this we mean placing the medicine under the skin, from whence it is rapidly absorbed into the blood, be the ones to use. and thus produces its effects very rapidly. To physic a horse, by a physic ball given by the mouth, takes anywhere from eighteen to thirty practically become extinct. The hypodermic hours, but, by giving a hypodermic injection of eserine and pilocarpine the same effect is produced its dangers. I formerly frequently saw barium in about fifteen minutes.

administered in this way, and in a few minutes quickly, but in other cases, precisely similar to all recent prices. the patient — be it man or beast — is free from appearances it produced almost instant death. pain. This is also the most satisfactory way of The drug was administered by the hypodermic poisoning an animal, and this sentence tells me syringe, but was placed in the blood vessels that I should say it is essential that only certain (jugular vein, for preference) instead of in the drugs be used. They, in most cases, are known as tissues under the skin. At times, when using alkaloids and are extremely strong poisons, this method, blood clots would be formed and so strong that an apparently trifling variation in cause serious trouble. Or again, bubbles of air the dose is sufficient to produce the most undesira- would enter the blood stream and the result be exceed 21gs. In a class of 80 cows, exceeding ble effects. For this reason they should not be alarming. No, we certainly have no desire to three years of age, the first prize was taken by used, but by the professional. If an improper bring this method into use again. drug be used hypodermically or if an unclean syringe be used an abscess may be the result. Unclean, in the last sentence, refers mainly to freedom from germs.

This is the method we use in testing horses with mallein for glanders and cattle with tuberculin for tuberculosis. The new school of practitioners who follow Pasteur, with his treatment for hydrophobia, and the still more recent ones who have found or are finding one serum or antitoxin to counteract the poison of disease germs, largely or mainly, use this method:

The rectum is the last portion of the intestine. Very little absorption takes place in it so that we can give but few medicines effectually here. Still, some will act well. It may be used in cases, where, for any reason, the mouth cannot be used or when the stomach will not retain the medicine. The rule to be observed is this: A small dose will be retained but a large dose will be ejected. If the horse cannot swallow, say in sunstroke, a dose of alcohol or other stimulants will be absorbed if placed here. Again, if the animal cannot eat, he may often be kept alive by injecting small doses of liquid food into the rectum, but if a large quantity be placed in it will be thrown out.

But we use this part for a very different purpose. This is the seat of the "pin-worms" of the Then by throwing up from a quart to a gallon of vermifuge (tobacco, quassia, etc.) we may clear these away without needlessly disturbing the whole system. Again, it often happens that when a horse is constipated, the whole bowel is more or less torpid, or still, but if we can cause the last part, the rectum, to move, the wavelike movement will travel along the whole. For this reason we inject, say, a gallon of warm water. This not only brings away the manure collected in the rectum, but causes all the intestines to move and largely assists the action of medicines given by the mouth.

These rectal injections are properly termed enemas or enemata, but were formerly called marked, but the stringent regulations imposed clysters. Of course, they may be repeated as on home milk producers ought, in common fairoften as necessary or desired. Personally, I ness, to be made applicable to foreign condensed prefer to use clean water for the first, and either milks. slightly salt or soapy water afterwards.

To inject these, I use a pump, but the same effect may be obtained by using about four feet interesting to compare the imports and prices with in consequence hides and other by-products are of 4-inch rubber garden hose with a ten-cent previous years. In the year 1908-9 imports of rising in price. In answering, fewer cattle supfunnel in one end. The free end is inserted, wheat and flour (the latter being arrived at by plies were denied, though rising prices were the funnel raised, the fluid poured in, and this adding 28 per cent. to its weight to allow for loss acknowledged. sure of the atmosphere, the higher the funnel is of wheat, valued at £48,622,040 — an average new capital by the American meat companies raised the quicker will be the flow. I prefer per quarter of 38s. 5½d. The quantity was said to be for use in further controlling Argentine this on every ground to the "veterinary" syringe smaller than in any of the four preceding years, supplies, the answer made was that the governsold for this purpose, but this latter instrument is but the value was greater than ever before. The ment were giving earnest attention to the matter, useful when the amount to be injected is small, advance was 2s. 9d. per quarter over the previous but were not prepared to make any statement and desirous of being retained.

About the temperature of these enemas but An instructive feature is the way flour imports

Successful lincoln sale

The well known flock of Lincoln shearling rams, horse is about 100, a little above, or a little below, production having largely displaced foreign flour, bred by S. Ward of Sleaford, were sold at auction and the fluid thrown up should not be far from A few years ago British millers could not have recently, and many buyers were present from this. There is one exception to this. In the ground the flour needed, but they can do so now, the continent and South America. case of sunstroke it may be necessary to produce and there are many finely equipped mills. Amer- were offered and all sold at the fine average of a shock to the system, and this can often be done ican flour shipments used to be large, but in £2017s. 71d. by injecting ice cold water. We sometimes mix August of this year they amounted to only There was a long duel for the best of the flock up a drug with cocoa-butter, make it into a conical 295,000 sacks. The total imports of flour for the between Mr. Nelson, of Rigby, and Henry Dudmass, and insert it into the rectum, especially, cereal year were 4.368,000 sacks, against 5,476,000 ding. The former finally paid 135gs. for the of the dog. We term this a supository and it sacks in the previous year. forms a nice way of treating piles, among other Imports of barley for the year were 6,081,000 rams sold for from 30 to 90gs., and most of the

disaudances, say after parturition, inflammation 4,725,000 qrs.; and of maize 8,981,000 qrs. Messrs. John Thornton & Co. sold at Blythof the womb, in the rare cases of cystitis or against 9.182,000 qrs. in the previous year. wood the whole of Lord Blyth's Southdowns inflammation of the bladder, leucorrhea, or The weather has been distinctly better for and most of the pedigree Jerseys. There was a

method answers the same purpose and is free from chloride given in this way to act as a quick Of course, everyone knows that morphine is cathartic. In some cases it acted well and same time last year, though much lower than

# STOCK

# Condensed Milk Problem in England

(OUR ENGLISH CORRESPONDENCE)

been investigating condensed milk from various 100gs. for the second prize bull, an excellent red makers, all foreign, and their chemist, Mr. Lloyd, animal from C. Spencer's herd. has issued an interesting report. Twenty samples were tested, of which five were of whole milk, and the balance of separated milk. Practically best in the country and this year's show was a one-half of the nutriment consisted of added sugar decided success. which works out at a cost of 5d. per pound to the were represented. consumer — a very high price in England. In the separated milk samples only small percentages class, was taken by John Drage's chestnut geldof albumen and fat were found, and this lack of ing, "John O'Gaunt," and Mr. Hincliffe's famous nutriment, combined with the excess of sugar, "Broadwood" was first in the middleweight class. renders such milk quite unfit for infants.

product in our markets, and at our expense. with "Mel Valley's Tissington Belief. This state of things would not be possible were it not for the ignorance of the people who use the material, and the failure of the press to instruct and warn women against the evil effects which must arise from feeding children on this seminutritious substance. The claim is frequently made that condensed milks are pure and free from bacteria. Such was not found to be the case. A number of samples showed the presence of bacmatter.

Mr. Lloyd concludes the report: "The more study condensed machine skimmed milk the more convinced I am that the legislature ought to insist on every tin being marked in large letters 'Unfit for Infants.'

It is only fair to add that some brands are so

The cereal year ended on August 31st, and it is cattle available for slaughter is diminishing, and year, and 10s. over 1899-1900.

Average imports of barley are about 6,000,000 the sale was £1,670 11s. We never use this method except for local qrs. Imports of oats were 5,667,000 grs. against

harvesting, and great progress has been made, capital attendance in spite of bad weather, and

The instruments I have just described would though a much longer settled period will be necessary before the bulk of the cereals are safe. Indications now point to a wheat crop of about This method of administering drugs has average dimensions. Wheat is being harvested with fair freedom, but farmers are disappointed at the rather rapid fall in prices for new wheat, Present prices are from 33s. to 36s. per quarter, which is about 3s. per quarter more than at the

### BIRMINGHAM SALE

Many prominent Shorthorn breeders were represented at the 56th annual show and sale at Birmingham. The entries numbered 280, 142 bulls and 138 cows and heifers, but the quality was distinctly below the average. A feature is that the reserve price of any animal must not G. Harrison's fine red and white Highland winner. 'Montrave Wonder.'

Martinez De Hoz's handsome level bull "Royal Bank" won first place in the old bull class, though he is but 19 months old. The young bull class under 12 months, brought the closest competition of the show. R. R. Rothwell's "Harlequin, a nice roan, took first honors.

At the sale prices for cows and heifers were disappointing, the best price being 41gs. The demand for bulls was a little better, though bid-The British Dairy Farmers' Association has ding was far from brisk. The top figure was

### CARDIFF HORSE SHOW

The Cardiff Horse Show ranks as one of the Some well known exhibitors

The blue riband in the Hunters, four-year-old In Hackneys, 13.2-14.2 hands, the coveted blue So far as condensed skimmed milk is concerned riband fell to Wm. Foster's "Mel Valley Master the industry would seem to be a means of enabling Kev," and Mr. Foster also took first honors in the foreign countries to dump or get rid of their waste harness class, mare or gelding, 13.2-14.2 hands,

### DERBYSHIRE SHOW

The Derbyshire Agricultural Show has fallen on evil days of late years, rain marring the proceedings, and this year's show was no exception. A good show was gotten together, not only in horses, cattle and sheep, but of other good features. Shires were as usual exceptionally strong in numbers and quality, and with Shorthorns teria, and this is another serious aspect of the were the outstanding feature. The Shire gold medal was won by a handsome mare, Mr. Schwabe's "Mayflower." The Duke of Portland won in the open class for bulls, two to five years old, with a good serviceable animal, "Village Diamond." Sheep were fewer than usual, but pigs were a capital section this year. Surely future fixtures will have better weather conditions if deserts count for anything.

## BEEF TRUST QUESTION

The "Beef Trust" question has again been the subject of question in parliament. It has been claimed that the number of foreign and native

animal for export to South America. Other fine qrs., against 4,988,000 qrs. the previous season, prominent breeders were buyers. The total of

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