

**A HANDBOOK OF THE
DESTRUCTIVE INSECTS OF
VICTORIA, WITH NOTES ON THE
METHODS OF PREVENTION AND
EXTIRPATION. PART V**

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A handbook of the destructive insects of Victoria, with notes on the methods of prevention and extirpation. Part V by C. French

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C. FRENCH

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WITH NOTES ON THE METHODS OF PREVENTION
AND EXTIRPATION.

Prepared by Order of the Victorian Department of Agriculture

BY

C. FRENCH, F.E.S.,
Government Entomologist.

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PREFACE TO PART V.

In publishing Part V., the last but one of the *Destructive Insects of Victoria*, I may remark that some comparatively new insect pests have been included, especially the more formidable of those attacking orchards, crops, and forests.

As in Part IV., it will be noticed that some prominence has been given to insects attacking our forests. In America, India, and Germany, where forestry has been raised to a "fine art," and a huge commercial success, whole volumes dealing with forest pests have been published, and no expense spared in enlightening foresters and others similarly engaged. The Commonwealth of Australia is singularly rich in valuable timbers, the utilization of which is creating a great commercial industry. It is therefore advantageous that all possible information regarding forest insects should be widely disseminated.

As I have endeavoured to avoid technical names and terms as much as possible, it has been necessary to invent common names for many of the insects described. Fortunately, but very few additional orchard pests have to be recorded since the publication of Part IV., but, as we do not know the time when more of the native insects may leave their natural food to attack orchards, it follows that the distribution of practical and reliable information regarding them is a matter of urgent necessity.

Some additional insect-destroying birds are also dealt with in the present volume. As these birds are absolutely indispensable to the welfare of the orchardist, farmer, and forester, it is to be hoped that, with the aid of the coloured plates, they may be readily distinguished from the fruit and grain-eating kinds.

Part VI., now in course of preparation, will deal also with beneficial insects, and will complete the series, which, when finished, should constitute a standard work for Australia on the subject of Economic Entomology and Ornithology.

Following the preface is a very interesting Report, kindly furnished by Mr. J. G. Turner, Senior Inspector of Fruit Exports and Imports, and embodying the Regulations now in operation. The Report and Regulations will be helpful to both growers and shippers. At the end of the volume will be found a short summary of the latest spraying machines and materials placed on the market.

In conclusion, I have to thank the Assistant Entomologist, Mr. C. French, jun., for the many interesting field notes and observations; Mr. A. T. Sharp, for reading the work, both in manuscript and in proof; and Mr. H. Shelton for his assistance in the preparation of the Index.

CHAS. FRENCH.

Melbourne, December, 1910.

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REPORT OF THE SENIOR INSPECTOR, FRUIT EXPORTS AND IMPORTS

(MR. J. G. TURNER).

Melbourne, 1st December, 1910.

With regard to the Vegetation Diseases Acts, there have been no further amendments since the issue of Part IV., but suggestions have been forwarded to the Hon. the Minister, and certain alterations and additions which will tend towards more effective working are now under consideration.

The Regulations under this Act, on the other hand, have been revised, and considerable alteration has been made. In August, 1909, a Conference of State Ministers of Agriculture met in Melbourne to discuss the matter of restrictions on inter-State interchange of fruit, plants, &c. This was the second such Conference, the previous one having met in Sydney in February, 1908. It will be easily understood how such a course would tend to eliminate, to a great extent, the friction previously existing between the States.

Many important matters were dealt with at the last Conference, and the Regulations of this State have been amended to carry into effect the resolutions passed at same. The following is the form in which the General Regulations relating to the importation of nursery stock, trees, plants, and vegetables stand at present :—

REGULATIONS UNDER THE VEGETATION DISEASES ACTS.

UNDER the powers in that behalf conferred by the Vegetation Diseases Acts to make Regulations among others for the purpose of regulating importation, introduction, and bringing into Victoria of any particular kind of tree, plant, or vegetable likely, in the opinion of the Governor in Council, to spread any disease or insect, and for prescribing penalties for the breach of any Regulation so made, the Governor of the State of Victoria, by and with the advice of the Executive Council, doth order as follows :—

GENERAL.

1. The Regulations of the 13th day of May, 1908, and published in the *Government Gazette* of the 20th day of May, 1908, shall be, and the same are hereby repealed.

INTERPRETATION.

For the purpose of these Regulations, "Registered mark or brand" means any mark registered with and approved by the Department of Agriculture of the State of exportation.

IMPORTATION OF NURSERY STOCK, TREES, PLANTS, AND VEGETABLES GENERALLY.

2. All importers of nursery stock, trees, plants, or vegetables, the importation, introduction, or bringing into Victoria of which is for the time being prohibited, except subject to Regulations, not being of a kind in respect to which any other specific Regulation or Regulations is or are for the time being in force, must give notice to the Inspector under the Vegetation Diseases Act upon arrival of any nursery stock, trees, plants, or vegetables before the removal of such nursery stock, trees, plants, or vegetables from any dock, pier, wharf, station, or warehouse, where such nursery stock, trees, plants, or vegetables have been landed.

3. No person shall remove any nursery stock, trees, plants, or vegetables from any dock, pier, wharf, station, or warehouse unless and until such nursery stock, trees, plants, or vegetables shall have been examined and checked in an area, enclosure, or building approved by the Inspector, and a certificate or written permission for the removal shall have been obtained from the Inspector.

IMPORTATION OF BANANAS.

4. No person shall land, or attempt to land, any bunches from any steam-ship or other vessel until each and every bunch shall have been examined by an inspector, and all diseased stalks or portions of stalks, diseased bananas, or bananas suspected to contain disease or insects, shall have been removed from such bunches.

5. No person shall land on any dock, pier, wharf, or any place whatsoever in Victoria any diseased stalks or portions of stalks, diseased bananas, or bananas suspected to contain disease or insects, and such diseased stalks or portions of stalks, diseased bananas, or bananas suspected to contain disease or insects, shall be destroyed as the inspector may direct.

6. No person shall remove any bananas which have been permitted landing from any importing vessel until such have been further examined in an area, enclosure, or building approved by the inspector.

7. No person shall remove any bananas or portions of such bananas from any dock, pier, wharf, or any place whatsoever whereon bananas are awaiting certification, unless and until written permission so to do shall have been obtained from the inspector.

8. No person shall discharge bananas from any vessel during the hours of darkness, except under special permit from the Minister of Agriculture.

IMPORTATION OF CITRUS FRUITS.

9. All importers of the fruit or any part of any tree of the citrus family must give notice to the inspector under the Vegetation Diseases Act, upon the arrival of the fruit, or any part of any tree of the citrus family, before the removal of such fruit or any part of any tree of the citrus family from any dock, pier, wharf, station, or warehouse where such fruit or any part of any tree of the citrus family shall have been landed.

10. No person shall remove the fruit or any part of any tree of the citrus family from any dock, pier, wharf, station, or warehouse, unless and until such fruit or any part of any tree of the citrus family shall have been examined and checked in an area, enclosure, or building approved by the inspector, and a certificate or written permission for removal shall have been obtained from the inspector.