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Bibliography on the genus *Chilo* ZINCKEN

(*Lepidoptera: Pyralidae*)

I. Introduction

The importance of bibliography to scientific research workers need not to be over emphasised. The literature on different aspects of research on the genus *Chilo* ZINCKEN¹ has been increasing in recent years, particularly during the last five decades to such an extent that research workers find it difficult to know the number and variety of papers available on each aspect. The object in compiling the bibliography had been to include World literature. This proved to be a stupendous task as it needed a good deal of time to make it exhaustive. For facilitating to refer it has been divided into different sections on a broad basis. Although the bibliography has been compiled upto date, it is proposed to issue periodically supplementaries every five years.²

It is hoped that it will prove useful to almost all research workers in the field of agriculture because it covers the literature on various lines of research including the ultramodern application of radio isotopes, electrophoresis, paper chromatography etc. in the determination of taxonomic identity for establishing a permanent biological control of the pest as well as standardising the synthetic diets to evolve more effective control measures including breeding of resistant varieties of crops to insect pests.

The bibliography has been divided into three chapters, namely, systematics, bionomics and control. The chapter on systematics records the literature on all the species of the World described so far along with their time to time nomenclatorial changes in the genus as well as among the genera closely related with *Chilo*. The second chapter on bionomics records all references regarding biology, life history, physiology, chromatography, histology, morphology etc. The third chapter includes the references on all the six measures of controlling the genus, for example, prophylactic, mechanical, cultural, chemical, biological and legislative. The attempts have been made to classify the literature on the genus, *Chilo*, under various chapters as accurately as possible, even then the readers engaged in active research on some particular aspect of the genus may, for the purpose of collecting all possible minutest details on their projects, also go through the literature cited in the sister chapters of the bibliography in addition on the chapter in which their research project falls straightway in accordance with the guidance provided by the contents.

II. Taxonomy

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¹ A critical review on the genus is shortly to be published.

² There are missing details in a few references of this paper (for example titles, numbers of volumes, pages etc.) and a few particulars are still questionable. The author mentioned referring to this in the proof that he will complete and correct all this later in a supplementary article.

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Summary

There is presented a bibliography on taxonomy, bionomics, and control measures of the Pyralid genus *Chilo* ZINCKEN the species of which are widely distributed (S.E. Asia, Africa, southern U.S.A.) as a well known insect pest of rice, maize, *Sorghum*, and sugar-cane.

Zusammenfassung

Es wird eine Bibliographie der verstreuten Literatur über Systematik, Bionomie und Bekämpfung der Pyralidengattung *Chilo* ZINCKEN vorgelegt, deren über Südostasien, Afrika und die südlichen U.S.A. verbreitete Arten als Schädlinge an Reis, Mais, *Sorghum* und Zuckerrohr bekannt sind.

Резюме

Предлагается библиография разбросанной литературы о систематике и бионии, а также о борьбе с относящимся к семейству Pyralidae родом *Chilo* ZINCKEN, виды которого распространены в юго-восточной Азии, Африке и на юге США и известны как вредители риса, кукурузы, *Sorghum* и сахарного тростника.