HORSE-BREEDING; BEING THE GENERAL PRINCIPLES OF HEREDITY APPLIED TO THE BUSINESS OF BREEDING HORSES, WITH INSTRUCTIONS FOR THE MANAGEMENT OF STALLIONS, BROOD MARES AND YOUNG FOALS, AND THE SELECTION OF BREEDING STOCK

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J. H. SANDERS

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PREFACE.

A very large proportion of the matter contained in this volume was prepared for publication several years ago when I had more bessure to study and write upon the topics herein considered, and when I was fresher from the field of practical experience than now. Much of it has since been printed in fragments at various times, some of it in the form of editorial articles for the monthly journal that was so long under my management, some in essays or addresses at meetings and conventions of breeders of live stock, and still other portions of it in the weekly stock-breeders' paper that for more than three years past has occupied my almost constant attention. A little more than four years ago I thought myself about ready to gather up the fragments that were already prepared and give them to the public in book form; but other and more pressing duties intervened, and it is only within a few mouths past, having been relieved from official duties that had for three years claimed all the time that I could possibly spare from the management of The Breeder's Gazette, that I have found leisure to look over and arrange the

matter which has been gradually accumulating for so long a period. I give it now to the public, realizing that, in common with all human effort, it must needs be far from perfect, but with a feeling of satisfaction in knowing that the work has at least been conscientiously done; and that such parts of it as are not derived from a knowledge bought with my own personal experiences have, for their foundation, the teachings of others who are regarded as eminent authorities in the specialties mon which I have anoted them. To the introductory chapters, wherein the general principles of breeding are discussed. I have given much thought; and I am confident they may be studied with profit, not only by horsebreeders, but by all who are disposed to investigate the laws which govern the transmission of hereditary qualities from parent to offspring, whether it be in the human species or in the lower orders of animal life. In the descriptions of breeds I have endeavored to be judicially candid and fair; to "nothing extennate nor set down anglit in malice;" and where controverted points have been touched upon, while I have endeavored to state my views plainly, and to sustain them by such arguments and facts as to my mind are conclusive, yet I have tried to do so in a manner that would not prove offensive to those whose opinions and conclusions may differ from my owns

Aside from the introductory chapters on the general principles of breeding, which are applicable alike to all breeds and all varieties of live stock, I have endeavored to make the work a practical guide to the management of the breeding stud—a book which any farmer or farmer's boy, or any novice in the business of horse-breeding, may read and study with profit. In the course of my long experience as editor of a live-stock paper, covering a period of about sixteen years, the constantly recurring questions that have been sent in for answer have served to direct my attention especially to the points upon which information is most frequently sought, and these points I have endeavored to most fully answer in the pages which follow.

While I have not intended that this book should in any sense be regarded as a veterinary work, yet I have thought I might add greatly to its practical usefulness by incorporating with it the material portions of several articles, prepared at my request, by Prof. James Law, of Cornell University, N. Y., and previously published under my direction, wherein he treats of some of the diseases to which stallions, brood mares and young tools are especially subject. And I have also added a number of pages of matter of a similar nature, prepared especially for this work by N. H. Paaren, M. D., Stare Veterinarian of Illinois, whose high scientific attainments and many years of extensive practice have especially fitted him to give valuable counsel upon such topics.

In the belief that the book will be found interesting to all students of the science and art of breeding, and especially helpful to those who have the care and management of breeding studs, whether on a large or small scale, it is given to the public with a full consciousness of the fact that it does not contain a tithe of what might profitably be written or said upon the subject.

J. H. SANDERS.

Списадо, Feb. 1, 1885.

CHAPTER I.

GENERAL PRINCIPLES OF BREEDING.

It is stated in Holy Writ that "God made man a little lower than the angels," and by common consent the horse is voted next highest in the scale of created beings. It will not be inappropriate then, in a treatise mainly devoted to the breeding of this, the noblest of the brute creation, to discuss some of the general principles which govern the transmission of hereditary qualities from parent to offspring and which are beyond a question substantially the same throughout animal life. Through the practical application of these laws to the business of breeding domestic animals, which for many years past has so largely occupied the attention of intelligent men in Europe and America, the great mass of our agricultural population have become familiar with their inexorable power and force; and with a knowledge of the immutability of these laws has come a realization of the stern fact that the human species furnish no exception to their operation.

The passage in the Decalogue, which declares that the iniquities of the fathers are visited upon the children unto the third and fourth generation, is clothed with a new and startling significance since it has come to be generally understood that this declaration is a concise statement of the operations of a physiological law, from which there is