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ANDS.

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been distinguished for the numbers and tone of greater value could be maintained, timproved, by crossing even with a race excellence of the animals reared for the two deprive ourselves of the profit which uses of the inhabitants. The cultivation the natural or acquired advantages of our of the horse began in the earlier periods situation present. An error of another of our history, for the purposes of war kind is the subject of constant observa and the tournament, and has subsequently ition, the result blewise of imperfect been carried to great perfection, for the knowledge of the distinctive characters race-course, the chase, the saddle, and of breeds. For the procuring of a breed for draught. The cultivation of sheep adapted to the situation in which it is to was early the subject of public attention, be reared, two general methods may be and, as being connected with the woollen pursued; either a new breed may be salemanufactures of the country, was favour- stituted for that which exists, or the old ed by numerous laws; and within a perfone may have its characters modified or ried comparatively recent, extraordinary changed by crossing with other races, attention has been devoted to the means. There are many cases in which scarcely of cultivating animals for human food. an error can be committed in our practice It is during this latter ora, which began in these respects, provided we resort to a about the middle of last century, that the really superior race; but there are many greatest additions have been made to the other cases in which a change of this value of the live-stock of the country, kind may be injerious, or attended with and that the practice of breeding has doubtful benefit. Animals become grabeen reduced to a system, and founded dually adapted to the conditions in which upon principles. Of the species of the they are placed, and many breads have domesticated unimals naturalised in the accordingly become admirably suited to British Islands, numerous varieties pre- the physical state of the country in which sent themselves, to which we apply the they have been naturalised. Thus, the term breeds. The characters of species may have been imprinted by original organisation, or may have been the result of laws of organic development and change, of whose nature and operation we are ignorant. The characters which distinguish varieties are those which may reasonably be ascribed to known agencies, as climate, and the supplies of food. The differences of character, indeed, produced by agencies of this kind, may be very great; and, in the case of many animals, the naturalist may be left in doubt, whether the differences observed are the result of original organisation, or of more recent changes. But however species may have originated, or varieties have been produced, all animals submitted to domestication are subject to modifications of size, form, and other characters, dependent on the conditions under which they are reared; and by breeding, we can communicate the distinctive properties of parents to the progeny. In the tural oconomy of this country, a high degree of importance is to be ascribed to a knowledge of the distinctive characters

in which it is to be placed. By reating, I females that possess the property of yield-ON THE DOMESTICATED ANI. If r example, a breed of large and deheate MALS OF THE BRITISH ISL | oxon, in a country unsuited, from its watural or artificial productions, to maintain it, we mear the hazard of loss in vacious ways; while, on the other hand, by rear-From early times, Great Britain has ing an inferior breed in situations where such a breed might be injured, and not West Highland breed of cattle has become suited to'a humid climate and a country of mountains; the beautiful breed of North Devon, to a country of lower altitude and milder climate. In these; and many cases more, an intermixture of stranger blood might destroy the characters which time had imprinted on the stock, and produce a progeny inferior in useful properties to either of the parent races. Not only have individual breeders erred in the application of this kind of crossing to practice in particular cases, but several entire breeds have been lost which ought to have been preserved. There are many breeds, indeed, so defective in themselves, that time and capital would have been lost in endeavouring to cultivate them; but not a few; as will be seen in the sequel, might have been improved to the degree required, by mere selection of parents, and attention to the known principles of breeding. Not only do animals become adapted in constitution, temperament, and habits, to the sitnations in which they have been naturalised, but characters communicated by of races or breeds. Much of the profit of art become permanent by continued rethe owners depends upon adapting the production. Thus, in the case of the

ing a large quantity of milk, a poculiar breed has been at length formed, exceedingly well suited to the purposes of the dary, and at the same time bardy and fitted to subsist on ordinary food. Now, superior to itself in many properties -Thus, a cross with the Durham or Hereford breeds would produce animals of larger size and superior fattening properties to the native race; but even in these properties, the progeny would be inferior to either the Herofords or the Durhams, and inferior, as a hardy race of dairy cattle, to the Avishire breed itself. Hence, the crossing of a breed of cattle with a race apparen ly superior, will not always be attended with altimate good; and caution and knowledge of the end to be urrived at are required, even in the cuses where the good seems most casily attained. Another error of a different kind, but prozeeding likewise from imperfect knowledge of the relative value of breeds, provails to a great extent. Breeds, in themselves bad, are obstinately retained in districts fitted to support superior races. In every part of the kingdom, we see breeus which are unworthy of being preserved, while the easiest means are at the command of the farmer of supplying their place by others suited to the lecality .-Thus, over the greater part of Wales, there are races of wild diminutive sheep, which, in economical value, can bear no comparison with these which could be supplied from other places. In Kerry, and other mountainous districts stretching along the western coast of Ireland, in place of such sleep as the country could maintain, are to be seen assemblages of animals of the size of dogs, and as wild as antelopes, neither having wool fitted to the manufactures of the country, nor being capable of fattening to any size. Even in the heart of Yorkshire, as we shall see in the sequel, a breed of sheen is preserved, covering a considerable tract of country, which, from its coarseness of form, and inaptitude to fatten, ranks in the lowest class of cultivated sheep in England; and in every part of the kingdom, we may see examples of the vast public and private loss which results from unacquaintunce with the relative value and economical uses of the different breeds of our domesticated animals. To remove the causes of mistaken practice, in a branch of industry so important to the interests of producers breed of any animal to the circumstances | dairy breed of Ayrshire, by breeding from | and consumers, may be regarded as mat-