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MAY 1, 1907.

vour readers who have such floors will kindly ply." hrow some light on the subject

Shoal Lake, Man. A. NICHOLSON. stable floors should be made of two layers; the first to from six to ten parts of sand and gravel lepending upon the strength of the cement, and should be about two to three inches thick. The second layer should be much stronger and about one half to three quarters of an inch thick.

We give it as our opinion, but would be glad to have others, that stables should not be built so that the liquid can drain away. The stalls should have a slope of about one inch from front to back and the passage behind a slope of about one inch to each six feet in width. This would Irain the liquid to a division between the stalls and the passage, and when there should be absorbed by straw or some other absorbent. Sometimes dry earth is used.

It is not simply that it is wasteful to drain the liquid through the floor, but it gives rise to sows and bitches. The semen of the male conthe most unhealthful conditions, both for the stock and for people.

In finishing we should advise a rough surface. When a concrete floor is finished with a steel rowel or float it is so smooth that the horses slip easily on it. If levelled with a wooden float the surface is more like sandpaper, and although not so easily kept clean, is safer.

Some horsemen would not have concrete ploors in the stalls, while others do not object to them. Where an abundance of bedding is given and horses are not kept standing in the stalls for days at a time, little harm results from cement floors, and it might be said that no horses should be so kept. If any of our readers have lifferent views upon horse stable floors than these expressed we should be willing to publish them and also any that agree with the above, that our correspondent may have plenty of evidence.

Is the Sire or the Dam Responsible for. **Twin Births?**

EDITOR FARMER'S ADVOCATE:

produced twin foals again this year (colt and filly) think it will be of interest to readers of the ADVO-CATE to hear of the grand old dam 15 years of age.

aim the sire has nothing to do with the producing of twins. It certainly looks in this case as if he has profits, in the form of grants to live bit to do with it. I hope the ADVOCATE will give ciations, for prizes at shows, to the breeders, each cotyledon as it is come to being gently Thanking you in anticipation. Alta.

THE FARMER S ADVOCATE

weather will it not freeze up? Perhaps some of command went forth "to be fruitful and multi- coming from the National Records Office is veriheat. In the case of the male more cells are ment.

released than are necessary to impregnation, but it is claimed by physiologists that usually only one germ cell is thrown off at a time by the ovary. The ovum is said to be met by the fertilizing spermatozoon (which resembles one of the little wigglers one sees on the surface of stagnant water) in one of the tubes (Fallopian) connecting the ovary and the uterine, cavity (womb), and is there fertilized. Should more than one egg or germ cell be thrown off there are sufficient living (male) sperm cells to impregnate each one, as is exemplified in the case of tains a great number of spermatozoa, as may be demonstrated by an examination of a drop of the fluid under a microscope. The opinion of scientists is that the female is responsible for twinning, the result of super-activity or fertility of the ovaries. It is well known by students in physiology that the tendency to produce twins in human beings and in mares, is inherited. In the latter it is considered most undesirable by horsemen, for the reason that few equine twins are born alive, or if born have sufficient vitality to live. The case above is certainly unique, but as far as the stallion is concerned it only goes to show that he is very virile, and that the sperm cells ejaculated by him contain vital spermatozoa which when deposited on fertile soil, grow and flourish.

A Canadian Record Needed for Percherons.

affiliate with the National Record Association cases, where possible, it were better to purchase and register their horses at Ottawa. This move such by the employment of a properly qualified had produced 11 foals in her day, and never had as in the U.S., there exist more than one record is not available, the farmer should undertake wins before. She was bred to the same stallion which induces confusion; and further, all regis- the removal of the membranes himself, rememberin 1905 and 1906, with result of twins at each foaling. tration fees go to the Percheron registry offices ing the method by which the attachment is made Last year twins were from the first service the stal- in the U.S. Once a breed society becomes to the internal surface of the womb. An examination everygave. The owner of stallion, Wm. Moodis, strong there is some profit in recording live stock; tion of that surface by the hand reveals the red the second mare to him, and the result was twins. and it is the custom in Canada since the National presence, here and there, of little buttons (cotyle-Most veterinary surgeons and expert horsemen Records have been in existence to return the dons) from which (it can be described no better stock asso

The phenomena of generation or repro- fied by an official before the pedigree is stamped duction are not all visible. The actual wedding for the Government. In addition, the estabof cell unit with cell unit is unseen, yet physi- lishment of a Canadian record for Percherons In laying the floor the concrete should be mixed ologists tell us approximately what takes place. would put the Customs Department in a better in the ordinary way in proportions depending From the reproductive organs (testicles) of the position with respect to the importation of upon the quality of the cement. As a rule horse male come sperm cells (spermatozoa). From horses, and the home-breeders would stand to the reproductive organs (ovaries) of the female benefit thereby. The breeders of Percherons layer may be made of about one part of cement, come the ovum or ova (egg or germ cell). The in the West might meet at the time of one of the male vitalizing element is usually released during big summer shows, Winnipeg, Brandon, Regina the act of coition (mating); that of the female or Calgary, and form a society and start a register the germ cells (ovum or egg) at each period of under the auspices of the Dominion Govern-

Never use an Unsound Stallion.

The present enrolment ordinance is all right and it has to some extent improved the breeding of horses in this locality, but you cannot do too much towards advising the readers of your paper to breed to none but sound stallions. I am surprised to see so many that think it is just as good so long as the horse looks all right, other ways. A horse of mixed breeding or a grade horse may be used sometimes to an advantage, but a blemished horse never. JOHN LENNAN. Alta.



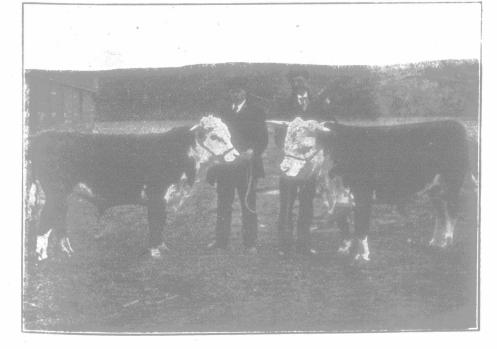


When the Cow Does not Clean.

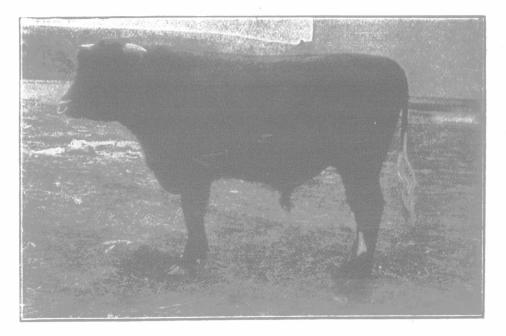
Experience both as a farmer and as a veterinarian demonstrates to one that far too many farmers are apt to neglect the cows after calving, especially when such have failed to clean or get rid of the afterbirth in the natural way. In some stables visited a strong, nasty-smelling odor has been noticed, which on examination has been found to be produced by the decomposming mass of afterbirth partially or wholly retained by the cow. In many cases, the cow shows signs of general ill-health as a result of the retention of the putrescent material, such ill-One of the features of the horse business in health being nothing more or less than a slow the West the last five years is the coming of the form of blood poisoning, during which time the Percheron, which may be largely attributed to milk is unfit for use by man or beast. This bythe tremendous influx of settlers from south of product of parturition should be removed within the international boundary. Several breeding a few days after the birth of the calf, at least If you'remember last year your paper had the studs have been established and it is now up to before decomposition is in evidence. Removal photograph of the registered Clyde mare Annie Scott the breeders of the grey and black drafters to is not a serious matter if commonsense and and her twin foals (colt and filly) and as she has get together, form a Percheron Association, caution are observed, and in the majority of is especially necessary with regard to Percherons, veterinarian. If the help of a man so skilled the afterbirth must be gently unbuttone wav

heir opinion on this topic. I should like to have and by this method place the breed more and stripped of its abnormal (at that late date) some horse breeders' opinions on this matter later on, more prominently before the public. Breeders covering. With one hand stripping the buttons and purchasers of Percherons would, if a society carefully, and the other hand gently exercising HAROLD BANISTER. were formed and affiliated with the National traction, it is only a comparatively short time

Our correspondent's enquiry has raised a Live Stock Association, be protected from bogus before the cow will be rid of this foreign irritant juestion which has been debated ever since the pedigrees, for the authenticity of each pedigree membrane, for such it has become. The hand



A PAIR OF PARKER AND FRASERS'S (LACOMBE) PRIZE WINNING HEREFORD Bulls, AT THE RECENT CALGARY SHOW AND SALE.



'FARMER'' BY DRUMROSIE CHIEF. The highest priced bull at the recent Calgary sale. Bred by Jas. Sharp, Lacombe, and purchased by P. M. Bredt Regina.