

FARMERS' FOES AND THEIR REMEDIES.

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CHAPTER I.—INTRODUCTION.

The purpose of the present bulletin is to afford a description in a succinct form of those pests which are prevalent, reported, or are likely to be introduced in the Province, and their natural enemies, with the remedies prescribed by competent authorities, or which have been found by experience to be the most effective.

The question of pests, whether insect, disease or animal, and whether of plant or animal life, intimately affects the welfare of every tiller of the soil and breeder of animals, to an extent not generally recognised. The running of animals on ranges and rounding them up, occasionally, or feeding them, even if done lavishly, about a farm, is not all the business of a breeder of animals, or the planting, cultivating and pruning of an orchard all that the fruit culturist has to do, to ensure success, or the sowing and reaping of grain all the farmer is called upon to perform. The enemies of the productions of these various avocations, whether of native or introduced origin, all demand close and constant attention. The lack of knowledge or of appreciation of the methods pursued by the successful person, not the least amongst which is the ceaseless warfare against insect and animal pests and diseases, is too often the cause of failure on the part of the farmer, and it is therefore hoped that the information furnished, which is culled from all available authoritative sources, may prove a real benefit to all concerned. In fulfilment, therefore, of the long-standing promise for a publication dealing with the subject, this bulletin is now presented, and which it is earnestly hoped will meet most, if not all, of the conditions involved, and awake our people to renewed efforts in adopting the repressive measures advocated against enemies and the protection of insect friends.

In presenting this brochure to the public, however I do not for a moment pretend that the contents are all emanations resulting from my own observations. It would be presumptuous of me to set up my opinions against those of persons who have made a life-long study of their respective subjects, with all the necessary opportunities to study the life histories of insect and plant life, and the most reliable methods of combating the depredations of the enemies of the stockman, farmer and orchardist. I have, therefore, endeavoured, as far as possible, to cull the best from the researches of the most advanced entomologists and scientists of our own and other countries, supplemented by such information as naturally is obtained by constant contact with