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FEEDING VALUE OF CEREALS COMPARED

The principal grains used on the farm for feeding purposes are oats, corn, barley and occasionally wheat and rye, says the Iowa Homestead. The feeding value of these feeds for dairy cows largely lies in their protein content, because protein is scarce and high in price. Too much stress, of course, cannot be laid on protein simply because it is high in price, for there are other things coming in which materially affect the feeding value besides scarcity.

There must be considered palatability, digestibility and the general effect on the animal's body. Of the three feeds first mentioned (corn, oats and barley) they stand in relation to each other for milk production about as follows: Oats rank first, each hundred pounds containing nine pounds of protein and sixty pounds of carbohydrates and fat. Barley would come in second with nine parts protein and seventy pounds carbohydrates and fat, while

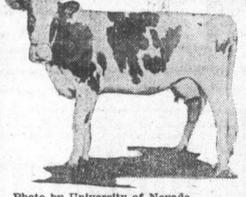


Photo by University of Nevada.

Tuebia Pleterje Carren Fidesa, the pure bred Eshelton better here-with illustrated, has a remarkable milk and butter record for so young an animal. She was bred and is owned by the University of Nevada, situated at Reno. At the Sacramento fair, November, 1912, she won the milk contest in her class. In seven days she gave 32.5 pounds of milk, containing fourteen pounds of butter fat. Her age at the time of the test was one year, eight months and sixteen days.

corn has six pounds protein and seventy pounds carbohydrates and fat. It would appear at first thought that barley would be the better feed, as it contains the same amount of protein as oats, with the added advantage of possessing a higher fat content, but oats come nearer approaching a balance, while they furnish a roughage so much needed by the animal and which is very palatable.

Bran is a byproduct, not, strictly speaking, a farm product, but it is a most excellent feed for dairy cows. It is a much better feed for milk production, especially when fed in connection with other feeds, for variety, than ground wheat. Whole wheat contains 10.2 pounds of protein, while bran contains 12.6 pounds protein per 100 pounds. Bran is more bulky, less concentrated and pasty and aids materially in carrying other feeds through the manifold and alimentary tract and absorbs the juices of the stomach, causing the animal to take heavy drafts of water so essential to the production of large quantities of milk.

A consistent ration for cows in full flow and heavy producers is 1.6—that is, one part protein to six parts carbohydrates. Light milkers will do very well on a ration of 1.7, but it should not be widened beyond this.

Corn stover has a nutritive ratio of about 1.23, depending somewhat on the quality of the feed. Binder corn or corn fodder has a ratio of 1.14.

Clover Bloat.
The chief symptom of bloat is a sudden distension in the left flank, which swells up and appears as tight as a drumhead when thumped with the finger. Relief must be immediate if suffocation is to be avoided and consists in providing an artificial outlet for the gas by "tapping" the animal. This is best accomplished by inserting a trocar and cannula into the most prominent portion of the swelling. To prevent further gas formation administer a draught of two ounces of turpentine in a pint of raw linseed oil or a quart of new milk. As a prevention avoid turning the cattle out into clover or alfalfa until the dew or rain has dried off. In addition, giving a full feed of dry roughage, such as the animals are accustomed to, just before turning them out will be found helpful in preventing this trouble.—Bulletin Kansas Experiment Station.

Salt For Live Stock.
Salt is very necessary to the digestive processes of all animals and especially of those living on a green vegetable ration. The action of the salt in the digestive organs helps to make quicker the assimilation of foods, and animals that are without salt for any length of time in summer immediately begin to lose flesh. Their condition may be recognized almost at a glance.

Arrangements ought to be made to keep salt continuously before all animals. In summer it is an easy matter to buy a couple of hundred pounds of ordinary rock salt and leave a few chunks of it around the watering place where the cattle, sheep, horses and hogs can reach it any time they happen to feel the craving.

Ring a Bull.
A bull calf seven months old should have a ring put in his nose and be taught to lead with it. The opening in the nose is made by the use of a trocar. Copper is the common substance used in making rings but some are made of iron covered with tin.

HORSE WISDOM.
When colts fail to shed their coats at the proper season mix with the grain ration morning and night until the old coat is all off.
The pedigreed sire has been the power in building up size and draft form in our American stock of horses.
A blanket of fat on a horse, like chaff, is a mantle that often serves to cover a multitude of defects.
It is expensive carelessness to hitch a warm horse inadequately protected from raw winds or a drizzling rain.
Are you keeping a lot of horses for which you have no special need? Let the other fellow have them at present prices.
See to it that the colt does not become constipated. A small dose of castor oil is a good thing to get the bowels started.

WORK THE STALLION.
Fat Animals of Either Sex Are Likely to Be Shy Breeders.
Noting an article recently as to care of stallions prompted me to give a bit of my experience, writes J. C. Sidle in the Rural New Yorker. Twenty ago, with horses a drug on the market, a very good one not being worth over \$100, I thought I saw in the future of the horse business money for the man who laid a good foundation from a breeding standpoint. I started with this idea to procure the nicest, best brood mares obtainable; gave a local horse buyer an order for a pair of the best mares he could get in Iowa. They came, good ones, nice looking, attractive animals. The best, nicest looking, fattest stallion was selected as the sire of my future money makers. As to results, there were no results. One mare would not breed; the other would not carry her foal to maturity. Not discouraged, I went to the same source for another pair of breeding animals, procured them and had slightly better results, but as long as I kept the dams hog fat and bred to sires in the same condition without exercise the rule was to bury the offspring until I had a veritable colt graveyard upon my farm.

I changed my base, selected the best home bred mares I could get, paid attention to their ancestry as to raising



Photo by Tennessee experiment station.

For size, style, quickness of movement and ability and willingness to put shoulders into the collar the Percheron horse is hard to beat. Of course there are other good breeds, several of them, and they make splendid drafters. The Percheron, however, are the most numerous of the heavy draft animals in the United States, and they are justly prized for their fine qualities. Draft horses are in big demand—in fact, the demand exceeds the supply—so it behooves the farmer to risk a few good ones. The Percheron mare shown is owned by the University of Tennessee agricultural experiment station.

colts, bought a stallion of my own, put him in the team, made him earn his keep outside the stud and have today my third stallion along this line. The exception today is to bury the colt, the rule to raise them. The same principle holds good with both sire and dam. Both should be kept in good, hard flesh and thin, exercised or worked daily, and the sire becomes as tractable in the hands of a master as the dam. Notice the word master. Not every one is capable of working

a stallion, and he should not be trusted in the hands of any one but a master. The principles involved in above took many years to work out, and had the writer started on the same basis upon which he works today he would be several thousand dollars better off.

Skin Troubles of Horses.
When a horse commences to rub its tail and mane it should be fed lightly and worked freely if treatment is to be effective. The horse must also be cleaned thoroughly and kept clean, while the hair and skin at the tail and mane should be scrubbed with soap and hot water. The washed parts should then be dried thoroughly with sawdust and a healing lotion applied to control the itching and soothe the inflamed skin. Flowers of sulphur and sweet oil, mixed to the consistency of cream, with an ounce of a coal tar dip added to each pint of the mixture, is a simple and excellent application. This lotion should be rubbed well into the roots of the hair. It should not be washed off, but repeated every three days.

Obstructed Test.
The induration at the end of the test should be cut through in four different directions by means of a sterilized test fistour. Then strip out a stream of milk several times a day, while the wounds are healing.

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TAMED THE MONARCH.
The Part a Silver Inkstand Played in a National Crisis.
The pages of history record many instances in which trivial incidents have shaped the destinies of nations. According to a story in the New York Tribune, a small silver inkstand and the quick wit of a prime minister once played an important part in the history of the Netherlands.
William III, king of the Netherlands, was a man of violent and ungovernable temper. Although in general a clever statesman, he was inclined, for some reason or other, to involve Holland in the trouble that was brewing between France and Germany in 1870. He was deaf to the appeals of his ministers, who foresaw the ruin to the country that war would bring.
Thorbecke, the prime minister, resolved to make one last attempt to change his sovereign's resolution. On entering the royal presence Thorbecke was greeted with a rough "Good morning! What's the news?"
"Nothing particular, your majesty. Only the people of The Hague are talking a great deal of nonsense about your majesty."
"About me?" exclaimed the monarch, in wrath. "What do they say about me?"
"Well, sir," answered the old statesman, "The Haguers declare that your majesty has become stark, staring mad!" Before he could utter another word King William, his face purple with fury, jumped up and seized a heavy silver inkstand, with the intention of hurling it at the head of the premier. Fortunately a projecting angle of the inkstand caught in the tablecloth and dragged it off the table with everything upon it. In the confusion the discharge of the missile was delayed for a moment.
"Sir," exclaimed Thorbecke quietly, "If your majesty huris that beautiful inkstand at my head The Haguers will have much reason for their assertion!"
For a minute the angry king gazed in silence at his minister. Then he gradually lowered his arm and replaced the inkstand on the table. He walked to one of the windows and stood looking out for a few minutes. Returning to the table, he resumed his seat and said, as if nothing had happened:
"And now tell me what you have got to say?"
An hour later, when the statesman left, he carried with him the monarch's promise to issue a proclamation that would declare the neutrality of Holland.

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The Western District Fair Association have fixed the following dates for the fairs of that circuit:
Strathroy..... Sept. 15-17
Petrolia..... Sept. 18-20
Forest..... Sept. 24-25
Parkhill..... Sept. 25-28
Wingham..... Sept. 26-27
Brigden..... Sept. 30
Alvinston..... Oct. 2-3
WATFORD..... OCT. 7-8

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