

# The DAIRY

## PROPER FEEDING OF BULL IS IMPORTANT

Proper feeding of the herd bull is just as important as the proper feeding of the milk cows. Too often the spoiled or musty hay is put to one side to be fed to the bull. Again we find dairymen giving the waste feed, left by other animals, to the herd sire. All of which is a very poor practice, writes R. D. Canan in the Indiana Farmer's Guide.

The herd bull old enough for service should be fed enough to keep him in a vigorous, healthy condition, free from any excess fat. Most breeders feed their regular grain mixture to the bull at the rate of four to ten pounds daily depending upon the size and condition of the animal and the variety of roughage. A good grain mixture to use consists of three parts ground corn, three parts ground oats, three parts wheat bran, and one part linseed oil meal. Ground oats are especially good for bulls. Cottonseed meal is generally looked upon with disfavor, since it may cause impotency.

Legume hay, whenever available, should be fed at the rate of ten to twenty pounds a day. Legumes are high in protein and mineral matter, and will keep the heavily used bull in excellent condition. When nonlegume roughages, such as timothy hay, fodder or straw are fed, it is necessary to feed more linseed oil meal than with the legume roughages.

Breeders differ as to the breeding powers of the bull when silage is fed. Silage fed in large amounts will have a tendency to distend the paunch, which is very undesirable. However, ten to fifteen pounds of silage daily may be safely fed along with other roughages.

It is essential that the herd bull receive plenty of water, and where it

has been found necessary to keep the bull in a stall or pen, he should be watered at least twice a day.

The value and importance of using good bulls is essential to the economical development of the dairy industry. The present use of good bulls is entirely too limited, and when a good bull is once in service his usefulness may be prolonged for an indefinite period through proper feeding and plenty of exercise.

## Milk Flow Falls Off in Fly Weather in Summer

Flies on the cows on hot days often cause an actual decrease in milk production. A good fly spray, correctly applied, will not only quiet the cows and help the milk run freely, but will also save the temper of the milker.

A good spray for this purpose can easily be made at home, according to the cow men of the New York State College of Agriculture at Ithaca. The ingredients are 4½ quarts coal tar dip; 4½ quarts fish oil; 3 quarts coal oil; 3 quarts whale oil; 1½ quarts oil of tar.

Dissolve three pounds of laundry soap in water, add the ingredients of the spray, and bring up to 30 gallons with lukewarm soft water.

This spray, applied twice a day—in the morning after milking and in the afternoon while the cows are in the barn for silage or other green feed—will keep the flies away and keep the hair coats of the cows soft.

Thirty gallons of this mixture will spray forty cows twice a day for six days, at a cost of one cent a cow a day. Two men with a portable half-barrel cart carrying a spray pump and nozzle can spray forty cows in five minutes.

## Danger in Cross-Breeding

Cross-breeding in reality is a two-edged sword. One cannot mate a Holstein cow with a Guernsey bull and expect the female progeny to take on a type or evidence a function or produce milk with the quality of the Guernsey and the quantity of the Holstein. Actually, straight cross-bred animals of this mating are quite apt to inherit the quality of the Holstein and the quantity of the Guernsey. It is difficult, indeed, to establish a type under such circumstances.

## Feeding Cows Minerals

A dairy cow giving a large flow of milk will need some added minerals if she is to be properly nourished. Especially is this true if she does not get legume hay, wheat bran, wheat middlings, cottonseed meal or linseed meal in her ration. Milk contains a large amount of lime and phosphorus which makes it necessary for the cow

to get a liberal supply in her ration if she is to continue to produce milk very long.

## Treat Warts on Teats

Bathe warts on cows' teats several times daily with warm water containing a tablespoonful of washing soda per pint, or immerse the teats in the solution for five minutes or more, night and morning. After the evening immersion cover the affected parts with a thick paste of cold-pressed castor oil, salt, and flowers of sulphur. Warts that have slim necks may be snipped off with blunt scissors, a few at a time, and tincture of iodine applied.

## Fine Collection of Books on Far East

On a high hill on the very edge of Tokyo stands the world's finest library on the Far East in languages other than Chinese, Japanese and their kindred tongues. The library building is fireproof, soundless, severe and scientifically arranged, but sadly out of sympathy with the unique and marvelous collection of volumes made by Dr. George Morrison over a period of many years and supplemented now by the purchases of Baron Iwasaki, who offered the institution to students of all climes.

Baron Iwasaki not only placed the library at the disposal of those interested in the Far East, building and equipping a home for it at a cost of 1,500,000 yen, or \$750,000, but he endowed the institution with 2,000,000 yen, the interest on which is to maintain the library, assist in the promotion of research work on oriental subjects, and purchase additions from time to time. The whole is placed under the control of a board of trustees.

Doctor Morrison's collection includes works on China, Tibet, Mongolia, Manchuria, Kashgaria, Siberia, Korea, Formosa, Japan and the neighbors of China, and a comprehensive set of works on central Asia and the rivalry between Great Britain and Russia on the western frontiers of China. There are books on the subject in more than twenty languages.

## Petrified Wood Has Beauty Akin to Gems

The petrified national forest, one of the 29 national monuments established by Presidential proclamation, is the only region of hundreds of places in the Southwest in which silicified wood occurs in such abundance as to deserve the name of a petrified forest. It is located in northern Arizona south of the town of Adamana on the Santa Fe railroad and was designated as a national monument in 1906.

There are three principal groups or

forests in which trees or blocks of the petrified wood lie scattered about in profusion. Many tree trunks exceed 100 feet in length and cross sections reveal the fact that these trees, which are cedars, did not grow there, but probably beside an inland sea, and upon falling became water-logged on the bottom at this point. During decomposition the cell structure of the wood was entirely replaced by silica derived from sandstone in the surrounding land.

The state of mineralization in which much of the wood exists almost places it with gems or precious stones. Not only are chalcidony, opals and agates found, but many trees approach the condition of Jasper and onyx.

## Coach Properly Defined

Now that the coach has become a large factor in motordom, the question is raised as to what is meant by the term. The Society of Automotive Engineers defines it:

"An inclosed single-compartment body, similar in general appearance to the sedan, with two close-coupled cross seats for four passengers. There is a luggage compartment or space for a trunk at the back of the body. There is no glass in the rear quarters. The conventional type has two doors only, the forward seats being divided and the right-hand seat tipping forward to give access to the rear cross-seat. Some models have two doors on the right-hand seat, there being two fixed cross-seats."

## American Bulldog

The American bulldog—or pit bulldog, because of the old sport of fighting them in pits—is one of the few breeds of dogs of distinctly American origin, and one of the first developed in this country. It is the product of a crossing of the English bulldog with the bull terrier, the subsequent introduction of an additional strain of English bulldog ancestry giving the American bull its weight and its shorter muzzle and larger head. But the breed now runs very true, and has for many years, and there is not much experimenting with it.

## Gas From Flower Gardens

The great development of natural gas in the industries around Pittsburgh, Pa., is in a considerable measure due to George Westinghouse of altrabake fame. He finally induced his wife to let him sink a shaft in her flower garden, his labor being rewarded by a geyser when he had gone about 1,000 feet. From this came the development of the Pittsburgh supply. Westinghouse himself worked out the system of piping that enabled it to be distributed without leakage, at the same time reducing the pressure by the use of gradually larger pipes, until it could be safely handled by the time it reached a customer.

## Earliest Known Letters

It was formerly believed that the earliest extant collection of formal letters was the series of about 150 Greek epistles professing to have been written by the tyrant Phalaris of the Sixth century B. C. A controversy arose, however, and Richard Bentley in his famous "Dissertation on the Letters of Phalaris," in 1690, demonstrated, as is now universally admitted, that they are of comparatively late origin, about the Second century A. D. Among the early genuine letters of the Greek period are those of Isocrates (died 338 B. C.), nine in number.

All people talk about nowadays are flappers and their awful ways; Their bobbed hair and their silken hose, Their painted cheeks and powdered nose.

But no one ever seems able to see How funny the boys can really be With their long sideburns and shoe-polished hair, Bell-bottom trousers and silly sheik stare.

They walk with an R. Valentino gait And move their shoulders in a way hard to relate, They cock their heads, stick a "cig" in their lips And certainly think that they're the "Snakes hips."

Their dancing of course is "nothing else but" Yet one sometimes thinks they have struck a deep rut; For in talking they all use the very same line, Which for them truly isn't a very good sign.

Now if people would only leave flappers alone, And give some attention to sheiks in their home; The fellows might learn to be bright, shining stars, Instead of knowing how to drive all makes of cars.

Speaker in Assembly—I am happy to see all these shining faces before me this morning. Sudden commotion follows: (It is the application of 29 powder puffs on the east side.)

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