the limit of wheat growing, that thenceforth the altogether. It's an easy matter to lose the king of cereals would mark time only, and bread value of several hundred bushels of oats by eaters would be obliged to look about them for a over-feeding a horse on wheat, but it is not very substitute for their favorite grain. We have had hard to be careful and save the price of a horse croakers in our own age prophesying the same by feeding low grade grains and selling good kind of thing, and while thinking men must sound oats. admit that the wild land of the world available

The Irish for increased wheat production is becoming to promote the interests of the different breeds in the circumscribed, it is difficult yet to foresee where Emerald Isle. In 1901 the Department registered, the limit on our own continent is to be reached, and so, in a manner, subsidised 97 Thoroughbreds, or how large the areas are in other parts of the 23 Clydesdales, and 8 Shires, or, in all, 128. Last world where wheat growing may be profitably year the Department subsidised 161 Thoroughbred, world where wheat growing may be profitably

Probably the largest area of agricultural land yet untouched lies in Northern Asia, or The wheat growing possibilities of the vast area Ocean, are as yet unknown. Immigration for while hires have fully trebled. In respect of the nofrom the West, and the agricultural exports from it are steadily increasing.

It is estimated that the world, taking it all over, could just about double its present annual wheat yield if all the land available for use in growing this cereal were called into use, that is, the land already producing wheat, and the unoccupied lands that might be brought under cultivation, It is estimated that the yield from every acre of that land could be doubled, in some cases trebled by proper methods of cropping and cultivation and that there is opportunity in sight for increasing by fourfold the annual supply of the king of cereals. Against this increased supply there must be charged up a possible doubling, industry. The range country is being opened to trebling or increasing by fourfold the army of homesteaders and the breaking up of the ranges into back as history records, was producing, except in famine years, about as much wheat as was required for human consumption, and generally a little over to spare. There are no indications at present to show that it will not go on doing it indefinitely, or for as long at least, as most of us now alive need bother ourselves about.

## HORSE

stallions, Baron's Pride, 7\frac{3}{4}x11 inches in size may like to have the subscriptions and give good through the press. value for work done.

coming winter, offer some \$260,000 in prize and when we ought to show, and when we ought money for horse racing. Horse racing is be- to keep our horses at home. coming popular in Russia, another argument that it is quite an unsuitable form of pastime for more advanced civilization.

horses in the aged Percheron stallion class, and Claresholm, "why the Clydesdale stallion Baron thirty in the two-year-old-class. The champion Sorby was placed sixth in a class of six at Macwas Brilliant, owned by Taylor and Jones. Mr. leod, and first and champion at Lethbridge Alex. Galbraith and Prof. Kennedy made the the following week, defeating the first prize horse awards. The Clydesdales were not by any of Macleod at this show. means as numerous. The champion stallion was Any observant and intelligent spectator that Galbraith's two-year-old Heather Blossom,

horseman who cares for the farm power. It his condition there, unfit to be brought into any matters little to him if wheat or barley are show ring, owing to his shoes pinching the frogs cheaper than oats. The farm has produced of his feet and causing him to travel quite oats enough for the horses, and that is all there unnaturally for a sound horse. I told his owner is to it—without horses there would be no oats, I would not place him at all and recommended what further argument is needed to secure for the that he should have the shoes removed at once horses all the clean heavy oats that is good for and the horse properly shod, as it was too bad them. This is a grain country, and a country of the have a good horse like him in that condition. the best grains, therefore the horses shall have as he was easily an outstanding winner. He oats. But from all appearances, oats are to be there fore took the advice I gave him, and the horse very valuable property this year. The crop is appeared the following week at Lethbridge show light all over America. Farmers who have to is serfect condition, and thoroughly substan- wall. The corresponding portion of the sensitive generate so much horse power might well step that I my opinion about him, as he was just foot presents hundreds of similar parallel project-to consider if they cannot do so with cheaper chartists. In fact his action was the admiration are called the soft, velvety, fibrous tissue. These fuel than oats. There is a lot of small low grade their or everyone who saw him move. He is a first called the soft ive lamine, and in the living wheat in the country and also a lot of barley that he wood beautiful quality and conformation and will make better stock food than beer, all of richards, a nice chose, straight mover, with which might be used to take the place of oats. So held to the and less, a lash wing any amount sole are firmly attached to the corresponding But in feeding wheat and barley one needs to be of leved, character, its the care of this horny parts; but instead of plates, the connecting careful. It is better to feed only a small pro- at caribbridge show viscon view. portion with oats than to try to do without oats

The Irish Horse-Breeding Scheme has done much 51 Clydesdales, 26 Shires, and 38 Half-Bred—that is what are called Hunter sires—horses not eligible for the Racing Calendar or General Stud-Book, but to all intents and purposes purebred. The total was Siberia, as the Russian Empire there is called. 276, and it will be observed that there is quite a considerable relative increase in the number of Shires. lying between the Ural Mountains and the Pacific Clydesdales have only about doubled in the six years, some years has been pouring into the country minations of mares almost the same proportions hold. In 1901 there were 1102 nominations for Thorough bred sires, 328 nominations for Clydesdales, and 114 nominations for Shires or 1544 in all. In 1907, the relative figures were 2404, 727, 226, and 315 for haifbred sires, a total of 3672. Consequently, while the number of subsidised Shire stallions has been trebled, the number of mares nominated for them has only doubled, whereas, while the number of Clydesdale stallions has only been doubled, the number of mares nominated for them has doubled plus 72. The amount paid in premiums for horse-breeding in 1907 was £8061.

More and larger range horse sales are being conducted in the territory west of the Mississippi river A. than in any year in the history of the range-horse industry. The range country is being opened to wheaten bread eaters. Figure the matter out cultivated farms is forcing many western horsemen along whatever line you will, and it comes back out of the business. Cattle and sheep are crowding to about the same thing. The world, for as far out the horses from government land ranches and horse breeding is again reverting to the general breeding operations of farmers. Blooded bulls and pedigreed rams are crowding out the range stallions and their bands of mares.

## Judging at Alberta Fairs Explained

EDITOR FARMER'S ADVOCATE:

I trust you will give me space in your valuable paper to ask Mr. Bryce Wright, De Winton, Alta., a question.

I could have written and asked him personally. but as his judging—in placing "Gold Flake" A, os pedis: B, lateral cartilage: C, peripole: D, perifirst in his class, medal for best draft horse, and the Smith and Graham cup for the best fleshy leaves: G, section of skin: H, fleshy frog: I, horny sole. A photogravure of the prince of Clydesdale animal on the ground at Macleod fair; the next week taking the sixth prize horse at that fair, be had by getting a new subscriber to the FARM- and giving him first prize in his class and sweep-ER'S ADVOCATE at \$1.50. The picture when stakes with "Gold Flake" second—baffled the framed makes one of the most appropriate public in general, and has caused considerable ornaments of a horseman's home. We would discussion so I thought it better to ask him

I trust you won't think this letter too personal, but in cases such as this, we Clydesdale men are The Russian government will, during this at a loss to know what constitutes a good horse

> INTERESTED. To this, Mr. Wright replies:

I am in receipt of yours, requesting through The FARMER'S ADVOCATE, an explanation, for At the Iowa state fair there were twenty-three the purpose of enlightening a gentleman from

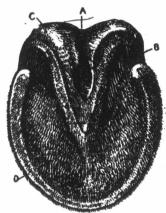
was watching my decisions at Macleod could easily see that I left Baron Sorby unplaced Market prices of grain very seldom bother the altogether in his class as I considered him in

## Waltedir.

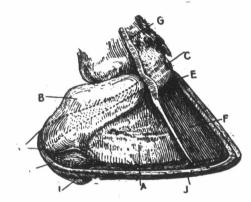
## Internal Structure of the Hoof of Horses

(From Professor Wortley Axe's book, "The Horse in Health and Disease.)

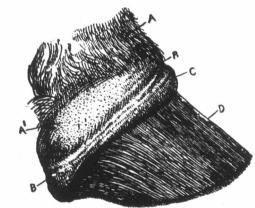
Although the hoof is a firm, strong, protecting covering to the sensitive foot within it, very serious injury to the horse results from defects in its structure, which are often overlooked. will be appreciated more readily when it is known that within the hoof is a particularly delicate and complex arrangement. When a hoof is removed with care, a beautiful, sensitive structure is exposed, having a contour exactly matching the inner surface of the hoof. The inner surface of the wall is covered with rows of thin, horny plates running from above downwards, parallel to each other, all sloping forwards, like the fibers of the



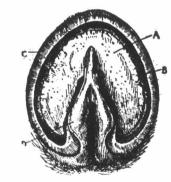
THE SENSITIVE FOOT: SOLE AND FROG. median cleft of fleshy frog: B, laminæ of the bars: velvety tissue of the frog: D, velvety tissue of the sole.



LATERAL CARTILAGES, ETC., OF THE FOOT.



THE SENSITIVE FOOT: SIDE VIEW. A, skin: Alskin devoid of hairs: B, peripolic band: C, coronary cushion: D, sensitive laminæ.



UNDER SURFACE OF THE COFFIN BONE, SHOWING ITS POSITIONS WITHIN THE HOOF. A. os pedis: B. sensitive and insensitive laminæ: C. wall of hoof: D. horny frog.

medium here is a mass of little papillæ, so closely arranged as to give a velvety appearance and