

HUNAN BAIYIYANGJIUYU FANGZHI



湖南白蚁研究与防治

主编：童新旺

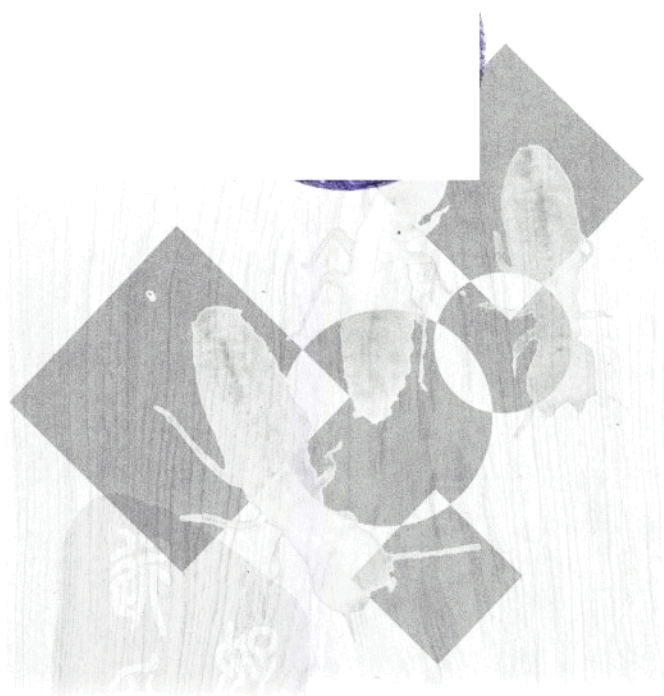


S763.33
T863

湖南省自然科学技术专著出版基金资助出版

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湖南科学技术出版社

湖南白蚁研究与防治

主 编：童新旺

责任编辑：郑久平

出版发行：湖南科学技术出版社

社 址：长沙市湘雅路 276 号

<http://www.hnstp.com>

印 刷：长沙天时印务有限公司

(印装质量问题请直接与本厂联系)

厂 址：长沙市韶山南路 141 号

邮 编：410004

出版日期：2004 年 11 月第 1 版第 1 次

开 本：787mm×1092mm 1/16

印 张：23.5

字 数：568000

书 号：ISBN 7-5357-4121-5/S·522

定 价：45.00 元

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《湖南白蚁研究与防治》

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前 言

QIAN YAN

湖南地处中亚热带，气候温暖、雨量充沛，植物种类繁多，有利于白蚁的生存和发展。目前研究的结果表明：湖南白蚁种类已达 4 科 18 属 56 种，大部分种类集中分布在湘南和湘西南地区。

湖南是我国重要的用材林生产基地，人工林面积占全省林业用地面积的 80%。一方面，近几十年来由于单一纯林面积不断增加，林相简单，造成生物多样性贫乏；另一方面由于交通发达，木材交换频繁，加之检疫把关不严，给白蚁的传播、扩散和蔓延提供了条件，致使白蚁灾害日趋严重。不少种类过去一直在森林里，如今已扩散到房屋建筑和江河库湖堤坝。据初步估算，湖南省因白蚁危害造成的经济损失每年至少 6000 万~8000 万元人民币。

湖南省白蚁研究与防治工作起步较晚，真正有组织有计划开展白蚁研究还是从 20 世纪 70 年代初开始的。1974 年，湖南省科委将白蚁防治正式纳入科研计划，1975 年湖南省林业厅委托湖南省林业科学研究所组织召开了“湖南省林木白蚁防治经验交流会（汨罗）”，1976 年在衡阳正式成立“湖南省白蚁防治科研协作小组”，1977 年由省林科所和郴州地区林科所牵头承办“南方八省（区）林木白蚁防治经验交流与科研协作会”。此后湖南省白蚁研究与防治工作全面展开。为更好地集中全省专业技术力量，于 1987 年 3 月 18 日在邵阳市正式成立“湖南白蚁防治协会”。

白蚁防治技术的研究是一项旷日持久的课题。从 20 世纪 70 年代起，全省广大白蚁研究工作者不辞劳苦，不畏艰险，踏遍了湖南的山山水水，调查采集了大量的白蚁标本，开展了群防群治的工作，取得了巨大的成绩。同时在国内各种刊物和学术会议上发表了许多有份量的文章，充分反映了湖南省白蚁研究的水平。由于这些文章比较分散，部分论文尚未正式发表。为了总结经验，推动白蚁防治工作，根据湖南白蚁防治协会的意见，我们将过去 20 多年来全省白蚁防治工作者撰写的有关白蚁方面的论文进行收集和整理，编辑出版。希望本书的出版能更快地推进湖南省的白蚁研究和防治工作，给湖南的经济建设作出更大的贡献。

《湖南白蚁研究与防治》一书的出版，得益于湖南省科技厅、湖南省林业厅科学技术与国际合作处、森林病虫害防治检疫站、长沙市白蚁防治站的鼎力资助，湖南省林业科学院森保所及湖南白蚁协会会员的支持，在此，表示深深地感谢！

童新旺

2004 年 3 月



白蚁蛀空的柳杉



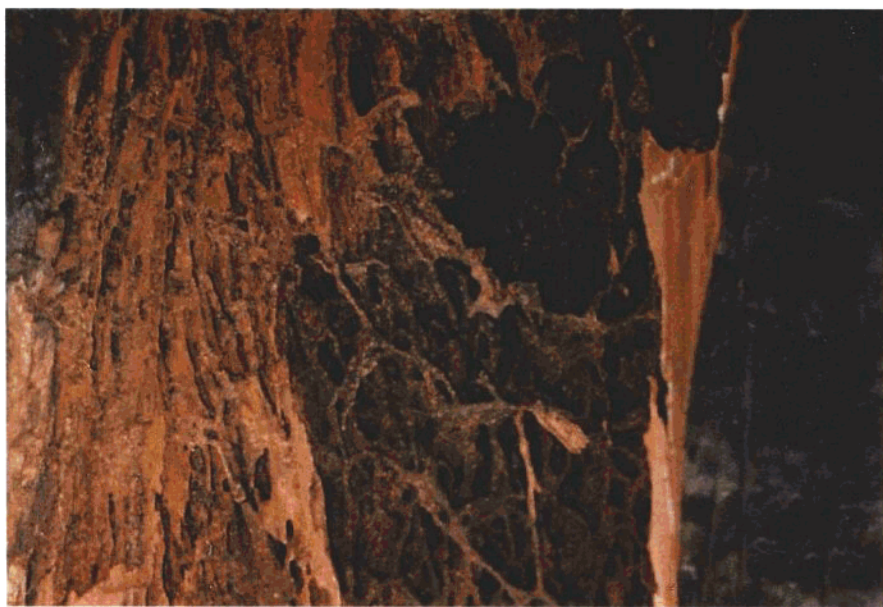
土栖白蚁危害堤坝



白蚁蛀空的水杉



土栖白蚁危害活樟树



古建筑立柱被害



白蚁危害床铺



白蚁蛀空房架



白蚁危害竹凉席



白蚁危害图书



白蚁危害苹果



白蚁蛀坏楼梯



白蚁危害家用电器



白蚁危害消防器材



白蚁危害电缆线



白蚁危害衣被



白蚁树巢外的排泄物



白蚁筑巢在树内



家白蚁蚁巢



家白蚁房上巢



家白蚁成虫分飞



黑翅土白蚁分群孔



黄翅大白蚁分群孔



黑翅土白蚁的王宫



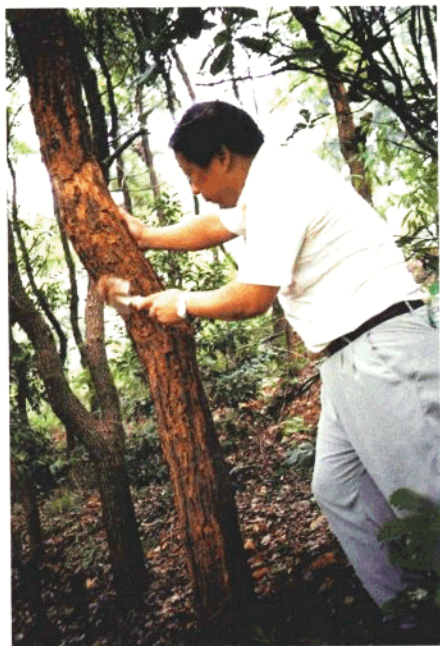
黄翅大白蚁蚁王、蚁后



黄翅大白蚁王宫



土栖白蚁菌圃



湖南省林科院科研人员在防治林木白蚁



白蚁诱集箱



防治白蚁的诱饵剂



采用敷板诱杀白蚁



白蚁死之后巢体长出的炭棒菌



白蚁死之后巢体长出的鹿角菌

Foreword

Hunan locates in subtropics, with the warmth and abundant rain, the categories of the plants is numerous, those are good for termites to exist and develop. According to the current research: There are 56 species of termites belonging to 18 genera in 4 families in Hunan. The main species concentrates to distribute in the south and southwest of Hunan.

Hunan is a important base of woods material in our country, plantation's area accounts for 80% of whole forestry asrea in Hunan province. On the one hand, in the past several decades, with increasing of the area for pure woods, the woods is simple mutually, resulting in poor biodiversity. On the other hand, with the prosperous transportation, the frequently exchanges of timbers without strict quarantine termites' spread became easy and the termites damage is more and more serious. Some species of them had been living in forest, now have spread to dikes of the river, reservoirs, lakes, and the houses or other buildings. Grossly estimated, the loss of termites damage is no less than ¥ 60 million annually.

The research of termite control is later in Hunan, it was not started until the early 1970's. In 1974, the Committee of Science & technique in Hunan bring termite control into scientific research plan formally. In 1975, Hunan Bureau of forestry entrusted Hunan institute of forestry to organize and convoke "The experiential exchanging conference of woods termite control in Hunan province (Miluo City)". In 1976, "The research group of termite control of Hunan province" founded formally in Hengyang City In 1977, "south eight provinces(area) wood termite control experience exchanging and research cooperating conference" came off organized by the Chenzhou Institute of Forestry and Hunan Institute of Forestry. From then on, the research of termite control in Hunan spread completely. In 1987, the Termite Control Association of Hunan founded in Shaoyang City in order to strengthen the professional technique of termite control of all over Hunan province.

Termite control is a long task. From 1970's, a large number of persons who researched termites have obtained great achievements, they stepped around Hunan in order to investigate and collect the termites specimens in spite of hardships and dangers. Lots of their valuable papers which published in all kinds of civil publication or exchanging in academic conferences well reflected the investigative level of termite resesrch in Hunan province. Some of the articles have not yet been formally published because of relative decentralization. For the sake of summarizing experience and promoting the work of termite control, we edited and published the papers written by the

workers researching termites in the past 20 years according to the opinion of the Termite Control Association of Hunan. We hope this book will accelerate the work of termite control and has more contribution for Hunan province's economy.

The publication of this book "termite research and control of Hunan" profited great sustentation from Hunan Bureau of Science & Technique, the science & Technology and International Cooperation Department of Forestry Bureau of Hunan Province, Hunan Dispensary of Forest Diseases and Insect Pests & Quarantine, Termite Control Station of Changsha City, and the help from the Forest Resource Protection Institute of Hunan Academy of Forestry and the academicians of the Termite Control Association of Hunan, thank them very much.

Tong Xinwang
March 2004

内 容 简 介

NEI RONG JIAN JIE

本书全面介绍了湖南省 20 多年白蚁研究与防治的成果，同时，通过本书可以全面了解湖南白蚁危害现状和白蚁研究与防治进展。本书内容丰富，既有理论知识又有宝贵的防治实践经验。可供广大人民群众、白蚁防治专业技术人员以及科研、教学单位参考。

Introduction

This book fully introduced the fruits of research and control on termites in Hunan province in the past over 20 years. At the same time, you can know completely how get along with the actuality of termites' damage and research and control of termites in Hunan by this book. The contents of this book is very abundant, there are theoretical knowledges and valuable experiences of controlling termites as well. It is a reference book for mass, professional worker controlling termites and units of research and terching.

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