

**BREEDING, TRAINING,  
MANAGEMENT AND  
DISEASES OF THE HORSE AND  
OTHER DOMESTIC ANIMALS**

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Breeding, Training, Management and Diseases of the Horse and Other Domestic Animals by J. M. Heard

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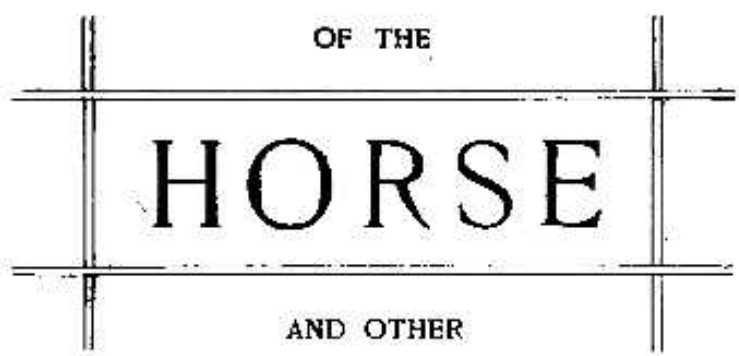
**J. M. HEARD**

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BREEDING,  
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OF THE  
**HORSE**  
AND OTHER  
DOMESTIC ANIMALS,

*With Ninety-Five Illustrations.*

—BY—

J. M. HEARD, M.R.C.V.S.

*Late Professor of Veterinary Surgery in the New York College of  
Veterinary Surgeons; Member of the New York Academy of  
Comparative Medicine and Surgery.*

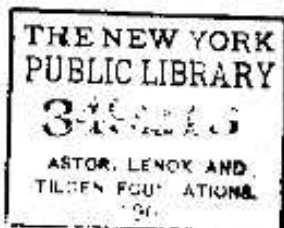
Author of "Horse Shoeing, Past and Present," "How to tell the Age of a Horse,"  
"Chart for Horse Owners," etc.

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## PREFACE.

**A**LTHOUGH there is no dearth of books which treat on the subjects contained in this little volume they are, for the most part, so expensive as to be out of the reach of the average American farmer, who must, after all, when considered in the aggregate, do the great bulk of breeding, and they must necessarily be the owners of a vast majority of the domestic animals contained in the whole country.

Again; they treat, for the most part, on special subjects and, therefore, contain a great deal of matter that is useless and not clearly understood by the average stockowner. Neither has he the time to devote to a complete and detailed study of each of the subjects treated in this work. It will also be found that most books on Breeding and Diseases of Animals that are

## PREFACE.

written in plain, every-day language are very ancient and, therefore, have not the information contained in modern books, which may be based on the vast advance which has been made in scientific breeding, and on the great discoveries which have been recently made in medicine and surgery.

It has been my aim to give the average stockowner the information that he must necessarily be continually seeking, in language so plain, that any common school-boy can understand it. I have, therefore, avoided technical terms wherever possible.

Another reason which has impelled me to arrange a book relating to diseases of animals, is the fact that in a large extent of our country, the services of an educated Veterinarian are difficult to obtain by the average stockowner who resides, for the most part, at a considerable distance from large towns, and even when obtainable, it will be only at a considerable expense, besides the loss of valuable time in checking serious disease and thereby avoiding a part of the losses which in the aggregate, are enormous. A recent bulletin issued



## PREFACE.

by the Department of Agriculture, placing the annual loss of live stock in the United States by disease, at more than \$100,000,000. From experience, I am sure that a large part of this immense loss can be avoided, and it has been my aim to give the necessary advice which will eventually lead to the saving of a very large percentage of the domestic animals which at present die from preventable or curable diseases.

The insertion of the section relating to the administration of medicines, with an alphabetical table of diseases and their remedies and the table relating to medicines and their doses was suggested to me by Dr. J. A. Breakall, for which I thank him. My brother, Dr. A. M. Heard, has also rendered valuable aid in many ways which I cannot here specify. I also thank Mr. George Kittredge for the interest he has taken in making the drawings for several of the illustrations, and Messrs. Clarke and Richardson, for the loan of valuable cuts.

J. M. HEARD, M. R. C. V. S.

NEW YORK CITY.

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## PART I. BREEDING.

### INTRODUCTION.

I AM well aware that there is no royal road that will lead to the highest degree of success for all who may attempt the task of becoming profitable breeders of high class animals, whether of horses, cattle, sheep, swine, poultry, dogs, or in fact any of the domesticated animals. In fact it may be generally stated that the failures will outnumber the successes as ten to one. On looking over the field, however, we can see many managers who are successful, and on careful inquiry it will be found that nearly all of them have attained success because they have acted on lines which are entirely in accord with proven biological facts. It may be asserted that success in breeding will not be achieved by any hap-hazard method, but by careful plans, laid out after great deliberation, and according to a certain standard of action which breeders have set up for their guidance. I am aware that an occasional hap-hazard is sometimes temporarily successful, and this may occur apparently in spite of the violation of what many successful men would call positively correct principles. These facts show to some extent the great difficulties with which the breeder has to contend; especially will the difficulty appear very great if we bear in mind the