ciety of Scotland, and a prize medal of the Great The following re-Exhibition, London, in 1851. marks are from a pamphlet published in England describing the origin and properties of the hybrid

variety :-

"New varieties of our cultivate I plants generally owe their introduction to accident rather it an to a systematic plan c ntinued through a long series of years. A farmer is struck by the appearance of a few cars of corn, either growing in the field, or what is more generally the case, in some place where the seil and circumstances are favorable for a luxiniant growth. He preserves and cultivates the s ed, and in a year or two introduces it as a new and improved variety, or he may select a large and well shaped root from his , the good qualities of tota parents; and with this turnip field, and raise stock of seed from it; such is the usual method, and it is one that has been adopted with much seccess; but though careful selection and cultivation may alter the appearance and growth of a plant, and improve its produce and quality, yet it can hardly be adopted as a means of introducing new varieties, but rather to improve these we already possess. In the same manner as the judicious breeder selects his cattle for those properties which experience tells him will be impacted to their offspring, in greater or less perfection in proportion as the system of feeding is judicious or the reverse, just so the seed farmer finds the acquired arxariance or quality of a single plant is continued by its seed in the production of similar plants, in greater or less perfection according as the soil, chinate, and season are favorable to the growth of that plant.

Much has been done by improving the various breeds of cattle, yet, with the same care in the judicions selection of agricultural seeds as of live stock, no doubt the reself would be equally satisfactory. It is a matter that demands our serious attention, for if we can by this means add but one bushel per acre to our produce, it will, in the ag- WHAT IS THE BEST MODE OF CASTRATION? gregate of the whole country, become an item of ; vast importance. In very many cases I have seen the production from seed of a good variety exceeding to the extent of seven or eight bushels. that of another kind grown near it, under exactly the same circumstances of soil and tillage, and the same with roots, to the extent of as many tons; thus it seriously affects the individual farmer, and it becomes of vast importance to the public generally that only the best and most pro-ductive of agricultural plants should be entitivated.

But whatever may be done by selection and cultivation, it is by hybridization alone that varieso constantly I rought before the public must either be old soits with fresh names, or owe their origin to accidental impregnation. Cultivation ansd selection may for a time after the form of planty, but under a different system of treatment they return to their original state; with hybrids it is It is a matter of some importance combined or altered with so much ease; the opelection.

public notice, is a red wheat, with stiff straw of a and nothing more is required after than to con-

medium size, and is similar to one of the best specimens shown at the Great Exhibition. It owes its origin, as a distinct variety, to the following circumstances:-

In the year 1816, I grew in a garden at Hengrave, near Bury St. Edmonds, a few plants of Pip i's Thickset wheat, a red variety, then recently introduced by Mr. Piper of Colne Engain. in Esse, and remarkable for its short, thickly clustered car, its s' ort stiff straw, its productiveness in a favorable season, and its liability to blig't in an untaverable one, rather than for the onality of its produce. I thought that some of these bad qualities might be nectualized, and new varieties be obtained, partaking more or less of view I inoculated (as described in the Elustrated Official Catalogue of the Great Exhibition) the Thickset wheat with pollen chiefly taken from the Ho; cown variety, a well known whete wheat of fine quality, with long straw, and with an ear much renger, though not so closely set as that of the Piper's Thickset — in fact, forming to the latter a perfect contrast. From this l'obtair ed a few sharvelled grains, which I planted early in the autumn of the same year, and by division of the roots I greatly increased the number of plants. The picture was many kinds, both oried and white wheat; some of the cars bore a perfect resemblance to the Piper's Thickset: others partook of the character of the Hopetown in everything except in the color of the chall; others had had the car thin and open; and the remainder close set, thus, in the same ear-showing the same characteristics of each kind.

The cultivation of the Hybrid wheat has been continued up to the present time, and by careful hand-picking an even sample is now obtained.

BY T. HURFORD, M. R. C. V. S., 5TH KING'S HUSSARS

Which is the best mode of castration? It you ask the question of five or six men, you will probably receive as many different answers. I have tried the actual cautery, the clams, the ligature, and scraping; and I prefer the last; it being

simple, sale and spredy.

You have, deabtess, tried it, and perhaps most of your readers have, performed the opera-However, at the risk of telling a twicetola tale, I will endeavor to describe the mode of scraping. You begin a storeastration netoe orliarity of form can be of tained tan lon any that are dinary way. Free the testicle, and grasp it with the left hand; divide the seminal part of the coid, and, with a tonga-edged kinde, scraps the rascular cord lengthways, until you scrape through it. Snaple enough, and speedy, too, since from first cut to last scrape takes rather less than twenty seconds. I have done it in sixteens and safely, for I never knew a horse bleed more that the form and character of plants may be than I wanted, and you have a simple would without any foreign substance to deal with. The ration merely requires patience and careful se- horses stand quiet for nearly three days, being merely rubbed down. On the third day, the co-The Hybrid wheat, which is now offered to a guarants washed away, and the parts cleaned,