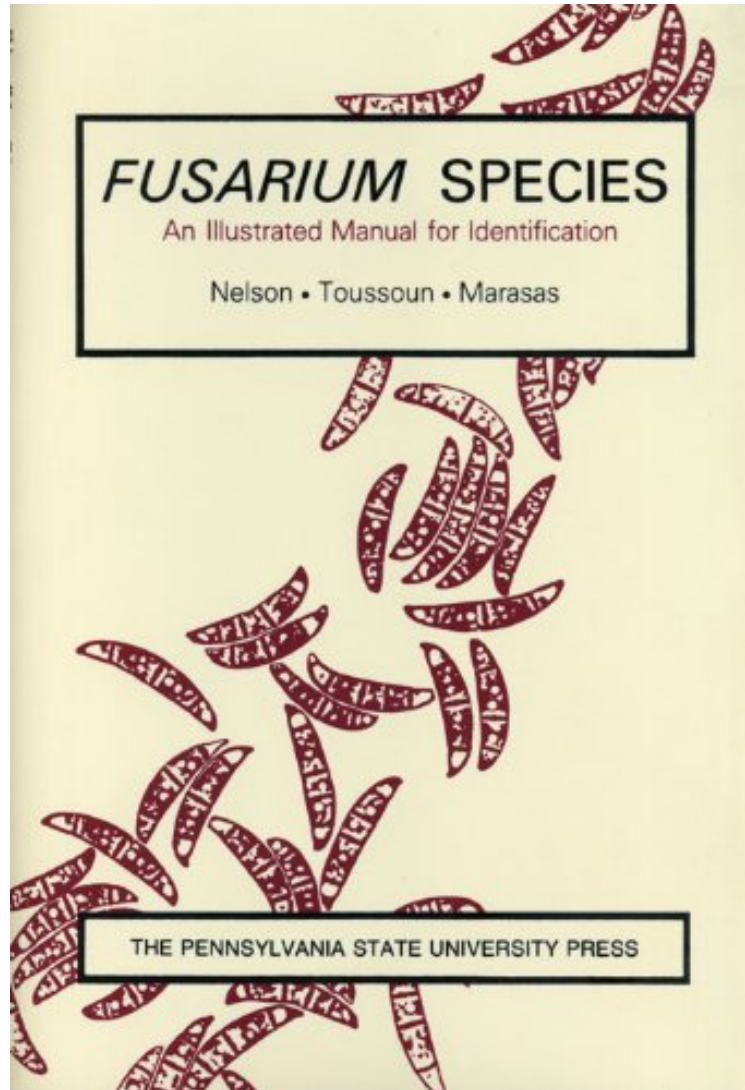


[Read now] Fusarium Species: An Illustrated Manual for Identification

## Fusarium Species: An Illustrated Manual for Identification

*From Pennsylvania State Univ Pr (Txt)*

*\*Download PDF | ePub | DOC | audiobook | ebooks*



[Download](#)

[Read Online](#)

#4764708 in Books 1983-09-01 Original language: English PDF # 1 10.00 x .63 x 7.001, #File Name: 0271003499226 pages | File size: 26.Mb

**From Pennsylvania State Univ Pr (Txt) : Fusarium Species: An Illustrated Manual for Identification** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Fusarium Species: An Illustrated Manual for Identification:

The members of the genus *Fusarium* are among the most important plant pathogens in the world. In recent years the genus has acquired additional importance as many *Fusarium* species have been shown to produce mycotoxins causing

both animal and human diseases. One of the problems encountered by workers interested in *Fusarium* species, particularly in the toxigenic species, is correct identification of each strain. This problem was the impetus for the preparation of this volume. The taxonomy of the genus *Fusarium* has been the subject of controversy for many years. *Die Fusarien*, published in 1935 by Wollenweber and Reinking, has been used as a starting point in this book. Since 1935 several other taxonomic systems have been proposed for this genus. These systems vary from one with over 90 species to one with only nine species; several other systems fall between these two extremes. All of these systems are based on the work of Wollenweber, and although each system has something to offer, none of them is satisfactory by itself for the identification of all *Fusarium* species. In this volume we have selected the best features of several systems and combined them in a compromise system that will allow the individual worker to identify *Fusarium* species using several of the current taxonomic systems. The identification of species is facilitated by synoptic keys for the sections and species. These keys offer the user the choice of many characters in identifying the culture, and the keys may be entered at any point. The keys are supplemented by comprehensive descriptions of each species and black-and-white photographs showing the salient morphological features and the extent of variation within each species. The names of the *Fusarium* species currently in use are listed in the index, enabling the user to find the necessary information for identification regardless of the taxonomic system being used. The description of each species contains the synonyms from each of the current taxonomic systems to further guide the user. Thus, the user of this book can begin with the name of a *Fusarium* species and use the index to find the necessary information, or the user can begin with the synoptic keys and be led to the proper information by that route. The book also contains a thorough explanation of the proper methods for preparing cultures from collected isolates; following these procedures will assure the user the greatest accuracy in matching the morphological characteristics of laboratory cultures to the photomicrographs in the book. A series of color plates of cultures from the *Fusarium* Research Center collection, provided to assist in color identification, obviates the need for cumbersome color charts.

About the Author P.E. Nelson and T.A. Toussoun are Professors of Plant Pathology and codirectors of the *Fusarium* Research Center at The Pennsylvania State University. Both took their Ph.D.'s at the University of California, Berkeley. W.F.O. Marasas is a University of Wisconsin Ph.D., currently at the National Research Institute for Nutritional Diseases, South Africa.