it sours before it can be put to use.

To prevent the entrance of disease germs into milk, healthy, tuberculin-tested cows free from any udder inflammation or garget are the first essentials. Healthy men, and pure water from a protected well or spring are of second importance. Clean utensils, covered pails and clean cows come next.

Keeping milk sweet is entirely a matter of cleanliness and temperature regulation. Cows free from manure and dirt especially in the region of the udder and flanks; utensils that are carefully cleansed, scalded and dried; and careful protection of the milk from flies and dirt after production, will prevent the entrance of bacteria into milk.

Milk is soured by bacterial development and multiplication. Bacteria cannot reproduce fast enough to sour milk in 24 hours if it is kept below a temperature of 55 degrees Fahrenheit. Therefore, milk should be cooled as soon after production as possible. The easiest and most practical plan of cooling is to sink the cans to the level of the milk in a tub or running spring of cold water and to stir the milk frequently for five or ten minutes until cool. It should be held at or below 55 degrees Fahrenheit if possible until used.

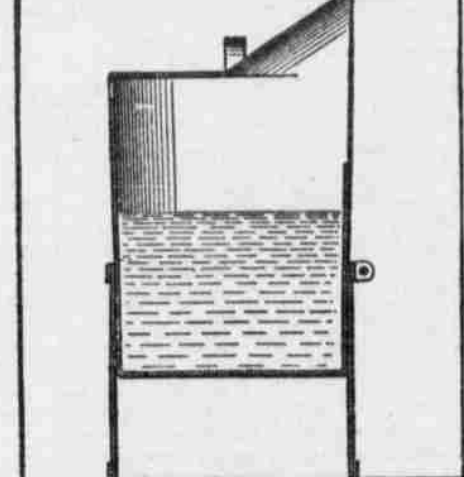
The five essentials for production of first grade milk, as given by Percy Werner, Jr. of the Missouri college of agriculture, are: 1. Healthy cows and men; 2. Clean cows and men; 3. Clean cans and pails; 4. Covered milking pails; 5. Cooling milk to 55 degrees Fahrenheit or below within an hour after production and holding it as low as possible until delivered.

IMPROVEMENT ON MILK PAIL

Arranged to Minimize Possibility of Dirt Entering Milk—Very Simple in Construction.

In illustrating and describing a milk pail, the invention of W. G. Parmelee, 4225 North Kostner avenue, Chicago, the Scientific American says:

The main object of the inventor is to provide a milk pail which minimizes the possibility of dirt entering the



Improved Milk Pail.

milk, as from the switching of the cow's tail, which prevents the milk from reaching the milker, which is convenient for carriage, which serves as a seat for the milker, which is very simple in construction, highly efficient in use, and thoroughly practical, and which is comparatively inexpensive.

COMPLETE RATION FOR COWS

Animal Weighing Approximately 1,000 Pounds Should Be Given Wide Variety of Feeds.

A complete ration for a cow weighing approximately 1,000 pounds may be made by feeding one pound of grain mixture for every three or four pounds of milk produced in addition to: (1) 30 pounds of corn silage and 10 pounds of hay (clover or alfalfa preferred), or (2) 30 pounds roots and 15 pounds of hay, or (3) 8 pounds dried beet pulp soaked 12 to 24 hours prior to feeding and 10 pounds of hay, or (4) 20 pounds of hay with 1 to 2 pounds of oilseed added to her grain.

RAISE BEST HEIFER CALVES

Good Cows Are Becoming Scarce and High in Price—Young Animals Will Replace Them.

It pays to raise the heifer calves from cows of high producing ability as good cows are becoming scarce and high in price. These heifers can then replace any cows that may not be paying well and the cows when sold will bring a good price and add to the farm income.

TOADS ARE VALUABLE

Estimated Value of One Placed at \$19.44 Yearly.

Especially Useful in Gardens Where Insects Are Most Numerous and Injurious—Some Gardeners Buy Them.

That toads are of economic value, particularly to the gardener, is the assertion of Dr. J. E. Ackert.

"It has been estimated that one toad is worth \$19.44 in a single season because of the cutworms it devours," said Doctor Ackert. "Approximately 88 per cent of the food of the toad consists of garden pests."

"The toad is nocturnal in habit, coming out in the dusk to search for food, which consists mostly of insects and their larvae. During the day it sleeps in its burrow, made by backing into the soft earth or dense vegetation."

"Toads are of special value, since they are accustomed to live in gardens, where insects are most injurious. In some sections of the United States the gardeners even buy them to aid in keeping obnoxious insects under control."

"The popular belief that toads are poisonous is erroneous. They possess a rough, warty skin, which, however,



Common Garden Toad.

does not cause the formation of warts upon the hands of those who handle them, as is often supposed.

"A few toads in hotbeds and cold frames are of inestimable value. They will keep down all insects that begin to show themselves, finding them under leaves and stalks that hide them from an ordinary observer. In Paris toads are regularly caught and sold to gardeners for insect hunting in their greenhouses. And yet many boys and older people destroy them ruthlessly as soon as they discover them in the garden. The toads will eat cutworms by the wholesale, if they can find them, and I have seen them devour potato bugs in great numbers when deprived of more palatable food."

FRIENDLY BIRDS AND SNAKES

Little Creatures, Instead of Being Injurious, Are Always Invaluable in Devouring Insects.

(By C. M. MARTIN.)

We should learn to distinguish between foes and friends in the garden, and if necessary the children should be taught early the difference between insects and birds that do harm to plants and those that do good. Snakes, toads and lizards, instead of being injurious to plants, are always invaluable helps in keeping down injurious insects. Snakes may be repulsive in appearance, and poisonous ones very dangerous, but the ordinary ground snakes will not hurt one, and they will keep down mice, bugs and insects as nothing else can. As a rule, the noxious insects are in the greatest numbers in our gardens, and hence toads, lizards and snakes that eat all that come near them destroy more of the foes than friends. I should never think of killing one of these creatures in the garden, but would be more inclined to protect them, and even to import them into the garden. I have seen a small gray lizard clean off the worms from a field of cabbages as fast as they could multiply. Attracted by the fat feast, the lizard returned every day, and he would make trips up and down the rows of cabbages until not a worm could be found.

STABLE MANURE FOR GARDEN

Where Used to Any Great Extent Soil is Very Apt to Become Somewhat Acid.

Stable manure is used to a great extent in enriching gardens, and when this is done the soil is very apt to become somewhat acid. Where the soil is not naturally strongly impregnated with lime and heavy applications of manure are made repeatedly it is almost sure to become too acid. Many crops will thrive in such a soil, but there are some that will not stand an acid soil at all. No legumes will do well in an acid soil, even if but slightly acid.

TIMELY HINTS FOR PRUNING

Cut Limb Off Close to Main Branch or Body of Tree—Use Kean Saw or Sharp Knife.

In pruning off a limb, cut it close to the main branch or body of the tree to which it is attached. If a knot is left the wound will not quickly heal over; if cut close so as to leave no knot, the new growing layer can quickly close over the wound. The wounds heal better if cut with a sharp knife or keen saw. A ragged wound made with a dull tool dries out and heals less rapidly.

PARASITES FEED ON PLANTS

Of All Diseases and Pests Scale Insects Have Received Most Attention—Ravages Are Costly.

All plants are subject to attacks by parasites. These parasitic enemies are as different in structure as the plants upon which they feed. Some parasites are microscopic plants called fungi, and are the causes of such well-known diseases as apple scab, brown rot and wheat rust. Others are known as bacteria, producing the injurious fire blight of fruit trees. Still others are not plants at all, but are insects.

Of all plant parasites, undoubtedly scale insects have received most attention during the last thirty years. Their small size has rendered them obscure. Their obscurity has allowed them to multiply year after year without being combated. Their increasing numbers have resulted in the death of thousands of trees, shrubs and greenhouse plants each year throughout this country. Hundreds of different kinds of scale insects exist. Some are large and active throughout their entire lives. The mealy-bugs of the greenhouse are typical examples. Others are small and sedentary, becoming immovable soon after they begin feeding. The San Jose and citrus scales are well-known species of this type. The ravages of such pests are so expensive that farmers of the United States are annually paying thousands of dollars either directly or indirectly to scale insects alone.

CULTIVATION OF KOHL-RABI

When Vegetable is Not Allowed to Become Tough and Hard It is of Quite Superior Quality.

Kohl-rabi belongs to the same class as cabbage and cauliflower, but presents a marked variation from either. It is, perhaps, half-way between the cabbage and turnip, in that its edible part consists of the swollen stem of the plant. The vegetable looks like a leafy turnip, above ground. If used when small (2 to 3 inches in diameter) and not allowed to become tough and hard, it is of superior quality. It should be more generally grown. The culture is very simple. For an early crop, plant and cultivate as for



Characteristic Growth of Kohl-Rabi.

early cabbage. For a late crop, or for all seasons in the South, the seed may be sown in drills where the crop is to be grown and thinned to about eight inches apart in the row. The rows should be from 18 to 36 inches apart according to the kind of cultivator employed. It matures as quickly as turnips. One ounce of seed will be necessary to seed 100 feet of drill.

SYSTEM FOR DAILY ROUTINE

Many Useless Steps Are Taken and False Moves Made in Performance of Usual Tasks.

A vast deal of the drudgery incident to farm existence can be done away with by the exercise of greater forethought and through the adherence to system in dealing with the daily routine of farm work.

So many useless steps are taken and so many false moves are made in the performance of our usual tasks that might just as well be turned to account. This condition obtains because many farmers, clinging to the custom of their fathers, are tardy in recognizing the utility of systematic work and advantage of simple, low-cost labor saving devices.

WHEN TO PICK TOMATO CROP

Very Essential to Gather Them When Red in Color and Not Overripe—Look for Soundness.

The picking of tomatoes at just the proper time when the color is red, but when the fruit is not overripe, is very essential. Cansup or canned tomatoes with a rich, red color sell much more readily than do those that were put up before they were properly matured. In many varieties the fruit retains the greenish color until it is too ripe to be marketed, and in this case it must be remembered that soundness is preferable to color.

SALT NECESSARY FOR FOWLS

Very Fine Article, Such as Used on Table or in Dairy Is Only Safe Kind for Poultry.

Salt is just as necessary to poultry as to other animals. Very fine salt, such as table or dairy, is the only safe kind to use for poultry. The best way to supply the salt is in the mash, using a tablespoonful to each large bucket of meal.

Rock salt grit or any other unlimited supply of salt cannot be allowed poultry, because they will indulge to excess, causing salt poisoning.

POULTRY FACTS

NEW WHITE DIARRHEA TEST

Fowls Are Vaccinated by Injecting Preparation into Skin of Wattle—Test Not Difficult.

Trial of a new test to determine whether chickens intended for breeding stock are free from white diarrhea infection is giving promise of deciding this important matter with little trouble at small expense.

The new test is made by vaccinating the birds by injecting a vaccine preparation into the skin of the wattle. If the chicken is a carrier of white diarrhea germs, the wattle vaccinated will develop a doughy swelling in about 24 hours after the vaccination.

The test now being made use of by some experiment stations is to take a few drops of blood from the wing of the bird being tested and decide the matter of infection by a complicated laboratory test. The vaccination test, if it proves to be what it now promises, will be inexpensive and easily accomplished even by the average poultryman.

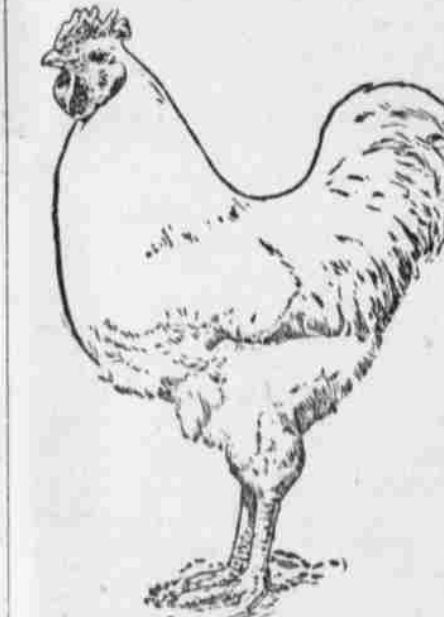
ROOSTER TO IMPROVE FLOCK

Difficult Matter to Select Cockerels as They Are So Much Alike When Quite Young.

The kind of cockerel used is far more important than most poultry raisers believe. The fact that one bird looks well and is healthy and active is a good indication of a good bird. But this is not enough. The male bird should be of such good breeding that he will improve the flock. If he is not capable of doing this he is not worthy of his place as head of the flock.

When you are selecting the male birds from the young cockerels of your own flock you should use your best judgment and find the best individuals. In this case you must be influenced by the appearance of the birds, as for the most part the cockerels will be about the same in breeding unless you have trap-nested and kept records on the hens.

It is rather hard to select young cockerels, as they may often deceive one when they are quite young. Like



Excellent for Head of Flock.

a calf, a colt or a pig, there is much speculation in selecting for breeding purposes. Nevertheless, there are certain characteristics that may be noted. From these a careful breeder will determine the male birds for his flock.

ONIONS FOR LITTLE CHICKS

Make Fine Healthful Green Food for Young Fowls—Keeps Them Busy Scratching.

Onions chopped fine and scattered in the litter make fine healthful green food for chicks. They scramble and fight for the juicy bits and it seems to waken them up and keep them scratching when it is too stormy for outdoor exercise.

With chick feed high there is an increased risk to feeding inferior grains.

SUNSHINE IS OF MUCH VALUE

Stimulates Fowls to Greater Activity and Is Nature's Disease Destroyer—Avoid Excess.

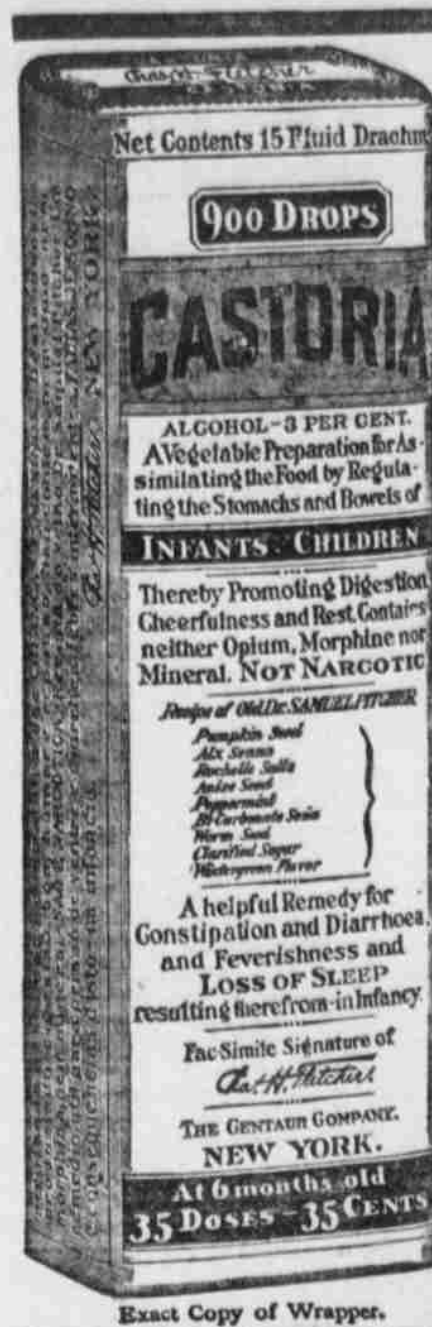
Sunshine is one of nature's greatest gifts but "the same sun which melts wax will harden clay." Although sunshine is of great value, for it stimulates the fowls to greater activity and is nature's disease destroyer, yet if it is used to excess, it may do great injury.

Hen's Digestion.

A hen's digestive capacity is limited, the number of eggs produced is determined by the difference between body maintenance and digestive capacity. Maintenance is governed largely by conditions which the poultry man can control.

Reliable Food for Fowls. Bones that have marrow in them, when ground, make an exceedingly reliable food for fowls.

Brooders Needed. For every 200-egg incubator you need at least three brooders.



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W. V. BENNETT
Room 4, Bee Bldg., Omaha, Neb.
Canadian Government Agent

Hush Money.

Miss Eleanor Munro, niece of former Postmaster Bryson, had an interesting experience while acting as a member of the "flying squadron" of the Red Cross, says the Indianapolis News.

Miss Munro was one of a machine load of workers canvassing the rural routes west of the city. At one home on the Maywood road, Miss Munro alighted and seeing several men in the carriage shed back of the house, proceeded in that direction, determined to make her appeal to the purse holding part of the family. Soon the other occupants of her machine heard sounds indicating some presumably humorous situation, and soon Miss Munro emerged from the shed and showed to her companions a double handful of bills and small change. "Six dollars," she exclaimed, laughingly, "and how do you suppose I got it? I ran into a keg of beer and a poker game, and in order to get rid of me posthaste, they gave me everything on the board."

FRECKLES

Now Is the Time to Get Rid of These Ugly Spots.

There's no longer the slightest need of feeling ashamed of your freckles, as the prescription ointment—Double strength—is guaranteed to remove these homely spots. Simply get an ounce of ointment—double strength—from your druggist, and apply a little of it night and morning and you should soon see that even the worst freckles have begun to disappear, while the lighter ones have vanished entirely. It is seldom that more than one ounce is needed to completely clear the skin and give a beautiful clear complexion.

Be sure to ask for the double strength ointment, as this is sold under guarantee of money back if it fails to remove freckles.—Adv.

The Average Consumer.

"Who's this man who is telling me to eat the luxuries of the table so as to save the staples?"

"Why, what's the matter with you, man?"

"He's either got to give me the money to buy the lobsters with or tell me I'm one myself!"

Aggravating the Fault.

"When I say a thing I mean it!" exclaimed the emphatic man.

"But sometimes," replied Miss Cynema, "that only makes it worse!"

An injury to the tongue is more rapidly repaired by nature than any other part of the system.

After the Murine is for Tired Eyes. Movies Red Eyes—Sore Eyes—Itchy Eyes—Granulated Eyelids. Rest—Give Your Eyes a Good Rest—Murine is a Favorite Treatment for Eyes that feel dry and smart. Give Your Eyes a Good Rest—Murine is a Favorite Treatment for Eyes that feel dry and smart. Give Your Eyes a Good Rest—Murine is a Favorite Treatment for Eyes that feel dry and smart. Give Your Eyes a Good Rest—Murine is a Favorite Treatment for Eyes that feel dry and smart.

Morse Code Failed.

A Chinese entered the office of the Western Union Telegraph company at Evansville a few days ago and left a telegram with Ivan Bennett, the signal clerk. The yellow man said the telegram was to be sent to Chicago. Bennett hung the telegram on the hook for the operators and John Black, an operator, got it. The telegram was written in Chinese and Black and the other operators were unable to decipher it. They got an interpreter before the message could be sent.—Indianapolis News.

Nebraska Directory

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