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The Distribution and Importance of Arthropod Pests and Weeds of Agriculture and Forestry Plantations in Southern China

中国南方农林业有害节肢动物及杂草的分布和重要性

Li Li-ying, Wang Ren and D. F. Waterhouse

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Cover inset : The fruit piercing moth, *Othreis fullonia*
(AUSTRALIAN NATIONAL INSECT COLLECTION)

封面插图：通草落叶夜蛾，*Othreis fullonia*（澳大利亚国立昆虫标本馆）

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Foreword 1

The history of using beneficial insects to control pests in China can be traced to the time of 1600 years ago, when the green tree ant, *Oecophylla smaragdina* was sold 'commercially' for citrus pest control in Guangdong Province. Yet organized modern research and implementation of biological control only began in mainland China, when the vedalia beetle, *Rodolia cardinalis* was introduced from the former USSR to Guangdong in 1955. It has exerted control of the cottony cushion scale in *Casuarina* trees ever since. The first biological control station for mass rearing *Trichogramma* was also established in Guangdong in 1958. Since then, augmentation of parasitoids and predators and conservation of indigenous natural enemies have been dominating components of biological control in China. Many biocontrol agents were introduced during 1970s and up to the mid-1980s, including *Encarsia formosa* and a number of predacious mite species. However, these introductions were primarily for augmentation programmes, rather than biological control in a 'classical' sense. Introduction of foreign biological control agents have so far played a relatively minor role in China's pest management programs.

The establishment in 1984 of China's first quarantine facility for biological control in the Chinese Academy of Agricultural Sciences in Beijing marked the beginning of significantly increased biological control introductions into the country. In addition to over 200 introductions for augmentation programmes, research programmes in two areas have been the major users of the quarantine facilitiy : biological control of forest pests and of exotic weeds. The parasitoid, *Coccobius azumai* introduced from Japan in 1986 has established well throughout Guangdong Province, leading to a more than 80% decrease in the populations of its scale insect host, *Hemiberlesia pitysophila* in pine plantations. *Agasicles hygrophila*, a chrysomelid flea beetle introduced from the USA in 1986, has achieved remarkable success in suppressing populations of alligator weed, *Alternanthera philoxeroides* in at least 5 Provinces in southern China.

Three major trends occurred in the Asia and Pacific Region when the world marched into the 1990s. These are the continued population increase in the developing countries and urbanisation; diversification of agricultural production ; and the rapid increase of trade in agricultural products. According to FAO statistics, China's international trade in agricultural products has increased at a rate of over 20% per year in the past 5-6 years. These trends have almost unavoidably increased the invasion of exotic insect pests, crop diseases and weeds into China, which poses the Chinese government, the research comminity, plant protectionists and farmers with a new challenge to protect agricultural production and to achieve sustainable development while managing the pests in an integrated and environmentally sound manner. Biological control, particularly through the introduction and establishment of host specific natural enemies from the area of origin of the pests, provides a promising strategy as well as an effective option to meet the challenge.

The Australian Centre for International Agricultural Research (ACIAR) and CSIRO, particularly Dr. D. F. Waterhouse, have been faithful friends and supporters to the Chinese biological control community. We have had a long and successful cooperation in biological control. ACIAR has supported the adoption of Australian techniques of mass rearing entomopathogenic nematodes by the Chinese Academy of Agricultural Sciences and the Guangdong Entomological Institute. This has resulted in the establishment of production facilities in Beijing and Guangzhou and the application of nematodes on a large scale for the control of insect pests in forests, shade trees, orchards, sugarcane fields and vegetables. Biological control also features significantly in some, more recent, ACIAR sponsored projects in China, including the development of a citrus integrated pest management project in Guangdong and Hunan and a vegetable IPM project in southern China, co-ordinated by the Zhejiang Agricultural University.

In recounting some highlights of biological control in China in the past, I wish to emphasize the opportunity and the challenges that we are facing today in the development of biological control, particularly those arising from recently discovered exotic pests.

This book, compiled by Drs. Li Li-ying, Wang Ren and D. F. Waterhouse, who are all my long time friends, provides us for the first time with a comprehensive information base for major insects and weeds in southern China, with special emphasis on its use in classical biological control. It provides us with a working base from which projects on classical biological control against a number of important pests and weeds may be initiated through joint efforts of the Chinese government, the research organizations and the international community.

I take this opportunity to express again my sincere appreciation to ACIAR and especially to Dr. D. F. Waterhouse for their continued enthusiasm in promoting biological control in China, and in the Asia and Pacific Region. As shown in this book, I have found a true spirit of friendship as well as academic inspiration from ACIAR and Dr. D. F. Waterhouse.

Prof. Qiu Shi-bang
Academician, Chinese Academy of Sciences
Beijing, People's Republic of China

前言 1 （中译文）

中国利用有益昆虫的历史可追溯到1600年以前，那时红树蚁(*Oecophylla smaragdina*)曾在广东省出售以防治柑桔害虫。然而在中国大陆有组织的现代生防研究和实施只是开始于1955年澳洲瓢虫(*Rodolia cardinalis*)自前苏联引入广东且从此控制了木麻黄上的吹绵蚧。 第一个大量繁殖赤眼蜂的生防站也是在广东于1958年建立的。从此以后寄生性和捕食性天敌的增殖及本地天敌的保护成为中国生防的主流。自1970年代到1980年代中相当数量的天敌被引进过，如*Encarsia formosa*和多种捕食螨，然而这些引进是为增殖工作的起始，而不是出于'传统'生防的目的。中国害虫治理计划中引进外国生防因子的作用相对来说仍是小的。

1984年北京中国农科院建立了第一个检疫设施象征了我国将大大增加生防因子的引进。除了为增殖项目而引入200多次外，两个领域的研究项目是检疫设施的主要用户：林业害虫和外来杂草的生物防治。1986年由日本引入的花角蚜小蜂(*Coccobius azumai*)在整个广东省建立了群落，且使它的寄主 - 松林里的松突圆蚧(*Hemiberlesia pitysophila*)种群下降了80%以上。 一种金花虫 - *Agasicles hygrophila* 1986年由美国引进，至少在中国南方5个省内，在抑制水花生(*Alternanthera philoxeroides*)种群上取得了显著的成绩。

当世界进入1990年代，亚太地区有三种主要趋向，即发展中国家人口的持续增长和城市化、农业生产的多样化、及农产品贸易的迅速增加。根据联合国粮农组织的统计，中国农产品外贸近5-6年每年是20%的增长率，这些趋向几乎不可避免地增加了外来害虫、作物病害和杂草的引入中国，向中国政府、科研单位、植保工作者及农民提出了保护农产品和获得持续发展、同时以综合及环保观点来治理害虫的新任务。生物防治，特别是从害虫原产地引入寄主专一的天敌并建立群落，为解决此任务提供了可行的策略及有效的选择。

澳大利亚国际农业研究中心（ACIAR）和科工组织（CSIRO），特别是D. F. 瓦特豪斯博士，是中国生防机构忠实的朋友和支持者，我们在生防工作中有过长期和成功的合作。ACIAR支持过中国农科院及广东省昆虫研究所吸收澳大利亚的大量繁殖昆虫病原线虫技术，结果在北京和广州建立了生产设施，并大规模地应用于林业、林荫道树、果园、蔗田和蔬菜害虫的防治。ACIAR最近在中国倡导的项目，包括广东和湖南开发的柑桔害虫综合防治及由浙江农业大学协调的蔬菜害虫综合防治中，生物防治也起重要作用。

值此再列举中国过去生防概况之际，我要特别强调在发展生防的今天我们所面临的、特别是由最近发现的外来害虫引起的机遇和任务。

李丽英、王韧及瓦特豪斯博士都是我多年的好友，他们所编的此书为我们首次提供了全面的有关中国南方主要害虫和杂草的信息基础。及特别强调它们在传统生防中的应用。它为我们由中国政府、科研单位及国际组织共同努力而可能起动的许多重要害虫和杂草的传统生防项目提供了工作基础。

借此机会向ACIAR、特别是D. F. 瓦特豪斯博士、为他们在中国及亚太地区推动生防所表现的经久热情，表示我忠心的感谢。 正如此书所展示的，我已从ACIAR和D. F. 瓦特豪斯博士那里找到了一种真实友情和学术上的激励。

邱式邦
教授，中国科学院院士
中国，北京

Foreword 2

Ever since its establishment in 1982, ACIAR has been active in promoting sustainable agriculture. For this reason it has strongly supported, from the beginning, projects in the field of classical biological control, a highly relevant activity in which Australian scientists are known world-wide for their many successes.

Starting in the Pacific, ACIAR supported a survey of the major arthropod pests and weeds of agriculture, followed by the preparation, for the most important species, of dossiers which summarised for each what was known concerning prospects for successful biological control. This information enabled Pacific nations to submit to several international donors, with considerable success, requests for funding for a range of projects. As a result, there have been a number of notable biological control successes in the past decade and more are in prospect.

Recognising the demonstrated value of this approach in the Pacific, several nations in Southeast Asia approached ACIAR to arrange for a similar survey to be carried out in that region. When the results of this survey were reviewed at a multi-nation workshop in Kuala Lumpur in 1995, Drs Li Li-ying and Ren Wang from China were present as invited observers. Their immediate enthusiasm for extending the survey process to southern China led to the present collaboration with ACIAR, which we regard as an important and highly successful extension of earlier initiatives. In all of these activities a key role has been played by Dr D F Waterhouse who, for many years, has served ACIAR as a Consultant in Plant Protection. I look forward keenly to the information in this publication providing stimulation for a significant increase in successful classical biological control projects in southern China.

R J Clements
Director
Australian Centre for International
Agricultural Research
Canberra, Australia

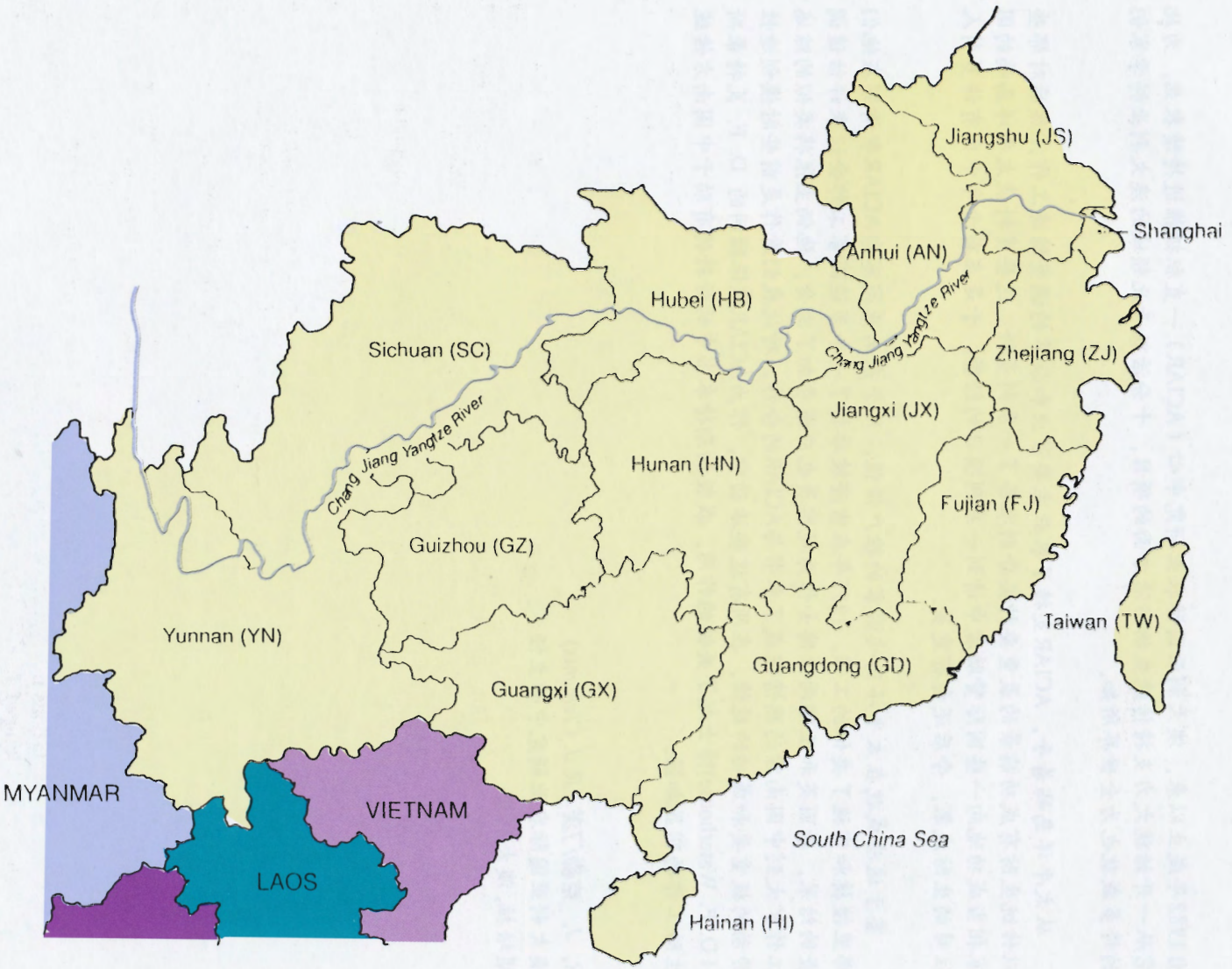
前言 2 （中译文）

自1982年成立以来，澳大利亚国际农业研究中心（ACIAR）一直积极推进持续农业，为此它从一开始就大力支持传统生物防治方面的项目，十分活跃于此领域的澳大利亚科学家们的许多成就也为全世界所知。

从太平洋岛屿着手，ACIAR支持了农业主要害虫和杂草的调查综述工作，然后对那些以传统生防有成功前景的最重要种类分别准备了一系列资料。这些资料使太平洋岛屿的国家相当成功地向一些国际赞助者申请到一系列项目的经费。于是在前十年中已有许多引人注目的生防成果，今后还会有更多。

鉴于这些成就在太平洋岛屿国家的推广价值，几个东南亚国家向ACIAR申请到在他们那里按排和实施了类似的工作。1995年在吉隆坡举行了一个多边国家工作会议来评估该调查的结果。李丽英和王韧两位博士作为观察员也应邀参加了次会。他俩主张将类似的综述工作扩大到中国南方的热情促成了本书与ACIAR的合作。对此我们看作是前些时候创造性劳动的极重要和成功的延续。在所有这些活动中，作为ACIAR植保顾问的 D. F. 瓦特豪斯（D. F. Waterhouse)博士起了关键的作用。我殷切期待本书中的资料将有助于中国南方传统生防工作的明显加强。

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澳大利亚国际农业研究中心主任
堪培拉，澳大利亚



Map of southern China, showing the Provinces involved in the survey

The Distribution and Importance of Arthropod Pests and Weeds of Agriculture and Forestry Plantations in Southern China

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中国南方农林业有害节肢动物及杂草的分布和重要性

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1. ABSTRACT

The information, presented in 23 tables (13 dealing with individual crops or groups of crops) is intended primarily to provide a database to facilitate the selection of appropriate exotic arthropod and weed pests as targets for classical biological control. Modern names have been provided for about a quarter of the pest species involved.

A number of agricultural and forestry experts provided raw data on the distribution and importance of pest species occurring in the 14 Provinces lying predominantly south of the Yangste River. These records involve 991 arthropod pests and 87 major weeds.

Of the arthropod pests, 172 were rated as highly important and a subgroup of 22 particularly so. Not only are several of the latter exotic to the region, and thus potential targets for classical biological control, but control successes elsewhere against 3 have been reported. The highest scoring arthropod pests are: *Agrotis ipsilon*, *Aleurocanthus spiniferus*, *Amrasca vitis*, *Anoplophora chinensis*, *Cnaphalocrocis medinalis*, *Eumeta miniscula*, *Frankliniella intonsa*, *Maruca vitrata*, *Mythimna separata*, *Nilaparvata lugens*, *Ostrinia furnacalis*, *Othreis fullonia*, *Panonychus citri*, *Papilio polytes*, *Papilio xuthus*, *Phyllocnistis citrella*, *Phyllocoptruta oleivora*, *Pieris rapae*, *Plutella xylostella*, *Scirtothrips citri*, *Toxoptera aurantii* and *Toxoptera citricida*.

A number of the 87 major weeds are not only exotic to the region, but have been successfully controlled in other regions. The 13 most important weeds are:

Alopecurus aequalis, *Cyperus difformis*, *Cyperus rotundus*, *Digitaria sanguinalis*, *Echinochloa crusgalli*, *Eichhornia crassipes*, *Elusine indica*, *Galium aparine*, *Leptochloa chinensis*, *Malachium aquaticum*, *Mimosa pudica*, *Portulaca oleracea* and *Stellaria media*.

It is clear, from the information provided, that there are a number of attractive biological control targets (both arthropod pests and weeds) and that progessive attention to these would not only improve agricultural and forestry outputs in southern China, but also reduce control costs in a sustainable and environmentally friendly manner.

1. 摘要（中译文）

书中23 张表（其中13张是各作物或作物类群的）是打算初步为传统生防选择适当的外来害虫及杂草提供基本资料，书内还记有约1/4种类的种名更改。

许多农林业专家提供了发生在长江以南14省的害虫分布和重要性的原始材料，共包括了991种害虫和87种主要杂草。

在害虫中有172种是十分重要的，22种是特别重要的。后者中不仅有许多是由外地入侵的，因此它们是传统生防有前景的对象，而且已在其他地区记载有几个防治成功的例子。重要性得分最高的是：
小地老虎（*Agrotis ipsilon*），桔刺粉蚧（*Aleurocanthus spiniferus*），假眼小绿叶蝉（*Amrasca vitis*），星天牛（*Anoplophora chinensis*），稻纵卷叶螟（*Cnaphalocrocis medinalis*），茶蓑蛾（*Eumeta miniscula*），花蓟马（*Frankliniella intonsa*），豆荚野螟（*Maruca vitrata*），粘虫（*Mythimna separata*），褐稻虱（*Nilaparvata lugens*），亚洲玉米螟（*Ostrinia furnacalis*），柑桔全爪螨（*Panonychus citri*），玉带凤蝶（*Papilio polytes*），金凤蝶（*Papilio xuthus*），桔叶潜蛾（*Phyllocnistis citrella*），柑桔锈螨（*Phyllocoptruta oleivora*），菜粉蝶（*Pieris rapae*），小菜蛾（*Plutella xylostella*），茶黄蓟马（*Scirtothrips dorsalis*），桔二岔蚜（*Toxoptera aurantii*），及桔蚜（*Toxoptera citricida*）。

87种主要杂草中不仅有许多是由外地入侵的，而且在其他地方已被成功地控制了。13种最主要的杂草是：*Alopecurus aequalis, Cyperus difformis, Cyperus rotundus, Digitaria sanguinalis, Echinochloa crusgalli, Eichhornia crassipes, Elusine indica, Galium aparine, Leptochloa chinensis, Malachium aquaticum, Mimosa pudica, Portulaca oleracea* 及 *Stellaria media*。

显然，在所提供的资料中会有许多令人注目的生防对象（害虫和杂草），不断地高度重视它们，将不仅提高中国南方农林业产量，而且在可持续而保持环境良好的状态下减少防治成本。

2. INTRODUCTION

The first record of the use of natural enemies to control insect pests is believed to be from China (Chi Han, about 300 AD: Nan Fang Tshao Mu Chuang: Records of the Plants and Trees of the Southern Regions). Nests of the green tree ant *Oecophylla smaragdina* were sold near Guangzhou for the control of citrus insect pests, such as *Rhyncocoris humeralis* (Konishi and Ito 1973; Pu 1978).

The use of naturally occurring enemies to control native insects has continued to be the dominating influence on biological control in China to this day. Augmentative releases to swell the numbers of natural enemies already present; and mass production and release of natural enemies, that have not maintained themselves in the field, have been the main methods adopted and there have been a number of successes.

Far less attention has been given in China to classical biological control, in which exotic insect pests are controlled by introducing, where it is safe to do so (Waterhouse, 1991), the missing natural enemies that control these pests in their country of origin. The fact that there have been comparatively few attempts at classical biological control (see Table A) may be due in part to the general perception that the majority of important arthropod pests and weeds in China are native. Be that as it may, there are certainly many important insect pests and weeds in China that are exotic and these are clearly potential targets for classical biological control. One great advantage that classical biological control has over other types of biological control is that, once established successfully, no action is required of the primary producer other than to avoid the disruptive use of pesticides.

More than 280 species or strains of natural enemies (parasitoids, predators, pathogens, entomopathogenic nematodes) of arthropod pests have been introduced to China since 1949. A number of these were already present (either as native species or from unintentional introductions), but were introduced in order to widen their respective gene pools. Some of the species (e.g. several *Trichogramma* spp.) were used in research, but were not liberated in the field.

Elsewhere in the world biological control has been attracting steadily increasing interest, partly in order to reduce dependence upon pesticides; and there are many striking examples of successful projects with very high ratios of benefits to costs. Since the cost of a classical biological control project is much the same whether the target pest is major or minor, it is desirable, for best economic returns, to select the most important pests as potential targets.

This then is the focus of the present compilation. It sets out to provide, for agriculture and forestry plantations, an overview of the following questions:

What are the arthropod pests and weeds of the major crops?
What is their distribution in southern China?
How important are they in each of the 14 southern Provinces and also in southern China?
Which of the more important pests are believed to be introduced (and hence are potential targets for classical biological control)?
Which of the introduced pests have been targets for biological control elsewhere and was this successful?

Forestry plantations are included in the survey because these are increasing rapidly in importance and, in the future, will be the major sources of timber in most regions. With few exceptions, trees can sustain some damage without this leading to unacceptable economic loss (a situation highly favourable to classical biological control). Furthermore, often the only alternative, namely the use of pesticides, is almost always prohibitive on the grounds of cost.

Table A. **Insects and mites introduced for the classical biological control of pests and weeds in China.**
为中国害虫和杂草的传统生物防治而引入的昆虫及螨类

Target pest	Introduced species	Result	Reference
INSECTS			
Hemiptera			
ALEYRODIDAE			
Trialeurodes vaporariorum	*Encarsia formosa*	good to excellent	Liu Jianjun et al. 1987*
APHIDIDAE			
Eriosoma lanigerum	*Aphelinus mali*	good to excellent	Pu Zhilong 1984*
DIASPIDIDAE			
Hemiberlesia pitysophila	*Coccobius azumai*	good to fair	Pan Wuyao et al. 1987*
MARGARODIDAE			
Icerya purchasi	*Rodolia cardinalis*	good to fair	Pu Zhilong 1984*
PSEUDOCOCCIDAE			
Oracella acuta	*Cryptolaemus montrouzieri*	good locally	Li Liying 1992
Pseudococcus spp.	*Cryptolaemus montrouzieri*	good to fair	Pu Zhilong 1984*
PSYLLIDAE			
Diaphorina citri	*Tamarixia radiata*	good locally	Lo et al. 1995
Coleoptera			
CHRYSOMELIDAE			
Brontispa tigissima	*Tetrastichus brontispae*	good to excellent	Lo et al. 1995
Diptera			
AGROMYZIDAE			
Liriomyza spp.	*Dacnusa sibirica*	not yet released	Lu Qingguang 1996
	Diglyphus isaea	not yet released	Lu Qingguang 1996
Lepidoptera			
YPONOMEUTIDAE			
Plutella xylostella	*Diadegma semiclausum*	good locally	Talekar 1992
ACARI			
TETRANYCHIDAE			
Tetranychus urticae	*Amblyseius fallacis*	good locally	Lo et al. 1995
	Phytoseiulus persimilis	good locally	Lo et al. 1995
Tetranychus viennensis	*Typhlodromus occidentalis*	good locally	Zhang Naixin 1987*
PLANTS			
AMARANTHACEAE			
Alternanthera philoxeroides	*Agasicles hygrophila*	good (aquatic) locally	Wang Ren et al. 1988
ASTERACEAE			
Ageratina adenophora	*Procecidochares utilis*	fair to poor	Wang Ren et al. 1988
Ambrosia artemisiifolia	*Zygogramma suturalis*	not yet evaluated	Wan Fanghao et al. 1991*
Ambrosia trifida	*Zygogramma suturalis*	not yet evaluated	Wan Fanghao et al. 1991*
PONTEDERIACEAE			
Eichhornia crassipes	*Neochetina bruchi*	not yet evaluated	Wan Fanghao et al. 1991*
	Neochetina eichhorniae	not yet evaluated	Wan Fanghao et al. 1991*

* Cited in Lu Qingguang 1996.

The region of southern China that has been chosen comprises those Provinces lying predominantly south of the Yangtse River. Although both the agriculture and the forestry plantations are by no means uniform over this vast area, they can be distinguished, in general, from those in the more northerly Provinces. The Provinces involved are:

JS	JIANGSHU	SC	SICHUAN
AH	ANHUI	YN	YUNNAN
ZJ	ZHEJIANG	GX	GUANGXI
JX	JIANGXI	GD	GUANGDONG
HB	HUBEI	HI	HAINAN
HN	HUNAN	FJ	FUJIAN
GZ	GUIZHOU	TW	TAIWAN

The published records drawn on in this survey cover the period up to 1990, and are supplemented by more recent reports. Compilation of the information outlined follows the general pattern established for the southern and western Pacific (Waterhouse 1997a) and Southeast Asia (Waterhouse 1993a). The former (and its informal use in the Pacific in the preceding decade) has led to a very great increase in classical biological control projects in the region, with a number of successes already and more in prospect.

Experts on the pest situation in the various crops (see 3. List of Contributors) were asked to supply information on their distribution and importance on a very simple rating system (Waterhouse 1993a).

+++	very widespread and important
++	widespread and important
+	important locally, or only in some years
P	present, but not an important pest

A blank indicates that there is no information to indicate whether the pest is present on that crop in that Province. Experience has shown that any system more complicated than this requires more precise information than is generally available and, furthermore, would attempt to achieve a degree of accuracy greater than that required for the present purpose. Also, different experts in the same field may not agree on the same rating for some species. In such cases we have generally adopted the highest rating suggested. Our original intention was to list only the major arthropod pests and weeds of the region. However, in their responses information was provided by some correspondents on species that were present, but not considered important (i.e. P). It was then decided to incorporate these records as having some value. One reason was that, when the present information is brought up to date in a few years time, any increases in importance of particular species will be highlighted; another is that even information on lack of importance may be of considerable value outside the region. For example, many native pests of citrus that are regarded as unimportant in China may be major pests in other countries where they have become established without their key natural enemies. Reference to Table 2 listing some unimportant citrus pests might well indicate prospects for effective biological control where these are important in an invaded country.

The exact identity of an insect pest is generally of minor significance for chemical control, since very few insecticides are sufficiently selective for exact identity to influence the outcome. The situation is quite different, however, for classical biological control, where it is highly desirable (a) that it is the pest species that suffers the greatest adverse effect from the introduction of a natural enemy, (b) that even close relatives and, especially, less closely-related, non-target species are not attacked, and (c) if they are attacked that there is no critical change to their population levels.

As knowledge of insect taxonomy is progressively refined, generic names have sometimes had to be changed in order to reflect newly-recognised relationships. Also, at times, it is discovered that a species has inadvertently been named more than once. Where this happens, only the first name is valid. Confusion thus arises when a particular species is referred to under more than one specific or generic name. If an incorrect name is used it follows that information available in the world literature is not retrieved if it is sought under that name; conversely information filed under the discarded name may not be recognised by those elsewhere now using the modern name.

A number of instances have been found in the present survey where, in some Provinces, and particularly in some crops, names still in use are no longer regarded as valid by taxonomists elsewhere. Where we have recognised this, the modern preferred name 'X' has been used and the discarded name 'Y' is listed in Table 18. In this, the reader is referred to the preferred name by 'Y' see 'X' (and 'X' use for 'Y'). If, therefore, a name familiar to you does not appear in the crop tables, its replacement preferred name can probably be determined by reference to Table 18. It should not be assumed, however, that the discarded name is necessarily a synonym of the preferred name, because the discarded name may, for example, be valid but refer to a species occurring somewhere else than on that crop in southern China. For example, *Gryllotalpa africana* is a valid name and this species was listed as attacking crops in China in Tables 2, 7, 9 and 11. However, true *G. africana* does not occur outside Africa. Nevertheless, this name has often been applied to specimens of *G. orientalis* (also a valid name) which occurs widely as a pest in Asia, Southeast Asia, China and Japan (Townsend 1983). *G.*

orientalis was listed attacking crops in Tables 6, 7, 8, 9 and 12. All of the records for both species are now referred to *G. orientalis* and in Table 18 there are these entries:

Gryllotalpa africana, see *Gryllotalpa orientalis*.
Gryllotalpa orientalis, use for *Gryllotalpa africana*.

There is, of course, the possibility that two (or more) different species of *Gryllotalpa* are actually damaging the crops concerned. However, to clarify the situation would require the availability of a range of specimens from each crop for examination by an expert in the taxonomy of the Gryllotalpidae. This type of detailed treatment is, unfortunately, outside the scope of this publication. It is quite possible that there are other examples of this type that have not been brought to our attention among the 991 arthropod pests listed.

As just indicated, it has not been possible to have the identity of the listed pests authenticated by appropriate taxonomists, since this would have involved acquiring specimens and submitting them to experts. Instead, it is only the names that have been checked against recent publications and altered where necessary. Useful lists are Wood (1989), Zhang (1994) and the CABI Arthropod Name Index Database on CD-ROM (1995). Valuable advice has been given by a number of taxonomists associated with the Australian National Insect Collection, CSIRO, Canberra: Hemiptera, Dr M. Carver; Orthoptera, Dr D. Rentz; Thysanoptera, Dr L. A. Mound; Coleoptera, Dr E. C. Zimmerman and T. Weir; Lepidoptera, T. Edwards; Diptera, Dr P. Cranston; and Acari, Dr B. Halliday. Also, for Orthoptera, valuable advice was obtained from Dr Jin Xing-bao of the Shanghai Institute of Entomology and for Isoptera the publication of Gao et al. (1992) was followed.

It is inevitable that further name changes will be necessary in the future; and some already made may have escaped our attention. We have also been faced with the problem that, at times, there is no universal agreement on the validity of some changes in nomenclature. In this publication the usage in Insects of Australia (1991) for classifications at family and higher levels has been adopted where there are differences of opinion, but this is unlikely to result in confusion. Perhaps the most controversial change is the dropping of Homoptera as an order (or even as a suborder) and the use, only, of the term Hemiptera. Although not accepted by all, the Hemiptera is subdivided in modern systematics into 3 suborders *Sternorrhyncha*, *Auchenorrhyncha* and *Heteroptera*, although these suborders are not referred to elsewhere in the present publication. Classical biological control requires consensus only at the level of genus and species and is less concerned with higher levels. Where we are aware that generic names have been changed, the name of the original author of the species has been placed in brackets. However, it is probable that some instances of change have been overlooked.

When the stage is reached at which a number of major exotic insect pests and weeds have been identified from the tables in this publication, the next step is to review, from the literature and any other sources, the prospects for classical biological control. For Pacific and Southeast Asian species, this has taken the form of a series of dossiers which have greatly assisted in the selection of targets (Waterhouse 1993b, 1994, 1997b, Waterhouse and Norris 1987, 1989).

An overriding factor in the selection process is whether or not the target is suitable for classical biological control. Suitability is low when little or no damage can be tolerated or when the pest is native. In addition, there are a number of other factors that should be taken into consideration (Waterhouse and Norris 1987). These include:

1. Importance of the crop(s) affected
   (a) area of the crop
   (b) local and export value
   (c) value as a local staple crop
   (d) size of human population affected
   (e) proportion of human population affected
   (f) social importance of the crop

2. Importance of the pest (this is already indicated by +s)
   (a) estimate of losses - actual
   - potential
   (b) threshold of economic damage
   (c) costs of existing controls
   (d) environmental costs
   (e) social costs
   (f) quarantine considerations, if any

3. Biological control
   (a) additional facilities and staff required
   (b) estimated cost of a program
   (c) estimated chances of success
   (d) conflicts of interest, if any

4. Alternative methods of control (are they effective and economic?)
   (a) chemical control
   (b) cultural control
   (c) resistant varieties
   (d) other methods

It is often difficult to obtain reliable figures for some of these categories, but they are all relevant to decision making.

2. 引言（中译文）

利用天敌防治害虫的最早记载据信是出自中国（嵇含：约公元304年左右：南方草木状）。当时在广州附近有红树蚁(*Oecophylla smaragdina*)用以防治柑桔害虫如柑桔长吻象(*Rhyncocoris humeralis*) (Konishi & Ito 1973; 蒲蛰龙1978).

直至今日，利用自然界的天敌以控制本地害虫仍是中国生物防治的主流。增殖性的散放以增加自然界已有天敌的数量、天敌（田间未能保存者）的大量繁殖和散放曾是主要采用的方法，且获得很大成功。

中国较少重视传统生物防治，[即在安全的情况下引入原产地能控制害虫的天敌以防治外来害虫 (Waterhouse, 1991)]。曾较少采用传统生物治这一事实(见表A)，可能部分是由于一种普遍现象，即中国大多数重要害虫和杂草是本地的。但也不排除这种可能性，即中国有些害虫和杂草是外来的，它们肯定是传统生物防治的好对象。确实，大量成功的传统生防证明，这是值得大力实施的措施。传统生防优于其他生防很大好处之一是一旦成功地建立群落，再毋须其他措施，更不用说可避免滥用化学农药了。

1949年后中国引入了280多种（品系）天敌（寄生蜂，捕食性天敌，病源微生物，昆虫病源线虫），其中不少是中国已有（或本地已有，或是无意地引入的），但仍被引入以充实它们的基因库；有的（如一些赤眼蜂种类）是为了研究工作而引入的，并非为在田间散放。

在世界其他地方，对于生物防治的兴趣日益增长，部分是为了减少对化学杀虫剂的依赖；许多使人印象很深的成功例子，其得益远超过投入。由于防治对象无论是主要的抑次要的，其传统生防所需费用是一样的，所以，为获得最大经济效益，要选择最重要的害虫（草）作为有前途的防治对象。

这就是本书的焦点所在，它为农林业提供下列问题的概况:

1）哪些是主要作物的害虫（节肢动物）及杂草？
2）它们在中国南方的分布如何？
3）在中国南方和14省中各省的重要性如何？
4）哪些最重要的害虫（草）认为是引入的（因此可作为传统生防有希望的对象）？
5）哪些引入的害虫（草）已是其他地方生防的对象？是否成功？

栽培树种方面的情况也属搜集的内容，因为它们日益重要，是大多数地方木材的主要来源。除少数外，树木能忍受不造成严重经济损失的虫害（这是对传统生防十分有利的情况），而且，其他防治方法如化学防治几乎因效益问题而常被弃用。

书内选择的中国南方，主要是指长江以南省份，虽然在此广阔的地域内农林业多少是不一致的，但总的来说它们和中国北方有差异的。这些省有:

JS	— 江苏	AH	— 安徽
ZJ	— 浙江	JX	— 江西
HB	— 湖北	HN	— 湖南
GZ	— 贵州	SC	— 四川
YN	— 云南	GX	— 广西
GD	— 广东	HI	— 海南
FJ	— 福建	TW	— 台湾

书中记录有1990年以前的资料，并补以较新的报导，书内资料的编辑参考南、西太平洋岛屿 (Waterhouse 1997a)和东南亚 (Waterhouse 1993a)两书的格式。前者（及前十年中它的被非正式应用）使那地区传统生防的项目大幅度增加，且已获得成功，将来会有更多的成就。

曾要求研究各作物害虫的有关专家们（见3。参与编写者名单）用极简单的排位方法 (Waterhouse 1993a)提供害虫的分布和重要性:

+++ 分布甚广且十分重要
++ 分布广而重要
+ 局部地方或有些年份重要
P 存在但不重要

空白表示没有资料可说明是否在那省或作物上存在。

经验告诉我们，任何比此更复杂的排位方法须要比较可行的而且比本书所需的更为准确的资料。再者，同领域的不同专家可能对有些种类的计分有不同意见，在这种情况下，我们采用最高计分。我们的原意是列出本地的主要害虫和杂草，但有些专家提供了一些并不重要的种类（即“P”），我们决定收编这些资料，并认为有一定价值，其原因之一：现有资料可用几年，今后将会明显增加种类的重要性，此外，即使资料表明不重要，可能对该地区以外会有价值，例如，中国有许多本地柑桔害虫并不视为重要，可能对其他也有此害虫但无天敌的国家却是重要的。对那些已被入侵的国家来说，这可能会很好地指出了生防有效的前景。

一般来说，害虫的确切特点对化学防治并不重要，为不影响这些特点而可供选择的化学杀虫剂极少，可是对传统生防来说却大为不同，以下特点是极为重要的：a)引入天敌后该害虫会受到很大的负面作用；b)近缘的，特别是不十分近缘的非对象种类不会受影响；及c)即使它们受影响，其种群水平不会有明显的变化。

由于昆虫分类学的知识不断发展，有些属名会有改变以反映新的种属关系。有时也发现，同一种类不止一次地被命名，有此情况时，只可用第一次的命名。于是就产生混乱，即同一个种记有几个种名或属名，若用了不准确的名字，就查不到国际上此名下通用的资料，相反地，被遗弃种名的资料也不会被已使用现代种名的其他地方所收编。

本书中，在有些省、特别是有些作物的不少害虫名字仍被应用但已不再为其他国家的分类学家所采用，我们注意到这点，在表18中，用“X”表示现在采用的种名，而“Y”是被遗弃者，读者查“Y”时就能看到“X”（以及查到“X”时就知是取代“Y”），因此，若您所熟悉的种名在有关作物表中找不到，您可在表18中找到已改用的新种名，然而，这并不意谓已遗弃的种名必是新种名的同物异名，因为已被遗弃的种名可能在中国南方以外的其他地方的作物上发现而仍被沿用。例如，仍被应用的*Gryllotalpa africana*在表2、7、8、9及11见此害虫仍在中国危害一些作物，但真正的*G. africana*并不在非洲以外发生，而此种名常用以鉴定*Gryllotalpa orientalis*（有效名）的标本，后者广泛分布在亚洲、东南亚、中国及日本（Townsend 1983）。*G. orientalis*在表6、7、8、9及12中是被列为害虫的，现在这两个种在表18中都作为*Gryllotalpa orientalis*，即“*Gryllotalpa africana* 见 *Gryllotalpa orientalis*”，“*Gryllotalpa orientalis* 取代*Gryllotalpa africana*”。有可能这两个（或更多个）种确实危害有关作物，可是，为澄清它们，需要将采自每一种作物的一系列标本由Gryllotalpidae的分类专家来鉴定，可惜这已超出本书的范围；在本书中所列的991种害虫中也许还有其他我们尚未注意的类似例子。

我们不可能请分类专家一一鉴定表中的种类，因这须要标本，并将它们送给专家们，我们仅查找了近期出版物中已改用的那些种名并在必要时改正之。这些有用的出版物如Wood(1989)、Zhang Cheng-bin(1994)、英联邦国际农业局CD-ROM资料库中的节肢动物名录；和澳大利亚国立昆虫标本馆（堪培拉）合作的许多分类专家提供了宝贵意见：半翅目，Dr. M. Carver；直翅目，Dr. D. Rentz；缨翅目，Dr. L. A. Mound；鞘翅目，Dr. E. C. Zimmerman 和 T. Weir；鳞翅目，T. Edwards；双翅目，Dr. P. Cranston；膜翅目，Dr. I. Naumann；及螨类，Dr. B. Halliday。同时，在直翅目方面提供宝贵意见的还有上海昆虫研究所的金杏宝，等翅目方面参考了高道蓉等(1992)著的书。

不可避免地，将来还会有名称改变，也许有些已改了，但我们还未知，我们也会面临对种名改变有不同意见的问题，本书用了“澳大利亚的昆虫”（1991）一书中的分科及科以上名称，也许最会引起争议的是将同翅目 Homoptera 不作为一个目（或亚目），而与半翅目合并；尽管并非都能接受，Hemiptera在现代分类学上是分成3个亚目：Sternorrhyncha, Auchenorrhyncha 和 Heteroptera, 它们在本书中未被引用。对此也会有不同意见，但不会导致迷误。传统生防只要求属和种名的一致性，再高一级的分类系统则关系较少。凡属名有变者，订名人就放在括弧内，但也可能遗漏了一些更正。

当本书内许多主要外来害虫及杂草已被确认后，下一步就是从文献或其他资料中评价传统生防的前景，对于太平洋岛屿和东南亚地区种类来说，就是采取这种方式利用了一系列材料，大大帮助了传统生防对象的选择。(Waterhouse 1993c, 1994, 1997b; Waterhouse & Norris 1987, 1989)。

在选择过程中，一个压倒一切的因素是：选择对象是否适宜于传统生防，如果作物耐害性极小甚至不能遭受任何虫害，或者害虫是本地的，则适宜程度就低，还有许多因素应该考虑的，(Waterhouse & Norris 1987)，它们是：

1）为害作物的重要性

a) 作物面积
b) 当地和出口价值
c) 作为本地主要农作物的价值
d) 受影响的人口多少
e) 受影项的人口比例
f) 作物的社会地位

2）害虫的重要性

a) 损失（实际和潜在的）评价
b) 经济危害阈
c) 已用的防治成本
d) 环境的代价
e) 社会的代价
f) 检疫方面的考虑（若有的话）

3）生物防治

a) 额外须要的设备和人员
b) 项目经费估计
c) 成功机会估计
d) 利益冲突（若有的话）

4）其他防治方法

a) 化学防治
b) 农业防治
c) 抗性品种
d) 其他

有时是难以获得上述某些内容的确实情况的，但它们都是与作出决策有关的。

3. THE CONTRIBUTORS

We are, indeed, greatly indebted to those experts listed below for very generously providing published and unpublished information on the distribution and importance of the pests and weeds of crops with which they are most familiar.

The data includes records published in the books listed under "5. Useful Literature" and not only brings this up-to-date, but also, for its first time, provides an evaluation of the relative importance of each of the pests and weeds listed. It is inevitable that the views of different experts on relative importance will not always be identical. Opinion of importance may well change because of changing agricultural or control practices; and pest abundance is expected to change following introduction of natural enemies or resistant crop varieties.

As explained in the Introduction, we have adopted the practice of altering, where necessary, the scientific names supplied by Chinese experts to confirm to the names currently used by the CABI International Institute of Entomology and the British Museum (Natural History), which are used in the great data bases in the Western World. Ready reference to the discarded names is available through Tables 18 (for arthropod pests) and 23 (for weeds).

3. 参与编写者名单

我们的确十分感谢以下专家，为他们非常慷慨地提供了已发表或未发表的有关他们最熟悉的作物节肢动物害虫和杂草分布及重要性的资料。那些包括在"5．有用文献"中已发表过的资料不仅使本书成为最时新的，且第一次提供了对各害虫和杂草相对重要性的评估。不同专家对相对重要性的观点不常相同，这是必然的。关于重要性的意见可能会改变，因为农业或防治措施在改变，害虫数量也会随着天敌或作物抗性品种的引进而变化。

正如"引言"中所解释的，我们已采取了对中国专家提供的学名进行必要的改变的这一措施以与英联邦国际农业局（CABI）国际昆虫研究所及英国自然博物馆现用的学名相一致。后者在西方大资料库中已被采用。对照被遗弃的学名可参考表 18（害虫）及表 23（杂草）。

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4. RESULTS 详细内容

Table 1. Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Abgrallaspis cyanophylli (Signoret)	Hemiptera	Diaspididae	印度橡胶盾蚧	cyanophyllum scale	2
Abraxas flavisinuata Warren	Lepidoptera	Geometridae	马尾松点尺蠖		9
Acalolepta cervina (Hope)	Coleoptera	Cerambycidae	咖啡锦天牛	coffee longhorn	14
Acanthocoris concoloratus (Uhler)	Hemiptera	Coreidae	一色同缘蝽	Azuki bean bug	7
Acanthocoris dilatatus (Horváth)	Hemiptera	Coreidae	广腹同缘蝽	(broad bug)	2, 6
Acanthocoris scaber (Linnaeus)	Hemiptera	Coreidae	瘤缘蝽		12
Acanthocoris sordidus Thunberg	Hemiptera	Coreidae	酸浆黄蝽	eggplant coreid	7, 12
Acanthocoris unipunctatus (Thunberg)	Hemiptera	Coreidae	黑星广腹缘蝽	(black-spotted broad bug)	6, 7
Acanthoecia laminati (Heylarts)	Lepidoptera	Psychidae	蜡彩袋蛾	tung tree bagworm	2, 9
Acaphylla theae (Watt)	Acari	Eriophyidae	茶橙瘿螨	pink tea rust mite	13
Aceria litchii Keifer	Acarina	Eriophyidae	荔枝瘿螨	litchi erinose mite	14
Aceria mangiferae (Sayed)	Acarina	Eriophyidae	芒果瘿螨	mango bud mite	14
Aceria sheldoni Ewing	Acari	Eriophyidae	柑桔瘿螨	citrus bud mite	2
Achaea janata (Linnaeus)	Lepidoptera	Noctuidae	飞扬阿夜蛾	castor oil looper	2
Achaea serva (Fabricius)	Lepidoptera	Noctuidae	人心果阿夜蛾	chiku semi-looper	14
Acherontia lachesis Fabricius	Lepidoptera	Sphingidae	胡麻鬼脸天蛾	tobacco hornworm	14
Acherontia styx (Westwood)	Lepidoptera	Sphingidae	芝麻鬼脸天蛾	small death's head moth	7, 12
Acrida cinerea (Thunberg)	Orthoptera	Acrididae	中华蚱蜢	conical-headed grasshopper, Chinese grasshopper	2, 3, 4, 6, 7, 8, 10, 11
Acrida turrita (Linnaeus)	Orthoptera	Acrididae	小尖头蝗	(conical-headed grasshopper)	2, 12
Acrocercops syngramma Meyrick	Lepidoptera	Gracillariidae	腰果细蛾	cashew leaf miner	14
Acronicta major (Bremer)	Lepidoptera	Noctuidae	桑剑纹夜蛾		2
Actias selene ningpoana C. & R. Felder	Lepidoptera	Saturniidae	绿尾大蚕蛾	(large dagger moth)	9
Actinotia intermedia (Bremer)	Lepidoptera	Noctuidae	德夜蛾	(green-tailed silkworm)	2
Adelphocoris fasciaticollis Reuter	Hemiptera	Miridae	三点盲蝽		6
Adelphocoris lineolatus (Goeze)	Hemiptera	Miridae	苜蓿盲蝽	alfalfa plant bug	3, 6
Adelphocoris suturalis (Jakovlev)	Hemiptera	Miridae	棉金毛盲蝽	(black-striped plant bug)	3
Adisura atkinsoni Moore	Lepidoptera	Noctuidae	曙夜蛾	lablab bean worm	7

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Adoretus formosanus Ohaus	Coleoptera	Scarabaeidae	台湾丽金龟	Formosan rose beetle	2, 11
Adoretus sinicus Burmeister	Coleoptera	Scarabaeidae	茶色丽金龟	Chinese rose beetle	2, 4, 6, 8, 11, 12, 14
Adoretus umbrosus (Fabricius)	Coleoptera	Scarabaeidae	樱桃丽金龟		2
Adoxophyes cyrtosema Meyrick	Lepidoptera	Tortricidae	柑桔褐带卷蛾	citrus brown-banded tortrix	2, 8
Adoxophyes orana (Fischer von Roeslerstamm)	Lepidoptera	Tortricidae	茶小卷叶蛾	summer fruit tortrix, small tea tortrix	2, 3, 13, 14
Adoxophyes orana fasciata Walsingham	Lepidoptera	Tortricidae	桔黄小卷叶蛾	small yellow tortrix	4
Adris tyrannus (Guenée)	Lepidoptera	Noctuidae	暴君夜蛾		2
Adrisa magna Uhler	Hemiptera	Cydnidae	大鳖土蝽		14
Aeolesthes holosericea (Fabricius)	Coleoptera	Cerambycidae	皱胸天牛	(cherry stem borer)	4, 14
Aeolesthes sinensis Gahan	Coleoptera	Cerambycidae	闪光天牛		2
Agestrata orichalcea (Linnaeus)	Coleoptera	Scarabaeidae	绿奇花金龟		2
Agonoscelis nubila (Fabricius)	Hemiptera	Pentatomidae	枇杷黑波蝽		2, 6
Agrilus auriventris Saunders	Coleoptera	Buprestidae	蔷薇茎长吉丁	(rose stem girdler)	2
Agriotes fusicollis Miwa	Coleoptera	Elateridae	细胸叩甲	(slender-thorax click beetle)	6
Agrius convolvuli (Linnaeus)	Lepidoptera	Sphingidae	色带天蛾	convolvulus hawk moth, sweet potato moth	5, 12
Agrotis ipsilon (Hufnagel)	Lepidoptera	Noctuidae	小地老虎	black cutworm, greasy cutworm	2, 3, 5, 6, 7, 8, 12
Agrotis segetum Denis & Schiffermüller	Lepidoptera	Noctuidae	黄地老虎	common cutworm,turnip moth, yellow cutworm	3, 5, 6, 7, 8, 12
Agrotis tokionis (Butler)	Lepidoptera	Noctuidae	大地老虎	lesser cabbage cutworm	3, 5, 6, 7
Ahasverus advena (Waltl)	Coleoptera	Silvanidae	米扁虫	foreign grain beetle	6
Aiolopus thalassinus (Fabricius)	Orthoptera	Acrididae	花胫绿纹蝗		2, 6, 14
Alcidodes frenatus (Faust)	Coleoptera	Curculionidae	芒果长足象	mango weevil	14
Alcidodes trifidus (Pascoe)	Coleoptera	Curculionidae	短胸长足象	(short-thorax weevil)	2
Alcidodes waltoni (Boheman)	Coleoptera	Curculionidae	甘薯大象甲	(large sweet potato weevil)	12
Aleurocanthus citriperdus Quaintance & Baker	Hemiptera	Aleyrodidae	柑桔黑刺粉虱	(black citrus spiny whitefly)	2

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Aleurocanthus spiniferus (Quaintance)	Hemiptera	Aleyrodidae	桔刺粉虱	orange spiny whitefly	2, 4, 13, 14
Aleurocanthus spinosus (Kuwana)	Hemiptera	Aleyrodidae	黄刺粉虱	(yellow spiny whitefly)	2
Aleurocanthus woglumi Ashby	Hemiptera	Aleyrodidae	桔黑刺粉虱	blackfly	14
Aleurolobus citri Takahashi	Hemiptera	Aleyrodidae	桔粉虱	(citrus whitefly)	2
Aleurolobus marlatti (Quaintance)	Hemiptera	Aleyrodidae	桔黑粉虱	(citrus blackfly)	2
Aleurolobus setigerus Quaintance & Baker	Hemiptera	Aleyrodidae	短尾黑粉虱	(short-tailed blackfly)	2
Aleurolobus szechwanensis (Young)	Hemiptera	Aleyrodidae	四川粉虱	Sichuanese whitefly	2
Aleurotuberculatus acubae (Kuwana)	Hemiptera	Aleyrodidae	珊瑚粉虱	(coral whitefly)	2
Alissonotum crassum Arrow	Coleoptera	Scarabaeidae	大蔗龟甲	large sugarcane beetle	11
Alissonotum impressicolle Arrow	Coleoptera	Scarabaeidae	突背蔗龟甲	black sugarcane beetle	11
Alissonotum pauper (Burmeister)	Coleoptera	Scarabaeidae	光背龟甲	white sugarcane beetle	11
Amata germana (C. & R. Felder)	Lepidoptera	Arctiidae	茶鹿蛾	(mulberry moth)	14
Amblypterus panopus (Cramer)	Lepidoptera	Sphingidae	芒果天蛾	(mango sphingid)	14
Amrasca biguttula (Ishida)	Hemiptera	Cicadellidae	棉叶跳虫	cotton leafhopper	2, 3, 6
Amrasca flavescens (Fabricius)	Hemiptera	Cicadellidae	茶小绿叶蝉	green tea leafhopper	2, 4, 7, 13
Amrasca formosana (Paoli)	Hemiptera	Cicadellidae	茶小叶蝉	(small tea leafhopper)	2
Amrasca vitis (Göthe)	Hemiptera	Cicadellidae	假眼小绿叶蝉		13
Amsacta lactinea (Cramer)	Lepidoptera	Arctiidae	红缘灯蛾	red tiger moth	2, 5, 6, 8, 14
Ancistrotermes dimorphus (Tsai & Chen)	Isoptera	Termitidae	小头弯额白蚁		14
Ancylomia japonica (Zeller)	Lepidoptera	Pyralidae	稻筒巢螟	rice webworm	10
Andaspis hawaiiensis (Maskell)	Hemiptera	Diaspididae	夏威夷安盾蚧	(burrowing scale)	2
Andraca bipunctata Walker	Lepidoptera	Bombycidae	茶蚕	bunch caterpillar	13
Anomala albopilosa Hope	Coleoptera	Scarabaeidae	绿铜金龟	(green chafer)	14
Anomala antiqua (Gyllenhal)	Coleoptera	Scarabaeidae	黑丽金龟	(black beetle)	11
Anomala castaneoventris Bates	Coleoptera	Scarabaeidae	蔗叶金龟	sugarcane leaf chafer	11
Anomala corpulenta Motschulsky	Coleoptera	Scarabaeidae	铜绿金龟甲	copper green chafer	2, 4, 5, 6, 7, 8, 12
Anomala corrugata Bates	Coleoptera	Scarabaeidae	皱纹丽金龟	(wrinkly chafer)	11
Anomala cuprea (Hope)	Coleoptera	Scarabaeidae	大绿丽金龟	oriental beetle	2, 4

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Anomala cupripes (Hope)	Coleoptera	Scarabaeidae	红脚绿金龟	(red-footed green beetle)	7, 8, 9, 11, 12, 14
Anomala daimiana Harold	Coleoptera	Scarabaeidae	绿纹金龟	(green-spotted chafer)	2
Anomala dorsalis (Fabricius)	Coleoptera	Scarabaeidae	茄黑条丽金龟		11
Anomala expansa Bates	Coleoptera	Scarabaeidae	翼翅丽金龟	(green sugarcane beetle)	2, 11, 14
Anomala trachypyga (Bates)	Coleoptera	Scarabaeidae	棉丽金龟	(cotton chafer)	2, 11
Anomis flava (Fabricius)	Lepidoptera	Noctuidae	挣小造桥虫	cotton semi-looper	2, 3
Anomis fulvida Guenée	Lepidoptera	Noctuidae	超桥夜蛾	fruit-sucking moth	2
Anomis mesogona Walker	Lepidoptera	Noctuidae	桥夜蛾		2
Anomis sabulifera (Guenée)	Lepidoptera	Noctuidae	印黄檀桥夜蛾	jute semi-looper	2
Anonapestis bengalella (Ragonot)	Lepidoptera	Pyralidae	斑螟蛾	atis moth borer	14
Anoplocnemis curvipes (Fabricius)	Hemiptera	Coreidae	非洲安缘蝽	(giant coreid bug)	2
Anoplocnemis phasiana (Fabricius)	Hemiptera	Coreidae	红背安缘蝽	(legume pod bug)	2, 7, 8
Anoplophora chinensis (Forster)	Coleoptera	Cerambycidae	星天牛	citrus longhorn beetle	2, 4, 9, 14
Anoplophora horsfieldii (Hope)	Coleoptera	Cerambycidae	黄斑黑条天牛		2
Anoplophora imitatrix (White)	Coleoptera	Cerambycidae	拟星天牛		2
Anoplophora malasiaca (Thomson)	Coleoptera	Cerambycidae	星天牛胸斑亚种		2, 14
Anoplophora versteegii (Ritsema)	Coleoptera	Cerambycidae	灰星天牛		2
Anticarsia irrorata (Fabricius)	Lepidoptera	Noctuidae	干煞夜蛾		2
Antitrygodes divisaria (Walker)	Lepidoptera	Geometridae	绿尺蠖	(green geometrid)	14
Aonidiella aurantii (Maskell)	Hemiptera	Diaspididae	红圆蚧	red scale	2, 4
Aonidiella citrina (Coquillet)	Hemiptera	Diaspididae	黄圆蚧	citrus yellow scale	2
Aonidiella orientalis (Newstead)	Hemiptera	Diaspididae	东方圆红蚧	Oriental scale	2
Aphis craccivora Koch	Hemiptera	Aphididae	豆蚜	cowpea aphid	2, 7, 8
Aphis gossypii Glover	Hemiptera	Aphididae	棉蚜	cotton aphid, melon aphid	2, 3, 4, 7, 14
Aphis spiraecola Patch	Hemiptera	Aphididae	绣线菊蚜	spiraea aphid	2
Apion collare Schilsky	Coleoptera	Apionidae	豆细口象	narrow-snout bean weevil	2
Apoderus nigroapicatus Jekel	Coleoptera	Attelabidae	尖尾卷象		2
Apogonia cribricollis Burmeister	Coleoptera	Scarabaeidae	筛阿鳃金龟	chafer beetle, white grub	2, 11

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Apomecyna excavaticeps Pic	Coleoptera	Cerambycidae	瓜天牛		2
Apomecyna saltator (Fabricius)	Coleoptera	Cerambycidae	瓜藤天牛	cucurbit longicorn	7
Apriona germarii (Hope)	Coleoptera	Cerambycidae	日本桑天牛	(brown mulberry borer)	2, 4, 14
Aproaerema modicella Deventer	Lepidoptera	Gelechiidae	花生须梢麦蛾	groundnut leaf miner, groundnut leaf webber	8
Apsylla cistellata (Buckton)	Hemiptera	Psyllidae	芒果瘿木虱	mango shoot psyllid	14
Araecerus fasciculatus (De Geer)	Coleoptera	Anthribidae	咖啡豆象	coffee bean weevil	2, 6, 14
Archips asiaticus (Walsingham)	Lepidoptera	Tortricidae	后黄卷蛾		2
Archips eucroca Diakonoff	Lepidoptera	Tortricidae	柑桔黄卷蛾	(citrus leafroller)	2
Archips tabescens (Meyrick)	Lepidoptera	Tortricidae	白点褐黄卷蛾		2
Archips xylosteanus (Linnaeus)	Lepidoptera	Tortricidae	白蜡树黄卷蛾	variegated golden tortrix	2
Arcte coerula (Guenée)	Lepidoptera	Noctuidae	苎麻夜蛾	ramie moth	2
Aristobia hispida Saunders	Coleoptera	Cerambycidae	瘤胸天牛		2, 9
Aristobia testudo (Voet)	Coleoptera	Cerambycidae	龟背天牛	litchi longhorn beetle	2, 14
Aromia bungii (Faldermann)	Coleoptera	Cerambycidae	桃红颈天牛	(peach longhorn beetle)	2, 4
Arrhines hirtus Faust	Coleoptera	Curculionidae	扁平长翅象		14
Artena dotata (Fabricius)	Lepidoptera	Noctuidae	肖毛翅夜蛾		2, 14
Ascotis selenaria (Denis & Schiffermüller)	Lepidoptera	Geometridae	艾尺蠖	giant looper	2, 3, 8
Asota tortuosa (Moore)	Lepidoptera	Noctuidae	扭拟灯蛾		2
Aspidiotus destructor Signoret	Hemiptera	Diaspididae	椰圆蚧	coconut scale, transparent scale	2, 13, 14
Aspidiotus nerii Bouch	Hemiptera	Diaspididae	常春藤圆蚧	oleander scale, ivy scale	2
Aspidomorpha difformis (Motschulsky)	Coleoptera	Chrysomelidae	陈笠龟甲		
Aspidomorpha furcata (Thunberg)	Coleoptera	Chrysomelidae	甘薯金黄龟甲	sweet potato tortoise beetle	12
Asterococcus muratae (Kuwana)	Hemiptera	Cerococcidae	藤壶链蚧		2
Asura strigipennis (Herrich-Schäffer)	Lepidoptera	Arctiidae	条纹艳苔蛾		2
Athalia rosae japanensis (Rohwer)	Hymenoptera	Tenthredinidae	芜菁叶蜂		5
Athrypsiastis salva Meyrick	Lepidoptera	Xyloryctidae	桑木蛾	(mulberry xyloryctid)	2
Atractomorpha crenulata (Fabricius)	Orthoptera	Pyrgomorphidae	短翅负蝗	(point-headed grasshopper)	6

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Atractomorpha lata (Motschulsky)	Orthoptera	Pyrgomorphidae	长额负蝗	(differentiate grasshopper)	2, 6
Atractomorpha sinensis Bolivá r	Orthoptera	Pyrgomorphidae	中华负蝗	pink-winged grasshopper	2, 5, 6, 7, 8, 12
Attacus atlas (Linnaeus)	Lepidoptera	Saturniidae	大乌桕蚕	atlas moth	2, 9, 14
Atysa cinnamomi Chen	Coleoptera	Chrysomelidae	樟萤叶甲		9
Aulacaspis citri Chen	Hemiptera	Diaspididae	柑桔白轮蚧		2
Aulacaspis crawi (Cockerell)	Hemiptera	Diaspididae	柑桔白轮盾蚧		2
Aulacaspis rosarum (Borchsenius)	Hemiptera	Diaspididae	蔷薇白轮盾蚧	Asiatic rose scale	9
Aulacaspis tubercularis Newstead	Hemiptera	Diaspididae	无露白轮盾蚧	mango scale	2
Aulacaspis yabunikkei Kuwana	Hemiptera	Diaspididae	樟白轮蚧	(cinnamomum scale)	9
Aulacophora femoralis (Motschulsky)	Coleoptera	Chrysomelidae	黄守瓜	(yellow melon leaf beetle)	2, 7, 14
Aulacophora lewisii Baly	Coleoptera	Chrysomelidae	刘氏守瓜	(yellow-foot melon beetle)	7
Aulacophora nigripennis Motschulsky	Coleoptera	Chrysomelidae	黑足黑守瓜	(black melon leaf beetle)	7
Aularches miliaris (Linnaeus)	Orthoptera	Pyrgomorphidae	尖头斑蝗**	spotted grasshopper	9
Autographa nigrisigna (Walker)	Lepidoptera	Noctuidae	黑点银纹夜蛾	(cotton leaf caterpillar)	3
Ayyaria chaetophora Karny	Thysanoptera	Thripidae	豇豆毛蓟马	lima bean thrips	7
Bacchisa atritarsis (Pic)	Coleoptera	Cerambycidae	黑跗眼天牛		13
Bacchisa fortunei (Thomson)	Coleoptera	Cerambycidae	梨眼天牛	blue pear twig borer	4
Bactrocera correcta (Bezzi)	Diptera	Tephritidae	番石榴实蝇	guava fruit fly	14
Bactrocera cucurbitae (Coquillet)	Diptera	Tephritidae	瓜实蝇	melon fly	7, 14
Bactrocera dorsalis (Hendel)	Diptera	Tephritidae	柑桔小实蝇	Oriental fruit fly	2, 14
Bactrocera minax (Enderlein)	Diptera	Tephritidae	柑桔大实蝇	Chinese citrus fly	2
Bactrocera occipitalis (Bezzi)	Diptera	Tephritidae	芒果实蝇	mango fruit fly	2, 14
Bactrocera pedestris (Bezzi)	Diptera	Tephritidae	梨实蝇	(pear fruit fly)	2
Bactrocera scutellata (Hendel)	Diptera	Tephritidae	具条实蝇		2
Bactrocera tsuneonis (Miyake)	Diptera	Tephritidae	蜜柑大实蝇	Japanese orange fly	2
Balionebris bacteriota Meyrick	Lepidoptera	Cosmopterigidae	木麻黄细蛾		9
Baradesa omissa Rothschild	Lepidoptera	Notodontidae	窄带重舟蛾		14
Basiprionota bisignata (Boheman)	Coleoptera	Chrysomelidae	北锯龟甲		2
Bathrips ipomoeae (Zhang)	Thysanoptera	Thripidae	旋花蓟马	ipomoea thrips	12

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Batocera horsfieldi (Hope)	Coleoptera	Cerambycidae	云斑天牛	(white-striped longicorn)	4, 9
Batocera numitor Newman	Coleoptera	Cerambycidae	锈斑白条天牛		14
Batocera rubus (Linnaeus)	Coleoptera	Cerambycidae	榕八星天牛	(8-spotted longicorn)	2, 14
Batrachedra arenosella Walker	Lepidoptera	Coleophoridae	小椰子尖翅蛾	lesser coconut spike moth	14
Bemisia giffardi (Kotinsky)	Hemiptera	Aleyrodidae	橙黄粉虱	Giffard's whitefly	2
Bemisia tabaci (Gennadius)	Hemiptera	Aleyrodidae	甘薯粉虱	cotton whitefly, tobacco whitefly	3, 7, 8
Blattella germanica (Linnaeus)	Orthoptera	Blattellidae	德国小蠊	German cockroach	6
Blepephaeus succinctor (Chevrolat)	Coleoptera	Cerambycidae	深灰斑天牛	(dark-spotted grey longicorn)	2, 14
Bothrogonia ferruginea (Fabricius)	Hemiptera	Cicadellidae	黑尾大叶蝉	(black-tipped leafhopper)	2, 4, 13, 14
Bourletiella sp.	Collembola	Sminthuridae	跳虫	(springtail)	7
Brachmia macroscopa Meyrick	Lepidoptera	Gelechiidae	甘薯麦蛾	sweet potato leaf roller	5, 12
Brachycyttarus subteralbatus (Hampson)	Lepidoptera	Psychidae	按蓑蛾		2, 9
Brachyplatys subaeneus (Westwood)	Hemiptera	Plataspididae	亚铜平龟蝽		7
Bradysia odoriphaga Yang & Zhang	Diptera	Sciaridae	韭菜迟眼蕈蚊		5
Brevicoryne brassicae (Linnaeus)	Hemiptera	Aphididae	甘蓝蚜	cabbage aphid	5
Brevipalpus californicus (Banks)	Acari	Tenuipalpidae	加州短须螨	bunch mite	2
Brevipalpus lewisi McGregor	Acari	Tenuipalpidae	刘氏短须螨	citrus flat mite	2
Brevipalpus obovatus Donnadieu	Acari	Tenuipalpidae	卵形短须螨	privet mite, scarlet tea mite	2, 13, 14
Bruchus pisorum (Linnaeus)	Coleoptera	Bruchidae	豌豆象	pea weevil	7
Bruchus schonhevti Bilbery	Coleoptera	Bruchidae	相思豆象		9
Buzura suppressaria (Guenée)	Lepidoptera	Geometridae	油桐尺蠖	tung oil geometrid	2, 9, 13, 14
Buzura suppressaria benescripta (Prout)	Lepidoptera	Geometridae	海南油桐尺蠖	(Hainan tung oil geometrid)	2
Caedicia thymifolia Fabricius	Orthoptera	Tettigoniidae	杜露螽		6
Calacarus carinatus (Green)	Acari	Eriophyidae	茶叶瘿螨	ribbed tea mite, purple tea mite	13
Caliothrips fasciatus (Pergande)	Thysanoptera	Thripidae	豆带巢针蓟马		2, 4
Callidium villosum Fairmaire	Coleoptera	Cerambycidae	杉棕天牛		9
Callimenellus ferruginens Brunner von Wattenwyl	Orthoptera	Tettigoniidae	橡胶黄褐树螽		14
Calliptamus abbreviatus (Ikonnikov)	Orthoptera	Acrididae	短星翅蝗	short-winged grasshopper	6

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Calliteara thwaitesii (Moore)	Lepidoptera	Lymantriidae	大茸毒蛾		14
Callitettix versicolor (Fabricius)	Hemiptera	Cercopidae	稻赤斑沫蝉		6, 14
Callosobruchus chinensis (Linnaeus)	Coleoptera	Bruchidae	绿豆象	Chinese cowpea bruchid	7
Caloptilia theivora (Walsingham)	Lepidoptera	Gracillariidae	茶细蛾	tea leafroller	13
Calyptra lata (Butler)	Lepidoptera	Noctuidae	平咀壶夜蛾	(larger calyptra)	2
Calyptra minuticornis (Guenée)	Lepidoptera	Noctuidae	壶夜蛾		2
Calyptra thalictri (Borkhausen)	Lepidoptera	Noctuidae	桃褐斑夜蛾	(fruit calyptra)	2
Camplyomma chinensis Shuh	Hemiptera	Miridae	中国刺盲蝽	Chinese mirid	14
Campsiura javanica (Gory & Percheron)	Coleoptera	Scarabaeidae	黑斑臀花金龟		14
Cania bilinea Walker	Lepidoptera	Limacodidae	灰双线刺蛾		2
Cania sinensis Tams	Lepidoptera	Limacodidae	中华刺蛾	(Chinese slug caterpillar)	2
Cappacea taprobanensis (Dallas)	Hemiptera	Pentatomidae	桔蝽	(citrus bug)	2
Carea angulata Walker	Lepidoptera	Noctuidae	白裙赭夜蛾		8
Carpoglyphus lactis (Linnaeus)	Acari	Carpoglyphidae	甜果螨	dried fruit mite	2
Carposina niponensis Walsingham	Lepidoptera	Carposinidae	桃小食心虫	(apple moth)	2
Casmara patrona Meyrick	Lepidoptera	Oecophoridae	油茶织蛾	(Chinese tea oecophorid)	13
Cassida circumdata Herbst	Coleoptera	Chrysomelidae	三带黄绿龟甲	green tortoise beetle	2,12
Catagela adjurella Walker	Lepidoptera	Pyralidae	褐边螟	brown rice stem borer	10
Catantops pinguis (Stål)	Orthoptera	Acrididae	红褐斑腿蝗		6, 14
Cavelerius saccharivorus (Okajima)	Hemiptera	Pentatomidae	甘蔗异背长蝽	(oriental cinch bug)	11
Centrotus terminalis Walker	Hemiptera	Membracidae	三刺角蝉		14
Cephnodes hylas (Linnaeus)	Lepidoptera	Sphingidae	咖啡透翅天蛾	coffee hawk moth	14
Cephrenes oceanica (Mabille)	Lepidoptera	Hesperiidae	椰子弄蝶	coconut butterfly	14
Cerace stipatana Walker	Lepidoptera	Tortricidae	龙眼裳卷蛾		2, 9
Ceracris kiangsu Tsai	Orthoptera	Acrididae	黄脊竹蝗		6
Ceracris nigricornis lata (Bolivár)	Orthoptera	Acrididae	黑脊竹蝗		6
Cerataphis lataniae (Boisduval)	Hemiptera	Aphididae	椰蚜	coconut aphid	14
Ceratovacuna lanigera (Zehntner)	Hemiptera	Aphididae	甘蔗绵蚜	white sugarcane aphid, sugarcane woolly aphid	2, 11

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Ceresium sinicum ornaticolle Pic	Coleoptera	Cerambycidae	中华桑天牛		9
Ceresium sinicum White	Coleoptera	Cerambycidae	中华天牛		2
Ceroplastes centroroseus Chen	Hemiptera	Coccidae	红帽蜡蚧		2
Ceroplastes ceriferus (Fabricius)	Hemiptera	Coccidae	角蜡蚧	Indian white wax scale	2, 13, 14
Ceroplastes floridensis Comstock	Hemiptera	Coccidae	佛州龟蜡蚧	Florida wax scale	2
Ceroplastes japonicus Green	Hemiptera	Coccidae	日本龟蜡蚧	Japanese white wax scale	2, 4, 13
Ceroplastes pseudoceriferus Green	Hemiptera	Coccidae	印度棟蜡蚧	(Indian wax scale)	2, 14
Ceroplastes rubens Maskell	Hemiptera	Coccidae	红蜡蚧	pink wax scale	2, 4, 9, 13, 14
Ceroplastes rusci (Linnaeus)	Hemiptera	Coccidae	榕龟蜡蚧		6
Cetonia brevitarsis (Lewis)	Coleoptera	Scarabaeidae	白星花金龟		6
Cetonia speculifera (Swartz)	Coleoptera	Scarabaeidae	桔星花金龟		2, 6
Chalciope mygdon (Cramer)	Lepidoptera	Noctuidae	斜角三带夜蛾		2
Chalcocelides albiguttatus (Snellen)	Lepidoptera	Limacodidae	中点刺蛾	Indian nettle grub	2, 14
Chalcophora japonica Gory	Coleoptera	Buprestidae	日本吉丁	(metallic beetle)	2
Chalioides kondonis Kondo	Lepidoptera	Psychidae	桔白蓑蛾	(white psychid)	2, 9
Charaxes bernardus (Fabricius)	Lepidoptera	Nymphalidae	茶褐樟蛱蝶		9
Chelidonium argentatum (Dalman)	Coleoptera	Cerambycidae	桔光绿天牛	(greenish-brown longhorn)	2
Chelidonium citri Gressitt	Coleoptera	Cerambycidae	桔绿天牛	(green citrus longhorn)	2
Chelidonium gibbicolle (White)	Coleoptera	Cerambycidae	皱绿桔天牛	(striate-necked green longhorn)	2
Chilo auricilius (Dudgeon)	Lepidoptera	Pyralidae	台湾稻螟	stalk borer, gold-fringed rice borer	6, 10, 11
Chilo infuscatellus (Snellen)	Lepidoptera	Pyralidae	二点螟	yellow top-borer, early shoot borer	6, 11
Chilo sacchariphagus (Bojer)	Lepidoptera	Pyralidae	蔗条螟，高粱条螟	sugarcane stem borer	6, 11
Chilo suppressalis (Walker)	Lepidoptera	Pyralidae	二化螟	asiatic rice borer, striped rice borer	6, 7, 10
Chlamydatus pullus (Reuter)	Hemiptera	Miridae	小黑盲蝽	(small black bug)	3
Chlorophanus auripes Faust	Coleoptera	Curculionidae	小绿象甲	(small green weevil)	9
Chlorophanus grandis Roelofs	Coleoptera	Curculionidae	大青象甲	(large green weevil)	2, 4

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Chlorophanus lineolus Motschulsky	Coleoptera	Curculionidae	隆背象甲		2
Chlorophorus annularis (Fabricius)	Coleoptera	Cerambycidae	竹虎天牛	bamboo longhorn	2
Chlorops oryzae Matsumura	Diptera	Chloropidae	稻黄潜蝇	rice stem maggot	10
Chloropulvinaria aurantii (Cockerell)	Hemiptera	Coccidae	桔绿绵蚧	(green citrus scale)	2
Chloropulvinaria floccifera Westwood	Hemiptera	Coccidae	垫囊绿绵蚧**	cottony camellia scale	2
Chloropulvinaria polygonata Cockerell	Hemiptera	Coccidae	芒果丝绵蚧	cottony citrus scale	2
Chlumetia transversa Walker	Lepidoptera	Noctuidae	芒果横线尾夜蛾	mango shoot borer	14
Chondracris rosea (De Geer)	Orthoptera	Acrididae	大青蝗		2, 8, 9, 14
Chondracris rosea rosea (De Geer)	Orthoptera	Acrididae	棉蝗		6, 12
Chromatomyia horticola (Goureau)	Diptera	Agromyzidae	豆潜叶蝇	pea leaf miner	5, 7
Chrysochroa fulgidissima (Schonherr)	Coleoptera	Buprestidae	桃紫条吉丁	(2-striped green buprestid)	2
Chrysocoris grandis (Thunberg)	Hemiptera	Scutelleridae	丽盾蝽	giant golden stink bug	2, 4, 14
Chrysocoris stollii (Wolff)	Hemiptera	Scutelleridae	紫蓝丽盾蝽		14
Chrysodeixis agnata (Staudinger)	Lepidoptera	Noctuidae	银纹夜蛾	(3-spotted phytometra)	5, 8
Chrysomphalus aonidum (Linnaeus)	Hemiptera	Diaspididae	茶褐圆蚧	circular black scale	2, 4, 14
Chrysomphalus dictylospermi (Morgan)	Hemiptera	Diaspididae	蔷薇轮蚧	Spanish red scale	2
Cicada ochracea Walker	Hemiptera	Cicadidae	赭蝉		2
Cicadella viridis (Linnaeus)	Hemiptera	Cicadellidae	大青叶蝉	(green grasshopper)	2, 4, 6, 8, 12
Cifuna locuples (Walker)	Lepidoptera	Lymantriidae	肾毒蛾	pear tussock moth	5, 6, 7, 8, 14
Citripestis eutraphera (Meyrick)	Lepidoptera	Pyralidae	芒果紫红蠹螟	(mango fruit moth)	14
Clanis bilineata Walker	Lepidoptera	Sphingidae	豆天蛾	bean hawk moth	7
Clavigralla gibbosa Spinola	Hemiptera	Coreidae	二刺棒缘蝽	tur pod bug	7
Clavigralloides acantharis (Fabricius)	Hemiptera	Coreidae	四刺棒缘蝽		7
Cleoporus variabilis (Baly)	Coleoptera	Chrysomelidae	李叶甲		2
Cletus punctiger (Dallas)	Hemiptera	Coreidae	稻棘缘蝽	slender rice bug	6, 7, 8, 10, 12
Cletus trigonus Thunberg	Hemiptera	Coreidae	长肩棘缘蝽		2
Clitea metallica Chen	Coleoptera	Chrysomelidae	恶性桔齿跳甲	(citrus bud beetle)	2, 14
Clovia conifera (Walker)	Hemiptera	Cercopidae	条纹花斑沫蝉		14
Cnaphalocrocis medinalis (Guenée)	Lepidoptera	Pyralidae	稻纵卷叶螟	rice leaf roller, rice leaf folder	10

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Coccus hesperidum Linnaeus	Hemiptera	Coccidae	褐软蜡蚧	soft brown scale	2
Coccus viridis (Green)	Hemiptera	Coccidae	咖啡绿蚧	green coffee scale	2, 14
Cofana spectra (Distant)	Hemiptera	Cicadellidae	稻白叶蝉		6, 7, 8
Coilodera penicillata Hope	Coleoptera	Scarabaeidae	脊瘦花金龟		2
Colaphellus bowringii Baly	Coleoptera	Chrysomelidae	大猿叶虫	(cabbage leaf beetle)	5
Colasposoma dauricum Mannerheim	Coleoptera	Chrysomelidae	甘薯叶甲	(sweet potato beetle)	12
Conocephalus maculatus (Le Guillou)	Orthoptera	Tettigoniidae	斑翅草螽		6
Conogethes punctiferalis (Guenée)	Lepidoptera	Pyralidae	桃蛀螟	maize moth, yellow peach moth	2, 4, 6, 9, 14
Conopomorpha litchiella Bradley	Lepidoptera	Gracillariidae	荔枝尖细蛾		14
Conopomorpha sinensis Bradley	Lepidoptera	Gracillariidae	荔枝蒂蛀蛾		14
Contarinia citri Barnes	Diptera	Cecidomyiidae	柑桔花蕾蛆	citrus blossom midge	2
Coptosoma variegatum Herrich-Schäffer	Hemiptera	Plataspididae	多变圆龟蝽		14
Coptotermes curvignathus Holmgren	Isoptera	Rhinotermitidae	大家白蚁	rubber termite	14
Coptotermes formosanus Shiraki	Isoptera	Rhinotermitidae	家白蚁	Formosan subterranean termite	2, 11, 14
Corgatha dictaria (Walker)	Lepidoptera	Noctuidae	白纹孔夜蛾	(small white-lined noctuid)	2
Coridius chinensis Dallas	Hemiptera	Dinidoridae	九香虫		2, 7
Coridius fuscus (Westwood)	Hemiptera	Dinidoridae	棕兜蝽	(brown bug)	2
Cosmopolites sordidus (Germar)	Coleoptera	Curculionidae	香蕉根象甲	banana weevil borer	14
Cranaphis formosana (Takahashi)	Hemiptera	Aphididiae	马尾松大蚜	(pine aphid)	9
Creatonotos gangis (Linnaeus)	Lepidoptera	Arctiidae	黑条灰灯蛾	tiger moth	2, 14
Creatonotos transiens (Walker)	Lepidoptera	Arctiidae	桑灰灯蛾	(grey mulberry caterpillar)	2, 14
Cricula trifenestrata (Helfer)	Lepidoptera	Saturniidae	芒果天蚕蛾	(hairy mango caterpillar)	14
Cryptolestes pusillus (Schönherr)	Coleoptera	Cucujidae	扁谷盗	flat grain beetle	6
Cryptotympana atrata (Fabricius)	Hemiptera	Cicadidae	黑蚱蝉	(Oriental cicada)	2, 4, 9
Ctenoplusia albostriata (Bremer & Grey)	Lepidoptera	Noctuidae	白条银纹夜蛾	(white-striped phytometra)	2
Culcula panterinaria Bremer & Grey	Lepidoptera	Geometridae	木橑尺蠖		13
Curculio chinensis Chevrolat	Coleoptera	Curculionidae	山茶象	tea seed borer	13
Cydia molesta (Busck)	Lepidoptera	Tortricidae	梨小食心虫	oriental fruit moth	4

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Cylas formicarius (Fabricius)	Coleoptera	Apionidae	甘薯小象甲	sweet potato weevil	12
Dactylispa angulosa (Solsky)	Coleoptera	Chrysomelidae	黄星蓝铁甲		2
Dactylispa excisa (Kraatz)	Coleoptera	Chrysomelidae	束腰扁趾铁甲		2
Dalpada concinna (Westwood)	Hemiptera	Pentatomidae	沟腹岱蝽		14
Dalpada oculata (Fabricius)	Hemiptera	Pentatomidae	岱蝽		2, 14
Dalpada smaragdina (Walker)	Hemiptera	Pentatomidae	绿岱蝽		2
Dappula tertia (Templeton)	Lepidoptera	Psychidae	黛蓑蛾		2
Darna ochracea (Moore)	Lepidoptera	Limacodidae	茶刺蛾		2
Darna trima (Moore)	Lepidoptera	Limacodidae	油棕刺蛾	tung oil nettle caterpillar	14
Dasineura amaramanjarae Glover	Diptera	Cecidomyiidae	芒果花瘿蚊	(mango blossom gall midge)	14
Dasychira mendosa (Hübner)	Lepidoptera	Lymantriidae	沁茸毒蛾		2, 12, 14
Deanolis sublimbalis Snellen	Lepidoptera	Pyralidae	芒果钻心虫	red-banded borer	14
Delia platura (Meigen)	Diptera	Anthomyiidae	葱潜蝇	onion maggot	5, 6
Dendrolimus punctatus (Walker)	Lepidoptera	Lasiocampidae	马尾松毛虫	pine caterpillar	9
Dendrothripoides innoxius (Karny)	Thysanoptera	Thripidae	旋花棘蓟马	sweet potato thrips	12
Deporaus marginatus (Pascoe)	Coleoptera	Curculionidae	芒果切叶象甲	mango leaf-cutting weevil	14
Deudorix epijarbas (Moore)	Lepidoptera	Lycaenidae	荔枝小灰蝶	cornelian	14
Dialeurodes citri (Ashmead)	Hemiptera	Aleyrodidae	桔黄粉虱	citrus whitefly	2
Dialeurodes citricola Young	Hemiptera	Aleyrodidae	柑桔绿粉虱	(green citrus whitefly)	2
Diaphorina citri (Kuwayama)	Hemiptera	Psyllidae	桔木虱	citrus psyllid	2
Dicladispa armigera (Olivier)	Coleoptera	Chrysomelidae	稻铁甲虫	rice hispid	6, 10
Dictyophara patruelis (Stål)	Hemiptera	Dictyopharidae	长头蜡蝉	(long-nosed planthopper)	2
Dictyophara sinica Walker	Hemiptera	Dictyopharidae	中华蜡蝉	(Chinese planthopper)	2, 6
Diocalandra frumenti (Fabricius)	Coleoptera	Curculionidae	椰花四星象甲	palm weevil borer	14
Dioryctria rubella Hampson	Lepidoptera	Pyralidae	微红梢斑螟		9
Diostrombus politus Uhler	Hemiptera	Derbidae	红长翅蜡蝉	red long-winged planthopper	2, 6
Diptiloplatus sacchari Xin & Dong	Acari	Diptilomiopidae	扁歧甘蔗羽爪螨		11
Dolycoris baccarum (Linnaeus)	Hemiptera`	Pentatomidae	甜菜蝽	sugar beet stink bug	2, 6, 7
Donacia provosti Fairmaire	Coleoptera	Chrysomelidae	稻长腿水叶甲	(rice root grub)	10

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Dorysthenes granulosus (Thomson)	Coleoptera	Cerambycidae	蔗根天牛	(sugarcane root longhorn)	11, 14
Dorysthenes hydropicus Pascoe	Coleoptera	Cerambycidae	曲牙土天牛		11
Drepanoderes leucofasciatus Voss	Coleoptera	Curculionidae	云南松镰象		14
Drosicha contrahens Walker	Hemiptera	Margarodidae	桑硕蚧	(mulberry scale)	2
Drosicha corpulenta (Kuwana)	Hemiptera	Margarodidae	柿草履蚧	giant mealybug	2
Dysdercus cingulatus (Fabricius)	Hemiptera	Pyrrhocoridae	棉红蝽	cotton stainer bug	2, 3, 9, 14
Dysmicoccus boninsis (Kuwana)	Hemiptera	Pseudococcidae	蔗灰粉蚧	gray sugarcane mealybug	11
Dysmicoccus brevipes (Cockerell)	Hemiptera	Pseudococcidae	菠萝粉蚧	pineapple mealybug	2, 14
Dysogonia analis (Guenée)	Lepidoptera	Noctuidae	月牙巾夜蛾		2
Dysogonia arctotaenia (Guenée)	Lepidoptera	Noctuidae	玫瑰巾夜蛾		2
Dysogonia fulvotaenia (Guenée)	Lepidoptera	Noctuidae	宽巾夜蛾		2
Dysogonia maturata (Walker)	Lepidoptera	Noctuidae	霉巾夜蛾		2
Dysogonia praetermissa (Warren)	Lepidoptera	Noctuidae	肾巾夜蛾		2
Dysogonia simillima (Guenée)	Lepidoptera	Noctuidae	紫巾夜蛾		2
Earias cupreoviridis (Walker)	Lepidoptera	Noctuidae	鼎点金钢钻	spotted bollworm	3
Earias insulana (Boisduval)	Lepidoptera	Noctuidae	棉斑实蛾	spring bollworm, Egyptian cotton bollworm	3
Earias vittella (Fabricius)	Lepidoptera	Noctuidae	蕾金钢钻	rough bollworm, shoot and fruit borer	3
Echinocnemus bipunctatus Roelofs	Coleoptera	Curculionidae	稻二点象甲		2
Echinocnemus squameus (Billberg)	Coleoptera	Curculionidae	稻鳞象甲	rice plant weevil	10
Ectomyelois pyrivorella (Matsumura)	Lepidoptera	Pyralidae	梨斑螟	(pear pyralid)	4
Ectropis obliqua (Warren)	Lepidoptera	Geometridae	茶尺蠖	(tea geometrid)	13
Elymnias hypermnestra hainana Moore	Lepidoptera	Nymphalidae	椰子眼蝶	Hainan coconut butterfly	14
Empoasca pirisuga (Matsumura)	Hemiptera	Cicadellidae	假眼小绿叶蝉	green leafhopper	8
Empoasca vitis (Göthe)	Hemiptera	Cicadellidae	小绿叶蝉	green leafhopper	6, 12, 14
Endoclita nodus (Chu & Wang)	Lepidoptera	Hepialidae	疖蝙蛾	(noded swiftmoth)	9
Endoclita sinensis (Moore)	Lepidoptera	Hepialidae	中华蝙蛾	Chinese swift moth	9
Entomoscelis orientalis Motschulsky	Coleoptera	Chrysomelidae	东方油菜叶甲	(turnip leaf beetle)	5

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Eoeurysa flavocapitata Muir	Hemiptera	Delphacidae	甘蔗扁飞虱	(flat sugarcane planthopper)	11
Eotetranychus kankitus Ehara	Acari	Tetranychidae	柑桔始叶螨	citrus spider mite	2
Eotetranychus sexmaculatus (Riley)	Acari	Tetranychidae	六点始叶螨	six-spotted mite	2, 14
Epacromius coerulipes (Ivanoff)	Orthoptera	Acrididae	大点尖翅蝗	(stripe-winged grasshopper)	6
Epicauta chinensis Laporte	Coleoptera	Meloidae	中国豆芜菁	Chinese blister beetle	6
Epicauta gorhami Marseul	Coleoptera	Meloidae	豆芜菁	bean or small blister beetle	6, 7, 8
Epicauta hirticornis (Haag-Rutenberg)	Coleoptera	Meloidae	毛角豆芜菁	peanut blister beetle	7, 8
Epicauta tibialis Waterhouse	Coleoptera	Meloidae	毛胫豆芜菁	red headed blister beetle	7
Epilachna vigintioctomaculata Molschulsky	Coleoptera	Coccinellidae	马铃薯瓢虫	potato ladybird	7
Epilachna vigintioctopunctata (Fabricius)	Coleoptera	Coccinellidae	茄二十八星瓢虫	28-spotted ladybird	7, 12
Epimactis talantias Meyrick	Lepidoptera	Oecophoridae	柿黄堆沙蛀蛾		2
Erebus crepuscularis (Linnaeus)	Lepidoptera	Noctuidae	玉钳魔目夜蛾		2
Erebus hieroglyphica (Drury)	Lepidoptera	Noctuidae	眉魔目夜蛾		2
Erebus macrops (Linnaeus)	Lepidoptera	Noctuidae	卷裳魔目夜蛾		2
Eriogyna pyretorum (Westwood)	Lepidoptera	Saturniidae	樟蚕	camphor tree saturniid	9
Erionota thrax (Linnaeus)	Lepidoptera	Hesperiidae	香蕉叶弄蝶	banana skipper	14
Erionota torus Evans	Lepidoptera	Hesperiidae	香蕉弄蝶	(banana skipper)	14
Erosomyia mangiferae Felt	Diptera	Cecidomyiidae	芒果瘿蚊	mango gall midge	14
Erthesina fullo (Thunberg)	Hemiptera	Pentatomidae	麻皮蝽	(yellow stink bug)	2, 4, 7, 9
Erythroneura sudra (Distant)	Hemiptera	Cicadellidae	桃一点斑叶蝉		2
Eterusia aedea (Clerck)	Lepidoptera	Zygaenidae	茶斑蛾	spotted tea moth	13
Etiella zinckenella (Treitschke)	Lepidoptera	Pyralidae	豆荚螟	pea pod borer, lima bean pod borer	7
Eucalymnatus tesselatus (Signoret)	Hemiptera	Coccidae	芒果扁卵盾蚧	tesselated scale	2
Eucosma notanthes Meyrick	Lepidoptera	Tortricidae	杨桃花姬卷叶蛾	(carambola tortrix)	14
Eudocima salaminia Cramer	Lepidoptera	Noctuidae	艳叶夜蛾	fruit piercing moth	2, 14
Eumeta japonica (Heylaerts)	Lepidoptera	Psychidae	日本蓑蛾	Japanese bagworm	14
Eumeta minuscula (Butler)	Lepidoptera	Psychidae	茶蓑蛾	tea bagworm	2, 4, 9, 13
Eumeta pryeri (Leech)	Lepidoptera	Psychidae	台湾大蓑蛾	(Taiwanese bagworm)	14

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Eumeta variegata (Snellen)	Lepidoptera	Psychidae	大袋蛾	coffee bagworm	2, 4, 6, 9, 13, 14
Eupatula macrops (Linnaeus)	Lepidoptera	Noctuidae	卷裳夜蛾		14
Euproctis bipunctapex (Hampson)	Lepidoptera	Lymantriidae	乌桕黄毒蛾	black-dotted tussock moth	2, 14
Euproctis flava (Bremer)	Lepdioptera	Lymantriidae	折带黄毒蛾		2
Euproctis montis (Leech)	Lepidoptera	Lymantriidae	梯带黄毒蛾		2
Euproctis piperita (Oberthür)	Lepidoptera	Lymantriidae	豆盗毒蛾		2
Euproctis pseudoconspersa Strand	Lepidoptera	Lymantriidae	茶黄毒蛾	tea tussock moth	2, 6, 13
Euproctis pulverea (Leech)	Lepidoptera	Lymantriidae	黑点黄毒蛾		2
Euproctis scintillans (Walker)	Lepidoptera	Lymantriidae	腰果褐毒蛾	(hairy tussock caterpillar)	2, 4, 6
Euproctis taiwana (Shiraki)	Lepidoptera	Lymantriidae	台湾盗毒蛾	(yellow-tailed moth)	14
Euproctis varians (Walker)	Lepidoptera	Lymantriidae	幻带黄毒蛾		2
Eupromus ruber (Dalman)	Coleoptera	Cerambycidae	樟红天牛	(red-spotted longicorn)	9
Eurema hecabe (Linnaeus)	Lepidoptera	Pieridae	黄粉蝶	common grass yellow	9
Euricania facialis (Walker)	Hemiptera	Ricaniidae	带纹流广蜡蝉		2
Euricania ocellus (Walker)	Hemiptera	Ricaniidae	眼纹广翅蜡蝉		2
Euryaspis flavescens Distant	Hemiptera	Pentatomidae	黄稻蝽		2, 6
Eurydema cingulatus (Fabricius)	Hemiptera	Pentatomidae	云南菜蝽		14
Eurydema dominulus (Scopoli)	Hemiptera	Pentatomidae	菜蝽	(cabbage bug)	5
Eurypoda antennata Saunders	Coleoptera	Cerambycidae	家扁天牛		2
Eutectona macheralis (Walker)	Lepidoptera	Pyralidae	柚木野螟	teak defoliator	9
Eutetranychus orientalis (Klein)	Acari	Tetranychidae	东方真叶螨	oriental red mite	2, 14
Euthalia aconthea (Cramer)	Lepidoptera	Nymphalidae	腰果蛱蝶	cashew butterfly	14
Euthalia phemius (Doubleday)	Lepidoptera	Nymphalidae	芒果蛱蝶	mango butterfly	14
Exolontha serrulata (Gyllenhal)	Coleoptera	Scarabaeidae	齿缘鳃金龟	(sugarcane grub)	11
Eysarcoris egenus (Jacovlev)	Hemiptera	Pentatomidae	大二星蝽		14
Eysarcoris guttiger (Thunberg)	Hemiptera	Pentatomidae	二星蝽	two spotted sesame bug	2, 6, 8, 14
Eysarcoris montivagus (Distant)	Hemiptera	Pentatomidae	金龟纹二星蝽		6, 14
Eysarcoris ventralis (Westwood)	Hemiptera	Pentatomidae	二小星蝽	(two spotted globular bug)	2, 6, 8

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Ferrisia virgata (Cockerell)	Hemiptera	Pseudococcidae	咖啡粉蚧	striped mealybug	2, 14
Fiorinia fioriniae (Targioni-Tozzetti)	Hemiptera	Diaspididae	尖角盾蚧	fiorinia scale	2
Fiorinia japonica Kuwana	Hemiptera	Diaspididae	松针蚧	(coniferous fiorinia scale)	9
Fiorinia theae Green	Hemiptera	Diaspididae	茶棕盾蚧		2
Frankliniella intonsa (Trybom)	Thysanoptera	Thripidae	花蓟马	flower thrips	2, 3, 5, 7, 8, 10, 11, 12
Frankliniella tenuicornis Uzel	Thysanoptera	Thripidae	禾蓟马		11
Fulmekiola serrata (Kobus)	Thysanoptera	Thripidae	蔗蓟马	sugarcane thrips	11
Garsauria aradoides Walker	Hemiptera	Cydnidae	扁土蝽		14
Gastrimargus marmoratus (Thunberg)	Orthoptera	Acrididae	云斑车蝗		2, 6, 8, 9, 12
Gastropacha quercifolia (Linnaeus)	Lepidoptera	Lasiocampidae	栎枯叶蛾	lappet moth	14
Geisha distinctissima (Walker)	Hemiptera	Flatidae	碧蛾蜡蝉	(green broad-winged planthopper)	2, 4, 6, 13, 14
Geococcus citrinus Kuwana	Hemiptera	Pseudococcidae	桔黄粉蚧	(citrus root scale)	2
Geococcus coffeae Green	Hemiptera	Pseudococcidae	咖啡粉蚧	coffee root mealybug	14
Geotomus pygmaeus (Dallas)	Hemiptera	Cydnidae	侏地土蝽	oceanic burrower bug	14
Gesonula punctifrons (Stål)	Orthoptera	Acrididae	芋蝗	(taro grasshopper)	2, 5, 6
Glaucias crassa Westwood	Hemiptera	Pentatomidae	黄肩蝽		2
Glycyphana fulvistemma Motschulsky	Coleoptera	Scarabaeidae	黑花鳃角金龟	(black flower chafer)	2
Glyphodes caesalis (Walker)	Lepidoptera	Pyralidae	面包果绢野螟		14
Gonista bicolor (Haan)	Orthoptera	Acrididae	二色戛蝗		6
Gonocephalum bilineatum Walker	Coleoptera	Tenebrionidae	二纹拟地甲		8
Gralliclava horrens (Dohrn)	Hemiptera	Coreidae	小棒缘蝽	(small coreid bug)	7, 8
Grammodes geometrica (Fabricius)	Lepidoptera	Noctuidae	中带三角夜蛾		2
Grammodes stolida (Fabricius)	Lepidoptera	Noctuidae	曲线三角夜蛾		2
Graphium sarpedon (Linnaeus)	Lepidoptera	Papilionidae	樟青凤蝶	blue triangle	9
Graphosoma rubrolineata (Westwood)	Hemiptera	Pentatomidae	赤条蝽	(red-striped stink bug)	5
Gravitarmata margarotana (Heinemann)	Lepidoptera	Tortricidae	油松球果小卷蛾		9
Gryllotalpa formosana Shiraki	Orthoptera	Gryllotalpidae	台湾蝼蛄	Formosan mole cricket	7, 11

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Gryllotalpa orientalis Burmeister	Orthoptera	Gryllotalpidae	东方蝼蛄	Oriental mole cricket	6, 7, 8, 9, 12
Gryllotalpa unispina Saussure	Orthoptera	Gryllotalpidae	中华蝼蛄	Chinese mole cricket	6
Gryllus bimaculatus De Geer	Orthoptera	Gryllidae	二点蟋蟀	2-spotted cricket	2, 4, 11
Gryllus chinensis Weber	Orthoptera	Gryllidae	中华蟋蟀	Chinese cricket	11
Halticus minutus Reuter	Hemiptera	Miridae	微小黑盲蝽	(garden fleahopper)	8
Halticus tibialis Reuter	Hemiptera	Miridae	花生黑盲蝽	garden fleahopper	8, 12
Halyomorpha picus (Fabricius)	Hemiptera	Pentatomidae	茶翅蝽		2, 4
Haplosomoides costata (Baly)	Coleoptera	Chrysomelidae	黑翅哈萤叶甲		2
Haplothrips aculeatus (Fabricius)	Thysanoptera	Phlaeothripidae	稻管蓟马	grass thrips, rice haplothrips	6, 10, 11
Haplothrips chinensis Priesner	Thysanoptera	Phlaeothripidae	中华皮蓟马	(Chinese thrips)	2, 8, 11
Haplothrips subtilissimus (Haliday)	Thysanoptera	Phlaeothripidae	柑桔蓟马	(citrus flower thrips)	2
Haplotropis brunneriana Saussure	Orthoptera	Acrididae	苯蝗	(soybean grasshopper)	6
Helicoverpa armigera (Hübner)	Lepidoptera	Noctuidae	棉铃虫	cotton bollworm, corn earworm, tomato grub	3, 4, 6, 7
Helicoverpa assulta (Guenée)	Lepidoptera	Noctuidae	烟夜蛾	cape gooseberry budworm	2, 5, 6, 7
Heliothrips haemorrhoidalis (Bouché)	Thysanoptera	Thripidae	温室蓟马	greenhouse thrips	2, 4
Hellula undalis Fabricius	Lepidoptera	Pyralidae	菜心野螟	oriental cabbage grub, cabbage webworm	5
Helopeltis fasciaticollis Poppius	Hemiptera	Miridae	可可盲蝽	(cocoa mirid)	14
Helopeltis theivora Waterhouse	Hemiptera	Miridae	茶角盲蝽	tea mosquito	14
Hemiberlesia lataniae (Signoret)	Hemiptera	Diaspididae	黑荆树炎盾蚧	latania scale	2
Hemiberlesia palmae (Morgan & Cockerell)	Hemiptera	Diaspididae	棕圆炎盾蚧		2
Hemiberlesia pityophila Takagi	Hemiptera	Diaspididae	松突圆蚧	pine hemiberlisia scale	9
Hemiberlesia rapax (Comstock)	Hemiptera	Diaspididae	桔炎盾蚧	greedy scale, tropical camellia scale	2
Herpetogramma licarsisalis (Walker)	Lepidoptera	Pyralidae	稻切叶野螟	sod webworm, grass caterpillar	10
Hesperophanes campestris (Faldermann)	Coleoptera	Cerambycidae	家茸天牛		2
Hieroglyphus annulicornis (Shiraki)	Orthoptera	Acrididae	斑角蔗蝗		6, 11
Hieroglyphus tonkinensis Bolivár	Orthoptera	Acrididae	异歧蔗蝗		6, 11

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Hishimonus sellatus (Uhler)	Hemiptera	Cicadellidae	多纹叶蝉	(rhombic-marked leafhopper)	2
Hoenimnema yunnanensis Lajonquière	Lepidoptera	Lasiocampidae	云南松毛虫		14
Holochlora japonica Brunner von Wattenwyl	Orthoptera	Tettigoniidae	日本螽斯	(Japanese katydid)	4
Holotrichia castaneoventris Bates	Coleoptera	Scarabaeidae	蔗叶金龟甲	(sugarcane beetle)	11
Holotrichia formosana Moser	Coleoptera	Scarabaeidae	台湾鳃角金龟	Taiwanese chafer	11
Holotrichia lata Brenske	Coleoptera	Scarabaeidae	刺槐鳃角金龟		11
Holotrichia morosa Waterhouse	Coleoptera	Scarabaeidae	暗黑鳃角金龟	(black chafer)	5, 7
Holotrichia oblita (Faldermann)	Coleoptera	Scarabaeidae	华北大黑鳃金龟		6
Holotrichia ovata Chang	Coleoptera	Scarabaeidae	卵圆鳃金龟	(ovate chafer)	11
Holotrichia parallela (Motschulsky)	Coleoptera	Scarabaeidae	暗黑鳃金龟	(dark chafer)	2
Holotrichia plumbea Hope	Coleoptera	Scarabaeidae	钻龙齿爪鳃金龟		2
Holotrichia sauteri Moser	Coleoptera	Scarabaeidae	南方鳃金龟	(southern black chafer)	2, 7, 8, 11, 12
Holotrichia sinensis Hope	Coleoptera	Scarabaeidae	中华鳃角金龟	Chinese chafer	2, 11, 14
Holotrichia spp.	Coleoptera	Scarabaeidae	鳃角金龟	chafers	4
Homoeocerus striicornis Scott	Hemiptera	Coreidae	纹须同缘蝽	(large rice bug)	2
Homoeocerus walkerianus Lethierry & Severin	Hemiptera	Coreidae	瓦同缘蝽		9
Homona coffearia (Nietner)	Lepidoptera	Tortricidae	褐带长卷叶蛾	tea tortrix, coffee tortrix	2, 13, 14
Homona magnanima Diakonoff	Lepidoptera	Tortricidae	茶长卷叶蛾		2
Hoplasoma unicolor (Illiger)	Coleoptera	Chrysomelidae	单色萤叶甲		14
Hulodes caranea Cramer	Lepidoptera	Noctuidae	木叶蛾		2
Hyblaea purea (Cramer)	Lepidoptera	Hyblaeidae	黄带全须夜蛾	teak moth	9
Hydrellia sasaki Yuasa & Isitani	Diptera	Ephydridae	稻黑水蝇	paddy stem maggot	10
Hygia opaca (Uhler)	Hemiptera	Coreidae	黄端蝽	(yellow-tipped bug)	2
Hypomeces squamosus (Fabricius)	Coleoptera	Curculionidae	绿鳞象甲	green weevil	2, 3, 4, 6, 7, 9, 12, 13, 14
Hypopyra vespertilio (Fabricius)	Lepidoptera	Noctuidae	变色夜蛾		2
Hypsipyla robusta (Moore)	Lepidoptera	Pyralidae	柚木梢螟	mahogany shoot borer	9
Icerya aegyptiaca (Douglas)	Hemiptera	Margarodidae	埃及吹绵蚧	breadfruit mealybug, Egyptian mealybug	2, 14

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Icerya purchasi Maskell	Hemiptera	Margarodidae	吹绵蚧	cottony cushion scale	2, 4, 9
Icerya seychellarum (Westwood)	Hemiptera	Margarodidae	银毛绵蚧	Seychelles mealybug	2, 4
Idioscopus atkinsoni Lethierry	Hemiptera	Cicadellidae	额氏叶蝉		14
Idioscopus clypealis (Lethierry)	Hemiptera	Cicadellidae	印巴芒果叶蝉	mango leafhopper	14
Idioscopus incertus (Baker)	Hemiptera	Cicadellidae	芒果扁缘叶蝉		2, 14
Idioscopus niveosparsus (Lethierry)	Hemiptera	Cicadellidae	褐叶蝉	mango leafhopper	14
Indarbela dea (Swinhoe)	Lepidoptera	Metarbelidae	荔枝拟木蠹蛾	litchi bark caterpillar	2, 9, 14
Ips acuminatus (Gyllenhal)	Coleoptera	Scolytidae	松六齿小蠹		14
Iscadia inexacta (Walker)	Lepidoptera	Noctuidae	癞皮夜蛾		2
Ischyia manila Cramer	Lepidoptera	Noctuidae	蓝条夜蛾		2
Janus piri Okamoto & Muramatsu	Hymenoptera	Cephidae	梨茎蜂	pear twig girdler	4
Kerria greeni (Chamberlin)	Hemiptera	Keriidae	格氏胶蚧	(Green's lac insect)	14
Kerria lacca (Kerr)	Hemiptera	Keriidae	紫胶虫	(lac insect)	14
Kolla albomarginata (Signoret)	Homoptera	Cicadellidae	白边大叶蝉	(white-margined leafhopper)	2, 8
Kophene snelleni (Heylaerts)	Lepidoptera	Psychidae	爪哇茶蓑	basketworm	2
Laccoptera quadrimaculata (Thunberg)	Coleoptera	Chrysomelidae	四斑金叶甲	Ipomoea tortoise beetle	12
Lacera alope (Cramer)	Lepidoptera	Noctuidae	狐戟夜蛾		2
Lachnosterna horishana Nijima & Kinoshita	Coleoptera	Scarabaeidae	蔗鳃角金龟	sugarcane chafer	11
Laodelphax striatella (Fallén)	Hemiptera	Delphacidae	灰稻虱	small brown planthopper	6, 10
Laternaria candelaria (Linnaeus)	Hemiptera	Fulgoridae	龙眼蜡蝉	longan planthopper	2, 14
Lawana imitata (Melichar)	Hemiptera	Flatidae	白蛾蜡蝉	mango flatid	2, 14
Lebeda nobilis Walker	Lepidoptera	Lasiocampidae	油茶枯叶蛾		9
Lefroyothrips lefroyi (Bagnall)	Thysanoptera	Thripidae	褐带蓟马	(brown-banded thrips)	2
Leguminivora glycinivorella (Matsumura)	Lepidoptera	Tortricidae	大豆食心虫	soy bean pod borer	7
Lelia decempunctata Motschulsky	Hemiptera	Pentatomidae	十点弯角蝉	10-spotted stinkbug	2
Lelia octopunctata Dallas	Hemiptera	Pentatomidae	八点蝉	8-spotted stinkbug	2
Lema fortunei Baly	Coleoptera	Chrysomelidae	红胸负泥虫		2
Lepidiota stigma (Fabricius)	Coleoptera	Scarabaeidae	两点鳞鳃金龟	sugarcane white grub	11, 14
Lepidopsyche unicolor (Hufnagel)	Lepidoptera	Psychidae	单色蓑蛾		2

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Lepidosaphes beckii (Newman)	Hemiptera	Diaspididae	桔紫蚧蚧	purple scale	2
Lepidosaphes gloverii (Packard)	Hemiptera	Diaspididae	桔长盾蚧	Glover's scale	2, 4
Lepidosaphes pallida (Maskell)	Hemiptera	Diaspididae	灰孔蚧盾蚧	(pale oystershell scale)	2
Lepidosaphes tubulorum Ferris	Hemiptera	Diaspididae	东方蚧盾蚧	(oriental oystershell scale)	2
Lepidosaphes ulmi (Linnaeus)	Hemiptera	Diaspididae	榆蚧蚧	mussel scale	2
Leptocentrus albolineatus Funkhouser	Hemiptera	Membracidae	白纹弧角蝉		14
Leptocorisa acuta (Thunberg)	Hemiptera	Alydidae	大稻缘蝽	paddy bug	2, 6, 7, 8, 12, 14
Leptocorisa lepida Breddin	Hemiptera	Alydidae	小稻缘蝽		14
Leptocorisa varicornis (Fabricius)	Hemiptera	Alydidae	异稻缘蝽		2, 6, 14
Leptoglossus gonagra (Fabricius)	Hemiptera	Coreidae	喙缘蝽	passion vine bug, leaf-footed bug	14
Leucinodes orbonalis Guenée	Lepidoptera	Pyralidae	茄白翅野螟	egg plant borer	7
Linda atricornis Pic	Coleoptera	Cerambycidae	黑角筒天牛		4
Linda fraterna (Chevrolat)	Coleoptera	Cerambycidae	顶斑筒天牛	(pear twig cerambycid)	4
Liorhyssus hyalinus (Fabricius)	Hemiptera	Rhopalidae	粟缘蝽	hyaline grass bug	2, 6, 8
Lipaphis pseudobrassicae (Kaltenbach)	Hemiptera	Aphididae	萝卜蚜	turnip aphid	2, 5, 8
Liriomyza brassicae (Riley)	Diptera	Agromyzidae	菜斑潜蚜	cabbage leafminer	5
Liriomyza bryoniae (Kaltenbach)	Diptera	Agromyzidae	番茄斑潜蝇	tomato leafminer	5
Liriomyza chinensis (Kato)	Diptera	Agromyzidae	中华潜蝇	(onion leafminer)	5
Liriomyza sativae Blanchard	Diptera	Agromyzidae	美洲斑潜蝇	(vegetable leafminer)	5, 7
Locusta migratoria manilensis (Meyen)	Orthoptera	Acrididae	东亚飞蝗	oriental migratory locust	2, 6, 8, 11, 12
Lophocateres pusillus Klug.	Coleoptera	Trogossitidae	暹罗谷盗	Siamese grain beetle	6
Lopholeucaspis japonica (Cockerell)	Hemiptera	Diaspididae	梨长白蚧		2, 13
Lycorma delicatula (White)	Hemiptera	Fulgoridae	斑衣蜡蚧		9
Lygocoris lucorum (Meyer-Dur)	Hemiptera	Miridae	绿盲蝽	(green leaf bug)	2, 3, 6
Lygus pratensis (Linnaeus)	Hemiptera	Miridae	牧草盲蝽		6
Lymantria dissoluta Swinhoe	Lepidoptera	Lymantriidae	条毒蛾		9
Lymantria marginata Walker	Lepidoptera	Lymantriidae	芒果毒蛾	mango gypsy moth	14

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Lymantria xylina Swinhoe	Lepidoptera	Lymantriidae	木毒蛾	acacia gypsy moth	9
Macrosteles quadrilineatus (Forbes)	Hemiptera	Cicadellidae	二点叶蝉		6
Macrotermes annandalei (Silvestri)	Isoptera	Termitidae	土垅大白蚁	(large ground termite)	14
Macrotermes barneyi Light	Isoptera	Termitidae	黄翅大白蚁	(yellow wing termite)	9, 11, 14
Mahasena colona Sonan	Lepidoptera	Psychidae	茶蓑蛾		2, 14
Maladera formosae (Brenske)	Coleoptera	Scarabaeidae	台湾绒鳃角金龟	Taiwanese velvet chafer	11
Maladera orientalis (Motschulsky)	Coleoptera	Scarabaeidae	小天蛾绒鳃角金龟	smaller velvet chafer	6
Mamestra brassicae (Linnaeus)	Lepidoptera	Noctuidae	甘蓝叶蛾	cabbage armyworm	2, 3, 5, 6
Marasmia exigua (Butler)	Lepidoptera	Pyralidae	稻显纹纵卷叶蛾	rice leaf roller	10
Maruca vitrata Fabricius	Lepidoptera	Pyralidae	豆荚野螟	legume pod borer, mung moth, bean pod moth	7
Massicus raddei (Blessig)	Coleoptera	Cerambycidae	栗山天牛		2
Matsucoccus massonianae Young & Hu	Hemiptera	Margarodidae	美国白松蚧	white pine scale	9
Mecopoda elongata (Linnaeus)	Orthoptera	Tettigoniidae	纺织娘	long-horned cane grasshopper	6
Medythia nigrobilineata (Motschulsky)	Coleoptera	Chrysomelidae	黑条罗萤叶甲		2, 6
Megacopta cribraria (Fabricius)	Hemiptera	Plataspididae	点筛豆龟甲	globular stink bug	2, 4, 7, 8, 12
Megacopta fimbriata (Distant)	Hemiptera	Plataspididae	镶边豆龟蝽		14
Megacopta horvathi (Montandon)	Hemiptera	Plataspididae	豆龟蝽	bean stink bug	7
Megacopta orbicula (Walker)	Hemiptera	Plataspididae	沟豆龟蝽		14
Megalurothrips distalis (Karny)	Thysanoptera	Thripidae	花生蓟马	peanut thrips	7, 8
Megalurothrips usitatus (Bagnall)	Thysanoptera	Thripidae	豆花蓟马	bean blossom thrips	7, 8
Megarrhamphus truncatus (Westwood)	Hemiptera	Pentatomidae	平尾梭蝽		6
Megopis marginalis (Fabricius)	Coleoptera	Cerambycidae	毛角薄翅天牛		14
Megymenum brevicorne (Fabricius)	Hemiptera	Pentatomidae	黄瓜蝽	cucurbit stink bug	7
Megymenum gracilicorne Dallas	Hemiptera	Dinidoridae	细角瓜蝽	(serrate stink bug)	8
Megymenum inerme (Herrich-Schaeffer)	Hemiptera	Pentatomidae	瓜蝽	melon stink bug	7
Meimuna opalifera (Walker)	Hemiptera	Cicadidae	寒蝉	(elongate cicada)	2
Melanagromyza sojae (Zehntner)	Diptera	Agromyzidae	豆杆黑潜蝇	soybean stem miner	7
Melanaphis sacchari (Zehntner)	Hemiptera	Aphididae	高粱蚜	yellow sugarcane aphid	6, 11

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Melanitis leda (Linnaeus)	Lepidoptera	Nymphalidae	稻褐眼蝶	evening brown butterfly, rice leaf cottonfly, horned caterpillar	2, 10, 14
Melanographia flexilineata (Hampson)	Lepidoptera	Noctuidae	枇杷瘤蛾		2
Melanotus caudex Lewis	Coleoptera	Elateridae	甘薯金针虫	sweet potato wireworm	11
Melanotus tamsuyensis Bates	Coleoptera	Elateridae	石垣岛叩甲	sugarcane wireworm	11
Menida bengalensis (Westwood)	Hemiptera	Pentatomidae	稻赤曼蝽		2, 6
Menida violacea Motschulsky	Hemiptera	Pentatomidae	紫赤曼蝽	(violet stink bug)	6
Mesonura rufonota (Rohwer)	Hymenoptera	Tenthredinidae	樟叶蜂	camphor sawfly	9
Mesophalera plagiviridis (Moore)	Lepidoptera	Notodontidae	绿间掌舟蛾		14
Metonymia glandulosa (Wolff)	Hemiptera	Pentatomidae	大臭蝽		2
Metopta rectifasciata (Ménétries)	Lepidoptera	Noctuidae	蚪目夜蛾	(large white-striped comma)	2
Micraspis discolor (Fabricius)	Coleoptera	Coccinellidae	稻红瓢虫		6
Microceropsylla nigra (Crawford)	Hemiptera	Carsidaridae	芒果小丽木虱		14
Microtrichia cephalotes (Burmeister)	Coleoptera	Scarabaeidae	蔗头鳃金龟	(sugarcane chafer)	11
Mictis tenebrosa (Fabricius)	Hemiptera	Coreidae	曲胫侎缘蝽		8, 14
Mimastra cyanura (Hope)	Coleoptera	Chrysomelidae	桑蓝叶甲		2
Mimela testaceoviridis Blanchard	Coleoptera	Scarabaeidae	黄闪丽金龟	(yellow sugarcane beetle)	11
Miresa fulgida Wileman	Lepidoptera	Limacodidae	闪银纹刺蛾		14
Mocis dalosa Butler	Lepidoptera	Noctuidae	奸毛胫夜蛾		2
Mocis frugalis (Fabricius)	Lepidoptera	Noctuidae	毛跗夜蛾		2
Mocis undata (Fabricius)	Lepidoptera	Noctuidae	鱼藤毛胫夜蛾	(irregular-marked noctuid)	2
Mogannia hebes (Walker)	Hemiptera	Cicadellidae	草蝉	(grass leafhopper)	2, 11
Monema flavescens (Walker)	Lepidoptera	Limacodidae	黄刺蛾	oriental moth	2, 4, 9
Monochamus alternatus Hope	Coleoptera	Cerambycidae	松天牛	pine sawyer	9
Monolepta hieroglyphica (Motschulsky)	Coleoptera	Chrysomelidae	四星叶甲	(4 spot leaf beetle)	6
Monolepta signata (Olivier)	Coleoptera	Chrysomelidae	四点黑翅叶甲	(4 yellow-spot leafbeetle)	14
Mycalesis gotama Moore	Lepidoptera	Nymphalidae	稻黄褐眼蝶	(yellow rice nymphalid)	10
Mylabris cichorii (Linnaeus)	Coleoptera	Meloidae	眼斑芫菁	lesser blister beetle	7, 8
Mylabris phalerata (Pallas)	Coleoptera	Meloidae	大斑芫菁	yellow-banded blister beetle	7, 8

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Myllocerinus aurolineatus Voss	Coleoptera	Curculionidae	茶丽纹象		13
Mythimna loreyi (Duponchel)	Lepidoptera	Noctuidae	劳氏粘虫	rice armyworm	6, 10, 14
Mythimna separata (Walker)	Lepidoptera	Noctuidae	粘虫	paddy armyworm	5, 6, 10
Mythimna venalba (Moore)	Lepidoptera	Noctuidae	白脉粘虫	white vein armyworm	6, 10
Myzus persicae (Sulzer)	Hemiptera	Aphididae	桃蚜	green peach aphid, (spinach aphid)	2, 4, 5, 7, 12
Nadezhdiella cantori (Hope)	Coleoptera	Cerambycidae	桔褐天牛	(brown citrus longhorn)	2
Nagodopsis shirakiana Matsumura	Lepidoptera	Limacodidae	柑桔白刺蛾	(white citrus nettle moth)	2
Naranga aenescens (Moore)	Lepidoptera	Noctuidae	稻螟蛉	green rice semilooper	6, 10
Narosa nitobei Shiraki	Lepidoptera	Limacodidae	茶白刺蛾		2
Neodiprion japonica Marlatt	Hymenoptera	Diprionidae	日本松叶蜂	(green pine sawfly)	9
Neodiprion zhejiangensis Zhou & Xiao	Hymenoptera	Diprionidae	浙江松叶蜂	Zhejiang pine sawfly	9
Neotermes sinensis (Light)	Isoptera	Kalotermitidae	中华新木白蚁	(Chinese termite)	14
Nephotettix cincticeps (Uhler)	Hemiptera	Cicadellidae	稻叶蝉	green rice leafhopper	6, 10, 14
Nephotettix nigromaculatus (Motschulsky)	Hemiptera	Cicadellidae	二条黑尾叶蝉	(two-striped rice leafhopper)	10
Nephotettix virescens (Distant)	Hemiptera	Cicadellidae	黑尾叶蝉	green leafhopper	2
Nezara antennata Scott	Hemiptera	Pentatomidae	稻绿蝽	green stink bug	2
Nezara viridula (Linnaeus)	Hemiptera	Pentatomidae	菜绿蝽	green vegetable bug	4, 6, 7, 8, 10, 14
Nilaparvata lugens (Stål)	Hemiptera	Delphacidae	褐稻虱	brown planthopper	10
Nipaecoccus filamentosus (Cockerell)	Hemiptera	Pseudococcidae	丝鳞粉蚧		2
Nipaecoccus viridis (Newstead)	Hemiptera	Pseudococcidae	木槿粉蚧		2, 4, 14
Niphe elongata (Dallas)	Hemiptera	Pentatomidae	稻褐蝽	brown rice stink bug	6, 10
Niphona hookeri Gahan	Coleoptera	Cerambycidae	吉丁竹天牛		2
Nirvana pallida (Melichar)	Hemiptera	Cicadellidae	长头叶蝉	(long-headed leafhopper)	2
Nirvana suturalis (Melichar)	Hemiptera	Cicadellidae	长头条叶蝉	(striped leafhopper)	2
Nisia atrovenosa (Lethierry)	Hemiptera	Meenoplidae	粉白稻虱	(striated planthopper)	2, 6
Nola taeniata Snellen	Lepidoptera	Noctuidae	稻穗瘤蛾	rice webworm	10
Notobitus meleagris (Fabricius)	Hemiptera	Coreidae	黑竹缘蝽		2

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Nyctemera adversata (Schaller)	Lepidoptera	Arctiidae	粉蝶灯蛾		2
Oberea formosana Pic	Coleoptera	Cerambycidae	台湾筒天牛	(Taiwanese stem borer)	2
Oberea fusiventris Fairmaire	Coleoptera	Cerambycidae	暗腹棒筒天牛		9
Obiphora intermedia (Uhler)	Hemiptera	Aphrophoridae	白带尖胸天牛	(willow spittle bug)	2
Ochyrotica concursa (Walsingham)	Lepidoptera	Pterophoridae	甘薯羽蛾	(sweet potato brown plume moth)	12
Octaspidiotus stauntoniae (Takahashi)	Hemiptera	Diaspididae	木瓜刺圆盾蚧		2
Odioporus longicollis (Olivier)	Coleoptera	Curculionidae	香蕉扁黑象甲	banana stem borer	14
Odontolabis cuvera Hope	Coleoptera	Lucanidae	库光胫锹甲		2
Odontolabis siva (Hope & Westwood)	Coleoptera	Lucanidae	西光胫锹甲		2
Odontotermes formosanus (Shiraki)	Isoptera	Termitidae	黑翅土白蚁	Formosan subterranean termite	2, 4, 9, 11, 14
Odontotermes hainanensis (Light)	Isoptera	Termitidae	海南土白蚁	Hainan subterranean termite	11, 14
Oedaleus infernalis Saussure	Orthoptera	Acrididae	小车蝗	(false marmorate grasshopper)	2, 6
Oides decempunctata (Billberg)	Coleoptera	Chrysomelidae	葡萄十星叶甲		2, 7, 8
Oliarus apicalis (Uhler)	Hemiptera	Cixiidae	黑头麦蜡蝉	(rhombic planthopper)	2, 6
Oligonychus coffeae (Nietner)	Acari	Tetranychidae	咖啡小爪螨	red spider mite	2, 14
Oligonychus exsiccator (Zehntner)	Acari	Tetranychidae	致干小爪螨	red tea mite	11
Oligonychus mangiferus (Rahman & Sapra)	Acari	Tetranychidae	芒果小爪螨	mango spider mite	14
Oligonychus shinkajii Ehara	Acari	Tetranychidae	直樨小爪螨		11
Omiodes indicata (Fabricius)	Lepidoptera	Pyralidae	豆蚀叶野螟	soybean webworm	7
Omphisa anastomosalis (Guenée)	Lepidoptera	Pyralidae	甘薯蠹螟	sweet potato vine borer	12
Oncotympana maculaticollis (Motschulsky)	Hemiptera	Cicadidae	蛉蛄	(robust cicada)	2
Ophisma gravata (Guenée)	Lepidoptera	Noctuidae	巾夜蛾		2
Ophiusa coronata (Fabricius)	Lepidoptera	Noctuidae	桔安纽夜蛾	fruit piercing moth	2, 14
Ophiusa indiscriminata (Hampson)	Lepidoptera	Noctuidae	番石榴阿夜蛾	guava fruit moth	2
Ophiusa tirhaca (Cramer)	Lepidoptera	Noctuidae	石榴阿夜蛾	pomegranate fruit moth	2, 14
Ophiusa trapezium (Guenée)	Lepidoptera	Noctuidae	直安纽夜蛾		2
Ophiusa triphaenoides (Walker)	Lepidoptera	Noctuidae	安纽夜蛾		2
Oracella acuta (Lobdell)	Hemiptera	Pseudococcidae	湿地松粉蚧	loblolly pine mealybug	9

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Oraesia emarginata (Fabricius)	Lepidoptera	Noctuidae	嘴壶夜蛾	(small oraesia)	2, 14
Oraesia excavata Butler	Lepidoptera	Noctuidae	葡萄紫褐夜蛾	(reddish oraesia)	2
Orgyia postica (Walker)	Lepidoptera	Lymantriidae	棉古毒蛾	small tussock caterpillar	9, 14
Orseolia oryzae (Wood-Mason)	Diptera	Cecidomyiidae	稻瘿蚊	rice gall midge	10
Orthaga achatina (Butler)	Lepidoptera	Pyralidae	栗叶瘤丛螟	(chestnut pyralid)	9
Orthezia insignis Browne	Hemiptera	Ortheziidae	明旌蚧	greenhouse orthezia	2
Orthophagus splendens (Germar)	Hemiptera	Dictyopharidae	丽象蜡蝉		2
Oryctes gnu Mohnike	Coleoptera	Scarabaeidae	三疣独角仙	(coconut rhinoceros beetle)	14
Oryctes rhinoceros (Linnaeus)	Coleoptera	Scarabaeidae	二疣独角仙	rhinoceros beetle	11, 14
Ostrinia furnacalis (Guenée)	Lepidoptera	Pyralidae	亚洲玉米螟	Asian corn borer	3, 6, 7
Othreis ancilla (Cramer)	Lepidoptera	Noctuidae	丝条落叶夜蛾		2
Othreis fullonia (Clerck)	Lepidoptera	Noctuidae	通草落叶夜蛾	fruit piercing moth	2, 14
Oulema oryzae (Kuwayama)	Coleoptera	Chrysomelidae	稻负泥虫	rice leaf beetle	2, 10
Oxya chinensis (Thunberg)	Orthoptera	Acrididae	中华稻蝗	Chinese rice grasshopper	2, 6, 8, 10, 11, 12
Oxya diminuta Walker	Orthoptera	Acrididae	赤胫稻蝗	red-legged grasshopper	8
Oxya hyla intricata (Stål)	Orthoptera	Acrididae	小稻蝗		2, 6
Oxya velox (Fabricius)	Orthoptera	Acrididae	长翅稻蝗		2, 6, 8
Oxycetonia jucunda (Faldermann)	Coleoptera	Scarabaeidae	银点花金龟	(small flower chafer)	2
Oxyodes scrobiculata (Fabricius)	Lepidoptera	Noctuidae	佩夜蛾		2
Oxyrhachis mangiferana Distant	Hemiptera	Membracidae	芒果角蚜		14
Pamera rustica (Scott)	Hemiptera	Lygaeidae	褐筒胸长蝽		14
Pandemis cerasana (Hubner)	Lepidoptera	Tortricidae	醋栗褐原蛾	barred fruit tree tortrix	2
Panonychus citri (McGregor)	Acari	Tetranychidae	柑桔全爪螨	citrus red mite	2, 14
Panonychus elongatus Manson	Acari	Tetranychidae	长全爪螨	elongate red mite	2
Papilio bianor Cramer	Lepidoptera	Papilionidae	黑凤蝶	black swallowtail	2
Papilio bianor mandschurica Matsumura	Lepidoptera	Papilionidae	碧凤蝶东北亚种	(oriental black swallowtail	2
Papilio demoleus Linnaeus	Lepidoptera	Papilionidae	柠檬凤蝶	citrus swallowtail, lemon butterfly	2
Papilio dialis Leech	Lepidoptera	Papilionidae	底氏凤蝶		2

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Papilio helenus Linnaeus	Lepidoptera	Papilionidae	小黄斑凤蝶	(yellow-spotted swallowtail)	2
Papilio machaon hippocrates Verity	Lepidoptera	Papilionidae	黄凤蝶(北亚亚种)	(north Asian swallowtail)	2
Papilio machaon Linnaeus	Lepidoptera	Papilionidae	黄凤蝶	yellow swallowtail	2
Papilio macilentus Janson	Lepidoptera	Papilionidae	长尾凤蝶	long-tailed swallowtail	2
Papilio memnon Linnaeus	Lepidoptera	Papilionidae	桔红点黑凤蝶	great mormon	2
Papilio nephelus chaon Westwood	Lepidoptera	Papilionidae	卡氏凤蝶		2
Papilio paris Linnaeus	Lepidoptera	Papilionidae	巴黎凤蝶	Paris swallowtail	2
Papilio polytes javanus Linnaeus	Lepidoptera	Papilionidae	爪哇玉带凤蝶	Javan lemon butterfly	2
Papilio polytes Linnaeus	Lepidoptera	Papilionidae	玉带凤蝶	white-banded swallowtail	2, 14
Papilio protenor Cramer	Lepidoptera	Papilionidae	蓝凤蝶		2
Papilio protenor demetrius Stoll	Lepidoptera	Papilionidae	蓝凤蝶有尾亚种	(spangle)	2
Papilio thaiwanus Rothschild	Lepidoptera	Papilionidae	台湾凤蝶		2
Papilio xuthus Linnaeus	Lepidoptera	Papilionidae	金凤蝶	smaller citrus swallowtail	2
Parabemisia myricae (Kuwana)	Homoptera	Aleyrodidae	杨梅粉虱		2
Parallelia palumba Guenée	Lepidoptera	Noctuidae	柚巾夜蛾		2
Parametriotes theae (Kuznetov)	Lepidoptera	Momphidae	茶梢尖蛾	tea shoot borer, tea moth	13
Paraponyx stagnalis (Zeller)	Lepidoptera	Pyralidae	三点水螟	rice case bearer, rice caseworm	10
Parasa bicolor (Walker)	Lepidoptera	Limacodidae	两色绿刺蛾	(twin-colour green cochlid)	14
Parasa canangae Hering	Lepidoptera	Limacodidae	宽边绿刺蛾	(white-margined green moth)	14
Parasa consocia (Walker)	Lepidoptera	Limacodidae	褐边绿刺蛾	(green cochlid)	2, 4, 6
Parasa lepida (Cramer)	Lepidoptera	Limacodidae	丽绿刺蛾	blue-striped nettle grub	14
Parasa sinica (Moore)	Lepidoptera	Limacodidae	中国绿刺蛾	(Chinese green cochlid)	2
Parasa vivida (Walker)	Lepidoptera	Limacodidae	咖啡刺蛾	stinging coffee caterpillar	14
Parasaissetia nigra (Nietner)	Hemiptera	Coccidae	黑盔蚧	black coccid	2, 14
Parlatoria camelliae Comstock	Hemiptera	Diaspididae	茶片盾蚧	camellia scale	2
Parlatoria oleae (Colvée)	Hemiptera	Diaspididae	油橄榄片盾蚧	olive scale	2
Parlatoria pergandii Comstock	Hemiptera	Diaspididae	糠片蚧	black parlatoria scale, chaff scale	2, 4
Parlatoria proteus (Curtis)	Hemiptera	Diaspididae	黄片盾蚧	(elongate parlatoria scale)	2, 4

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Parlatoria theae (Cockerell)	Hemiptera	Diaspididae	茶片盾蚧		2
Parlatoria zizyphi (Lucas)	Hemiptera	Diaspididae	方黑点蚧	citrus parlatoria	2
Parnara ganga Evans	Lepidoptera	Hesperiidae	曲纹稻弄蝶	rice butterfly	10
Parnara guttatus (Bremer & Gray)	Lepidoptera	Hesperiidae	直纹稻苞虫	rice skipper	10
Parthenolecanium persicae (Fabricius)	Hemiptera	Coccidae	桃盔蜡蚧		2
Patanga japonica (Bolivar)	Orthoptera	Acrididae	日本脊土蝗	Japanese grasshopper	2, 6, 14
Patanga succincta (Linnaeus)	Orthoptera	Acrididae	印黄脊土蝗	Bombay locust	2, 6, 8, 11, 12
Pectinophora gossypiella (Saunders)	Lepidoptera	Gelechiidae	棉红铃虫	pink bollworm	3
Pelopidas mathias (Fabricius)	Lepidoptera	Hesperiidae	隐纹稻苞虫	rice skipper	10
Penicillaria jocosatrix (Guenée)	Lepidoptera	Noctuidae	芒果夜蛾	mango shoot caterpillar	14
Pentalonia nigronervosa Coquera/	Hemiptera	Aphididae	香蕉交脉蚜	banana aphid	14
Pericapritermes nitobei (Shiraki)	Isoptera	Termitidae	近歪白蚁		11
Perkinsiella saccharicida Kirkaldy	Hemiptera	Delphacidae	蔗飞虱	sugarcane planthopper	11
Petrova cristata (Walshingham)	Lepidoptera	Tortricidae	松实小卷蛾		9
Phaedon brassicae Baly	Coleoptera	Chrysomelidae	猿叶虫	(daikon leaf beetle)	5
Phaenacantha bicolor (Distant)	Hemiptera	Lygaeidae	两色突束蝽		11
Phalera combusta (Walker)	Lepidoptera	Notodontidae	高粱舟蛾		6
Phaulula gracilis Matsumura & Shiraki	Orthoptera	Tettigoniidae	桔小螽斯		14
Philus antennatus (Gyllenhal)	Coleoptera	Cerambycidae	狭胸桔天牛		2
Philus pallescens Bates	Coleoptera	Cerambycidae	蔗狭胸天牛	(narrow thorax longicorn)	2, 11
Phlaeoba infumata Brunner von Wattenwyl	Orthoptera	Acrididae	僧帽佛蝗		12
Phloeosinus sinensis Schedl	Coleoptera	Scolytidae	中华柏皮小蠹	Chinese cedar bark beetle	9
Phocoderma velutina Kollar	Lepidoptera	Limacodidae	绒刺蛾		14
Phragmataecia castaneae Hübner	Lepidoptera	Cossidae	黄褐木蠹蛾	(brown cossid)	11
Phthonosema tendinosaria (Bremer)	Lepidoptera	Geometridae	苹烟尺蛾		14
Phthorimaea operculella (Zeller)	Lepidoptera	Gelechiidae	马铃薯麦蛾	potato tuber moth	7
Phyllocnistis citrella Stainton	Lepidoptera	Gracillariidae	桔叶潜蛾	citrus leaf miner	2
Phyllocoptruta oleivora (Ashmead)	Acari	Eriophyidae	柑桔锈螨	citrus rust mite	2, 14
Phyllotreta rectilineata Chen	Coleoptera	Chrysomelidae	直条跳甲	(cabbage flea beetle)	5

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Phyllotreta striolata (Fabricius)	Coleoptera	Chrysomelidae	曲条跳甲	striped cabbage flea beetle	5, 6
Phyllotreta vittata (Fabricius)	Coleoptera	Chrysomelidae	黄曲条跳甲	striped flea beetle	14
Physauchenia bifasciata (Jacoby)	Coleoptera	Chrysomelidae	双带方额叶甲		2
Physopelta gutta (Burmeister)	Hemiptera	Largidae	大星红蝽	(large red largid)	14
Phytoscaphus gossypii Chao	Coleoptera	Curculionidae	棉尖象	(cotton shoot weevil)	3
Pieris brassicae (Fabricius)	Lepidoptera	Pieridae	大菜粉蝶	large cabbage white	5
Pieris canidia (Sparrmann)	Lepidoptera	Pieridae	东方粉蝶	small cabbage butterfly	5
Pieris rapae (Linnaeus)	Lepidoptera	Pieridae	菜粉蝶	cabbage white butterfly	5
Piezodorus hybneri (Gmelin)	Hemiptera	Pentatomidae	壁蝽	red-banded shield bug	6
Pinnaspis aspidistrae (Signoret)	Hemiptera	Diaspididae	桔长盾蚧		2
Pinnaspis strachani (Cooley)	Hemiptera	Diaspididae	桔小雪蚧	hibiscus snow scale	14
Pinnaspis theae (Maskell)	Hemiptera	Diaspididae	茶褐点盾蚧		2
Pinnaspis uniloba (Kuwana)	Hemiptera	Diaspididae	单瓣褐点盾蚧	osmanthus scale	2
Plagiodera versicolora (Laicharting)	Coleoptera	Chrysomelidae	柳叶甲	willow leaf beetle	2
Planococcus citri (Risso)	Hemiptera	Pseudococcidae	桔粉蚧	citrus mealybug	2, 4
Planococcus kraunhiae (Kuwana)	Hemiptera	Pseudococcidae	藤氏粉蚧		2
Planococcus lilacinus (Cockerell)	Hemiptera	Diaspididae	可可刺粉蚧	cacao mealybug	2, 14
Platymycteropsis mandarinus (Fabricius)	Coleoptera	Curculionidae	柑桔斜脊象		2, 14
Platypleura kaempferi (Fabricius)	Hemiptera	Cicadidae	蟪蛄	kaempfer's cicada	2
Plautia fimbriata (Fabricius)	Hemiptera	Pentatomidae	珀蝽		2
Pleonomus canaliculatus (Faldermann)	Coleoptera	Elateridae	沟叩头虫		6
Pleuroptya chlorophanta (Butler)	Lepidoptera	Pyralidae	叶螟	(leaf webworm)	6
Plocaderus obesus Gahan	Coleoptera	Cerambycidae	咖啡天牛	cashew stem borer, coffee longhorn	14
Plusiodonta coelonta (Kollar)	Lepidoptera	Noctuidae	彩肖金夜蛾		2
Plutella xylostella (Linnaeus)	Lepidoptera	Yponomeutidae	小菜蛾	diamondback moth	5
Podagricomela nigricollis Chen	Coleoptera	Chrysomelidae	桔红潜叶甲	(red citrus leafminer)	2
Podagricomela weisei Heikertinger	Coleoptera	Chrysomelidae	枸杞潜叶甲		2
Podontia lutea (Olivier)	Coleoptera	Chrysomelidae	黄色漆树叶甲		2

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Poecilocoris druraei (Linnaeus)	Hemiptera	Scutelleridae	桑宽盾蝽		2
Poecilophilides rusticola (Burmeister)	Coleoptera	Scarabaeidae	褐锈花金龟		6
Polychrosis cunninghamiacola Liu & Pai	Lepidoptera	Tortricidae	杉梢卷叶蛾		9
Polygonia c-aureum (Linnaeus)	Lepidoptera	Nymphalidae	狸黄蛱蝶	(yellowish nymphalid)	2
Polyphagotarsonemus latus (Banks)	Acari	Tarsonemidae	侧多食跗线螨	broad mite, yellow tea mite	2, 5, 7, 8, 13, 14
Popillia mutans Newman	Coleoptera	Scarabaeidae	无斑弧丽金龟		14
Prionus insularis Motschulsky	Coleoptera	Cerambycidae	锯天牛		2
Priotyrranus closteroides (Thomson)	Coleoptera	Cerambycidae	桔根锯天牛		2
Prophantis octoguttalis (Felder & Rogenhofer)	Lepidoptera	Pyralidae	咖啡浆果蛀野螟	coffee berry moth	14
Protaetia brevitarsis Lewis	Coleoptera	Scarabaeidae	白点花金龟		14
Psacothea hilaris (Pascoe)	Coleoptera	Cerambycidae	桑黄星天牛	(yellow-spot longhorn)	2
Psalis pennatula (Fabricius)	Lepidoptera	Lymantriidae	钩茸毒蛾		6
Pseudaeolesthes chrysothrix Bates	Coleoptera	Cerambycidae	桔金绒天牛	(yellow-mottled longhorn)	2
Pseudaeolesthes chrysothrix tibetana Gressitt	Coleoptera	Cerambycidae	桔金绒天牛(西藏亚种)		2
Pseudaonidia duplex (Cockerell)	Hemiptera	Diaspididae	樟圆蚧	round camphor scale	2, 9, 13
Pseudaonidia trilobitiformis (Green)	Hemiptera	Diaspididae	可可三叶圆蚧	armoured scale	2
Pseudaulacaspis pentagona (Targioni-Tozzetti)	Hemiptera	Diaspididae	桑白蚧	mulberry scale, white peach scale	2, 4
Pseudocatharylla inclaralis (Walker)	Lepidoptera	Pyralidae	稻白折叶草螟	(white rice leaffolder)	10
Pseudococcus adonidum (Linnaeus)	Hemiptera	Pseudococcidae	可可长尾粉蚧	long-tailed mealybug	2, 14
Pseudococcus calceolariae (Maskell)	Hemiptera	Pseudococcidae	桔根粉蚧	citrus root mealybug	2
Pseudococcus citriculus Green	Hemiptera	Pseudococcidae	嗜桔粉蚧	citrophilus mealybug	2, 14
Pseudococcus comstocki (Kuwana)	Hemiptera	Pseudococcidae	康氏粉蚧	Comstock mealybug	2, 6
Pseudococcus maritimus (Ehrhorn)	Hemiptera	Pseudococcidae	葡萄粉蚧		2
Pseudonoorda minor Munroe	Lepidoptera	Pyralidae	芒果小齿螟		14
Psylla citricola Yang & Li	Hemiptera	Psyllidae	柑桔木虱		2
Psylla coccinea Kuwayama	Hemiptera	Psyllidae	红木虱	(red jumping psylla)	2
Pterophorus niveodactylus (Pagenstecher)	Lepidoptera	Pterophoridae	甘薯翼蛾	(sweet potato white plume moth)	12

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Pest	Order	Family	Chinese common name	English common name	See Table(s)
Ptinus fur (Linnaeus)	Coleoptera	Ptinidae	白纹蛛甲	whitemarked spider beetle	6
Ptosima chinensis Marshall	Coleoptera	Buprestidae	黄斑吉丁虫		4
Pulvinaria citricola Kuwana	Hemiptera	Coccidae	桔绵蚧	smaller citrus cottony scale	2
Pulvinaria psidii Maskell	Hemiptera	Coccidae	咖啡丝绵蚧	green shield scale	2
Pygospila tyres (Cramer)	Lepidoptera	Pyralidae	白斑黑野螟		14
Quadraspidiotus perniciosus (Comstock)	Hemiptera	Diaspididae	梨笠圆盾蚧	San José scale	2, 4
Recilia dorsalis (Motschulsky)	Hemiptera	Cicadellidae	电光叶蝉	zigzag leafhopper	2, 8, 10
Redoa alba (Bremer)	Lepidoptera	Lymantriidae	茶白毒蛾	(smaller white tussock moth)	2
Reticulitermes flavipes (Koller)	Isoptera	Rhinotermitidae	黄胸散白蚁	eastern subterranean termite	11
Reticulitermes speratus (Kolbe)	Isoptera	Rhinotermitidae	栖水网白蚁		6
Rhipiphorothrips cruentatus Hood	Thysanoptera	Thripidae	腹钩蓟马		14
Rhomborrhina fulvopilosa Moser	Coleoptera	Scarabaeidae	黄马罗花金龟		2
Rhomborrhina japonica Hope	Coleoptera	Scarabaeidae	日本铜光金龟	(cupreous polished chafer)	2
Rhomborrhina resplendens (Swartz)	Coleoptera	Scarabaeidae	桔金龟	(citrus polished chafer)	2
Rhomborrhina unicolor Motschulsky	Coleoptera	Scarabaeidae	绿色花金龟	(green polished chafer)	2
Rhopalosiphum maidis (Fitch)	Hemiptera	Aphididae	玉米缢管蚜	corn leaf aphid	6
Rhopalosiphum padi (Linnaeus)	Hemiptera	Aphididae	禾谷缢管蚜	oat aphid	6
Rhynchites confragosicollis Voss	Coleoptera	Curculionidae	桃象甲	(peach weevil)	4
Rhynchites foveipennis Fairmaire	Coleoptera	Curculionidae	梨象甲	(pear weevil)	4
Rhynchocoris humeralis (Thunberg)	Hemiptera	Pentatomidae	棱蝽	(citrus stinkbug)	2
Rhynchocoris nigridens Stål	Hemiptera	Pentatomidae	热带果蝽	(tropical fruit bug)	2
Rhyncophorus ferrugineus (Olivier)	Coleoptera	Curculionidae	椰棕象甲	red palm weevil	14
Rhytia hypermnestra (Stoll)	Lepidoptera	Noctuidae	白斑落叶夜蛾	(fruit piercing moth)	2
Rhytidodera bowringii White	Coleoptera	Cerambycidae	脊胸天牛	(ridge-necked longhorn)	14
Ricania cacaonis Chou & Lu	Hemiptera	Ricaniidae	可可管翅蜡蝉	(cocoa planthopper)	14
Ricania japonica Melichar	Hemiptera	Ricaniidae	琥珀广翅蜡蝉	(Japanese broad-winged planthopper)	2
Ricania simulans (Walker)	Hemiptera	Ricaniidae	钩纹广翅蜡蝉		2
Ricania speculum (Walker)	Hemiptera	Ricaniidae	八点广翅蜡蝉	(coffee planthopper)	2, 14

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Ricania taeniata Stål	Hemiptera	Ricaniidae	褐带广翅蜡蝉	brown-banded planthopper	2, 6
Riptortus clavatus (Thunberg)	Hemiptera	Alydidae	豆类缘蝽		2
Riptortus linearis (Linnaeus)	Hemiptera	Alydidae	稻蜂缘蝽	legume pod bug	2, 6, 7, 8
Riptortus pedestris (Fabricius)	Hemiptera	Alydidae	豆缘蝽	bean bug	2, 6, 7, 8
Rondibilis chengtuensis Gressitt	Coleoptera	Cerambycidae	成都方额天牛	Chengdu longhorn	2
Saccharicoccus sacchari (Cockerell)	Hemiptera	Pseudococcidae	蔗红粉蚧	sugarcane mealybug	11
Saccharosydne procerus (Matsumura)	Hemiptera	Delphacidae	长绿飞虱		7
Saissetia citricola (Kuwana)	Hemiptera	Coccidae	柑桔纽蜡蚧	(citrus cottony scale)	2
Saissetia coffeae (Walker)	Hemiptera	Coccidae	咖啡盔蚧	hemispherical scale	2, 14
Saissetia oleae (Olivier)	Hemiptera	Coccidae	橄榄盔蚧	black scale	2
Salurnis marginellus Guérin-Méneville	Hemiptera	Flatidae	檀香木蜡蝉		2, 6, 14
Samia cynthia (Drury)	Lepidoptera	Saturniidae	樗蚕	eri silkworm, cynthia moth	2, 9
Scirpophaga excerptalis (Walker)	Lepidoptera	Pyralidae	鹿蔍草野螟	white top borer	11
Scirpophaga incertulas (Walker)	Lepidoptera	Pyralidae	三化螟	yellow rice stemborer	10
Scirpophaga nivella (Fabricius)	Lepidoptera	Pyralidae	蔗白螟	sugarcane top borer	11
Scirpophaga praelata (Scopoli)	Lepidoptera	Pyralidae	无纹白螟		7
Scirtothrips dorsalis Hood	Thysanoptera	Thripidae	茶黄蓟马	yellow tea thrips, chilli thrips, strawberry thrips	2, 7, 13, 14
Scirtothrips mangiferae Priesner	Thysanoptera	Thripidae	芒果褐蓟马	mango thrips	14
Scopelodes venosus Walker	Lepidoptera	Limacodidae	广东油桐黑刺蛾	(Guangdong tung oil nettle moth)	14
Scotinophara lurida (Burmeister)	Hemiptera	Pentatomidae	稻黑蝽	black rice bug	2, 6, 10
Scutellera perplexa (Westwood)	Hemiptera	Scutelleridae	长盾蝽		2
Selenothrips rubrocinctus (Giard)	Thysanoptera	Thripidae	可可红带蓟马	red-banded thrips, cocoa thrips	2, 14
Semanotus sinoauster Gressitt	Coleoptera	Cerambycidae	皱鞘双条杉天牛		9
Serica boops Waterhouse	Coleoptera	Scarabaeidae	豆形褐绒金龟	(brown chafer)	14
Serrodes campana Guenée	Lepidoptera	Noctuidae	斑翅夜蛾		2
Serrognathus titanus (Boisduval)	Coleoptera	Lucanidae	巨锯锹甲		2
Sesamia calamistis Hampson	Lepidoptera	Noctuidae	列星大螟	pink stem borer	6
Sesamia inferens (Walker)	Lepidoptera	Noctuidae	大螟	pink rice borer	6, 10, 11

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Sesamia uniformis Dudgeon	Lepidoptera	Noctuidae	蔗木螟	sugarcane borer	11
Setora sinensis Moore	Lepidoptera	Limacodidae	中华褐刺蛾	(Chinese nettle moth)	2, 9
Setothosea asigna (van Eecke)	Lepidoptera	Limacodidae	带一点刺蛾		14
Shirahoshizo flavonotatus (Voss)	Coleoptera	Curculionidae	马尾松角胫象		9
Shirakiacris shiraki (Bolivár)	Orthoptera	Acrididae	长翅希蝗		6
Sinomegoura citricola (Van der Goot)	Hemiptera	Aphididae	樟修尾蚜	camphor aphid	9
Sinorsillus piliferus Usinger	Hemiptera	Lygaeidae	杉木扁长蝽		9
Sinoxylon anale Lesne	Coleoptera	Bostrychidae	毒藤根长蠹	false powder post beetle	9
Sitobion avenae Fabricius	Hemiptera	Aphididae	麦长管蚜	English grain aphid	6
Sitophilus zeamais Motschulsky	Coleoptera	Curculionidae	玉米象	maize weevil	6
Sitotroga cerealella (Olivier)	Lepidoptera	Gelechiidae	麦蛾	angoumois grain moth	6
Smynthurodes betae Westwood	Hemiptera	Aphididae	菜豆根蚜	bean root aphid	3
Sogatella furcifera (Horváth)	Hemiptera	Delphacidae	白背稻虱	white backed planthopper	6, 10
Solenosthedium chinensis Stål	Hemiptera	Scutelleridae	华沟盾蝽	(yellow-belly arctiid)	2
Sonsaucoccus sinensis (Chen)	Hemiptera	Margarodidae	中华松梢蚧		9
Sphaeroderma confine Chen	Coleoptera	Chrysomelidae	红拟球跳甲		14
Sphrageidus similis (Fuessly)	Lepidoptera	Lymantriidae	盗毒蛾	yellow-tail moth	2, 4
Spilarctia obliqua (Walker)	Lepidoptera	Arctiidae	尖白灯蛾	pale-lined tiger moth	5, 6, 8
Spilarctia subcarnea (Walker)	Lepidoptera	Arctiidae	红腹白灯蛾	white tiger moth	2, 5, 6, 8
Spilosoma lubricipeda (Linnaeus)	Lepidoptera	Arctiidae	黄腹麻灯蛾		5, 7
Spilosoma punctaria Stoll	Lepidoptera	Arctiidae	麻灯蛾	(red-belly arctiid)	5
Spirama retorta (Clerck)	Lepidoptera	Noctuidae	旋目夜		2, 14
Spodoptera exigua (Hübner)	Lepidoptera	Noctuidae	甜菜夜蛾	lesser armyworm	5, 6, 7, 12
Spodoptera litura (Fabricius)	Lepidoptera	Noctuidae	斜纹夜蛾	cluster caterpillar, tobacco cutworm	2, 3, 5, 6, 7, 8, 12
Spodoptera mauritia (Boisduval)	Lepidoptera	Noctuidae	水稻粘虫	lawn armyworm, rice armyworm	6, 10
Spoladea recurvalis (Fabricius)	Lepidoptera	Pyralidae	夏威夷甜菜螟	beet webworm	6, 7
Squamura discipuncta (Wileman)	Lepidoptera	Metabelidae	相思拟木蠹蛾	litchi stem borer	9, 14
Stauropus alternus (Walker)	Lepidoptera	Notodontidae	龙眼灰舟蛾	lobster caterpillar	9, 14

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Stenchaetothrips biformis (Bagnall)	Thysanoptera	Thripidae	稻蓟马	rice thrips, paddy thrips	6, 10, 11
Stenocatantops splendens (Thunberg)	Orthoptera	Acrididae	细线斑腿蝗		6, 8, 12
Stephanitis chinensis Drake	Hemiptera	Tingidae	中华网蝽	tea tingid	13
Stephanitis laudata Drake & Poor	Hemiptera	Tingidae	华南冠网蝽		9
Stephanitis macaona Drake	Hemiptera	Tingidae	樟脊网蝽		9
Stephanitis nashi Esaki & Takeya	Hemiptera	Tingidae	梨网蝽	nashi bug	4
Stephanitis typicus (Distant)	Hemiptera	Tingidae	香蕉网蝽	banana lace bug	14
Sternochetus frigidus (Fabricius)	Coleoptera	Curculionidae	果肉芒果象	mango weevil	14
Sternochetus olivieri (Faust)	Coleoptera	Curculionidae	橄榄象	olive weevil	14
Strepsicrates nr. simicanella (Walker)	Lepidoptera	Tortricidae	桉环卷蛾	Eucalyptus leaf-roller	9
Stromatium longicorne (Newman)	Coleoptera	Cerambycidae	长角天牛		9
Suana divisa (Moore)	Lepidoptera	Lasiocampidae	桉树大毛虫		9. 14
Susica pallida Walker	Lepidoptera	Limacodidae	枣刺蛾		14
Sybra punctatostriata Bates	Coleoptera	Cerambycidae	棉蒴天牛		2
Sympiezomias citri Chao	Coleoptera	Curculionidae	柑桔灰象	grey citrus weevil	2
Sympiezomias cribricollis Kono	Coleoptera	Curculionidae	台湾灰象	(Taiwanese grey weevil)	2
Sympiezomias lewisi (Roelofs)	Coleoptera	Curculionidae	大灰象甲		2
Sympiezomias velatus (Chevrolat)	Coleoptera	Curculionidae	大灰象	(gourd-shaped weevil)	3
Sympis rufibasis Guenée	Lepidoptera	Noctuidae	合夜蛾		2
Sypnoides simplex (Leech)	Lepidoptera	Noctuidae	闪夜蛾		2
Tachardina theae (Green)	Hemiptera	Keriidae	茶角胶蚧		2
Taiwania versicolor (Boheman)	Coleoptera	Chrysomelidae	柳蓝业甲		2
Takahashia japonica (Cockerell)	Hemiptera	Coccidae	桑红蜡蚧		2
Tambinia debilis Stål	Hemiptera	Tropidochidae	桑扁蜡蝉		2
Tarbinskiellus portentosus (Lichtenstein)	Orthoptera	Gryllidae	花生大蟋蟀	(large brown cricket)	2, 4, 6, 8, 9, 11, 12, 14
Tartessus ferrugineus (Walker)	Hemiptera	Cicadellidae	头黑带叶蝉		2
Teleogryllus emma (Ohmachi & Matsumura)	Orthoptera	Gryllidae	北京油葫芦		6

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Teleogryllus testaceus (Walker)	Orthoptera	Gryllidae	油葫芦	(field cricket)	2, 3, 7, 8, 11, 12
Terthron albovittatum (Matsumura)	Hemiptera	Delphacidae	白条飞虱	(white-striped planthopper)	2, 6
Tessaratoma papillosa (Drury)	Hemiptera	Tessaratomidae	荔蝽	litchi stinkbug	2, 14
Tessaratoma quadrata Distant	Hemiptera	Tessaratomidae	方肩荔蝽		2
Tetramoera schistaceana (Snellen)	Lepidoptera	Tortricidae	甘蔗条小卷蛾	grey sugarcane borer	11
Tetraneura nigriabdominalis (Sasaki)	Hemiptera	Aphididae	陆稻黑腹绵蚜	Oriental grassroot aphid	11
Tetranychus cinnabarinus (Boisduval)	Acari	Tetranychidae	朱砂叶螨	carmine spider mite	2, 3, 4, 6, 7, 8, 14
Tetranychus fijiensis Hirst	Acari	Tetranychidae	斐济叶螨	Fijian spider mite	14
Tetranychus kanzawai Kishida	Acari	Tetranychidae	神泽叶螨	tea red spider mite	13, 14
Tetranychus piercei McGregor	Acari	Tetranychidae	皮氏叶螨		14
Tetranychus truncatus Ehara	Acari	Tetranychidae	截形叶螨		6
Tetranychus urticae Koch	Acari	Tetranychidae	二点叶螨	two-spotted mite	2, 6, 14
Tetrix japonica (Bolivar)	Orthoptera	Tetrigidae	日本棱蝗	pigmy grasshopper	8
Tetroda histeroides (Fabricius)	Hemiptera	Pentatomidae	四剑蝽		6
Thaia subrufa (Motschulsky)	Hemiptera	Cicadellidae	白翅叶蝉	(white wing leafhopper)	6, 10
Thalassodes quadraria Guenée	Lepidoptera	Geometridae	樟翠尺蠖		9, 14
Theretra oldenlandiae (Fabricius)	Lepidoptera	Sphingidae	芋双线天蛾	vine hawk moth	12
Theretra silhetensis Walker	Lepidoptera	Sphingidae	条纹天蛾	(dasheen hornworm)	5
Thlaspida biramosa japonica Spaeth	Coleoptera	Chrysomelidae	双斑尾龟甲(日本亚种)		2
Thosea sinensis (Walker)	Lepidoptera	Limacodidae	中华天蛾	slug caterpillar	2, 13, 14
Thrips alliorum (Priesner)	Thysanoptera	Thripidae	葱蓟马	(onion thrips)	5
Thrips andrewsi (Bagnall)	Thysanoptera	Thripidae	黑角蓟马		2
Thrips coloratus Schmutz	Thysanoptera	Thripidae	色蓟马	(Japanese thrips)	2, 8
Thrips flavidulus (Bagnall)	Thysanoptera	Thripidae	八节黄蓟马	yellow flower thrips	2, 5, 7, 8
Thrips flavus Schrank	Thysanoptera	Thripidae	瓜亮蓟马		2, 5, 7, 8
Thrips hawaiiensis (Morgan)	Thysanoptera	Thripidae	香蕉花蓟马	banana flower thrips	2, 5, 7, 8, 12, 14
Thrips palmi Karny	Thysanoptera	Thripidae	棕黄蓟马	melon thrips	7

Table 1.(cont'd) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Thrips tabaci Lindeman	Thysanoptera	Thripidae	棉蓟马，烟蓟马	onion thrips	2, 5
Throscoryssa citri Maulik	Coleoptera	Chrysomelidae	桔黑潜叶甲	(black citrus leaf miner)	2
Thyas juno (Dalman)	Lepidoptera	Noctuidae	毛翅夜蛾	(rose leaf-like moth)	2
Thysanoplusia orichalcea (Fabricius)	Lepidoptera	Noctuidae	亚麻金翅夜蛾	(slender burnished brass moth)	5
Ticera castanea Swinhoe	Lepidoptera	Lasiocampidae	木马黄枯叶蛾		9
Tiracola plagiata (Walker)	Lepidoptera	Noctuidae	剑麻夜蛾		2
Tirathaba mundella Walker	Lepidoptera	Pyralidae	椰子缀蛾	(coconut leaf folder)	14
Tirathaba rufivena Walker	Lepidoptera	Pyralidae	椰红脉穗螟	coconut spike moth	14
Tomicus minor (Hartig)	Coleoptera	Scolytidae	松横坑切梢小蠹	small pine engraver	9
Tomicus piniperda (Linnaeus)	Coleoptera	Scolytidae	松纵坑切梢小蠹	pine engraver	9
Toxoptera aurantii (Boyer de Fonscolombe)	Hemiptera	Aphididae	桔二岔蚜	black citrus aphid	2, 13, 14
Toxoptera citricida (Kirkaldy)	Hemiptera	Aphididae	桔蚜	brown citrus aphid	2, 4
Toxoptera odinae (van der Goot)	Hemiptera	Aphididae	苦果蚜	(mango aphid)	2, 14
Trabala vishnou (Lefebvre)	Lepidoptera	Lasiocampidae	蓖麻黄枯叶蛾	castor tent caterpillar	2, 9
Trachylopus sinensis Gahan	Coleoptera	Cerambycidae	四脊茶天牛		2, 13
Trialeurodes vaporariorum (Westwood)	Hemiptera	Aleyrodidae	温室粉虱	greenhouse whitefly	5, 7
Tribolium castaneum (Herbst)	Coleoptera	Tenebrionidae	赤拟谷盗	red flour beetle	6
Trichochrysea nitidissima (Jacoby)	Coleoptera	Chrysomelidae	合欢毛叶甲		9
Trichoplusia ni (Hübner)	Lepidoptera	Noctuidae	粉纹叶蛾	ni moth	5, 8
Tridactylus japonicus (De Haan)	Orthoptera	Tridactylidae	日本蚤蝼	pigmy mole cricket	8
Trigonodes hyppasia (Cramer)	Lepidoptera	Noctuidae	短带三角叶蛾		2
Trilophidia annulata (Thunberg)	Orthoptera	Acrididae	疣蝗		2, 6
Trioza camphorae Sasaki	Hemiptera	Triozidae	樟叶木虱	camphor sucker	9
Trirachys orientalis Hope	Coleoptera	Cerambycidae	刺角天牛		2, 9
Tropidothorax elegans (Distant)	Hemiptera	Lygaeidae	红脊长蝽		5
Truljalia hibinonis Matsumura	Orthoptera	Gryllidae	梨蟋蟀		6
Tusothrips calopgoniae (Zhang)	Thysanoptera	Thripidae	豆蓟马	bean thrips	7
Udaspes folus Cramer	Lepidoptera	Hesperiidae	姜弄蝶	curcuma skipper	7
Unaspis citri (Comstock)	Hemiptera	Diaspididae	桔盾蚧	white louse scale	2

Table 1.(cont`d) Arthropod pests of agriculture and forestry plantations in southern China. (English common names in limited use are placed in brackets)
中国南方农林业有害节肢动物（不常用的英文俗名置于括弧内）

Pest	Order	Family	Chinese common name	English common name	See Table(s)
Unaspis yanonensis (Kuwana)	Hemiptera	Diaspididae	矢尖蚧	arrowhead scale	2, 14
Unkanodes sapporonus (Matsumura)	Hemiptera	Delphacidae	札幌飞虱		6
Uroleucon formosanus (Takahashi)	Hemiptera	Aphididae	台湾指莴苣长管蚜	(tubular lettuce aphid)	5
Usilanus burmanicus Distant	Hemiptera	Lygaeidae	缅甸凹颊长蝽		14
Xanthodes graellsii (Feisthamel)	Lepidoptera	Noctuidae	蕉条丽夜蛾	Sudan cotton worm	3
Xanthodes malvae Esper	Lepidoptera	Noctuidae	锦葵丽夜蛾	(cotton caterpillar)	3
Xanthodes transversa (Guenée)	Lepidoptera	Noctuidae	犁纹夜蛾	(cotton caterpillar)	3
Xenocatantops humilis (Serville)	Orthoptera	Acrididae	褐异腿蝗		6
Xenocatantops brachycerus (Willemse)	Orthoptera	Acrididae	短角异腿蝗		6
Xestia c-nigrum (Linnaeus)	Lepidoptera	Noctuidae	八字地老虎	spotted cutworm	2, 6
Xyleborus aquilus Blandford	Coleoptera	Scolytidae	橡胶材小蠹	sasaki round bark beetle	14
Xylophylla punctifascia (Leech)	Lepidoptera	Noctuidae	斑木叶夜蛾)		2
Xylosandrus compactus (Eichhoff)	Coleoptera	Scolytidae	棟枝小蠹	black twig borer	14
Xylotrechus chinensis (Chevrolat)	Coleoptera	Cerambycidae	桑虎天牛	(tiger longicorn)	2, 4
Xylotrechus grayi (White)	Coleoptera	Cerambycidae	咖啡虎天牛	(coffee tiger moth)	14
Xylotrechus quadripes Chevrolat	Coleoptera	Cerambycidae	咖啡灭字虎天牛	coffee stem borer	14
Xylotrupes gideon (Linnaeus)	Coleoptera	Scarabaeidae	橡胶曲角独角仙	elephant beetle	14
Xystrocera globosa (Olivier)	Coleoptera	Cerambycidae	双条合欢天牛	(striped longicorn)	4, 9
Zanna chinensis (Distant)	Hemiptera	Fulgoridae	中华鼻蜡蝉		14
Zeuzera coffeae Nietner	Lepidoptera	Cossidae	咖啡豹蠹蛾	red coffee borer, red branch borer	2, 3, 13, 14
Zeuzera multistrigata Moore	Lepidoptera	Cossidae	栎黑点木蠹蛾		9
Zicrona caerulea (Linnaeus)	Hemiptera	Pentatomidae	蓝蝽	blue shield bug	6

Table 2. Distribution and importance of arthropod pests of citrus in southern China.
中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Abgrallaspis cyanophylli	Diaspididae	P	+	P	P	P	P	P	P	P	+	+		+	+	5	194=
Acanthocoris dilatatus	Coreidae			P	P	P		P	P			P		P		0	
Acanthoecia laminati	Psychidae			+			+					+		+		4	202=
Aceria sheldoni	Eriophyidae					+	+	+	+	+	+					6	185=
Achaea janata	Noctuidae	P	P	P	P		P				P	P		P	P	0	
Acrida cinerea	Acrididae	P	P	P	P		P				P	P		P	P	0	
Acrida turrita	Acrididae	P		+	+	P	P		+		+	+		+	+	7	170=
Acronicta major	Noctuidae	P	P	P	P				P	P				P	P	0	
Actinotia intermedia	Noctuidae	+	+	+		+	+		+			+				7	170=
Adoretus formosanus	Scarabaeidae														+++	3	240=
Adoretus sinicus	Scarabaeidae	+	+	+	+	+	+				+	+		+	+	10	129=
Adoretus umbrosus	Scarabaeidae	P	P	P	P									P	P	0	
Adoxophyes cyrtosema	Tortricidae				++			++	+++		+++	+++	+++	+++		19	58=
Adoxophyes orana	Tortricidae	+++	+++	+++	+++	+++	+++		+++		+++	+++	+++	+++	+++	36	13=
Adris tyrannus	Noctuidae														+	1	279=
Aeolesthes sinensis	Cerambycidae								P	P	P	P	P	P	P	0	
Agestrata orichalcea	Scarabaeidae							P		P	P	P		P		0	
Agonoscelis nubila	Pentatomidae			P	P			P	P		P	P		P	P	0	
Agrilus auriventris	Buprestidae			P	P	P	P		P	P	P	P		P	P	0	
Agrotis ipsilon	Noctuidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	21=
Aiolopus thalassinus	Acrididae		P	P	P	P			P		P	P		P	P	0	
Alcidodes trifidus	Curculionidae	P	P	P	P				P		P	P		P	P	0	
Aleurocanthus citriperdus	Aleyrodidae	++		++			++			++	++	+		++	++	15	78=
Aleurocanthus spiniferus	Aleyrodidae	+++		+++	+++	++	+++	+++	+++	++	+++	+++	+	+++	++	34	17
Aleurocanthus spinosus	Aleyrodidae								+			+		+	+	4	202=
Aleurolobus citri	Aleyrodidae								+				+		+	3	240=
Aleurolobus marlatti	Aleyrodidae	+		+	+		+		+	+	+	+		+	+	10	129=

Table 2. (cont'd) Distribution and importance of arthropod pests of citrus in southern China.
中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Aleurolobus setigerus	Aleyrodidae							+		+		+			+	4	202=
Aleurolobus szechwanensis	Aleyrodidae								+							1	279=
Aleurotuberculatus aucubae	Aleyrodidae	++		++	+				++		++	++				11	115=
Amrasca biguttula	Cicadellidae	+	+	+	+	+	+	+	+	+	+	+			P	11	115=
Amrasca flavescens	Cicadellidae	++	++	++	++	++	++	++	++	++	++	++		++	+++	27	26=
Amrasca formosana	Cicadellidae									+	+	+			+	4	202=
Amsacta lactinea	Arctiidae	+	+	+	+	+	+		+		+	+		+	+	11	115=
Andaspis hawaiiensis	Diaspididae			P								P		P	P	0	
Anomala corpulenta	Scarabaeidae	++	++	++	++	++			++							12	103=
Anomala cuprea	Scarabaeidae			++	++	++					++	++		++	++	14	84=
Anomala doimiana	Scarabaeidae								+							1	279=
Anomala expansa	Scarabaeidae				P				P		P	P		P	P	0	
Anomala rachypyga	Scarabaeidae	P	P	P	P									P	P	0	
Anomis flava	Noctuidae	+++				++	+++	++	+++		++	++	++	++		21	45=
Anomis fulvida	Noctuidae		+	+	+	+	+		+	+	+	+	+	+		11	115=
Anomis mesogona	Noctuidae		++	++	++	++	++		++		++	++	++	++		20	51=
Anomis saubulifera	Noctuidae			+		+						+			+	4	202=
Anoplocnemis curvipes	Coreidae	P	P	P	P	P	P				P	P		P	P	0	
Anoplocnemis phasiana	Coreidae	P	P	P	P				P	P	P	P		P	P	0	
Anoplophora chinensis	Cerambycidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Anoplophora horsfieldii	Cerambycidae	+		+		+			+	+	+	+		+		8	151=
Anoplophora imitatrix	Cerambycidae	P			P			P	P		P	P		P		0	
Anoplophora malasiaca	Cerambycidae			+			+			+					+	4	202=
Anoplophora versteegii	Cerambycidae							+		+	+	+				4	202=
Anticarsia irrorata	Noctuidae				+					+		+		+		4	202=
Aonidiella aurantii	Diaspididae	++		++	++				+	+	++	++		++	++	16	72=
Aonidiella citrina	Diaspididae	+	+	+	+	+	+	+	+	+	+	+		+	+	13	95=
Aonidiella orientalis	Diaspididae	P		P	P		P		P		P	P		P	P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Aphis craccivora	Aphididae	P	P	P	P	P	P	P	P	P	P	P		P	P	0	
Aphis gossypii	Aphididae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	21=
Aphis spiraecola	Aphididae			++					+++		++	++	+++	++	+	15	78=
Apion collare	Apionidae		P	P	P	P			P	P	P					0	
Apoderus nigroapicatus	Attelabidae	P			P				P	P	P	P		P	P	0	
Apogonia cribricollis	Melolonthidae			P	P	P	P				P	P		P	P	0	
Apomecyna excavaticeps	Cerambycidae	P		P						P	P	P		P	P	0	
Apriona germarii	Cerambycidae	P	P	P	P	P	P		P		P	P		P	P	0	
Araecerus fasciculatus	Anthribidae	P	P		P	P	P	P	P	P	P	P		P	P	0	
Archips asiaticus	Tortricidae	+++	++	+++	+++		+++		+++			+++		+++	+++	26	33=
Archips eucroca	Tortricidae										+	+		+		3	240=
Archips tabescens	Tortricidae								+		+	++		+	++	7	170=
Archips xylosteanus	Tortricidae	+			+	+	+									4	202=
Arcte coerula	Noctuidae					+	+			+	+	+		+	+	7	170=
Aristobia hispida	Cerambycidae	P	P	P	P	P	P		P		P	P		P	P	0	
Aristobia testudo	Cerambycidae									+	+	+		+		4	202=
Aromia bungii	Cerambycidae	+		+	+	+	+		+		+	+		+		9	137=
Artena dotata	Noctuidae		+	+	+	+	+	+		+	+	+	+	+	+	12	103=
Ascotis selenaria	Geometridae	+	+	+	+			+	+		+			+		8	151=
Asota tortuosa	Noctuidae								P	P	P	P			P	0	
Aspidiotus destructor	Diaspididae	+		+		+	+		+	+	+	+		+	+	10	129=
Aspidiotus nerii	Diaspididae	P		P	P	P	P	P	P	P	+	+		P	P	2	258=
Aspidomorpha difformis	Chrysomelidae							P	P			P		P	P	0	
Asterococcus muratae	Cerococcidae							+	+					+		3	240=
Asura strigipennis	Arctiidae	P	P	P	P	P	P		P	P		P		P	P	0	
Athrypsiastis salva	Xylorictidae	P		P					P					P	P	0	
Atractomorpha lata	Acrididae	P		P	P		P		P						P	0	
Atractomorpha sinensis	Acrididae				+	+	+		+		+	+		+	+	8	151=

Table 2. (cont'd) Distribution and importance of arthropod pests of citrus in southern China.
中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Attacus atlas	Saturniidae				+	+			+	+	+	+		+	+	8	151=
Aulacaspis citri	Diaspididae								++	++	++					6	185=
Aulacaspis crawi	Diaspididae	+		+				++	++	++		+		+	+	11	115=
Aulacaspis tubercularis	Diaspididae								P						+	1	279=
Aulacophora femoralis	Chrysomelidae	P	P	P	P	P	P	P			P	P		P	P	0	
Bactrocera dorsalis	Tephritidae						++	++	++	++	++	++	+++	++	+++	20	51=
Bactrocera minax	Tephritidae					+++	+++	+++	++	+++	+++				++	19	58=
Bactrocera occipitalis	Tephritidae											+	+			2	258=
Bactrocera pedestris	Tephritidae				+		+	+	+	+	+	+		+	+	9	137=
Bactrocera scutellata	Tephritidae				P			P	P	P	P	P		P	P	0	
Bactrocera tsuneonis	Tephritidae							++	++		++				++	8	151=
Basiprionota bisignata	Chrysomelidae	P		P		P	P	P	P	P	P					0	
Batocera rubus	Cerambycidae								+	+	+	+			+	5	194=
Bemisia giffardi	Aleyrodidae			+	+		+		++			+		+	+	8	151=
Blepephaeus succinctor	Cerambycidae	+		+					+	+	+	+			+	7	170=
Bothrogonia ferruginea	Cicadellidae	+	+	+	+	+	+		+	+		+		+	+	11	115=
Brachycyttarus subteralbatus	Psychidae	P	P	P	P	P	P	P	P	P	P	P		P	P	0	
Brevipalpus californicus	Tenuipalpidae		P	P		P	P				P	P		P	P	0	
Brevipalpus lewisi	Tenuipalpidae	P	P	P	P					P					P	0	
Brevipalpus obovatus	Tenuipalpidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	84=
Buzura suppressaria	Geometridae		+	+	+				++	+	++	++		++		12	103=
Buzura suppressaria benescripta	Geometridae										++	++	++	++		8	151=
Caliothrips fasciatus	Thripidae					+			+			+		+		4	202=
Calyptra lata	Noctuidae	++	++	++	++	++	++		++							14	84=
Calyptra minuticornis	Noctuidae			+						+	+	+		+		5	194=
Calyptra thalictri	Noctuidae			+					+							2	258=
Cania bilinea	Limacodidae	+		+	+				+	+	+	+		+	+	9	137=
Cania sinensis	Limacodidae								+							1	279=

Table 2. (cont'd) Distribution and importance of arthropod pests of citrus in southern China.
中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Cappacea taprobanensis	Pentatomidae						P	P	P	P	P	P		P	P	0	
Carpoglyphus lactis	Carpoglyphidae								+							1	279=
Carposina niponensis	Carposinidae	+	+	+	+	+	+		+					+	+	9	137=
Cassida circumdata	Chrysomelidae			P			P		P		+	+		+	+	4	202=
Cerace stipatana	Tortricidae			+	+			+	+	+				+		6	185=
Ceratovacuna lanigera	Aphididae				+			P	P	+	+	+		+	+	6	185=
Ceresium sinicum	Cerambycidae	P		P	P		P		P	P		P		P	P	0	
Ceroplastes centroroseus	Coccidae					+	+	+								3	240=
Ceroplastes ceriferus	Coccidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	84=
Ceroplastes floridensis	Coccidae	+	+	+	+	+	+		+		+	+		+	+	11	115=
Ceroplastes japonicus	Coccidae	P	+	P	P	P	P	P	P	P	P	P		+	P	2	258=
Ceroplastes pseudoceriferus	Coccidae	P		P	P	P	P	P	P	P	P	P		P		0	
Ceroplastes rubens	Coccidae	+		++	++	+	+	+	++	+	+	+		+	+	15	78=
Cetonia speculifera	Scarabaeidae	+				+	+		+		+	+		+		7	170=
Chalciope mygdon	Noctuidae		+		+	+	+				+	+		+	+	8	151=
Chalcocelis albiguttatus	Limacodidae				P			P		P	P	P		P		0	
Chalcophora japonica	Buprestidae										+			+		2	258=
Chalioides kondonis	Psychidae	++	+++	++	++	++	++	+++	+++	++		++		++	++	27	26=
Chelidonium argentatum	Cerambycidae	++	++	++	++						++	++		++		14	84=
Chelidonium citri	Cerambycidae								++							2	258=
Chelidonium gibbicolle	Cerambycidae	++	++	++								++		++	++	12	103=
Chlorophanus grandis	Curculionidae	+	+		+	+			+			++		++		9	137=
Chlorophanus lineolus	Curculionidae	+	+		+	+			+		++			++	++	11	115=
Chlorophorus annularis	Cerambycidae	P		P				P	P	P	P	P		P	P	0	
Chloropulvinaria aurantii	Coccidae	++		++	++	++	++	+++	+++	++	++	+		++	+	24	37=
Chloropulvinaria floccifera	Coccidae	++	+	++	++	++	++	++	++	++	+	+		++		21	45=
Chloropulvinaria polygonata	Coccidae	++		++	++	++	++	++	++	++		+		++	+	20	51=
Chondracris rosea	Acrididae	P		P	P	P	P		P	P	P	P		P	P	0	

Table 2. (cont'd) Distribution and importance of arthropod pests of citrus in southern China.
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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Chrysochroa fulgidissima	Buprestidae	P	P	P	P			P						P	P	0	
Chrysocoris grandis	Scutelleridae				P			P	P	P	P	P		P	P	0	
Chrysomphalus aonidum	Diaspididae	+		+	+		+	+	++	+	+++	+++	+++	+++	+++	23	40=
Chrysomphalus dictylospermi	Diaspididae	+		+	+	+	+		+	+	++	++	+	++	+	15	78=
Cicada ochracea	Cicadidae										+	+		+	+	4	202=
Cicadella viridis	Cicadellidae	P	P	P	P	P	P		P					P	P	0	
Cleoporus variabilis	Chrysomelidae	P		P	P		P	P	P	P	P	P		P	P	0	
Cletus trigonus	Coreidae	P	P	P			P		P	P	P	P		P	P	0	
Clitea metallica	Chrysomelidae	++		++	++		++		++	++	++	++		++		18	65=
Coccus hesperidum	Coccidae	+		+	+	+	+	++	++	+	+	+	+	+	+	15	78=
Coccus viridis	Coccidae	P		P	P	P	P	P	P	P	P	P		P	P	0	
Coilodera penicillata	Scarabaeidae							P		P	P	P		P	P	0	
Conogethes punctiferalis	Pyralidae	+	+	+	+	+	+	+	+	+	+	+		+	+	13	95=
Contarinia citri	Cecidomyiidae	++		++	++	++	++	+++	+++	++	++	++	++	++	++	28	21=
Coptotermes formosanus	Rhinotermitidae	P	P	+	+	P	P		+		+	+		+	+	7	170=
Corgatha dictaria	Noctuidae	+		+					+							3	240=
Coridius chinensis	Dinidoridae	P	+	P	P		P	P	P	P	+	+		+	P	4	202=
Coridius fuscus	Dinidoridae			P					P	P	P	P		P		0	
Creatonotos gangis	Arctiidae	P		P	P	P	P		P	P	P	P		P	P	0	
Creatonotos transiens	Arctiidae	P	P	P	P	P	P		P	P	P	P		P	P	0	
Cryptotympana atrata	Cicadidae	++	+++	+++	+++		++	+++	+++	++		++		+++	+++	29	19=
Ctenoplusia albostriata	Noctuidae	P	P	P	P	P	P				P	P		P	P	0	
Dactylispa angulosa	Chrysomelidae	P		P				P	P	P	P	P		P	P	0	
Dactylispa excisa	Chrysomelidae		P	P	P	P			P	P	P			P		0	
Dalpada oculata	Pentatomidae							P	P	P	P	P		P		0	
Dalpada smaragdina	Pentatomidae	P	P	P		P	P	P	P	P	P	P		P	P	0	
Dappula tertia	Psychidae			++	++	++	++			++	++	++		++	+	17	67=
Darna ochracea	Limacodidae	P		P	P	P					P	P			P	0	

Table 2. (cont'd) Distribution and importance of arthropod pests of citrus in southern China.
中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Dasychira mendosa	Lymantriidae								P	P	P	P			P	0	
Dialeurodes citri	Aleyrodidae	++		++	+++	++	++		+++			+++		+++	+++	23	40=
Dialeurodes citricola	Aleyrodidae			+			+		+			+				4	202=
Diaphorina citri	Psyllidae			+	+		+	+	+	+	+++	+++	+++	++	+++	20	51=
Dictyophara patruelis	Dictyopharidae	P		P	P	P			P	P		P		P	P	0	
Dictyophara sinica	Dictyopharidae			P		P			P			P		P	P	0	
Diostrombus politus	Derbidae			P		P	P	P	P	P				P	P	0	
Dolycoris baccarum	Pentatomidae	P	+	P	P				P	P				P		1	279=
Drosicha contrahens	Margarodidae	P		P			P		P	P		P		P	P	0	
Drosicha corpulenta	Margarodidae	+			+		+		+	+				P		5	194=
Dysdercus cingulatus	Pyrrhocoridae								P	P	P	P		P	P	0	
Dysmicoccus brevipes	Pseudococcidae			+	+	+	+	+	+	+	+	+		+	+	11	115=
Dysogonia analis	Noctuidae										+	+		+	+	4	202=
Dysogonia arctotaenia	Noctuidae	+	+	+	+	+	+	+	+	+		+	+	+	+	13	95=
Dysogonia fulvotaenia	Noctuidae	+	+	+	+	+	+			+	+	+		+	+	11	115=
Dysogonia maturata	Noctuidae	+	+	+	+	+	+							+	+	8	151=
Dysogonia praetermissa	Noctuidae				+					+		+			+	4	202=
Dysogonia simillima	Noctuidae											+			+	2	258=
Echinocnemus bipunctatus	Curculionidae		P	P	P	P	P		P		P	P		P	P	0	
Eotetranychus kankitus	Tetranychidae			+	++	+++	+++	+++	+++	+++	++	+				21	45=
Eotetranychus sexmaculatus	Tetranychidae			+	+	++	++	++	++	++	++	+			+	16	72=
Epimactis talantias	Oecophoridae								P					+	+	2	258=
Erebus crepuscularis	Noctuidae	+	+	+	+						+	+	+	++		9	137=
Erebus hieroglyphica	Noctuidae							+	+	+		+				4	202=
Erebus macrops	Noctuidae					P	P			P	P	P		P		0	
Erthesina fullo	Pentatomidae	+	++	++	++	++	++	++	++	++	++	+		++	+	23	40=
Erythroneura sudra	Cicadellidae	P	+	P					+		P	P				2	258=
Eucalymnatus tesselatus	Coccidae								P	P	P	P		P	P	0	

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中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Aleurolobus setigerus	Aleyrodidae							+		+		+			+	4	202=
Aleurolobus szechwanensis	Aleyrodidae								+							1	279=
Aleurotuberculatus aucubae	Aleyrodidae	++		++	+				++		++	++				11	115=
Amrasca biguttula	Cicadellidae	+	+	+	+	+	+	+	+	+	+	+			P	11	115=
Amrasca flavescens	Cicadellidae	++	++	++	++	++	++	++	++	++	++	++		++	+++	27	26=
Amrasca formosana	Cicadellidae									+	+	+			+	4	202=
Amsacta lactinea	Arctiidae	+	+	+	+	+	+		+		+	+		+	+	11	115=
Andaspis hawaiiensis	Diaspididae			P								P		P	P	0	
Anomala corpulenta	Scarabaeidae	++	++	++	++	++			++							12	103=
Anomala cuprea	Scarabaeidae			++	++	++					++	++		++	++	14	84=
Anomala doimiana	Scarabaeidae								+							1	279=
Anomala expansa	Scarabaeidae				P				P		P	P		P	P	0	
Anomala rachypyga	Scarabaeidae	P	P	P	P									P	P	0	
Anomis flava	Noctuidae	+++				++	+++	++	+++		++	++	++	++		21	45=
Anomis fulvida	Noctuidae		+	+	+	+	+		+	+	+	+	+	+		11	115=
Anomis mesogona	Noctuidae		++	++	++	++	++		++		++	++	++	++		20	51=
Anomis saubulifera	Noctuidae			+		+						+			+	4	202=
Anoplocnemis curvipes	Coreidae	P	P	P	P	P	P				P	P		P	P	0	
Anoplocnemis phasiana	Coreidae	P	P	P	P				P	P	P	P		P	P	0	
Anoplophora chinensis	Cerambycidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Anoplophora horsfieldii	Cerambycidae	+		+		+			+	+	+	+		+		8	151=
Anoplophora imitatrix	Cerambycidae	P			P			P	P		P	P		P		0	
Anoplophora malasiaca	Cerambycidae			+			+			+					+	4	202=
Anoplophora versteegii	Cerambycidae							+		+	+	+				4	202=
Anticarsia irrorata	Noctuidae				+					+		+		+		4	202=
Aonidiella aurantii	Diaspididae	++		++	++				+	+	++	++		++	++	16	72=
Aonidiella citrina	Diaspididae	+	+	+	+	+	+	+	+	+	+	+		+	+	13	95=
Aonidiella orientalis	Diaspididae	P		P	P		P		P		P	P		P	P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Aphis craccivora	Aphididae	P	P	P	P	P	P	P	P	P	P	P		P	P	0	
Aphis gossypii	Aphididae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	21=
Aphis spiraecola	Aphididae			++					+++		++	++	+++	++	+	15	78=
Apion collare	Apionidae		P	P	P	P			P	P	P					0	
Apoderus nigroapicatus	Attelabidae	P			P				P	P	P	P		P	P	0	
Apogonia cribricollis	Melolonthidae			P	P	P	P				P	P		P	P	0	
Apomecyna excavaticeps	Cerambycidae	P		P						P	P	P		P	P	0	
Apriona germarii	Cerambycidae	P	P	P	P	P	P		P		P	P		P	P	0	
Araecerus fasciculatus	Anthribidae	P	P		P	P	P	P	P	P	P	P		P	P	0	
Archips asiaticus	Tortricidae	+++	++	+++	+++		+++		+++			+++		+++	+++	26	33=
Archips eucroca	Tortricidae										+	+		+		3	240=
Archips tabescens	Tortricidae								+		+	++		+	++	7	170=
Archips xylosteanus	Tortricidae	+			+	+	+									4	202=
Arcte coerula	Noctuidae					+	+			+	+	+		+	+	7	170=
Aristobia hispida	Cerambycidae	P	P	P	P	P	P		P		P	P		P	P	0	
Aristobia testudo	Cerambycidae									+	+	+		+		4	202=
Aromia bungii	Cerambycidae	+		+	+	+	+		+		+	+		+		9	137=
Artena dotata	Noctuidae		+	+	+	+	+	+		+	+	+	+	+	+	12	103=
Ascotis selenaria	Geometridae	+	+	+	+			+	+		+			+		8	151=
Asota tortuosa	Noctuidae								P	P	P	P			P	0	
Aspidiotus destructor	Diaspididae	+		+		+	+		+	+	+	+		+	+	10	129=
Aspidiotus nerii	Diaspididae	P		P	P	P	P	P	P	P	+	+		P	P	2	258=
Aspidomorpha difformis	Chrysomelidae							P	P			P		P	P	0	
Asterococcus muratae	Cerococcidae							+	+					+		3	240=
Asura strigipennis	Arctiidae	P	P	P	P	P	P		P	P		P		P	P	0	
Athrypsiastis salva	Xylorictidae	P		P					P					P	P	0	
Atractomorpha lata	Acrididae	P		P	P		P		P						P	0	
Atractomorpha sinensis	Acrididae				+	+	+		+		+	+		+	+	8	151=

Table 2. (cont'd) Distribution and importance of arthropod pests of citrus in southern China.
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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Attacus atlas	Saturniidae				+	+			+	+	+	+		+	+	8	151=
Aulacaspis citri	Diaspididae								++	++	++					6	185=
Aulacaspis crawi	Diaspididae	+		+				++	++	++		+		+	+	11	115=
Aulacaspis tubercularis	Diaspididae								P						+	1	279=
Aulacophora femoralis	Chrysomelidae	P	P	P	P	P	P	P			P	P		P	P	0	
Bactrocera dorsalis	Tephritidae						++	++	++	++	++	++	+++	++	+++	20	51=
Bactrocera minax	Tephritidae					+++	+++	+++	++	+++	+++				++	19	58=
Bactrocera occipitalis	Tephritidae											+	+			2	258=
Bactrocera pedestris	Tephritidae				+		+	+	+	+	+	+		+	+	9	137=
Bactrocera scutellata	Tephritidae				P			P	P	P	P	P		P	P	0	
Bactrocera tsuneonis	Tephritidae							++	++		++				++	8	151=
Basiprionota bisignata	Chrysomelidae	P		P		P	P	P	P	P	P					0	
Batocera rubus	Cerambycidae								+	+	+	+			+	5	194=
Bemisia giffardi	Aleyrodidae			+	+		+		++			+		+	+	8	151=
Blepephaeus succinctor	Cerambycidae	+		+					+	+	+	+			+	7	170=
Bothrogonia ferruginea	Cicadellidae	+	+	+	+	+	+		+	+		+		+	+	11	115=
Brachycyttarus subteralbatus	Psychidae	P	P	P	P	P	P	P	P	P	P	P		P	P	0	
Brevipalpus californicus	Tenuipalpidae		P	P		P	P				P	P		P	P	0	
Brevipalpus lewisi	Tenuipalpidae	P	P	P	P					P					P	0	
Brevipalpus obovatus	Tenuipalpidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	84=
Buzura suppressaria	Geometridae		+	+	+				++	+	++	++		++		12	103=
Buzura suppressaria benescripta	Geometridae										++	++	++	++		8	151=
Caliothrips fasciatus	Thripidae					+			+			+		+		4	202=
Calyptra lata	Noctuidae	++	++	++	++	++	++		++							14	84=
Calyptra minuticornis	Noctuidae			+						+	+	+		+		5	194=
Calyptra thalictri	Noctuidae			+					+							2	258=
Cania bilinea	Limacodidae	+		+	+				+	+	+	+		+	+	9	137=
Cania sinensis	Limacodidae								+							1	279=

Table 2. (cont'd) Distribution and importance of arthropod pests of citrus in southern China.
中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Cappacea taprobanensis	Pentatomidae						P	P	P	P	P	P		P	P	0	
Carpoglyphus lactis	Carpoglyphidae								+							1	279=
Carposina niponensis	Carposinidae	+	+	+	+	+	+		+					+	+	9	137=
Cassida circumdata	Chrysomelidae			P			P		P		+	+		+	+	4	202=
Cerace stipatana	Tortricidae			+	+			+	+	+				+		6	185=
Ceratovacuna lanigera	Aphididae				+			P	P	+	+	+		+	+	6	185=
Ceresium sinicum	Cerambycidae	P		P	P		P		P	P		P		P	P	0	
Ceroplastes centroroseus	Coccidae					+	+	+								3	240=
Ceroplastes ceriferus	Coccidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	84=
Ceroplastes floridensis	Coccidae	+	+	+	+	+	+		+		+	+		+	+	11	115=
Ceroplastes japonicus	Coccidae	P	+	P	P	P	P	P	P	P	P	P		+	P	2	258=
Ceroplastes pseudoceriferus	Coccidae	P		P	P	P	P	P	P	P	P	P		P		0	
Ceroplastes rubens	Coccidae	+		++	++	+	+	+	++	+	+	+		+	+	15	78=
Cetonia speculifera	Scarabaeidae	+				+	+		+		+	+		+		7	170=
Chalciope mygdon	Noctuidae		+		+	+	+				+	+		+	+	8	151=
Chalcocelis albiguttatus	Limacodidae				P			P		P	P	P		P		0	
Chalcophora japonica	Buprestidae										+			+		2	258=
Chalioides kondonis	Psychidae	++	+++	++	++	++	++	+++	+++	++		++		++	++	27	26=
Chelidonium argentatum	Cerambycidae	++	++	++	++						++	++		++		14	84=
Chelidonium citri	Cerambycidae								++							2	258=
Chelidonium gibbicolle	Cerambycidae	++	++	++								++		++	++	12	103=
Chlorophanus grandis	Curculionidae	+	+		+	+			+			++		++		9	137=
Chlorophanus lineolus	Curculionidae	+	+		+	+			+		++			++	++	11	115=
Chlorophorus annularis	Cerambycidae	P		P				P	P	P	P	P		P	P	0	
Chloropulvinaria aurantii	Coccidae	++		++	++	++	++	+++	+++	++	++	+		++	+	24	37=
Chloropulvinaria floccifera	Coccidae	++	+	++	++	++	++	++	++	++	+	+		++		21	45=
Chloropulvinaria polygonata	Coccidae	++		++	++	++	++	++	++	++		+		++	+	20	51=
Chondracris rosea	Acrididae	P		P	P	P	P		P	P	P	P		P	P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Chrysochroa fulgidissima	Buprestidae	P	P	P	P			P						P	P	0	
Chrysocoris grandis	Scutelleridae				P			P	P	P	P	P		P	P	0	
Chrysomphalus aonidum	Diaspididae	+		+	+		+	+	++	+	+++	+++	+++	+++	+++	23	40=
Chrysomphalus dictylospermi	Diaspididae	+		+	+	+	+		+	+	++	++	+	++	+	15	78=
Cicada ochracea	Cicadidae										+	+		+	+	4	202=
Cicadella viridis	Cicadellidae	P	P	P	P	P	P		P					P	P	0	
Cleoporus variabilis	Chrysomelidae	P		P	P		P	P	P	P	P	P		P	P	0	
Cletus trigonus	Coreidae	P	P	P			P		P	P	P	P		P	P	0	
Clitea metallica	Chrysomelidae	++		++	++		++		++	++	++	++		++		18	65=
Coccus hesperidum	Coccidae	+		+	+	+	+	++	++	+	+	+	+	+	+	15	78=
Coccus viridis	Coccidae	P		P	P	P	P	P	P	P	P	P		P	P	0	
Coilodera penicillata	Scarabaeidae							P		P	P	P		P	P	0	
Conogethes punctiferalis	Pyralidae	+	+	+	+	+	+	+	+	+	+	+		+	+	13	95=
Contarinia citri	Cecidomyiidae	++		++	++	++	++	+++	+++	++	++	++	++	++	++	28	21=
Coptotermes formosanus	Rhinotermitidae	P	P	+	+	P	P		+		+	+		+	+	7	170=
Corgatha dictaria	Noctuidae	+		+					+							3	240=
Coridius chinensis	Dinidoridae	P	+	P	P		P	P	P	P	+	+		+	P	4	202=
Coridius fuscus	Dinidoridae			P					P	P	P	P		P		0	
Creatonotos gangis	Arctiidae	P		P	P	P	P		P	P	P	P		P	P	0	
Creatonotos transiens	Arctiidae	P	P	P	P	P	P		P	P	P	P		P	P	0	
Cryptotympana atrata	Cicadidae	++	+++	+++	+++		++	+++	+++	++		++		+++	+++	29	19=
Ctenoplusia albostriata	Noctuidae	P	P	P	P	P	P				P	P		P	P	0	
Dactylispa angulosa	Chrysomelidae	P		P				P	P	P	P	P		P	P	0	
Dactylispa excisa	Chrysomelidae		P	P	P	P			P	P	P			P		0	
Dalpada oculata	Pentatomidae							P	P	P	P	P		P		0	
Dalpada smaragdina	Pentatomidae	P	P	P		P	P	P	P	P	P	P		P	P	0	
Dappula tertia	Psychidae			++	++	++	++			++	++	++		++	+	17	67=
Darna ochracea	Limacodidae	P		P	P	P					P	P			P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Dasychira mendosa	Lymantriidae								P	P	P	P			P	0	
Dialeurodes citri	Aleyrodidae	++		++	+++	++	++		+++			+++		+++	+++	23	40=
Dialeurodes citricola	Aleyrodidae			+			+		+			+				4	202=
Diaphorina citri	Psyllidae			+	+		+	+	+	+	+++	+++	+++	++	+++	20	51=
Dictyophara patruelis	Dictyopharidae	P		P	P	P			P	P		P		P	P	0	
Dictyophara sinica	Dictyopharidae			P		P			P			P		P	P	0	
Diostrombus politus	Derbidae			P		P	P	P	P	P				P	P	0	
Dolycoris baccarum	Pentatomidae	P	+	P	P				P	P				P		1	279=
Drosicha contrahens	Margarodidae	P		P			P		P	P		P		P	P	0	
Drosicha corpulenta	Margarodidae	+			+		+		+	+				P		5	194=
Dysdercus cingulatus	Pyrrhocoridae								P	P	P	P		P	P	0	
Dysmicoccus brevipes	Pseudococcidae			+	+	+	+	+	+	+	+	+		+	+	11	115=
Dysogonia analis	Noctuidae										+	+		+	+	4	202=
Dysogonia arctotaenia	Noctuidae	+	+	+	+	+	+	+	+	+		+	+	+	+	13	95=
Dysogonia fulvotaenia	Noctuidae	+	+	+	+	+	+			+	+	+		+	+	11	115=
Dysogonia maturata	Noctuidae	+	+	+	+	+	+							+	+	8	151=
Dysogonia praetermissa	Noctuidae				+					+		+			+	4	202=
Dysogonia simillima	Noctuidae											+			+	2	258=
Echinocnemus bipunctatus	Curculionidae		P	P	P	P	P		P		P	P		P	P	0	
Eotetranychus kankitus	Tetranychidae			+	++	+++	+++	+++	+++	+++	++	+				21	45=
Eotetranychus sexmaculatus	Tetranychidae			+	+	++	++	++	++	++	++	+			+	16	72=
Epimactis talantias	Oecophoridae								P					+	+	2	258=
Erebus crepuscularis	Noctuidae	+	+	+	+						+	+	+	++		9	137=
Erebus hieroglyphica	Noctuidae							+	+	+		+				4	202=
Erebus macrops	Noctuidae					P	P			P	P	P		P		0	
Erthesina fullo	Pentatomidae	+	++	++	++	++	++	++	++	++	++	+		++	+	23	40=
Erythroneura sudra	Cicadellidae	P	+	P					+		P	P				2	258=
Eucalymnatus tesselatus	Coccidae								P	P	P	P		P	P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Eudocima salaminia	Noctuidae	+	+	+	+	+	+			+	+	+		+	+	11	115=
Eumeta minuscula	Psychidae	+++	+++	+++	+++	+++	+++	+++	+++		+++	+++	+++	+++	+++	39	11=
Eumeta variegata	Psychidae	+++	+++	+++	+++			+++	+++	+++				+++	+++	27	26=
Euproctis bipunctapex	Lymantriidae	P		P	P	P	P		P					P	P	0	
Euproctis flava	Lymantriidae	P	P	P	P	P	P		P	P	P	P		P		0	
Euproctis montis	Lymantriidae	P		P	P	P	P		P	P	P	P		P		0	
Euproctis piperita	Lymantriidae	P			P				P			P		P		0	
Euproctis pseudoconspersa	Lymantriidae	+	+	+	+	P	P	+	+	+	+	+		+	+	11	115=
Euproctis pulverea	Lymantriidae	P		P		P			P		P			P	P	0	
Euproctis scintillans	Lymantriidae								P	P	P	P		P	P	0	
Euproctis varians	Lymantriidae	+	+	+	+	p			+		+	+		+	+	9	137=
Euricania facialis	Ricaniidae	P		P	P			P	P			P		P		0	
Euricania ocellus	Ricaniidae	P		+		P	P		P		P	P		P		1	279=
Euryaspis flavescens	Pentatomidae	P	P	P	P	P	P	P						P		0	
Eurypoda antennata	Cerambycidae	P		P	P			P	P						P	0	
Eutetranychus orientalis	Tetranychidae								P		+	+			+	3	240=
Eysarcoris guttiger	Pentatomidae	P		P	P		P	P	P	P	P	P		P	P	0	
Eysarcoris ventralis	Pentatomidae			P	P	P	P	P		P	P	P		P	P	0	
Ferrisia virgata	Pseudococcidae			+		+	+		+	+	+	+		+	+	9	137=
Fiorinia fioriniae	Diaspididae			P	P	P	P		P		P	P		P	P	0	
Fiorinia theae	Diaspididae		+	+		+	+	+	+	+	+	+	+	+	+	12	103=
Frankliniella intonsa	Thripidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Gastrimargus marmoratus	Acrididae	P	P	P	P	P	P		P		P	P		P	+++	3	240=
Geisha distinctissima	Flatidae	P		+	++				++	++	+++	+++		+++		16	72=
Geococcus citrinus	Pseudococcidae													++		2	258=
Gesonula punctifrons	Acrididae	P		P	P				P	P	P	P		P	P	0	
Glaucias crassa	Pentatomidae									+	+	+		+		4	202=
Glycphana fulvistemma	Scarabaeidae	P		P	P				P	P				P		0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Grammodes geometrica	Noctuidae		+	+		+			+		+	+		+	+	8	151=
Grammodes stolida	Noctuidae		P			P	P			P	P	P		P	P	0	
Gryllotalpa orientalis	Gryllotalpidae	P	P	P	P	P	P		P		P	P		P	P	0	
Gryllus bimaculatus	Gryllidae				P					P	P	P		P	P	0	
Halyomorpha picus	Pentatomidae	P	P	P	P	P	P	P	P		P	P			P	0	
Haplosomoides costata	Chrysomelidae			P	P	P		P	P		P	P		P		0	
Haplothrips chinensis	Thripidae	P		P	P	P	P	P	P	P	P	P		P	P	0	
Haplothrips subtillissimus	Thripidae									++		++		++		6	185=
Helicoverpa assulta	Noctuidae	++	+	++	++	++	++	++	++	++	++	++	++	++	++	27	26=
Heliothrips haemorrhoidalis	Thripidae							+	+	+	+	+		+	+	7	170=
Hemiberlesia lataniae	Diaspididae	P				P						P		+	+	2	258=
Hemiberlesia palmae	Diaspididae			P	P		P		P		+	+		+	+	4	202=
Hemiberlesia rapax	Diaspididae		P	P					P	P		P		P	P	0	
Hesperophanes campestris	Cerambycidae								+							1	279=
Hishimonus sellatus	Cicadellidae	++	++	++	++		++		++					++		14	84=
Holotrichia parallela	Scarabaeidae	P	P	P		P	P		P							0	
Holotrichia plumbea	Scarabaeidae	P	P	P	P			P				P		P		0	
Holotrichia sauteri	Scarabaeidae			+	+	+		+				+		+	+	7	170=
Holotrichia sinensis	Scarabaeidae			P	P						P	P		P	P	0	
Homoeocerus striicornis	Coreidae			P	P	P			P	P		P		P	P	0	
Homona coffearia	Tortricidae		+	+			+	+	++	+	++	++		++	++	15	78=
Homona magnanima	Tortricidae	+		+			+	+	+	+	+	+		+	+	10	129=
Hulodes caranea	Noctuidae	+	+	+	+	+	+			+	+	+		+	+	11	115=
Hygia opaca	Coreidae			P	P		P	P	P		P			P		0	
Hypomeces squamosus	Curculionidae	+	+	++	++		+		++	++	++	++		++	++	19	58=
Hypopyra vespertilio	Noctuidae		+			+	+	+		+	+	+	+	+	+	10	129=
Icerya aegyptiaca	Margarodidae	+		+	+		+					+	+	+	+	8	151=
Icerya purchasi	Margarodidae	++	+	++	++	+++	++	++	++	++	++	++	+	++	++	27	26=

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Icerya seychellarum	Margarodidae		+	+	+	+	++	++	++	+	++	++	++	++	++	21	45=
Idioscopus incertus	Cicadellidae									+	+	+		+	+	5	194=
Indarbela dea	Metarbelidae				P	P				P	P	++		+	+	4	202=
Iscadia inexacta	Noctuidae	P	P	P	P	P	P				P	P		P		0	
Ischyja manlia	Noctuidae			+		+	+	+	+	+		+				7	170=
Kolla albomarginata	Cicadellidae	P		P					P			P		P	P	0	
Kophene snelleni	Psychidae			P	P	P	P			P	P	P				0	
Lacera alope	Noctuidae	P	P	P	P			P	P	P				P		0	
Laternaria candeleria	Fulgoridae				+			+		++	+++	+++		+++	P	13	95=
Lawana imitata	Flatidae									++	+++	+++		++	+++	13	95=
Lefroyothrips lefroyi	Thripidae											+		+		2	258=
Lelia decempunctata	Pentatomidae		P	P	P			P	P							0	
Lelia octopunctata	Pentatomidae									+						1	279=
Lema fortunei	Chrysomelidae	P	P	P		P			P		P	P		P	P	0	
Lepidopsyche unicolor	Psychidae					+			+							2	258=
Lepidosaphes beckii	Diaspididae		P	+		+	+		+	+	+	+	+	+	+	10	129=
Lepidosaphes gloverii	Diaspididae	+		+	+	+	+	+	+	+	+	+	+	+	+	13	95=
Lepidosaphes pallida	Diaspididae										+	+		+		3	240=
Lepidosaphes tubulorum	Diaspididae		P	P		P	P		P	P		+		+	+	3	240=
Lepidosaphes ulmi	Diaspididae	+	+	+	+	+	+		+	+	+	+		+	+	12	103=
Leptocorisa acuta	Alydidae			P	P		P	P	P	P	P	P		P	P	0	
Leptocorisa varicornis	Alydidae			P	P			P	P	P	P	P		P	P	0	
Liorhyssus hyalinus	Rhopalidae	P	P	P	P			P	P	P	P	P		P		0	
Lipaphis pseudobrassicae	Aphididae	++		++	++		++		++	++	++	++		++	++	20	51=
Locusta migratoria manilensis	Acrididae	P	P	P	P	P	P		P		P	P		P	P	0	
Lopholoucaspis japonica	Diaspididae	+	+++	+++	+	+	+		+		+	+		++	+	16	72=
Lygocoris lucorum	Miridae	P	P	P	P						P	P		P	P	0	
Mahasena colona	Psychidae	++	+	++	++	+	+	+	++		+	+	+	+	+	17	67=

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Mamestra brassicae	Noctuidae	P		P		P	P	P	P	P	P					0	
Massicus raddei	Cerambycidae	P		P	P				P					P	P	0	
Medythia nigrobilineata	Chrysomelidae	P	P	P	P	P	P		P	P	P			P	P	0	
Megacopta cribraria	Plataspididae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Meimuna opalifera	Cicadidae	P	P	P	P	P			P			P		P		0	
Melanitis leda	Nymphalidae	P	P	P	P	P	P		P	P		P		P		0	
Melanographia flexilineata	Arctiidae	P		P	P	P			P		P	P		P		0	
Menida bengalensis	Pentatomidae	P			P			P			P	P		P		0	
Metonymia glandulosa	Pentatomidae	P			P			P			P	P		P		0	
Metopta rectifasciata	Noctuidae	+	+	+	+	+	+					+		+	+	9	137=
Mimastra cyanura	Chrysomelidae	P		P	P	P	P	P	P	P	P	P		P		0	
Mocis dalosa	Noctuidae	P	P	P	P		P		P		P	P		P	P	0	
Mocis frugalis	Noctuidae									+		+		+	+	4	202=
Mocis undata	Noctuidae	++	++	++	++				++	++	++	++		++	++	20	51=
Mogannia hebes	Cicadidae	P	P	P	P		P		P		P	P		P	P	0	
Monema flavescens	Limacodidae	+++	++	+++	++	++	++	+++	++	++	++	++	++	++	++	31	18
Myzus persicae	Aphididae	+	+	+	+				+	+	+			+	+	9	137
Nadezhdiella cantori	Cerambycidae	++		+++	+++	++	+++	++	+++	++	++	++		+++	++	29	19=
Nagodopsis shirakiana	Limacodidae														+	1	279=
Narosa nitobei	Limacodidae												+		+	2	258=
Nephotettix virescens	Cicadellidae						P	P	P		P	P		P	P	0	
Nezara antennata	Pentatomidae	P	P	P	P		P	P	P	P	P	P		P	P	0	
Nipaecoccus filamentosus	Pseudococcidae			+	+							+			+	4	202=
Nipaecoccus viridis	Pseudococcidae			+	++	+		+	+	+	+++	+++	++	+++	+++	21	45=
Niphona hookeri	Cerambycidae								+		+	+				3	240=
Nirvana pallida	Cicadellidae										+	+		+	+	4	202=
Nirvana suturalis	Cicadellidae									+		+			+	3	240=
Nisia atrovenosa	Meenoplidae	P		P	P		P	P	P			P		P	P	0	

Table 2. (cont'd) Distribution and importance of arthropod pests of citrus in southern China.
中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Notobitus meleagris	Coreidae			P	P				P	P				P	P	0	
Nyctemera adversata	Arctiidae			P	P				P	P	P	P		P	P	0	
Oberea formosana	Cerambycidae				+				+		+	+	+		+	6	185=
Obiphora intermedia	Aphrophoridae			P	P	P	P	P	P	P				P		0	
Octaspidiotus stauntoniae	Diaspididae			P								+			+	2	258=
Odontolabis cuvera	Lucanidae			P	P					P	P	P		P		0	
Odontolabis siva	Lucanidae				P		P			P		P		P	P	0	
Odontotermes formosanus	Termitidae	P	P	+	+	+	+	+	+	+	+	P		+		9	137=
Oedalus infernalis	Acrididae	P	P		P		P								P	0	
Oides decempunctata	Chrysomelidae	P	P	P	P		P	P	P	P	P	P		P		0	
Oliarus apicalis	Cixiidae	P		P	P				P					P		0	
Oligonychus coffeae	Tetranychidae			P	P					P	P	P		P	P	0	
Oncotympana maculaticollis	Cicadidae								+							1	279=
Ophisma gravata	Noctuidae		+			+	+					+				4	202=
Ophiusa coronata	Noctuidae								P	P	P	P		P		0	
Ophiusa indiscriminata	Noctuidae								+	+	+	+				4	202=
Ophiusa tirhaca	Noctuidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	21=
Ophiusa trapezium	Noctuidae									+	+	+		+		4	202=
Ophiusa triphaenoides	Noctuidae	++	++	++	++	++	++		++		++	++			++	20	51=
Oraesia emarginata	Noctuidae	+++		+++		+++	+++		+++		+++	+++	+++	+++		27	26=
Oraesia excavata	Noctuidae		+++	+++	+++	+++	+++		+++	+++	+++	+++	+++	+++	+++	36	13=
Orthezia insignis	Ortheziidae			P				P	P	P	P	P		P	P	0	
Orthopagus splendens	Dictyopharidae	P		P	P			P				P		P	P	0	
Othreis ancilla	Noctuidae											+				1	279=
Othreis fullonia	Noctuidae	+++	+++	+++	+++	+++	+++		+++	+++	+++	+++	+++	+++	+++	39	11=
Oulema oryzae	Chrysomelidae			P	P	P	P	P	P	P	P	P		P	P	0	
Oxya chinensis	Acrididae	P	P			P			P	P	P	P		P	P	0	
Oxya hyla intricata	Acrididae	P		P	P	P	P		P	P	P	P		P	P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Oxya velox	Acrididae	P	P	P	P	P	P	P	P		P	P		P	P	0	
Oxycetonia jucunda	Scarabaeidae	+		+	+		+	+	+	+	+	+		+		10	129=
Oxyodes scrobiculata	Noctuidae									+	+	+		+	+	5	194=
Pandemis cerasana	Tortricidae	P	P	P	P	P	P								P	0	
Panonychus citri	Tetranychidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Panonychus elongatus	Tetranychidae								+			+			+	3	240=
Papilio bianor	Papilionidae	++		++	++	++	++		++	++	++	++		++	++	22	44
Papilio bianor mandschurica	Papilionidae								++			++				4	202=
Papilio demoleus	Papilionidae			++	++	++			++		++	++		++	++	16	72=
Papilio dialis	Papilionidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	84=
Papilio helenus	Papilionidae			+	+	+	+	+	+	+	+	+	+	+	+	12	103=
Papilio machaon	Papilionidae	+++	+++	+++	+++			+++	+++	+++	+++	+++	+++	+++	+++	36	13=
Papilio machaon hippocrates	Papilionidae								++							2	258=
Papilio macilentus	Papilionidae								++							2	258=
Papilio memnon	Papilionidae			++	++	++		++	++	++		++	+	++	++	19	58=
Papilio nephelus chaon	Papilionidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	84=
Papilio paris	Papilionidae		+	++	++	++	++		++		++	++	++	++	++	21	45=
Papilio polytes	Papilionidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Papilio polytes javanus	Papilionidae									++						2	258=
Papilio protenor	Papilionidae			+++	+++	+++	+++		+++			+++		+++	+++	24	37=
Papilio protenor demetrius	Papilionidae											++			++	4	202=
Papilio thaiwanus	Papilionidae								+					++		3	240=
Papilio xuthus	Papilionidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Parabemisia myricae	Aleyrodidae	P	P	P					P			P			P	0	
Parallelia palumba	Noctuidae										+	+				2	258=
Parasa consocia	Limacodidae	++	++	++		++	++		+	++	+	+		+	+	17	67=
Parasa sinica	Limacodidae	+		+	+	+		+	+	+					+	8	151=
Parasaissetia nigra	Coccidae									+	+	+		+	+	5	194=

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Parlatoria camelliae	Diaspididae			+		+	+			+		+		+	+	7	170=
Parlatoria oleae	Diaspididae	P	P	P	P			P	P	P	P	P		P	P	0	
Parlatoria pergandii	Diaspididae	+++		+++	++	++	+++		+++	++	+++	++		++	++	27	26=
Parlatoria proteus	Diaspididae	++	++	++	++	++	++		++	++	++	+	+	++	+	23	40=
Parlatoria theae	Diaspididae	+		+	+	+	+			+		+		+		8	151=
Parlatoria zizyphi	Diaspididae	++		++	++	++	++		++		++	+		++	++	19	58=
Parthenolecanium persicae	Coccidae				+		+			+		P				3	240=
Patanga japonica	Acrididae	P	P	P	P	P			P	P		P		P	P	0	
Patanga succincta	Acrididae			P	P				P	P	P	P		P	P	0	
Philus antennatus	Cerambycidae			+	+		+		+		+	+		+		7	170=
Philus pallescens	Cerambycidae		P		P	P	P		P		P	P		P	P	0	
Phyllocnistis citrella	Gracillaridae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Phyllocoptruta oleivora	Eriophyidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Physauchenia bifasciata	Chrysomelidae	P		P	P	P	P		P	P	P	P		P	P	0	
Pinnaspis aspidistrae	Diaspididae	+	+	+	+	+	+		+	+	+	+		+	+	12	103=
Pinnaspis theae	Diaspididae							+		+				+	+	4	202=
Pinnaspis uniloba	Diaspididae	P		P	P	P	P		P	P	P	P		P	P	0	
Plagiodera versicolora	Chrysomelidae	P	P	P		P		P	P	P		P				0	
Planococcus citri	Pseudococcidae	++		+++		++	++	++	+++	++	++	++		+++	++	25	35=
Planococcus kraunhiae	Pseudococcidae														+	1	279=
Planococcus lilacinus	Pseudococcidae													+	+	2	258=
Platymycteropsis mandarinus	Curculionidae				+	+	+				++	++		++		9	137=
Platypleura kaempferi	Cicadidae	+	+	++	++				++		++	++		++	++	16	72=
Plautia fimbriata	Pentatomidae	P	P	P	P	P	P	P	P	P	P	P		P		0	
Plusiodonta coelonota	Noctuidae	+	+	+	+									+	+	6	185=
Podagricomela nigricollis	Chrysomelidae	++		++	++		++		+++		++	++		++		17	67=
Podagricomela weise	Chrysomelidae	+		++	++	++	++	++	++	++				++		17	67=
Podontia lutea	Chrysomelidae			P	P	P		P	P	P	P	P		P	P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Poecilocoris duraei	Scutelleridae							P	P	P	P	P		P	P	0	
Polygonia c-aureum	Nymphalidae			P	P		P	P	P		P	P			P	0	
Polyphagotarsonemus latus	Tarsonemidae	+		++		+	+	++	++	++	+				++	14	84=
Prionus insularis	Cerambycidae	+	+	+				+	+	+	+				+	8	151=
Priotyrranus closteroides	Cerambycidae	+			+					+	+	+		+	+	7	170=
Psacothea hilaris	Cerambycidae	+	+	+	+	+			+		+	+			+	9	137=
Pseudaeolesthes chrysothrix	Cerambycidae							+								1	279=
Pseudaeolesthes chrysothrix tibetana	Cerambycidae							+								1	279=
Pseudaonidia duplex	Diaspididae	P		P	P	P	P	P	P	P	+	+		+	+	4	202=
Pseudaonidia trilobitiformis	Diaspididae			P	P				P		P	P		P	P	0	
Pseudaulacaspis pentagona	Diaspididae	+	+	+	+	P	P		P	P	P	P		P	P	4	202=
Pseudococcus aonidum	Pseudococcidae	+	+	+	+						+	+		+	+	8	151=
Pseudococcus calceolariae	Diaspididae	++		++	++	++	++	++	++	++	++	++		++	++	24	37=
Pseudococcus citriculus	Pseudococcidae	++		++	++	++	++	++	++	++	++	++	++	++	++	26	33=
Pseudococcus comstocki	Diaspididae	+		+	+	+	+	+	+	+	+	+		+	+	12	103=
Pseudococcus maritimus	Diaspididae										P	P		P	P	0	
Psylla citricola	Psyllidae									+						1	279=
Psylla coccinea	Psyllidae														+	1	279=
Pulvinaria citricola	Coccidae	+		+	+		+		+	+				+		7	170=
Pulvinaria psidii	Coccidae			++	++	++	++		++	++	++	+		++	++	19	58=
Quadraspidiotus perniciosus	Diaspididae	P	P	P	P	P	P		P	P	+	+	+	+	+	5	194=
Recilia dorsalis	Cicadellidae	+	+	+	+	+	+	+	+		+	+		+	+	12	103=
Redoa alba	Lymantriidae	P	P	P	P	P		P	P	P	P	P		P		0	
Rhomborrhina fulvopilosa	Scarabaeidae		P		P			P	P	P	P	P				0	
Rhomborrhina japonica	Scarabaeidae	P		P	P			P	P					P		0	
Rhomborrhina resplendens	Scarabaeidae									+	+			+	+	4	202=
Rhomborrhina unicolor	Scarabaeidae			P	P			P	P	P	P	P		P	P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Rhynchocoris humeralis	Pentatomidae	+		++	++	++	++	++	++	++	++	++	++	++	++	25	35=
Rhynchocoris nigridens	Pentatomidae							P		+		+				2	258=
Rhytia hypermnestria	Noctuidae									+	+	+				3	240=
Ricania japonica	Ricaniidae			P	P		P				P	P		P	P	0	
Ricania simulans	Ricaniidae			P	P				P		P	P		P	P	0	
Ricania speculum	Ricaniidae	P	P	P	P	P	P		+	P	P	P		P	P	1	279=
Ricania taeniata	Ricaniidae	P		P	P	P		P			P	P				0	
Riptortus clavatus	Alydidae	P	P	P			P		P	P				P		0	
Riptortus linearis	Alydidae	P	P	P	P	P	P	P	P	P	P	P	P		P	0	
Riptortus pedestris	Alydidae	P	P	P	P	P			P	P	P			P	P	0	
Rondibtlis chengluensis									+							1	279=
Saissetia citricola	Coccidae			++			++		++			++				8	151=
Saissetic coffeae	Coccidae	++		++	++			++	++	++	++	+		++	++	19	58=
Saissetia oleae	Coccidae	++							++	++	++	++		++	++	14	84=
Salurnis marginellus	Flatidae	+	+	+	+				+			++		++		9	137=
Samia cynthia	Saturniidae	+		+	+				+		+	+		+	+	8	151=
Scirtothrips dorsalis	Thripidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Scotinophara lurida	Pentatomidae	P	P	P	P	P	P	P	P	P	P	P		P	P	0	
Scutellera perplexa	Scutelleridae							P	+	P						1	279=
Selenothrips rubrocinctus	Thripidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	21=
Serrodes campana	Noctuidae	P		P	P									P		0	
Serrognathus titanus	Lucanidae	P		P	P			+	P	P	P	P		P	P	1	279=
Setora sinensis	Limacodidae	P	P				P				P	P		P	P	0	
Solenosthedium chinensis	Scutelleridae				P			P			P	P		P	P	0	
Sphrageidus similis	Lymantriidae	P	P	P	P	P	P	P	P	P	P				P	0	
Spilarctia subcarnea	Arctiidae	P	P	P	P	P	P		P		P	P		P	P	0	
Spirama retorta	Noctuidae	+	+	+	+	+	+		+	+	+	+		+	+	12	103=
Spodoptera litura	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	84=
Sybra punctatostriate	Cerambycidae		P		P	P	P					P		P	P	0	

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Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Sympiezomias citri	Curculionidae		+	+	+	++	++				++	++		++		13	99=
Sympiezomias cribricollis	Curculionidae														+	1	279=
Sympiezomias lewisi	Curculionidae	+		+	+	+			+		+	+		+		8	151=
Sympis rufibasis	Noctuidae				+					+		+				3	240=
Sypnoides simplex	Noctuidae	P	P	P	P	P	P					P				0	
Tachardina theae	Keriidae	P	P	P	P	P	P		P	P	P	P	P	P	P	0	
Taiwania versicolor	Chrysomelidae			P	P	P	P	P	P	P	P	P		P	P	0	
Takahashia japonica	Coccidae	P		P	P				P			P		P	P	0	
Tambinia debilis	Tropiduchidae		P	P							P	P		P	P	0	
Tarbinskiellus portentosus	Gryllidae			P	P		P		+	P	+	++		++	++	8	151=
Tartessus ferrugineus	Cicadellidae										+	+		+	+	4	202=
Teleogryllus testaceus	Gryllidae	P	P	P	P		P		P		P	P			P	0	
Terthron albovittatum	Delphacidae	P	P	P						P		P		P	P	0	
Tessaratoma papillosa	Tessaratomidae				P			P	P	P	+	+		+	+	4	202=
Tessaratoma quadrata	Tessaratomidae								P	P	P	P		P		0	
Tetranychus cinnabarinus	Tetranychidae	+	+	+	+	+	+		+	+	+	+		+	+	12	103=
Tetranychus urticae	Tetranychidae	P		P	P	P	P	P	P	P	P	P		P	P	0	
Thlaspida biramosa japonica	Chrysomelidae	P	P	P		P	P	P	P	P	P	P		P	P	0	
Thosea sinensis	Limacodidae	+	+	+	+	+	+	+	+	+	+	+		+	+	13	95=
Thrips andrewsi	Thripidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Thrips coloratus	Thripidae	P		P		P	P	P	P	P	P	P		P	P	0	
Thrips flavidulus	Thripidae					P	P	P	P	P	P	++		++	P	4	202=
Thrips flavus	Thripidae							P		P	+	+		+	+	4	202=
Thrips hawaiiensis	Thripidae	P	P	+	+	+	+	+	+	+	+	+		+	+	11	115=
Thrips tabaci	Thripidae		+	+					+		P	P		+	P	4	202=
Throscoryssa citri	Chrysomelidae										+	+		+		3	240=
Thyas juno	Noctuidae	+	+	+		+	+	+	+			+	+	+		10	129=
Tiracola plagiata	Noctuidae			P					P	P				P	P	0	
Toxoptera aurantii	Aphididae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Toxoptera citricida	Aphididae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Toxoptera odinae	Aphididae	P		P	P		P		P	P		P		P	P	0	

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中国南方柑桔有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Trabala vishnou	Lasiocampidae	P	P	P	P	P	P		P	P				P	P	0	
Trachylophus sinensis	Cerambycidae			P					P		P	P		P	P	0	
Trigonodes hyppasia	Noctuidae				+	+			+		+	+		+		6	185=
Trilophidia annulata	Acrididae	P	P	P	P					P		P		P		0	
Trirachys orientalis	Cerambycidae	+		+					+			+		+	+	6	185=
Unaspis citri	Diaspididae			P		P			P		+	P			P	1	279=
Unaspis yannonensis	Diaspididae	+++	++	+++	+++	+++	+++	+++	+++	+++	++	++	+	++	++	35	16
Xestia c-nigrum	Noctuidae	++	++	++	++			++	++	++				++	++	18	65=
Xylophylla punctifascia	Noctuidae	P	P	P	P			P	P	P		P				0	
Xylotrechus chinensis	Cerambycidae	P	P	P		P			P			P				0	
Zeuzera coffeae	Cossidae		+	+	+				+			+		+	+	7	170=

489 species

187 with 0

Table 3. Distribution and importance of arthropod pests of cotton in southern China.
中国南方棉花有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acrida cinerea	Acrididae	+	+	+	+	+	+	+	+	+	+		+			11	13=
Adelphocoris lineolatus	Miridae	++	+	++	+	+	+		+							9	18
Adelphocoris suturalis	Miridae	+++	++	+++	++	++	++		++							16	11
Adoxophyes orana	Pyralidae	+	+	+	+	+	+		+							7	19=
Agrotis ipsilon	Noctuidae	++	++	++	++	++	++	++	++	++	++		+			21	8
Agrotis segetum	Noctuidae	++	+	P	P	P	P	P	P	+	+					5	22=
Agrotis tokionis	Noctuidae	+	+	+	+	+	+	+	+	+	+		+			11	13=
Amrasca biguttula	Cicadellidae	+	++	+	+++	+++	+++	++	+++	++	++		++			24	5=
Anomis flava	Noctuidae	++	++	++	++	++	++	++	++	+	+		+			19	9=
Aphis gossypii	Aphididae	+++	+++	+++	+++	+++	+++	++	+++	++	++		++			29	1=
Ascotis selenaria	Geometridae	+		+												2	30=
Autographa nigrisigna	Noctuidae	+	+	+	+	+	+	+	+	+	+		+			11	13=
Bemisia tabaci	Aleyrodidae	P				P				++	+		+			4	24=
Chlamydatus pullus	Miridae	P														0	
Dysdercus cingulatus	Pyrrhocoridae								P	++	+					3	27=
Earias cupreoviridis	Noctuidae	++	++	++	++	++	++	++	++	+	+		+			19	9=
Earias insulana	Noctuidae									+++	++		++			7	19=
Earias vittella	Noctuidae	+	+	+	+	+	+	+	+	++	++		++			14	12
Frankliniella intonsa	Thripidae	+	+	+	+	+	+	+	+	+	+					10	17
Helicoverpa armigera	Noctuidae	+++	+++	+++	+++	+++	+++	++	+++	++	++		++			29	1=
Hypomeces squamosus	Curculionidae	+	+	+		+										4	24=
Lygocoris lucorum	Miridae	+++	++	+++	++	++	++	++	++	++	++					22	7
Mamestra brassicae	Noctuidae			+						+	+					3	27=
Ostrinia furnacalis	Pyralidae	+++	++	+++	++	++	++	++	++	++	++		++			24	5=
Pectinophora gossypiella	Gelechiidae	+++	+++	+++	+++	+++	+++	++	+++	++	++		++			29	1=
Phytoscaphus gossypii	Curculionidae	++		++	+											5	22=
Smyntherodes betae	Aphididae	P				P										0	
Spodoptera litura	Noctuidae	+	+	+	+	+	+	+	+	+	+		+			11	13=

Table 3. (cont'd) Distribution and importance of arthropod pests of cotton in southern China.
中国南方棉花有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Sympiezomias velatus	Curculionidae	+		+												2	30=
Teleogryllus testaceus	Gryllidae	+	+	+	+	+			+				+			7	19=
Tetranychus cinnabarinus	Tetranychidae	+++	+++	+++	+++	+++	+++	++	+++	++	++		++			29	1=
Xanthodes graellsi	Noctuidae					++				+	+					4	24=
Xanthodes malvae	Noctuidae				+	+	+									3	27=
Xanthodes transversa	Noctuidae				+	+										2	30=
Zeuzera coffeae	Cossidae	P		P	P	P			P							0	

35 species

3 with 0

Table 4. Distribution and importance of arthropod pests of fruit (except citrus and tropical fruits) in southern China.
(For host trees attacked see key at end of table)
中国南方果树（柑桔和热带果树除外）有害节肢动物的分布及重要性（危害树种见表尾附注编号）

Pest	Family	Host	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acrida cinerea	Acrididae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Adoretus sinicus	Scarabaeidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Adoxophyes orana fasciata	Tortricidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Aeolesthes holosericea	Cerambycidae	6, 7, 9	P	P	P	P	P	P	+	+	+	+	+	+	+	+	8	59=
Aleurocanthus spiniferus	Aleyrodidae	7, 8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Amrasca flavescens	Cicadellidae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Anomala corpulenta	Scarabaeidae	1	+	+	+	+	+	+	+	+	+	++	++	++	+	+	17	4=
Anomala cuprea	Scarabaeidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Anoplophora chinensis	Cerambycidae	1	+	+	++	++	+	+	++	++	++	++	++	++	++	++	24	1
Aonidiella aurantii	Diaspididae	7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Aphis gossypii	Aphididae	2, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Apriona germarii	Cerambycidae	1	+	+	+	+	+	+	+	++	+	++	++	++	+	+	18	2=
Aromia bungii	Cerambycidae	2, 6, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Bacchisa fortunei	Cerambycidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Batocera horsfieldi	Cerambycidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Bothrogonia ferruginea	Cicadellidae	6, 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Caliothrips fasciatus	Thripidae	6-9	P	P	P	P	+	+	P	P	P	P	+	+	+	P	5	66
Ceroplastes japonicus	Coccidae	6, 10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Ceroplastes rubens	Coccidae	6, 10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Chlorophanus grandis	Curculionidae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Chrysocoris grandis	Scutelleridae	7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Chrysomphalus aonidum	Diaspididae	7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Cicadella viridis	Cicadellidae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Conogethes punctiferalis	Pyralidae	6	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Cryptotympana atrata	Cicadidae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Cydia molesta	Tortricidae	6, 7	+	++	++	+	++	+	+	+	+	++	+	+	+	+	18	2=
Ectomyelois pyrivorella	Pyralidae	6, 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=

Table 4. (cont'd) Distribution and importance of arthropod pests of fruit (except citrus and tropical fruits) in southern China. (For host trees attacked see key at end of table)
中国南方果树（柑桔和热带果树除外）有害节肢动物的分布及重要性（危害树种见表尾附注编号）

Pest	Family	Host	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Erthesina fullo	Pentatomidae	2, 6-8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Eumeta minusca	Psychidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Eumeta variegata	Psychidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Euproctis scintillans	Lymantriidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Geisha distinctissima	Flatidae	2, 6, 7, 9, 10	P	P	P	+	P	P	+	+	+	+	+	+	+	+	9	58
Gryllus bimaculatus	Gryllidae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Halyomorpha picus	Pentatomidae	1, 4, 6, 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Heliothrips haemorrhoidalis	Thripidae	2, 6, 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Holochlora japonica	Tettigoniidae	2, 6, 7, 9	P	P	P	P	P	P	+	+	+	+	+	+	+	+	8	59=
Holotrichia spp.	Scarabaeidae	1	P	P	P	P	P	P	+	+	+	+	+	+	+	+	8	59=
Hypomeces squamosus	Curculionidae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Icerya purchasi	Margarodidae	6-8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Icerya seychellarum	Margarodidae	6, 7	P	P	P	+	P	P	P	P	P	+	+	+	+	+	6	64=
Janus piri	Cephidae	7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Lepidosaphes gloverii	Diaspididae	2, 6, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Linda atricornis	Cerambycidae	6, 7, 9	P	P	P	P	P	P	P	+	+	+	+	+	+	+	7	62=
Linda fraterna	Cerambycidae	6, 7, 9	P	P	+	+	P	P	P	P	P	+	+	+	+	+	7	62=
Megacopta cribraria	Plataspididae	6-8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Monema flavescens	Limacodidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Myzus persicae	Aphididae	2, 3, 6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Nezara viridula	Pentatomidae	6, 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Nipaecoccus viridis	Pseudococcidae	6, 9	+	+	+	+	+	+	+	+	+	++	+	++	+	++	17	4=

Table 4. (cont'd) Distribution and importance of arthropod pests of fruit (except citrus and tropical fruits) in southern China.
(For host trees attacked see key at end of table)
中国南方果树（柑桔和热带果树除外）有害节肢动物的分布及重要性（危害树种见表尾附注编号）

Pest	Family	Host	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Odontotermes formosanus	Termitidae	7, 9	P	P	P	P	P	P	+	+	+	+	+	++	+	++	10	57
Parasa consocia	Limacodidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Parlatoria pergandii	Diaspididae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Parlaloria proteus	Diaspididae	6-9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Planococcus citri	Pseudococcidae	2, 5-7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Pseudaulacaspis pentagona	Diaspididae	2, 6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Ptosima chinensis	Buprestidae	6, 9	P	P	+	+	+	+	+	+	+	+	+	+	+	+	12	56
Quadraspidiotus perniciosus	Diaspididae	2, 6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Rhynchites confragosicollis	Curculionidae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Rhynchites foveipennis	Curculionidae	6, 7, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Sphrageidus similis	Lymantriidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Stephanitis nashi	Tingidae	6, 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Tarbinskiellus portentosus	Gryllidae	6, 8, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Tetranychus cinnabarinus	Tetranychidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=
Toxoptera citricida	Aphididae	6, 7, 8	+	+	+	+	+	+	+	+	+	++	++	++	+	+	17	4=
Xylotrechus chinensis	Cerambycidae	7, 9	P	P	P	P	P	P	+	+	+	+	+	+	P	P	6	64=
Xystrocera globosa	Cerambycidae	6, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	7=

66 species

Key to host trees

1	all fruit trees	所有果树	5	mulberry	桑椹	9	plum	李
2	apricot	杏	6	peach	桃	10	red bayberry (*Myrica rubra*)	杨梅
3	cherry	樱桃	7	pear	梨			
4	haw	山楂	8	persimmon	柿			

Table 5. Distribution and importance of arthropod pests of edible-leaf vegetables in southern China. (brassicas, chives, lettuce, onion, spinach, water spinach)
中国南方叶菜类（十字花科、葱、莴苣、洋葱、菠菜、空心菜)有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Agrius convolvuli	Sphingidae		P	P		P	P			P		P			P	0	
Agrotis ipsilon	Noctuidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Agrotis segetum	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Agrotis tokionis	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Amsacta lactinea	Arctiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Anomala corpulenta	Scarabaeidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Athalia rosae japanensis	Tenthredinidae	P	P	P					P	P	P			P	P	0	
Atractomorpha sinensis	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Brachmia macroscopa	Gelechiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Bradysia odoriphaga	Sciaridae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Brevicoryne brassicae	Aphididae	P		P		P				P					P	0	
Chromatomyia horticola	Agromyzidae	+	+	+	+	+	+	+	+	+	++	++	++	++	++	19	12=
Chrysodeixis agnata	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Cifuna locuples	Lymantriidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Colaphellus bowringii	Chrysomelidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Delia platura	Anthomyiidae	+	+	P					P					P	P	2	43=
Entomoscelis orientalis	Chrysomelidae	P		P		P					P					0	
Eurydema dominulus	Pentatomidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Frankliniella intonsa	Thripidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Gesonula punctifrons	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Graphosoma rubrolineata	Pentatomidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Helicoverpa assulta	Noctuidae	+++	+++	+++	+++	+++	+++	++	++	++	++	++	++	++	++	34	5=
Hellula undalis	Pyralidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	8=
Holotrichia morosa	Scarabaeidae	P	P	P		P	P		P							0	
Lipaphis pseudobrassicae	Aphididae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	8=
Liriomyza brassicae	Agromyzidae														+	1	45
Liriomyza bryoniae	Agromyzidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Liriomyza chinensis	Agromyzidae	P	P	+	P	+	P	+	P	P	+	+	+	+	+	8	41
Liriomyza sativae	Agromyzidae	++	++	++	++	++	++	+	++		+++	+++	+++	+++		27	11

Table 5. (cont'd) Distribution and importance of arthropod pests of edible-leaf vegetables in southern China. (brassicas, chives, lettuce, onion, spinach, water spinach)
中国南方叶菜类（十字花科、葱、莴苣、洋葱、菠菜、空心菜)有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Mamestra brassicae	Noctuidae			P		P			P							0	
Mythimna separata	Noctuidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Myzus persicae	Aphididae	+++	+++	+++	++	+++	++	+++	+++	++	++	++	++	++	++	34	5=
Phaedon brassicae	Chrysomelidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Phyllotreta rectilineata	Chrysomelidae	+	P	P	+	+	+	+	+	P	+	+	+	+	P	10	40
Phyllotreta striolata	Chrysomelidae	++	++	++	+++	+++	++	+++	++	+++	+++	+++	+++	++	++	35	4
Pieris brassicae	Pieridae								+						+	2	43=
Pieris canidia	Pieridae	+	+	+	+	++	++	+	+	+	++	++	++	+	+	19	12=
Pieris rapae	Pieridae	++	++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	40	3
Plutella xylostella	Yponomeutidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Polyphagotarsonemus latus	Tarsonemidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Spilarctia obliqua	Arctiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Spilarctia subcarnea	Arctiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Spilosoma lubricipeda	Arctiidae	P	P	P	P			P	P	P				P		0	
Spilosoma punctaria	Arctiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Spodoptera exigua	Noctuidae	+++	+++	+++	+++	+++	+++	++	++	+	++	++	+	++	+	31	7
Spodoptera litura	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Theretra silhetensis	Sphingidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Thrips alliorum	Thripidae	+	P	P	+	P	P	+	P	P	+	+	P	+	P	6	42
Thrips flavidulus	Thripidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Thrips flavus	Thripidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Thrips hawaiiensis	Thripidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Thrips tabaci	Thripidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	8=
Thysanoplusia orichalcea	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Trialeurodes vaporariorum	Aleyrodidae	P	P		P	P			P		P	P		P	P	0	
Trichoplusia ni	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=
Tropidothorax elegans	Lygaeidae	P		P	P											0	
Uroleucon formosanus	Aphididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	14=

57 species

12 with 0

Table 6. Distribution and importance of arthropod pests of maize in southern China.
中国南方玉米有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Acanthocoris dilatatus	Coreidae			P	P	P		P	P			P				0	
Acanthocoris unipunctatus	Coreidae	P		P	P	P			P	P		P		P	P	0	
Acrida cinerea	Acrididae	++	++	+	++		+				+	+		+	+	12	23=
Adelphocoris fasciaticollis	Miridae	P	P	P	P	P	P									0	
Adelphocoris lineolatus	Miridae	P	P	P	P	P	P		P							0	
Adoretus sinicus	Scarabaeidae	P		P	P	P	P					P		P	P	0	
Agonoscelis nubila	Pentatomidae			P	P						P	P		P		0	
Agriotes fusicollis	Elateridae					+										1	62=
Agrotis ipsilon	Noctuidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Agrotis segetum	Noctuidae	+++	+++	+	++	++	+		++						+	15	16
Agrotis tokionis	Noctuidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	6
Ahasverus advena	Silvanidae	P		P	P		P	P	P	P	P	P		P		0	
Aiolopus thalassinus	Acrididae	++	++		++	++			++		++	++		++	++	18	10=
Amrasca biguttula	Cicadellidae	P	P	P	P	P	P			P	P	P		P	P	0	
Amsacta lactinea	Arctiidae	P	P	P	P	P	P	P	P		P	P		P	P	0	
Anomala corpulenta	Scarabaeidae	++	++	P	+	+	+		+					+		9	33=
Aracerus fasciculatus	Anthribidae	P	P		P	P	P	P	P	P	P	P			P	0	
Atractomorpha crenulata	Acrididae										+					1	62=
Atractomorpha lata	Acrididae	+		+	+		+		+						+	6	50=
Atractomorpha sinensis	Acrididae	++	++	+	+	++	++				+	+		+	+	14	17=
Blattella germanica	Blattellidae	P	P	P	P	P	P	P		P	P	P	P	P	P	0	
Caedicia thymifolia	Tettigoniidae	P		P					P					P	P	0	
Calliptamus abbreviatus	Acrididae	P	P	P	P	P			P			P				0	
Callitettix versicolor	Cercopidae			+	++	+	+	++	++					+		10	29=
Catantops pinguis	Acrididae	P		P	P	P				P		P	P	P	P	0	
Ceracris kiangsu	Acrididae	+		+	+	+	+		+		+	+		+		9	33=
Ceracris nigricornis lata	Acrididae			P	P				P			P			P	0	

Table 6. (cont'd) Distribution and importance of arthropod pests of maize in southern China.
中国南方玉米有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Ceroplastes rusci	Coccidae														+	1	62=
Cetonia brevitarsis	Scarabaeidae	+	+	P	P	P			P	P				P	P	2	59=
Cetonia speculifera	Scarabaeidae	P				P	P		P			P		P		0	
Chilo auricilius	Pyralidae	P			?	P	P		P		P	P		P	P	0	
Chilo infuscatellus	Pyralidae				P	P			P		P	P		P	P	0	
Chilo sacchariphagus	Pyralidae	+	+		+	P			P		P	P		P	P	3	54=
Chilo suppressalis	Pyralidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Chondracris rosea rosea	Acrididae	P		P	P		P		P		P		P	P	P	0	
Cicadella viridis	Cicadellidae	+++	+++	++	++	++	+		+++					++	++	20	8=
Cifuna locuples	Lymantriidae	P	P	P	P	P	P	P	P	P	P	P		P		0	
Cletus puntiger	Coreidae	P		P	P	P			P			P			P	0	
Cofana spectra	Cicadellidae				P				P			P		P	P	0	
Conocephalus maculatus	Tettigoniidae	P			P	P	P		P	P		P		P		0	
Conogethes punctiferalis	Pyralidae	P	P	P	P	P	P		P	P				P	P	0	
Cryptolestes pusillus	Cucujidae	P	P	P	P	P	P		P		P	P	P	P		0	
Delia platura	Anthomyiidae	P			P	P								P		0	
Dicladispa armigera	Chrysomelidae	P		P	P	P	P	P	P		P					0	
Dictyophara sinica	Dictyopharidae			P	P							P		P	P	0	
Diostrombus politus	Derbidae			P	P		P		P						P	0	
Dolycoris baccarum	Pentatomidae	++	++	+	+	P			+	+				+		9	33=
Empoasca vitis	Cicadellidae	++	++		P	+	+		+		+	+		+	+	11	27=
Epacromius coerulipes	Acrididae	+	++		+											4	51=
Epicauta chinensis	Meloidae	P	P	P					P						P	0	
Epicauta gorhami	Meloidae	P		P	P	P	P		P		P	P		P		0	
Eumeta variegata	Psychidae	++	+++	+	+	+	+		+	+		+		+	+	14	17=
Euproctis pseudoconspersa	Lymantriidae	P	P	P	P	P	P	P	P		P	P		P	P	0	
Euproctis scintillans	Lymantriidae				P				P	P	P	P		P	P	0	
Euryaspis flavescens	Pentatomidae		P	P	P			P						P		0	

Table 6. (cont'd) Distribution and importance of arthropod pests of maize in southern China.
中国南方玉米有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Eysarcoris guttiger	Pentatomidae	P		P	P	P		P	P		P	P		P	P	0	
Eysarcoris montivagus	Pentatomidae	P		P					P	P	P	P		P		0	
Eysarcoris ventralis	Pentatomidae			P	P	P		P	P		P	P		P		0	
Gastrimargus marmoratus	Acrididae		+	+	+	+						+		+	+	7	45=
Geisha distinctissima	Flatidae	P		P	P				P		P	P		P	P	0	
Gesonula punctifrons	Acrididae	P		P	P				P		P	P		P	P	0	
Gonista bicolor	Acrididae	P		P	P										P	0	
Gryllotalpa orientalis	Gryllotalpidae	+++	+++	+++	+++	+++	+++	++	+++	++	++	+++		+++	++	35	4
Gryllotalpa unispina	Gryllotalpidae	+++	+++			++										8	38=
Haplothrips aculeatus	Phlaeothripidae	P		P	P	P	P		P			P		P	P	0	
Haplotropis brunneriana	Acrididae	+	++	P		P										3	54=
Helicoverpa armigera	Noctuidae	+++	+++	++	+++	+++	++	++	+++	++	++	++	++	++	++	33	5
Helicoverpa assulta	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	17=
Hieroglyphus annulicornis	Acrididae	+	+	+	+	+	+				+	+		+	+	10	29=
Hieroglyphus tonkkinensis	Acrididae				P	P					P	P		P		0	
Holotrichia oblita	Scarabaeidae	+++	+++	P	+											7	45=
Hypomeces squamosus	Curculionidae			P	P	P			P		P	P		P	P	0	
Laodelphax striatella	Delphacidae	+	+	+	+	+	+	+	+	+	+	+		+		12	23=
Leptocorisa acuta	Coreidae			P	P			P	P	P	P	P		P	P	0	
Leptocorisa varicornis	Coreidae	P	P	P	P	P				P	P	P		P		0	
Liorhyssus hyalinus	Rhopalidae	P	P		P	P		P	P	P	P	P				0	
Locusta migratoria manilensis	Acrididae	+++	+++	+	++	+++	+		+		+	+		+	+	18	10=
Lophocateres pusillus	Trogossitidae									P	P	P		P		0	
Lygocoris lucorum	Miridae	P	P	P	P	P	P		P					P		0	
Lygus pratensis	Miridae		P			P			P					P		0	
Macrosteles quadrilineatus	Cicadellidae	+		+	+	+		+				+		+	+	8	38=
Maladera orientalis	Scarabaeidae	+	+	P	P				P						P	2	59=
Mamestra brassicae	Noctuidae	++	++	P			P		P							4	51=

Table 6. (cont'd) Distribution and importance of arthropod pests of maize in southern China.
中国南方玉米有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Mecopoda elongata	Tettigoniidae	P		P	P		P		P		P	P		P		0	
Medythia nigrobilineata	Chrysomeidae			P	P	P	P							P	P	0	
Megarrhamphus truncatus	Pentatomidae	P			P					P	P	P		P		0	
Melanaphis sacchari	Aphididae	+	+	P		P								P	P	2	59=
Menida bengalensis	Pentatomidae				P					P	P	P		P		0	
Menida violacea	Pentatomidae	P		P	P				P			P			P	0	
Micraspis discolor	Coccinellidae					P	P		P	P	P	P		P		0	
Monolepta hieroglyphica	Chrysomelidae				P	P			P						P	0	
Mythimna loreyi	Noctuidae				+	+	+		+		+	+	+	+	+	9	33=
Mythimna separata	Noctuidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Mythimna venalba	Noctuidae				+				+					+		3	54=
Naranga aenescens	Noctuidae	P		P	P	P		P	P	P	P	P	P	P	P	0	
Nephotettix cinctipes	Cicadellidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Nezara viridula	Pentatomidae	P	P	P	P	P	P	P	P	P	P	P		P	P	0	
Niphe elongata	Pentatomidae	P		P	P	P	P		P	P	P	P		P	P	0	
Nisia atrovenosa	Meenoplidae	P		P	P		P	P	P			P		P	P	0	
Oedaleus infernalis	Acrididae	++	++	+	+			+	+	+					+	10	29=
Oliarus apicalis	Cixiidae	P		P	P				P					P		0	
Ostrinia furnacalis	Pyralidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Oxya chinensis	Acrididae	++		++	++	++	++		++	++	++	++		++		20	8=
Oxya hyla intricata	Acrididae	P		P	P	P	P		P		P	P		P	P	0	
Oxya velox	Acrididae	+	+	+	+	+	+	+	+		+	+		+	+	12	23=
Parasa consocia	Limacodidae	P	P	P	P	P	P		P	P	P	P		P	P	0	
Patanga japonica	Acrididae	+	+	+	+	+			+	+	+	+		+	+	11	27=
Patanga succincta	Acrididae			+	+				+		+	+		+	+	7	45=
Phalera combusta	Notodontidae				P	P				P				P	P	0	
Phyllotreta striolata	Chrysomelidae	P		P			P	P	P			P		P	P	0	
Piezodorus hybneri	Pentatomidae	P		P	P	P			P		P	P		P		0	

Table 6. (cont'd) Distribution and importance of arthropod pests of maize in southern China.
中国南方玉米有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Pleonomus canaliculatus	Elateridae	+	+			+										3	54=
Pleuroptya chlorophanta	Pyralidae	P	P						P					P	P	0	
Poeoilophilides rusticola	Scarabaeidae	P	P		P				P							0	
Psalis pennatula	Lymantriidae				P				P	P	P				P	0	
Pseudococcus comstocki	Psuedococcidae				P						P	P				0	
Ptinus fur	Ptinidae	P	P	P	P		P		P							0	
Reticulotermes speratus	Rhinotermitidae				P								P	P	P	0	
Rhopalosiphum maidis	Aphididae	++		P	++										P	4	51=
Rhopalosiphum padi	Aphididae	+		+	+				+			+		+	+	7	45=
Ricania taeniata	Ricaniidae	P		P	P							P			P	0	
Riptortus linearis	Rhopalidae	P		P	P				P	P	P	P		P	P	0	
Riptortus pedestris	Rhopalidae	P	P	P	P	P			P	P				P	P	0	
Salurnis marginellus	Flatidae	P		P	P				P			P		P		0	
Scotinophara lurida	Pentatomidae	P	P	P	P	P	P	P	P		P	P		P	P	0	
Sesamia calamistis	Noctuidae	P		P							P	P			P	0	
Sesamia inferens	Noctuidae	+	P	++	++	++	++	++	++	++	++	++	++	++	++	25	7
Shirakiacris shiraki	Acrididae				+											1	62=
Sitobion avenae	Aphididae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Sitophilus zeamais	Curculionidae		++	++	++	++	++				++	++		++		16	12=
Sitotroga cerealella	Gelechiidae	++	++	+	+	++	+		++	+	+	+		+	+	16	12=
Sogatella furcifera	Delphacidae	+	+	+	+	+	+	+	+	+	+	+		+	+	13	22
Spilarctia obliqua	Arctiidae	P			P				P	P		P		P		0	
Spilosoma subcarnea	Arctiidae	P		P	P	P			P	P		P		P	P	0	
Spodoptera exigua	Noctuidae	+++		++		++				+	++	++		++	++	16	12=
Spodoptera litura	Noctuidae	+	+	+	+	+	+		+	+	+	+		+	+	12	23=
Spodoptera mauritia	Noctuidae	P		P	P					P	P	P		P	P	0	
Spoladea recurvalis	Pyralidae				P				P	P		P		P	P	0	
Stenchaetothrips biformis	Thripidae	P			P	P		P	P	P	P	P		P	P	0	

Table 6. (cont'd) Distribution and importance of arthropod pests of maize in southern China.
中国南方玉米有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Stenocatantops splendens	Acrididae	+		+	+		+		+	+	+	+		+	+	10	29=
Tarbinskiellus portentosus	Gryllidae			++	++		+		+		++	++		++	++	14	17=
Teleogryllus emma	Gryllidae	++	++		++		+	+	++	+		+	+	+		14	17=
Tethron albovittatum	Delphacidae	P	P	P	P				P	P		P		P	P	0	
Tetranychus cinnabarinus	Tetranychidae	+++	+++	+	++	++	++		++	+						16	12=
Tetranychus truncatus	Tetranychidae	+	+	+	+	+	+		+	+						8	38=
Tetranychus urticae	Tetranychidae	+	+	+	+	+	+		+	+						8	38=
Tetroda histeroides	Pentatomidae	P		P	P	P	P	P	P	P	P	P		P	P	0	
Thaia subrufa	Cicadellidae			+	+	+	+		+		+	+		+	+	9	33=
Tribolium castaneum	Tenebrionidae	+	+	P	P	+	P	P	P	P	P	P	P	P	P	3	54=
Trilophidia annulata	Acrididae	+	+	+	+						+	+		+		7	45=
Truljalia hibinonis	Gryllidae			P	P	P	P	P	P							0	
Unkanodes sapporonus	Delphacidae	+	+	+	+	+				+		+		+		8	38=
Xenocatantops humilis	Acrididae			+	+		+		+	+	+			+	+	8	38=
Xenocatantops brachycerus	Acrididae	+		+	+	+	+		+		+	+				8	38=
Xestia c-nigrum	Noctuidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Zicrona caerulea	Pentatomidae	P		P	P			P	P	P	P	P		P	P	0	

156 species

91 with 0

Table 7. Distribution and importance of arthropod pests of cucurbits, *Solanum* species, legumes, etc in southern China. (For main hosts attacked see key at end of table)
中国南方瓜、茄、豆类等有害节肢动物的分布及重要性（主要危害作物见表尾附注编号）

Pest	Family	Main Hosts	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acanthocoris concoloratus	Coreidae	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Acanthocoris sordidus	Coreidae	6	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Acanthocoris unipunctatus	Coreidae	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Acherontia styx	Sphingidae	2, 6, 10, 12	P		P	P					P	P	P			P	0	
Acrida cinerea	Acrididae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Adisura atkinsoni	Noctuidae	8	P				P			P							0	
Agrotis ipsilon	Noctuidae	1	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	10=
Agrotis segetum	Noctuidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Agrotis tokionis	Noctuidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Amrasca flavescens	Cicadellidae	5, 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Anomala corpulenta	Scarabaeidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Anomala cupripes	Scarabaeidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Anoplocnemis phasiana	Coreidae	9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Aphis craccivora	Aphididae	9	++	+	++	++	++	++	+	+	+	+	+	+	+	++	20	18
Aphis gossypii	Aphididae	5	+++	+++	++	++	+++	++	++	++	++	++	++	++	++	++	31	7=
Apomecyna saltator	Cerambycidae	5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Atractomorpha sinensis	Acrididae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Aulacophora femoralis	Chrysomelidae	5	++	++	++	++	++	++	++	++	++	++	++	++	+	+	26	14
Aulacophora lewisi	Chrysomelidae	5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Aulacophora nigripennis	Chrysomelidae	5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Ayyaria chaetophora	Thripidae	9	P	P	P	P	P	P	P	P	P	+	+	+	+	+	5	75
Bactrocera cucurbitae	Tephritidae	5	+	+	+	+	+	+	+	+	+	++	++	++	++	++	19	19
Bemisia tabaci	Aleyrodidae	5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Bourletiella sp.	Sminthuridae	5	P	P	P	+	P	P	+	+	+	+	+	+	+	+	9	73
Brachyplatys subaeneus	Plataspididae	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=

Table 7. (cont'd) Distribution and importance of arthropod pests of cucurbits, *Solanum* species, legumes, etc in southern China.
(For main hosts attacked see key at end of table)
中国南方瓜、茄、豆类等有害节肢动物的分布及重要性（主要危害作物见表尾附注编号）

Pest	Family	Main Hosts	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Bruchus pisorum	Bruchidae	10	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	10=
Callosobruchus chinensis	Bruchidae	2, 10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Chilo suppressalis	Pyralidae	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Chromatomyia horticola	Agromyzidae	10	+	+	+	+	+	+	++	+	++	++	++	++	++	++	21	16=
Cifuna locuples	Lymantriidae	2, 10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Clanis bilineata	Sphingidae	2, 9	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Clavigralla gibbosa	Coreidae	2, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Clavigralloides acantharis	Coreidae	2, 9	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	77=
Cletus puntiger	Coreidae	5, 9	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	77=
Cofana spectra	Cicadellidae	7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Coridius chinensis	Pentatomidae	5	+	+	+	++	+	+	++	++	+	+	+	+	+	+	17	21=
Dolycoris baccharum	Pentatomidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Epicauta gorhami	Meloidae	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Epicauta hirticornis	Meloidae	9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Epicauta tibialis	Meloidae	9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Epilachna vigintioctomaculata	Coccinellidae	6, 11, 16	+	P	P					P	P						1	81=
Epilachna vigintioctopunctata	Coccinellidae	6, 11, 16	+++	+++	+++	+++	++	+++	++	++	++	++	++	++	++	++	33	5=
Erthesina fullo	Pentatomidae	9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Etiella zinckenella	Pyralidae	9	++	++	+++	+++	+++	+++	++	+	+	++	++	++	+++	++	31	7=
Frankliniella intonsa	Thripidae	1, 5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Gralliclava horrens	Coreidae	9	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	77=
Gryllotalpa formosana	Gryllotalpidae	1														+	1	81=
Gryllotalpa orientalis	Gryllotalpidae	1	+	+	+	+	+	+	+	+	+	++	++	++	+	++	18	20
Helicoverpa armigera	Noctuidae	4, 16	+++	+++	+++	+++	+++	+++	++	++	++	++	++	++	++	++	34	2=
Helicoverpa assulta	Noctuidae	1, 4	+++	+++	+++	+++	+++	+++	++	++	++	++	++	++	++	++	34	2=
Holotrichia morosa	Scarabaeidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=

Table 7. (cont'd) Distribution and importance of arthropod pests of cucurbits, *Solanum* species, legumes, etc in southern China. (For main hosts attacked see key at end of table)
中国南方瓜、茄、豆类等有害节肢动物的分布及重要性（主要危害作物见表尾附注编号）

Pest	Family	Main Hosts	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Holotrichia sauteri	Scarabaeidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Hypomeces squamosus	Curculionidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Leguminivora glycinivorella	Tortricidae	2	P	P	P		P										0	
Leptocorisa acuta	Coreidae	5, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Leucinodes orbonalis	Pyralidae	6			P		+					++	++			++	7	74
Liriomyza sativae	Agromyzidae	1	++	++	++	++	++	++	+	++		+++	+++	+++	+++		27	13
Maruca vitrata	Pyralidae	2	++	++	+++	+++	+++	+++	++	+++	++	+++	+++	+++	+++	+++	38	1
Megacopta cribaria	Plataspididae	9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Megacopta horvathi	Plataspididae	9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Megalurothrips distalis	Thripidae	5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Megalurothrips usitatus	Thripidae	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Megymenum brevicorne	Pentatomidae	5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Megymerum inerme	Pentatomidae	5	+	+	+	+	+	+	+	+	+	++	++	++	+	+	17	21=
Melanagromyza sojae	Agromyzidae	2, 3, 9, 12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Mylabris cichorii	Meloidae	5, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Mylabris phalerata	Meloidae	5, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Mythimna separata	Noctuidae	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Myzus persicae	Aphididae	6	+++	+++	+++	++	+++	++	+++	+++	++	++	++	++	++	++	34	2=
Nezara viridula	Pentatomidae	1	+	+	+	++	+	+	++	++	++	++	++	++	++	++	23	15
Oides decempunctata	Chrysomelidae	4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Omioides indicata	Pyralidae	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Ostrinia furnacalis	Pyralidae	4, 6, 16	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Phthorimaea operculella	Gelechiidae	11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Polyphagotarsonemus latus	Tarsonemidae	1	+	+	+	+	+	+	++	+	++	++	++	++	++	++	21	16=
Riptortus linearis	Rhopalidae	9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Riptortus pedestris	Rhopalidae	2, 5, 10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=

Table 7. (cont'd) Distribution and importance of arthropod pests of cucurbits, *Solanum* species, legumes, etc in southern China.
(For main hosts attacked see key at end of table)
中国南方瓜、茄、豆类等有害节肢动物的分布及重要性（主要危害作物见表尾附注编号）

Pest	Family	Main Hosts	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Saccharosydne procerus	Delphacidae	15, 17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Scirpophaga praelata	Pyralidae	17	+	+	+												3	77=
Scirtothrips dorsalis	Thripidae	5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Spilosoma lubricipeda	Arctiidae	1	P	P	P	P			P	P	P				P		0	
Spodoptera exigua	Noctuidae	1	+++	+++	+++	+++	+++	+++	++	++	+	++	++	+	++	+	31	7=
Spodoptera litura	Noctuidae	1	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	10=
Spoladea recurvalis	Pyralidae	4, 5				P				P		P	P			P	0	
Teleogryllus testaceus	Gryllidae	1	P	P	P	P			P			P	P		P	P	0	
Tetranychus cinnabarinus	Tetranychidae	1	+	++	++	+	++	+	+	+	+	+	+	+	+	+	17	21=
Thrips flavidulus	Thripidae	5, 6, 13	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Thrips flavus	Thripidae	5, 6	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
Thrips hawaiiensis	Thripidae	5, 6, 13	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Thrips palmi	Thripidae	5, 13	++	++	++	++	++	++	++	++	++	+++	+++	+++	+++	+++	33	5=
Trialeurodes vaporiarorum	Aleyrodidae	1	P	P	P	P	P			P		P	P		P	P	0	
Tusothrips calopgoniae	Thripidae	2	P	P	P	P	P	+	P	P	P	+	+	+	P	P	4	76
Udaspes folus	Hesperiidae	7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	24=
																	93 species	
																	12 with 0	

Key to major host plants

1. polyphagous	杂食性	6. eggplant	茄子	11. potato	马铃薯	16. tomato	番茄		
2. beans	豆类	7. ginger	姜	12. sesame	芝麻	17. water chestnut	荸荠		
3. broadbeans	蚕豆	8. lablab bean	扁豆	13. solanaceous plants	茄科				
4. capsicum, chilli	辣椒	9. legumes	豆科	14. sweet potato	甘薯				
5. cucurbits, melons	瓜类	10. peas	豌豆	15. taro	芋头				

Table 8. Distribution and importance of arthropod pests of peanuts in southern China.
中国南方花生有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acrida cinerea	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Adoretus sinicus	Scarabaeidae	+	+	+	+	+	+	++	++	++	++	++	++	++	++	22	9
Adoxophyes cyrtosema	Tortricidae	P					+				+	+	+	+		5	57=
Agrotis ipsilon	Noctuidae	++	++	++	+++	++	++	++	++	+++	+++	+++	+++	+++	++	34	2
Agrotis segetum	Noctuidae	++	++	++	++	++	++	+	+	+	+	+	+	+	+	20	10
Amsacta lactinea	Arctiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Anomala corpulenta	Scarabaeidae	+	+	+	+	+	+	+	+	+	++	++	++	++	+	18	12=
Anomala cupripes	Scarabaeidae	+	+	+	+	+	+	+	+	+	++	++	++	++	+	18	12=
Anoplocnemis phasiana	Coreidae	+	+	+	+	+	+	+	+	+	++	+	++	+	+	16	22=
Aphis craccivora	Aphididae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	6
Aproaerema modicella	Gelechiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Ascotis selenaria	Geometridae	+	+	+	P	+	+	P	+	P	+	P	P	P	P	7	54=
Atractomorpha sinensis	Acrididae	+	+	+	+	+	+	+	+	+	++	++	++	++	+	18	12=
Bemisia tabaci	Aleyrodidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Chondracris rosea	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Chrysodeixis agnata	Noctuidae	+	+	+	+	+	+	+	+	+	++	++	++	+	+	17	18=
Cicadella viridis	Cicadellidae	P	P	P	+	+	+	+	+	+	+	+	+	+	+	11	47=
Cifuna locuples	Lymantriidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Cletus puntiger	Coreidae		P	P	P	P	P	+	P	+	+	+	+	+	P	6	56
Cofana spectra	Cicadellidae	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	61=
Empoasca pirisuga	Cicadellidae	P	P	P	P	P	P	P	P	+	+	+	+	P	P	4	59=
Epicauta gorhami	Meloidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Epicauta hirticornis	Meloidae	+	+	+	+	+	++	++	++	++	++	++	++	++	++	23	8
Eysarcoris guttiger	Pentatomidae	P	P	P	+	+	+	+	+	+	+	+	+	+	+	11	47=
Eysarcoris ventralis	Pentatomidae	P	P	P	+	+	+	+	+	+	+	+	+	+	+	11	47=
Frankliniella intonsa	Thripidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Gastrimargus marmoratus	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=

Table 8. (cont'd) Distribution and importance of arthropod pests of peanuts in southern China.
中国南方花生有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Gonocephalum bilineatum	Tenebrionidae	+	+	+	+	+	+	+	+	++	+	++	++	++	+	18	12=
Gralliclava horrens	Coreidae	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	61=
Gryllotalpa orientalis	Gryllotalpidae	++	+	++	+++	+++	+++	++	+++	+++	+++	+++	+++	+++	++	36	1
Halticus minutus	Miridae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Halticus tibialis	Miridae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Haplothrips chinensis	Phlaeothripidae	P	P	P	P	P	P	+	+	+	+	+	+	P	+	7	54=
Holotrichia sauteri	Scarabaeidae	+	+	+	+	+	+	+	+	+	++	++	++	++	+	18	12=
Kolla albomarginata	Cicadellidae	P	P	P	P	P	P	P	+	+	+	+	P	P	+	5	57=
Leptocorisa acuta	Alydidae	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	61=
Liorhyssus hyalinus	Rhopalidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Lipaphis pseudobrassicae	Aphididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Locusta migratoria manilensis	Acrididae	+	++	+	+	++	++	+	+	+	++	+	++	+	+	19	11
Megacopta cribraria	Plataspididae	+	+	+	+	+	++	+	++	+	+	+	++	+	+	17	18=
Megalurothrips distalis	Thripidae	+	+	+	+	+	+	+	+	+	+	+	++	+	++	16	22=
Megalurothrips usitatus	Thripidae	+	+	+	+	+	+	+	+	+	+	+	++	+	++	16	22=
Megymenum gracilicorne	Dinidoridae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Mictis tenebrosa	Coreidae	P	P	P	P	P	P	P	P	+	+	P	P	P	P	2	64=
Mylabris cichorii	Meloidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Mylabris phalerata	Meloidae	+	+	+	++	++	++	++	++	++	++	++	++	++	++	25	7
Nezara viridula	Pentatomidae	+	+	+	++	+	+	+	+	+	++	++	++	+	+	18	12=
Oides decempunctata	Chrysomelidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Oxya chinensis	Acrididae	+	+	+	+	+	+	+	+	++	++	+	++	+	+	17	18=
Oxya diminuta	Acrididae	P	P	P	+	P	+	+	+	+	+	+	+	P	P	8	52=
Oxya velox	Acrididae	P	P	P	+	P	+	+	+	+	+	+	+	P	P	8	52=
Patanga succincta	Acrididae	P	P	P	+	+	+	+	+	P	+	+	+	+	P	9	50=
Polyphagotarsonemus latus	Tarsonemidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Recilia dorsalis	Cicadellidae	P	P	P	P	P	P	P	P	P	P	P	+	P	P	1	66
Riptortus linearis	Alydidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Riptortus pedestris	Alydidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=

Table 8. (cont'd) Distribution and importance of arthropod pests of peanuts in southern China.
中国南方花生有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Spilarctia obliqua	Arctiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Spilarctia subcarnea	Arctiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Spodoptera litura	Noctuidae	++	++	++	++	++	++	++	+++	+++	+++	+++	++	++	+++	33	3=
Stenocatantops splendens	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	25=
Tarbinskiellus portentosus	Gryllidae	+	+	++	++	++	++	++	++	+++	+++	+++	+++	+++	+++	32	5
Teleogryllus testaceus	Gryllidae	+++	+	++	++	++	++	++	++	+++	+++	+++	+++	+++	++	33	3=
Tetranychus cinnabarinus	Tetrachynidae	+	++	++	+	++	+	+	+	+	+	+	+	+	+	17	18=
Tetrix japonica	Tetrigidae	P	P	P	+	P	P	+	+	+	+	+	+	+	+	9	50=
Thrips coloratus	Thripidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Thrips flavidulus	Thripidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Thrips flavus	Thripidae	P	P	P	P	P	P	P	P	+	+	+	+	P	P	4	59=
Thrips hawaiiensis	Thripidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Tridactylus japonicus	Tridactylidae	P	P	P	P	P	P	P	P	+	P	P	+	P	P	2	64=

69 species

3 with 0

Table 9. Distribution and importance of arthropod pests of forestry plantations in southern China.
(For host trees attacked see key at end of table)
中国南方林业有害节肢动物的分布及重要性（危害树种见表尾附注编号）

Pest	Family	Host	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	O	HI	FJ	TW	Total+s	Order
Abraxas flavisinuata	Geometridae	12						+	+		+						3	81=
Acanthoecia laminati	Psychidae	3, 7										+	+				2	90=
Actias selene ningpoana	Saturniidae	3	+	+	+	+	+	+	+	+	+	+	+		+		12	18=
Adoretus sinicus	Scarabaeidae`	7										+					1	101=
Agrotis ipsilon	Noctuidae	7										+					1	101=
Anomala cupripes	Scarabaeidae	2, 7									+	++	+	+	+	+	7	42=
Anoplophora chinensis	Cerambycidae	1, 4									+	+	++	+	+	+	7	42=
Aristobia hispida	Cerambycidae	1, 12	+	+	+		+	+		+			+		+		8	37=
Attacus atlas	Saturniidae	1, 3		+	+	+		+	+	+		+	+		+	+	10	26=
Atysa cinnamomi	Chrysomelidae	3			+								+		+		3	81=
Aulacaspis rosarum	Diaspididae	3	+	+	+		+		+	+		+	+		+		9	30=
Aulacaspis yabunikkei	Diaspididae	3			+	+	+	+				+	++	+	+		9	30=
Aularches miliaris	Acrididae	5							+		+	+	+				4	71=
Balionebris bacteriota	Gracillariidae	4										+	++	+	+		5	63=
Batocera horsfieldi	Cerambycidae	5, 7, 9	++	++	+	+	++	++	+	+	+	+	+	+	+	+	18	4
Brachycyttarus subteralbatus	Psychidae	3, 7		+						+		+			+		4	71=
Bruchus schonhevti	Bruchidae	2											++		++		5	63=
Buzura suppressaria	Geometridae	7, 9		+	+	+	+	+	+	+		+++	+	+	+		13	14=
Callidium villosulum	Cerambycidae	7	+		+	+	+	+	+	+		+	+		+		10	26=
Carea angulata	Noctuidae	7, 8									+	+	+	+			4	71=
Cerace stipatana	Tortricidae	3	+		+	+	+	+		+	+			+	+	+	10	26=
Ceresium sinicum ornaticolle	Cerambycidae	3	+						+	+	+	+	+				6	53=
Ceroplastes rubens	Coccidae	3	+	+	+	+	+	+	+	+	+	+	+		+		12	18=
Chalioides kondonis	Psychidae	1, 4, 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	8=
Charaxes bernardus	Nymphalidae	3			+	+		+			+		+		+		6	53=
Chlorophanus auripes	Curculionidae	1, 4, 7											+				1	101=

Table 9. (cont'd) Distribution and importance of arthropod pests of forestry plantations in southern China.
(For host trees attacked see key at end of table)
中国南方林业有害节肢动物的分布及重要性（危害树种见表尾附注编号）

Pest	Family	Host	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Irder
Chondracris rosea	Acrididae	1, 4, 9, 10, 14	+	+	+	+	+	+		+	+	+	+	+	+	+	13	14=
Cleoporus variabilis	Chrysomelidae	7,8										++					2	90=
Conogesthes punctiferalis	Pyralidae	11, 12	+	+	+	+	+	+		+	+	+	+	+	+	+	13	14=
Coptotermes formosanus	Rhinotermitidae	7										++					2	90=
Cranaphis formosana	Aphididae	11, 12	+			+						+	+		+	+	6	53=
Cryptotympana atrata	Cicadidae	1, 4, 12, 14	+	+	+	+		+	+	+	+		+	+	+	+	12	18=
Dendrolimus punctatus	Lasiocampidae	10	+++	+++	+++	+++	+++	+++	++	++	++	++	+++	+	++	+	33	1
Dioryctria rubella	Pyralidae	11-13	+	++	+	+	+	+	+	+	+	+	++	+	+		15	6=
Dysdercus cingulatus	Pyrrhocoridae	1, 4, 7, 10, 14					+			+	+	+	+		+		6	53=
Endoclita nodus	Hepialidae	3, 9		+	+	+											3	81=
Endoclita sinensis	Hepialidae	1, 6, 9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	8=
Eriogyna pyretorum	Saturniidae	3	+	+	+	+				+					+		6	53=
Erthesina fullo	Pentatomidae	1, 3, 4, 14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	8=
Eumeta miniscula	Psychidae	1, 3, 4, 12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	8=
Eumeta variegata	Psychidae	1, 3, 7	+	++	+	+	+	+	+	+	+	+	++	+	+	+	16	5
Eupromus ruber	Cerambycidae	3	+							+							2	90=
Eurema hecabe	Pieridae	1, 3		+	+	+					+	+	+		+		7	42=
Eutectona machaeralis	Pyralidae	14											+	++			3	81=
Fiorinia japonica	Diaspididae	12	+							+			+		+		4	71=
Gastrimargus marmoratus	Acrididae	2, 4, 7, 12	+	+	+	+				+	+	+	+		+	+	10	26=
Graphium sarpedon	Papilionidae	3	+	+	+	+			+	+	+	+	++		+	+	12	18=
Gravitarmata margarotarna	Tortricidae	11, 12	+	+	+	+			+	+			+				7	42=

Table 9. (cont'd) Distribution and importance of arthropod pests of forestry plantatins in southern China.
(For host trees attacked see key at end of table)
中国南方林业有害节肢动物的分布及重要性（危害树种见表后附注编号）

Pest	Family	Host	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Gryllotalpa orientalis	Gryllotalpidae	7, 8, 9, 10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	8=
Hemiberlesia pityophila	Diaspididae	12											+++				3	81=
Homoeocerus walkerianus	Coreidae	1, 10	+	+			+	+		+							5	63=
Hyblaea puera	Noctuidae	14									+	+	+	+		+	5	63=
Hypomeces squamosus	Curculionidae	2, 4, 7, 10, 14	+	+	+	+	+					+	+		+	+	9	30=
Hypsipyla robusta	Pyralidae	3,14, 15										+	+	+			3	81=
Icerya purchasi	Margarodidae	2, 3, 4, 9, 10	+	+	+	+	+	+	+	+	+	+	++	+	+	+	15	6=
Indarbela dea	Metarbelidae	2, 4									+	+	+	+	+	+	6	53=
Lebeda nobilis	Lasiocampidae	10	+	+	+	+		+				+				+	7	42=
Lepidiota stigma	Scarabaeidae	7										++	++				4	71=
Lycorma delicatula	Fulgoridae	1, 6	+	+	+					+			+			+	6	53=
Lymantria dissoluta	Lymantriidae	10	+	+	+	+	+	+				+	+			+	9	30=
Lymantria xylina	Lymantriidae	1, 4, 7											+		+	+	3	81=
Macrotermes annandalei	Termitidae	8										++					2	90=
Macrotermes barneyi	Termitdae	7, 9									+	+	++	+	+	+	7	42=
Matsucoccus massonianae	Margarodidae	12			+												1	101=
Mesonura rufonota	Tenthredinidae	3	+	+	+	+		+				+	+		+		8	37=
Microtrichia cephalotes	Scarabaeidae	7										+	+				2	90=
Monema flavescens	Limacodidae	3, 6, 7, 12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	8=
Monochamus alternatus	Cerambycidae	12	+++	+++	+	+		+	+	+	+	++	+++	+	+	+	20	2
Neodiprion japonica	Diprionidae	10											+				1	101=
Neodiprion zhejiangensis	Diprionidae	10			+	+	+	+		+		+	+				7	42=
Oberea fusiventris	Cerambycidae	3				+											1	101=

Table 9. (cont'd) Distribution and importance of arthropod pests of forestry plantations in southern China.
(For host trees attacked see key at end of table)
中国南方林业有害节肢动物的分布及重要性（危害树种见表尾附注编号）

Pest	Family	Host	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Odontotermes formosanus	Termitidae	7, 9									+	++	++	+	+	+	8	37=
Odontotermes hainanensis	Termitidae	7										+	+				2	90=
Oracella acuta	Pseudococcidae	11,13											+++				3	81=
Orgyia postica	Lymantriidae	1, 4, 7									+	+	+		+	+	5	63=
Orthaga achatina	Pyralidae	1,3,12	+		+	+		+			+	+	++		+		9	30=
Petrova cristata	Tortricidae	11, 12	+	+	+	+		+			+						6	53=
Phloeosinus sinensis	Scolytidae	9	+	+	+	+	+	+		+			+		+		9	30=
Polychrosis cunninghamiacola	Tortricidae	9	+	+	+	+	+	+		+		+	+	+	+		11	23=
Pseudaonidia duplex	Diaspididae	3	+				+			+					+		4	71=
Samia cynthia	Saturniidae	3, 5	+	+	+	+				+		+	+				7	42=
Semanotus sinoauster	Cerambycidae	9	+	+	+	+	+	+	+	+		+	+	+	+	+	13	14=
Setora sinensis	Limacodidae	3	+	+	+	+	+	+		+	+		+		+	+	11	23=
Shirashoshizo flavonotatus	Curculionidae	12	+			+	+	+		+	+	+			+		8	37=
Sinomegoura citricola	Aphididae	3			+	+			+	+	+		+		+		7	42=
Sinorsillus piliferus	Lygaeidae	9			+	+	+	+	+	+		+	+		+		9	30=
Sinoxylon anale	Bostrychidae	15										+	+	+		+	4	71=
Sonsaucoccus sinensis	Margarodidae	12	+		+			+	+	+					+		6	53=
Squamura discipuncta	Metabelidae	1, 3, 4									+	+	++	+	+	+	7	42=
Stauropus alternus	Notodontidae	4										+	+	+		+	4	71=
Stephanitis laudata	Tingidae	3										+	+		+	+	4	71=
Stephanitis macaona	Tingidae	3				+			+								2	90=
Strepsicrates nr *semicanella*	Tortricidae	7, 8										++					2	90=
Stromatium longicorne	Cerambycidae	4, 8										+	+	+		+	4	71=
Suana divisa	Lasiocampidae	7											+		+		2	90=
Tarbinskiellus portentosus	Gryllidae	3, 7, 9, 10			+	+		+		+	+	++	+	+	+	+	11	23=
Thalassodes quadraria	Geometridae	3	++	+	++	++	+	++	+	+	+	+	+	+	++	+	19	3

Table 9. (cont'd) Distribution and importance of arthropod pests of forestry plantations in southern China.
(For host trees attacked see key at end of table)
中国南方林业有害节肢动物的分布及重要性（危害树种见表尾附注编号）

Pest	Family	Host	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Ticera castanea	Lasiocampidae	5											+	+			2	90=
Tomicus minor	Scolytidae	12				+				+	+						3	81=
Tomicus piniperda	Scolytidae	12	+		+			+		+	+						5	63=
Trabala vishnou	Lasiocampidae	1, 5									+		+	+	+	+	5	63=
Trichochrysea nitidissima	Chrysomelidae	1, 12			+	+		+		+	+	+	+		+		8	37=
Trioza camphorae	Triozidae	3			+	+		+							+	+	5	63=
Trirachys orientalis	Cerambycidae	1	+	+	+	+	+	+		+	+		+	+	+	+	12	18=
Xystrocera globosa	Cerambycidae	2	+	+	+		+			+			+		+		7	42=
Zeuzera multistrigata	Cossidae	1, 4										+	++	+	++		6	53=

Total 106 species

Host trees:
1. *Acacia* spp. (*A. auriculiformis* 大叶相思, *A. confusa* 台湾相思, *A. farnesiana* 金合欢, *A. mearnsii* 黑荆树)
2. *Acacia confusa* 台湾相思
3. Camphora (*Cinnamomum camphora*) 樟树
4&5. *Casuarina equisetifolia* 木麻黄
6. Chinese toon (*Toona sinensis*) 香椿
7. *Eucalyptus* spp. (*E. camaldulensis* 赤桉, *E. citriodora* 柠檬桉, *E. exserta* 窿缘桉, *E. globulus* 蓝桉, *E. robusta* 大叶桉, *E. tereticornis* 细叶桉, *E. urophylla* 尾叶桉)
8. *Eucalyptus citriodora* 柠檬桉
9. Fir (*Cunninghamia lanceolata*) 杉树
10. *Pinus* spp. 松树
11. *Pinus elliotti* 湿地松
12. *Pinus massoniana* 马尾松
13. *Pinus taeda* 火炬松
14. Teak (*Tectona grandis*) 柚木
15. Mahogany (*Swietenia mahogani*) 桃花心木

Table 10. Distribution and importance of arthropod pests of rice in southern China.
中国南方水稻有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acrida cinerea	Acrididae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Ancylomia japonica	Pyralidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Catagela adjurella	Pyralidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Chilo auricilius	Pyralidae				P	P	P	P			+	+	+	P	P	3	19=
Chilo suppressalis	Pyralidae	+	P	+	++	++	++	+	++	+	+	+	+	+	++	18	5
Chlorops oryzae	Chloropidae	P	P	P	+	P	+	P	P	P	+	+	+	+	+	7	13=
Cletus punctiger	Coreidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Cnaphalocoris medinalis	Pyralidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Dicladispa armigera	Chrysomelidae	P	P	P	P	P	P	P	P	P	+	+	+	P	+	4	17=
Donacia provosti	Chrysomelidae	P	P	P	P	P	+	P	P	P	+	+	+	+	+	6	15
Echinocnemus squameus	Curculionidae	P	P	P	+	+	+	+	+	+	P	P	P	+	+	8	12
Frankliniella intonsa	Thripidae	+	+	+	+	+	P	+	+	P	+	+	P	+	P	10	10=
Haplothrips aculeatus	Phlaeothripidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Herpetogramma licarsisalis	Pyralidae	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	19=
Hydrellia sasakii	Ephydridae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Laodelphax striatella	Delphacidae	+	+	+	P	+	P	+	+	P	P	P	P	+		7	13=
Marasmia exigua	Pyralidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Melanitis leda	Nymphalidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Mycalesis gotama	Nymphalidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Mythimna loreyi	Noctuidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Mythimna separata	Noctuidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Mythimna venalba	Noctuidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Naranga aenescens	Noctuidae	P	P	P	P	P	+	+	P	P	+	+	+	P	P	5	16
Nephotettix cincticeps	Cicadellidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	6
Nephotettix nigromaculatus	Cicadellidae						P				P	P	P	P	P	0	
Nezara viridula	Pentatomidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Nilaparvata lugens	Delphacidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Niphe elongata	Pentatomidae	P	P	P	+	P	+	+	+	P	P	P	P	P	P	4	17=

Table 10. (cont'd) Distribution and importance of arthropod pests of rice in southern China.
中国南方水稻有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Nola taeniata	Nolidae			P	P	P	P									0	
Orseolia oryzae	Cecidomyiidae				+		+	++		+	+	+	++	+	+	11	8=
Oulema oryzae	Chrysomelidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Oxya chinensis	Acrididae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Paraponyx stagnalis	Pyralidae				P		P				P	P	P	P	P	0	
Parnara ganga	Hesperiidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Parnara guttatus	Hesperiidae	+	+	+	++	++	++	++	++	++	++	++	++	++	++	25	4
Pelopidas mathias	Hesperiidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Pseudocatharylla inclaralis	Pyralidae				P	P	P	P	P		P	P	P	P		0	
Recilia dorsalis	Cicadellidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Scirpophaga incertulas	Pyralidae	P	P	P	P	P	++	P	P	P	++	++	+	++	+	10	10=
Scotinophora lurida	Pentatomidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Sesamia inferens	Noctuidae	P	P	P	P	+	+	P	P	P	P	P	P	P	P	2	21
Sogatella furcifera	Delphacidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	3
Spodoptera mauritia	Noctuidae	P	P	P	P	P	+	P	P	P	P	P	P	P	P	1	22
Stenchaetothrips biformis	Thripidae	+	+	+	+	+	+	+	+	P	+	+	P	+	P	11	8=
Thaia subrufa	Cicadellidae	P	+	P	+	+	+	+	+	+	+	+	+	+	+	12	7
																45 species	
																23 with 0	

Table 11. Distribution and importance of arthropod pests of sugarcane in southern China.
中国南方甘蔗有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acrida cinerea	Acrididae										+	+			+	3	43=
Adoretus formosanus	Scarabaeidae														+	1	68=
Adoretus sinicus	Scarabaeidae				+	+	+				+	+		+	+	7	13=
Alissonotum crassum	Scarabaeidae														+	1	66=
Alissonotum impressicolle	Scarabaeidae							+		+	+	++	+	+	+	8	11=
Alissonotum pauper	Scarabaeidae									+	+	++		+	+	6	15=
Anomala antiqua	Scarabaeidae										+					1	68=
Anomala castaneoventris	Scarabaeidae								+						+	2	57=
Anomala corrugata	Scarabaeidae													+	+	2	57=
Anomala cupripes	Scarabaeidae								+		+	+		+	+	5	17
Anomala dorsalis	Scarabaeidae								+							1	68=
Anomala expansa	Scarabaeidae								+		+	+			++	5	17=
Anomala trachypyga	Scarabaeidae														+	1	68=
Apogonia cribricollis	Scarabaeidae										+	+		+	+	4	30=
Cavalerius saccharivorus	Pentatomidae				+							+		+	+	4	30=
Ceratovacuna lanigera	Aphididae			+	+	+	+	+	+	+	++	++	+	+	+	14	5
Chilo auricilius	Pyralidae			+	+	+		+	+	+	+	+	+	+	+	11	6=
Chilo infuscatellus	Pyralidae			++	++	+	++	++	++	++	+++	+++	+++	+++	+++	28	1
Chilo sacchariphagus	Pyralidae			+	+		+	++	+	+	++	+++	++	++	++	18	3
Coptotermes formosanus	Termitidae													+	+	2	57=
Diptiloplatus sacchari	Tetranychidae										+					1	68=
Dorysthenes granulosus	Cerambycidae										+	+			+	3	43=
Dorysthenes hydropicus	Cerambycidae				+		+				+				+	4	30=
Dysmicoccus boninensis	Pseudococcidae			+	+	+		+	+	+	+	+	+	+	+	11	6=
Eoeurysa flavocapita	Delphacidae			P	P		P	P	P	P	P	P	P	P	P	0	
Exolontha serrulata	Scarabaeidae			+	+		+				+	+		++		7	13=
Frankliniella intonsa	Thripidae							+			+	+		+	+	5	17=

Table 11. (cont'd) Distribution and importance of arthropod pests of sugarcane in southern China.
中国南方甘蔗有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Frankliniella tenuicornis	Thripidae							+			+	+		+	+	5	17=
Fulmekiola serrata	Thripidae			+	+		+	+	+	+	+	+		+	+	10	8=
Gryllotalpa africana	Gryllotalpidae											+	+		+	3	43=
Gryllotalpa formosana	Gryllotalpidae							+			+	+			+	4	30=
Gryllus bimaculatus	Gryllidae										+	+		+	++	5	17=
Gryllus chinensis	Gryllidae										+	+	+	+	+	5	17=
Haplothrips aculeatus	Thrips							+			+	+		+	+	5	17=
Haplothrips chinensis	Thripidae							+			+	+		+	+	5	17=
Hieroglyphus annulicornis	Acrididae														+	1	68=
Hieroglyphus tonkinensis	Acrididae										+	+		+	+	4	30=
Holotrichia castaneoventris	Scarabaeidae								+			+		+	+	4	30=
Holotrichia formosana	Scarabaeidae											+			+	2	57=
Holotrichia lata	Scarabaeidae				+									+	+	3	43=
Holotrichia ovata	Scarabaeidae										+	+		+		3	43=
Holotrichia sauteri	Scarabaeidae										+			+	+	3	43=
Holotrichia sinensis	Scarabaeidae											+		+	+	3	43=
Lachnosterna horishana	Scarabaeidae								+			+		+	+	4	30=
Lepidiota stigma	Scarabaeidae										+	++		+		4	30=
Locusta migratoria manilensis	Acrididae										+	+		+	+	4	30=
Macrotermes barneyi	Termitidae											+		+	+	3	43=
Maladera formosae	Scarabaeidae				+										+	2	57=
Melanaphis sacchari	Aphididae				+					+		+		+		4	30=
Melanotus caudex	Elateridae										+	+			+	3	43=
Melanotus tamsuyensis	Elateridae										+	+			+	3	43=
Microtrichia cephalotes	Scarabaeidae										+	+			+	3	43=
Mimela testaceoviridis	Scarabaeidae						+							+	+	3	43=
Mogannia hebes	Cicadellidae													+	+	2	57=
Odontotermes formosanus	Termitidae										+	+	+	+	+	5	17=

Table 11. (cont'd) Distribution and importance of arthropod pests of sugarcane in southern China.
中国南方甘蔗有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Odontotermes hainanensis	Termitidae												+		+	2	57=
Oligonychus exsiccator	Tetranychidae										+					1	68=
Oligonychus shinkajii	Tetranychidae						+				+	+	+	+	+	6	15=
Oryctes rhinoceros	Scarabaeidae											+			+	2	57=
Oxya chinensis	Acrididae						+					+			+	3	43=
Patanga succincta	Acrididae											+			+	2	57=
Pericapritermes nitobei	Termitidae											+		+	+	3	43=
Perkinsiella saccharicida	Delphacidae			P	P	P	P	P	P	P	++	+	+	++	++	8	11=
Phaenacantha bicolor	Pentatomidae											+				1	68=
Philus pallescens	Cerambycidae				+							+		+	+	4	30=
Phragmataecia castaneae	Cossidae											+	+			2	57=
Reticulitermes flavipes	Rhinotermitidae										+	+	+	+	+	5	17=
Saccharicoccus sacchari	Pseudococcidae			+	++		+			+	+	+	+	+	+	10	8=
Scirpophaga excerptalis	Pyralidae										+	+	++		+	5	17=
Scirpophaga nivella	Pyralidae													+	+	2	57=
Sesamia inferens	Noctuidae			++	++	+	++	++	++	++	++	++	++	++	++	23	2
Sesamia uniformis	Noctuidae			+	+				+	+	+	+	+	+	+	9	10
Stenchaetothrips biformis	Thripidae							+			+	+		+	+	5	17=
Tarbinskiellus portentosus	Gryllidae										+	+	+		+	4	30=
Teleogryllus testaceus	Gryllidae										+	+	+	+	+	5	17=
Tetramoera schistaceana	Tortricidae			+	+	+	+	+	+	+	++	++	++	++	++	17	4
Tetraneura nigriabdominalis	Aphididae								+		+	+	+			4	30=

77 species

1 with 0

Table 12. Distribution and importance of arthropod pests of sweet potato in southern China.
中国南方甘薯有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acanthocoris scaber	Coreidae	P	P	P	P	P	P	+	P	P	+	+	+	P	P	4	41=
Acanthocoris sordidus	Coreidae	P	P	P	P	P	P	+	P	P	+	+	+	P	P	4	41=
Acherontia styx	Sphingidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Acrida turrita	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Adoretus sinicus	Scarabaeidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Agrius convolvuli	Sphingidae	+	+	+	+	+	+	++	+	++	++	++	++	++	++	21	4=
Agrotis ipsilon	Noctuidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Agrotis segetum	Noctuidae	+	+	+	+	+	+	+	+	P	P	P	+	+	P	10	35
Alcidodes waltoni	Curculionidae			+	+	+	+	+	+	+	+	+	+	+	+	12	33=
Anomala corpulenta	Scarabaeidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Anomala cupripes	Scarabaeidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Aspidomorpha furcata	Chrysomelidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Atractomorpha sinensis	Acrididae	+	+	+	+	+	+	+	+	++	++	++	++	+	+	18	9=
Bathrips ipomoeae	Thripidae	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	44=
Brachmia macroscopa	Gelechiidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Cassida circumdata	Chrysomelidae	+	+	+	+	+	+	++	+	++	++	++	++	++	++	21	4=
Chondracris rosea	Acrididae	+	P	P	+	+	+	+	+	+	+	+	+	+	+	12	33=
Cicadella viridis	Cicadellidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Cletus puntiger	Coreidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Colasposoma dauricum	Chrysomelidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Cylas formicarius	Apionidae		+	+	++	++	++	+++	+++	+++	+++	+++	+++	+++	++	31	1
Dasychira mendosa	Lymantriidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Dendothripoides innoxius	Thripidae										P	P	+	P	P	1	48
Empoasca vitis	Cicadellidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Epilachna vigintioctopunctata	Coccinellidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Frankliniella intonsa	Thripidae	P	P	P	P	P	P	+	P	+	+	+	+	P	+	6	38=
Gastrimargus marmoratus	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Gryllotalpa orientalis	Gryllotalpidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=

Table 12. (cont'd) Distribution and importance of arthropod pests of sweet potato in southern China.
中国南方甘薯有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Halticus tibialis	Miridae	P	P	P	P	P	P	P	P	P	+	+	+	P	P	3	44=
Holotrichia sauteri	Scarabaeidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Hypomeces squamosus	Curculionidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Laccoptera quadrimaculata	Chrysomelidae	P	P	P	P	+	P	P	+	+	+	+	+	+	+	8	36
Leptocorisa acuta	Coreidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Locusta migratoria manilensis	Acrididae	+	++	+	+	++	++	+	+	+	++	+	++	+	+	19	6=
Megacopta cribaria	Plataspididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Myzus persicae	Aphididae			P	P	P	P	P	P	P	P	+	+	P	+	3	44=
Ochyrotica concursa	Pterophoridae			P	P	P	P	P	P	P	+	+	+	P	+	4	41=
Omphisa anastomosalis	Pyralidae	+	+	+	+	+	+	+	+	+	++	++	++	++	+	18	9=
Oxya chinensis	Acrididae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Patanga succincta	Acrididae	P	P	P	P	P	P	+	P	+	+	+	+	+	+	7	37
Phlaeoba infumata	Acrididae	P	P	P	P	P	P	P	P	+	+	P	P	P	P	2	47
Pterophorus niveodactylus	Pterophoridae			P	P	P	P	P	P	+	+	+	+	+	+	6	38=
Spodoptera exigua	Noctuidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	2
Spodoptera litura	Noctuidae	++	+	++	++	++	++	++	++	++	++	++	++	++	++	27	3
Stenocatantops splendens	Acrididae	P	P	P	P	P	P	+	P	P	+	+	+	+	P	5	40
Tarbinskiellus portentosus	Gryllidae	+	+	+	+	+	+	++	+	++	++	++	++	+	+	19	6=
Teleogryllus testaceus	Gryllidae	+	+	+	+	+	+	++	+	++	++	++	++	+	+	19	6=
Theretra oldenlandiae	Sphingidae	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	11=
Thrips hawaiiensis	Thripidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	

49 species

1 with 0

Table 13. Distribution and importance of arthropod pests of tea in southern China.
中国南方茶树有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acaphylla theae	Eriophyiidae	++	++	++	++	++					++	++	++	++	++	20	10=
Adoxophyes orana	Tortricidae	++	++	++	++	++	++	++	++	++		++		++	+	23	8=
Aleurocanthus spiniferus	Aleyrodidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Amrasca flavescens	Cicadellidae	P	P	P	P	P	P	P	P	+	P	P	P	P	P	1	32
Amrasca vitis	Cicadellidae	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++	42	1=
Andraca bipunctata	Bombycidae		+	+	++	+	+			+	+	+		++	+	12	20=
Aspidiotus destructor	Diaspididae	++	++	++	++	++	++	++	++	++	++	++	++	++		26	7
Bacchisa atritarsis	Cerambycidae		P	P	P		P	P	P	P	P	P		P	P	0	
Bothrogonia ferruginea	Cicadellidae	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	
Brevipalpus obovatus	Tenuipalpidae	++	++	++	++						++	++		++	++	16	12
Buzura suppressaria	Geometridae	+	+	+	+	+	+	+	+	+	++	+		+		13	15=
Calacarus carinatus	Eriophyiidae	++	++	++	++	+	+	+				+		++	+	15	13
Caloptilia theivora	Gracillariidae	+	+	+	+		+	+		+		+		+	+	10	24
Casmara petrona	Oecophoridae	+	+	+	+		+	+	+	+		+		+	+	11	23
Ceroplastes ceriferus	Coccidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	4=
Ceroplastes japonicus	Coccidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	4=
Ceroplastes rubens	Coccidae	++	++	++	++	++	++	++	++	++	++	++	++	++	++	28	4=
Culcula panterinaria	Geometridae	++	++	++					++						P	8	26=
Curculio chinensis	Curculionidae	+	+	+	+	+	+	++	+	+	+	+		+		13	15=
Ectropis obliqua	Geometridae	+++	+++			+								+		8	26=
Eterusia aedea	Zygaenidae	P	P	P			P	P	P	P	P				P	0	
Eumeta miniscula	Psychidae	+	+	+	+	+	+	+	+		+	+	+	+	+	13	15=
Eumeta variegata	Psychidae	+	+	+	+	+	+		+	+	+	+		+	+	12	20=
Euproctis pseudoconspersa	Lymantriidae	++	++	++	++	++	++	++	++	++	++	++	++	+++	++	29	3
Geisha distinctissima	Flatidae	P		P	P		P				P	P		P	P	0	
Homona coffearia	Tortricidae	++	++	++	++		++	++	++	++	++	++		++	+	23	8=
Hypomeces squamosus	Curculionidae	P	P	P	P		P		P	P	P	P		P	P	0	
Lopholeucaspis japonica	Diaspididae	+++	++	+++	++	++	+++		++	+				++		20	10=

Table 13. (cont'd) Distribution and importance of arthropod pests of tea in southern China.
中国南方茶树有害节肢动物的分布及重要性

Pest	Family	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total+s	Order
Myllocerinus aurolineatus	Curculionidae	+	++	++	++	+	+		+		+	+		++		14	14
Parametriotes theae	Cosmopterigidae	+	+	+	+		+	+	+	+				+		9	25
Polyphagotarsonemus latus	Tarsonemidae	P		P		P	P	+	++	+					+++	7	28
Pseudaonidia duplex	Diaspididae	+	+	+	+	+	+	+	+	+	+	+		+	+	13	15=
Scirtothrips dorsalis	Thripidae							+	+	+	+	+	+			6	29
Stephanitis chinensis	Tingidae							++	++							4	30
Tetranychus kanzawai	Tetranychidae	P		P										P	++	2	31
Thosea sinensis	Limacodidae	+	+	+	+	+	+	+	+		+	+		+	+	12	20=
Toxoptera aurantii	Aphididae	+	+	+	+	+	+	+	+	+	+	+		+	+	13	15=
Trachylophus sinensis	Cerambycidae			P					P		P	P		P	P	0	
Zeuzera coffeae	Cossidae			P	P				P					P	P	0	

39 species

7 with 0

Table 14. Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Acalolepta cervina	Cerambycidae	cocoa, coffee	+	+	+	+	+		5	57=
Aceria litchii	Eriophyidae	litchi		++	++	++	+	+	8	16=
Aceria mangiferae	Eriophyidae	mango	+	+	+	+			4	65=
Achaea serva	Noctuidae	mango	+						1	169=
Acherontia lachesis	Sphingidae	coffee	+						1	169=
Acrocercops syngramma	Gracillariidae	cashew, mango	++	+	++	+	+	+	8	16=
Adoretus sinicus	Scarabaeidae	mango, rubber, etc.	+	+	+	+	+	+	6	26=
Adoxophyes orana	Tortricidae	coffee, litchi		+	+	+			3	87=
Adris tyrannus	Noctuidae	mango	++	+			+		4	65=
Adrisa magna	Cydnidae	mango	+						1	169=
Aeolesthes holosercea	Cerambycidae	guava, mango	+			+			2	118=
Aiolopus thalassinus	Acrididae	mango	+	+		+			3	87=
Alcidodes frenatus	Curculionidae	cashew, mango	++	+					3	87=
Aleurocanthus spiniferus	Aleyrodidae	coconut	+			++		+	4	65=
Aleurocanthus woglumi	Aleyrodidae	mango			+	+			2	118=
Amata germana	Arctiidae	mulberry, rubber	P	P	P	P			0	
Amplypterus panopus	Sphingidae	cashew, mango	+			P			1	169=
Amsacta lactinea	Arctiidae	mango	+						1	169=
Ancistrotermes dimorphus	Termitidae	mango	++						2	118=
Anomala albopilosa	Scarabaeidae	mango, rubber	+						1	169=
Anomala cupripes	Scarabaeidae	cashew, coffee, mango, rubber	+	+	+	+	+	+	6	26=
Anomala expansa	Scarabaeidae	wax apple						+	1	169=
Anonaepestis bengalella	Pyralidae	sugar apple						++	2	118=
Anoplophora chinensis	Cerambycidae	wax apple					++	++	4	65=
Anoplophora malasiaca	Cerambycidae	litchi, longan						++	2	118=
Antitrygodes divisaria	Geometridae	mango			+	+	+		3	87=
Aphis gossypii	Aphididae	cashew, cocoa, mango	+	+		+	P	P	3	87=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Apriona germarii	Cerambycidae	chiku, jackfruit, rubber	+	+	+	+	+	+	6	26=
Apsylla cistellata	Psyllidae	mango	+++						3	87=
Araecerus fasciculatus	Anthribidae	cocoa, coffee	+	+	+	++	+	+	7	22=
Aristobia testudo	Cerambycidae	cocoa, jackfruit, litchi, longan	+	++	++	++	+	+	9	11=
Arrhines hirtus	Curculionidae	mango	+						1	169=
Artena dotata	Noctuidae	mango	P	P		P			0	
Aspidiotus destructor	Diaspididae	coconut, mango, oil palm, rubber	+	+	+	++	+	P	6	26=
Attacus atlas	Saturniidae	mango	+						1	169=
Aulacophora femoralis	Chrysomelidae	mango	+	+		+			3	87=
Bactrocera correcta	Tephritidae	guava, mango	+						1	169=
Bactrocera cucurbitae	Tephritidae	mango	+	+	+	+	+	+	6	26=
Bactrocera dorsalis	Tephritidae	carambola, guava, mango, sugar apple, wax apple, banana	+	+	+	++	+	+++	9	11=
Bactrocera occipitalis	Tephritidae	mango			P	P			0	
Baradesa omissa	Notodontidae	jackfruit, rambutan	+						1	169=
Batocera numitor	Cerambycidae	jackfruit, mango	++						2	118=
Batocera rubus	Cerambycidae	jackfruit, mango	+	+	+	+			4	65=
Batrachedra arenosella	Momphidae	betel, coconut						++	2	118=
Blepephaeus succinctor	Cerambycidae	rubber	+						1	169=
Bothrogonia ferruginea	Cicadellidae	mango	+	+		+			3	87=
Brevipalpus obovatus	Tenuipalpidae	coconut, coffee, mango, rubber	+	+	+	+	+	+	6	26=
Buzura suppressaria	Geometridae	mango	++		+	+			4	65=
Callimenellus ferruginens	Tettigoniidae	rubber				++			2	118=
Calliteara thwaitesii	Lymantriidae	mango	+	+		+			3	87=
Callitettix versicolor	Cecropidae	mango	+	+					2	118=
Campsiura javanica	Scarabaeidae	mango	+						1	169=
Campylomma chinensis	Miridae	mango		+		+			2	118=
Catantops pinguis	Acrididae	mango	+						1	169=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Centrotus terminalis	Membracidae	cashew, pepper				+			1	169=
Cephonodes hylas	Sphingidae	coffee	+	+	+	+	+	+	6	26=
Cephrenes oceanica	Hesperiidae	coconut				+			1	169=
Cerataphis lataniae	Aphididae	coconut						++	2	118=
Ceroplastes ceriferus	Coccidae	coffee, mango, pepper	P	P	P	P			0	
Ceroplastes pseudoceriferus	Coccidae	mango	++	+				+	4	65=
Ceroplastes rubens	Coccidae	mango	+	P	P	+	+	+	4	65=
Chalcocelis albiguttatus	Limacodidae	coffee, mango, pepper	+	P	P	+			2	118=
Chlumetia transversa	Noctuidae	mango	+	++	+	+++	+	+	9	11=
Chondracris rosea	Acrididae	coconut, mango, oil palm, rubber	+	+	+	+			4	65=
Chrysocoris grandis	Pentatomidae	avocado, guava	P	P		P			0	
Chrysocoris stollii	Pentatomidae	mango, rubber	P			P			0	
Chrysomphalus aonidum	Diaspididae	mango	+	+	+	+	P		4	65=
Cifuna locuples	Lymantriidae	jackfruit, rambutan		+		+			2	118=
Citripestis eutraphera	Pyralidae	mango	+						1	169=
Clitea metallica	Chrysomelidae	mango	P	P					0	
Clovia conifera	Cercopidae	coffee				+			1	169=
Coccus viridis	Coccidae	coffee, mango	+	+	+	++	++	+	8	16=
Conogethes punctiferalis	Pyralidae	mango	+			+			2	118=
Conopomorpha litchiella	Gracillariidae	litchi, longan		+	++	+	+	P	5	57=
Conopomorpha sinensis	Gracillariidae	litchi, longan		++	+++	++	+++	+++	13	3
Coptosoma variegatum	Plataspididae	mango	+			P			1	169=
Coptotermes curvignathus	Rhinotermitidae	rubber	+	+	+	+	+	+	6	26=
Coptotermes formosanus	Rhinotermitidae	litchi, longan, pineapple, rubber	+	+	+	++	+	+	7	22=
Cosmopolites sordidus	Curculionidae	banana						+	1	169=
Creatonotos gangis	Arctiidae	coffee, mango	+			P			1	169=
Creatonotos transiens	Arctiidae	mango	+			P			1	169=
Cricula trifenestrata	Saturniidae	mango, pepper	+						1	169=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Dalpada concinna	Pentatomidae	mango	+						1	169=
Dalpada oculata	Pentatomidae	litchi, mango	P	P		P			0	
Darna trima	Limacodidae	coconut, coffee, oil palm, pineapple	P	++	P	+++	P		5	57=
Dasineura amaramanjarae	Cecidomyiidae	mango	++						2	118=
Dasychira mendosa	Lymantriidae	cocoa, mango	P			+	+		2	118=
Deanolis sublimbalis	Pyralidae	mango	++						2	118=
Deporaus marginatus	Curculionidae	mango	++	++	++	+++	++	+	12	4=
Deudorix epijarbas	Lycaenidae	litchi, longan		+	+	+	+	+	5	57=
Diocalandra frumenti	Curculionidae	coconut						++	2	118=
Dorysthenes granulosus	Cerambycidae	mango, oil palm, rubber	+	+	+	+	+	+	6	26=
Drepanoderes leucofasciatus	Curculionidae	mango	+						1	169=
Dysdercus cingulatus	Pyrrhocoridae	cashew, mango	+	+		+			3	87=
Dysmicoccus brevipes	Pseudococcidae	pineapple, banana		+		+	+	+	4	65=
Elymnias hypermnestra hainana	Nymphalidae	coconut				+			1	169=
Empoasca vitis	Cicadellidae	mango	+	+	+	+	+	+	6	26=
Eotetranychus sexmaculatus	Tetranychidae	rubber	+	+	+	+	+	+	6	26=
Erionota thrax	Hesperiidae	banana	+	++	++	++	+	+	9	11=
Erionota torus	Hesperiidae	banana						++	2	118=
Erosomyia mangiferae	Cecidomyiidae	mango		+	+	+			3	87=
Eucosma notanthes	Tortricidae	carambola						++	2	118=
Eudocima salaminia	Noctuidae	guava, mango	+	+		+	+		4	65=
Eumeta japonica	Psychidae	litchi, longan						++	2	118=
Eumeta pryeri	Psychidae	cashew	P				P	P	0	
Eumeta variegata	Psychidae	coconut, coffee, jackfruit, mango	+	+	+	+	+	+	6	26=
Eupatula macrops	Noctuidae	mango	+						1	169=
Euproctis bipunctapex	Lymantriidae	mango	+	+					2	118=
Euproctis taiwana	Lymantriidae	carambola, litchi, longan, mango						++	2	118=
Eurydema cingulatus	Pentatomidae	mango	+						1	169=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Eutetranychus orientalis	Tetranychidae	mango, rubber	+	+	+	+	P	P	4	65=
Euthalia aconthea	Nymphalidae	cashew, mango	+						1	169=
Euthalia phemius	Nymphalidae	mango	+	+	+	+		+	5	57=
Eysarcoris egenus	Pentatomidae	mango	+						1	169=
Eysarcoris guttiger	Pentatomidae	coffee, mango	+						1	169=
Eysarcoris montivagus	Pentatomidae	mango	+						1	169=
Ferrisia virgata	Pseudococcidae	cocoa, coffee, pepper	+	+	P	+	P	P	3	87=
Garsauria aradoides	Cydnidae	mango	+						1	169=
Gastropacha quercifolia	Lasiocampidae	mango	+			P			1	169=
Geisha distinctissima	Flatidae	coffee, mango	+	+	+	+	+	+	6	26=
Geococcus coffeae	Pseudococcidae	coffee	+			+			2	118=
Geotomus pygmaeus	Cydnidae	mango, rubber	+						1	169=
Glyphodes caesalis	Pyralidae	jackfruit, *Adansonia digitata*	+			+			2	118=
Helopeltis fasciaticollis	Miridae	cashew, cocoa				++			2	118=
Helopeltis theivora	Miridae	cashew		+	+	++			4	65=
Hoenimnema yunnanensis	Lasiocampidae	avocado, mango	+						1	169=
Holotrichia sinensis	Melotonthidae	coffee, mango	+	+	+	+	+	+	6	26=
Homona coffearia	Tortricidae	avocado, litchi, longan	+	+	+	+	+	+	6	26=
Hoplasoma unicolor	Chrysomelidae	cocoa, mango	+						1	169=
Hypomeces squamosus	Curculionidae	mango	+	+	+	+	+	+	6	26=
Icerya aegyptiaca	Margarodidae	jackfruit	+	P	+	+	P	P	3	87=
Idioscopus atkinsoni	Cicadellidae	mango	+++						3	87=
Idioscopus clypealis	Cicadellidae	longan, mango	++		+	+		+	5	57=
Idioscopus incertus	Cicadellidae	mango	+++	+++	+++	+++	+++	++	17	1
Idioscopus niveosparsus	Cicadellidae	carambola						++	2	118=
Indarbela dea	Metarbelidae	chiku, litchi, longan, mango	+	+	+	+	+	+	6	26=
Ips acuminatus	Scolytidae	mango	+						1	169=
Kerria greeni	Keriidae	litchi, longan					P	+	1	169=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Kerria lacca	Keriidae	litchi, longan						++	2	118=
Laternaria candelaria	Fulgoridae	cocoa, longan, mango	+	+	+	+			4	169=
Lawana imitata	Flatidae	jackfruit, mango, pepper	+	+	+	+			4	65=
Lepidiota stigma	Meldonthidae	mango, rubber	+	+	+	+	+	+	6	26=
Leptocentrus albolineatus	Membracidae	cocoa, coffee, mango, pepper	+			+			2	118=
Leptocorisa acuta	Coreidae	mango	+						1	169=
Leptocorisa lepida	Coreidae	mango	+						1	169=
Leptocorisa varicornis	Coreidae	mango	+	+	P	+	P	P	3	87=
Leptoglossus gonagra	Coreidae	cashew, chiku, coffee	+					+	2	169=
Lymantria marginata	Lymantriidae	mango	+	+					2	169=
Macrotermes annandalei	Termitidae	rubber	+	++	+	+			5	57=
Macrotermes barneyi	Termitidae	rubber					++		2	118=
Mahasena colona	Psychidae	coffee, mango	+						1	169=
Megacopta fimbriata	Plataspididae	mango	+						1	169=
Megacopta orbicula	Plataspididae	mango	+						1	169=
Megopis marginalis	Cerambycidae	mango, rubber	+						1	169=
Melanitis leda	Nymphalidae	mango	+			+			2	118=
Mesophalera plagiviridis	Notodontidae	mango	+						1	169=
Microceropsylla nigra	Psyllidae	mango	++			+			3	87=
Mictis tenebrosa	Coreidae	mango	++	+					3	87=
Miresa fulgida	Limacodidae	mango	+						1	169=
Monolepta signata	Chrysomelidae	mango, rubber	+						1	169=
Mythimna loreyi	Noctuidae	mango	+			P			1	169=
Neotermes sinensis	Kalotermitidae	rubber	+	+	+	+	+	+	6	26=
Nephotettix cincticeps	Cicadellidae	mango	+			+			2	118=
Nezara viridula	Pentatomidae	mango	+	+		+			3	87=
Nipaecoccus viridis	Pseudococcidae	avocado, cocoa, coffee, jackfruit, wax apple	+	+	+	+	+	+	6	26=
Odioporus longicollis	Curculionidae	banana						+++	3	87=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Odontotermes formosanus	Termitidae	coffee, litchi, mango, rubber	+	++	++	++	++	++	11	8=
Odontotermes hainanensis	Termitidae	coffee, litchi, mango, rubber	+		+	++	++		6	26=
Oligonychus coffeae	Tetranychidae	coffee, mango	+	+	+	+	+	+	6	26=
Oligonychus mangiferus	Tetranychidae	mango	++	+	+	++	+	+	8	16=
Ophiusa coronata	Noctuidae	mango	+			+			2	118=
Ophiusa tirhaca	Noctuidae	mango	+	+		+			3	87=
Oraesia excavata	Noctuidae	guava, mango	+	+		+			3	87=
Orgyia postica	Lymantriidae	avocado, carambola, litchi, longan, mango		+	+	+	P	P	3	87=
Oryctes rhinocerus	Scarabaeidae	coconut, oil palm			+	+	+	+	4	65=
Oryctes gnu	Scarabaeidae	coconut, oil palm			+	+	+	+	4	65=
Othreis fullonia	Noctuidae	mango		+		+	+		3	87=
Oxyrhachis mangiferana	Membracidae	mango	+						1	169=
Pamera rustica	Lygaeidae	mango	+						1	169=
Panonychus citri	Tetranychidae	mango, papaya, sugar apple	++	++	++	++	++	++	12	4=
Papilio polytes	Papilionidae	mango	+	P		P	P	P	1	169=
Parasa bicolor	Limacodidae	mango	+			P			1	169=
Parasa canangae	Limacodidae	mango	+						1	169=
Parasa lepida	Limacodidae	coffee, mango, oil palm		+		+			2	118=
Parasa vivida	Limacodidae	pepper				+			1	169=
Parasaissetia nigra	Coccidae	coffee, pepper, rubber	+		+	++	+	+	6	26=
Patanga japonica	Acrididae	mango	+						1	169=
Penicillaria jocosatrix	Noctuidae	mango	+	+	+	+	+	+	6	26=
Pentalonia nigronervosa	Aphididae	banana						+++	3	87=
Phaulula gracilis	Tettigoniidae	mango	+						1	169=
Phocoderma velutina	Limacodidae	cashew, mango	++						2	118=
Phthonosema tendinosaria	Geometridae	mango	+			+			2	118=
Phyllocoptruta oleivora	Eriophyidae	lemon, pomelo	+	++	++	++		++	9	11=
Phyllotreta vittata	Chrysomelidae	mango	+			+			2	118=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Physopelta gutta	Pyrrhocoridae	mango	++						2	118=
Pinnaspis strachani	Diaspididae	mango	+						1	169=
Planococcus lilacinus	Pseudococcidae	coffee, pepper	+			+	+	+	4	65=
Platymycteropsis mandarinus	Curculionidae	litchi, mango		+	P				1	169=
Plocaderus obesus	Cerambycidae	cashew, mango	+	+	+	+	+	+	6	26=
Polyphagotarsonemus latus	Tarsonemidae	mango	+	P		+			2	118=
Popillia mutans	Scarabaeidae	mango, pineapple						+	1	169=
Prophantis octoguttalis	Pyralidae	coffee	+			P			1	169=
Protaetia brevitarsis	Scarabaeidae	wax apple						+	1	169=
Pseudococcus aonidum	Pseudococcidae	cocoa, coffee, pepper	+	P	P	+	P	P	2	118=
Pseudococcus citriculus	Pseudococcidae	coconut, mango, oil palm	+	+	+	+			4	65=
Pseudonoorda minor	Pyralidae	mango		++		+			3	87=
Pulvinaria psidii	Coccidae	coffee, mango, pepper	++	+	+	++	+	+	8	16=
Pygospila tyres	Pyralidae	mango	+						1	169=
Rhipiphorothrips cruentatus	Thripidae	betel, cashew, grape, mango, wax apple						++	2	118=
Rhyncophorus ferrugineus	Curculionidae	coconut, oil palm	+	+	+	+	+	+	6	26=
Rhytidodera bowringii	Cerambycidae	cashew, mango	+						1	169=
Ricania cacaonis	Ricaniidae	coffee				+			1	169=
Ricania speculum	Ricaniidae	cocoa, coffee, mango	+	+	+	+			4	65=
Saissetia coffeae	Coccidae	cocoa, coffee	+	P	P	+	P	P	2	118=
Salurnis marginellus	Flatidae	coffee, mango, pepper	+		+	+			3	87=
Scirtothrips dorsalis	Thripidae	banana, mango, sugar apple	++	+	+	+	+	+	7	26=
Scirtothrips mangiferae	Thripidae	mango	++						2	118=
Scopelodes venosus	Limacodidae	coffee, mango	++						2	118=
Selenothrips rubrocinctus	Thripidae	cashew, coffee, mango	+	+	+	+			4	65=
Serica boops	Scarabaeidae	mango, rubber, etc.	+	+	+	+	+	+	6	26=
Setothosea asigna	Limacodidae	coconut, coffee, oil palm, pineapple	+	+	+	++	+	+	7	22=
Sphaeroderma confine	Chrysomelidae	mango	+						1	169=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Spirama retorta	Noctuidae	mango	+						1	169=
Squamura discipuncta	Metarbelidae	litchi, longan, mango	+	+	+	+	+	+	6	26=
Stauropus alternus	Notodontidae	coffee, longan, mango	+			+			2	118=
Stephanitis typicus	Tingidae	banana, coconut, oil palm		+	+			++	4	65=
Sternochetus frigidus	Curculionidae	mango	+++	P	P	P	P		3	87=
Sternochetus olivieri	Curculionidae	mango	+++	P	P	P	P		3	87=
Suana divisa	Lasiocampidae	jackfruit, mango	+						1	169=
Susica pallida	Limacodidae	mango	+						1	169=
Tarbinskiellus portentosus	Tettigoniidae	coffee, longan, mango, pepper, pineapple, rubber	++	++	++	++	++	++	12	4=
Tessaratoma papillosa	Pentatomidae	avocado, litchi, longan	+	+++	+++	+++	+++	++	15	2
Tetranychus cinnabarinus	Tetranychidae	cassava, papaya	+	++	+	++	++	++	10	10
Tetranychus fijiensis	Tetranychidae	coconut, pomelo	+			+			2	118=
Tetranychus kanzawai	Tetranychidae	grape						P	0	
Tetranychus piercei	Tetranychidae	banana						++	2	118=
Tetranychus urticae	Tetranychidae	grape						P	0	
Thalassodes quadraria	Geometridae	litchi, mango	+	P					1	169=
Thosea sinensis	Limacodidae	mango	+	P					1	169=
Thrips hawaiiensis	Thripidae	banana, wax apple						++	2	118=
Tirathaba mundella	Pyralidae	coconut						++	2	118=
Tirathaba rufivena	Pyralidae	areca, coconut, oil palm	+			++			3	87=
Toxoptera aurantii	Aphididae	cocoa, coffee, mango, pepper	++	++	++	++	++	++	12	4=
Toxoptera odinae	Aphididae	cashew, mango	++	+		+	+	+	6	26=
Unaspis yanonensis	Diaspididae	mango	P	P	P	P	P	P	0	
Usilanus burmanicus	Lygaeidae	mango	+						1	169=
Xyleborus aquilus	Scolytidae	rubber	+	+	+	+	+	+	6	26=
Xylosandrus compactus	Scolytidae	coffee				+	P	P	1	169=
Xylotrechus grayi	Cerambycidae			+		+		+	3	87=

Table 14. (cont'd) Distribution and importance of major arthropod pests of tropical crops in southern China.
(Note: only 6 Provinces have significant production of these crops)
中国南方热带作物主要有害节肢动物的分布及重要性（只有 6 个省有这些作物的大量生产）

Pest	Family	Main crops affected	YN	GX	GD	HI	FJ	TW	Total+s	Order
Xylotrechus quadripes	Cerambycidae	coffee	+	++	+	+++	++	++	11	8=
Xylotrupes gideon	Scarabaeidae	coconut, mango, oil palm, rubber	+	+	+	+	+	+	6	26=
Zanna chinensis	Fulgoridae	mango	+						1	169=
Zeuzera coffeae	Cossidae	coffee, mango	+		+	+	+	+	5	57=
									253 species	
									12 with 0	

Table 15. Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop cr.
Abgrallaspis cyanophylli	Diaspididae	5												
Abraxas flavisinuata	Geometridae								3					
Acalolepta cervina	Cerambycidae													5
Acanthocoris concoloratus	Coreidae						14							
Acanthocoris dilatatus	Coreidae	0				0								
Acanthocoris scaber	Coreidae											4		
Acanthocoris sordidus	Coreidae						14					4		
Acanthocoris unipunctatus	Coreidae					0	14							
Acanthoecia laminati	Psychidae	4							2					
Acaphylla theae	Eriophyidae												20	
Aceria litchii	Eriophyidae													8
Aceria mangiferae	Eriophyidae													4
Aceria sheldoni	Eriophyidae	6												
Achaea janata	Noctuidae	0												
Achaea serva	Noctuidae												1	
Acherontia lachesis	Sphingidae													1
Acherontia styx	Sphingidae						0					14		
Acrida cinerea	Acrididae	0	11	14		12	14	14		0	3			
Acrida turrita	Acrididae	7										14		
Acrocercops syngramma	Gracillariidae													8
Acronicta major	Noctuidae	0												
Actias selene ningpoana	Saturniidae								12					
Actinotia intermedia	Noctuidae	7												
Adelphocoris fasciaticollis	Miridae					0								
Adelphocoris lineolatus	Miridae		9			0								

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Adelphocoris suturalis	Miridae		16											
Adisura atkinsoni	Noctuidae						0							
Adoretus formosanus	Scarabaeidae	3									1			
Adoretus sinicus	Scarabaeidae	10		14		0		22	1		6	14		6
Adoretus umbrosus	Scarabaeidae	0												
Adoxophyes cyrtosema	Tortricidae	19						5						
Adoxophyes orana	Tortricidae	36	7										23	3
Adoxophyes orana fasciata	Tortricidae			14										
Adris tyrannus	Noctuidae	1												4
Adrisa magna	Cydnidae													1
Aeolesthes holosericea	Cerambycidae			8										2
Aeolesthes sinensis	Cerambycidae	0												
Agestrata orichalcea	Scarabaeidae	0												
Agonoscelis nubila	Pentatomidae	0				0								
Agrilus auriventris	Buprestidae	0												
Agriotes fusicollis	Elateridae					1								
Agrius convolvuli	Sphingidae				0							21		
Agrotis ipsilon	Noctuidae	28	21		42	42	28	34	1			14		
Agrotis segetum	Noctuidae		5		14	15	14	20				10		
Agrotis tokionis	Noctuidae		11		14	28	14							
Ahasverus advena	Silvanidae					0								
Aiolopus thalassinus	Acrididae	0				18								3
Alcidodes frenatus	Curculionidae													3
Alcidodes trifidus	Curculionidae	0												
Alcidodes waltoni	Curculionidae											12		
Aleurocanthus citriperdus	Aleyrodidae	15												

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Aleurocanthus spiniferus	Aleyrodidae	34		14									42	4
Aleurocanthus spinosus	Aleyrodidae	4												
Aleurocanthus woglumi	Aleyrodidae													2
Aleurolobus citri	Aleyrodidae	3												
Aleurolobus marlatti	Aleyrodidae	10												
Aleurolobus setigerus	Aleyrodidae	4												
Aleurolobus szechwanensis	Aleyrodidae	1												
Aleurotuberculatus acubae	Aleyrodidae	11												
Alissonotum crassum	Scarabaeidae										1			
Alissonotum impressicolle	Scarabaeidae										8			
Alissonotum pauper	Scarabaeidae										6			
Amata germana	Arctiidae													0
Amblypterus panopus	Sphingidae													1
Amrasca biguttula	Cicadellidae	11	24			0								
Amrasca flavescens	Cicadellidae	27		14			14						1	
Amrasca formosana	Cicadellidae	4												
Amrasca vitis	Cicadellidae												42	
Amsacta lactinea	Arctiidae	11			14	0		14						1
Ancistrotermes dimorphus	Termitidae													2
Ancylomia japonica	Pyralidae									0				
Andaspis hawaiiensis	Diaspididae	0												
Andraca bipunctata	Bombycidae												12	1
Anomala albopilosa	Scarabaeidae													1
Anomala antiqua	Scarabaeidae										1			
Anomala castaneoventris	Scarabaeidae										2			
Anomala corpulenta	Scarabaeidae	12		17	14	9	14	18			2	14		

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Anomala corrugata	Scarabaeidae										2			
Anomala cuprea	Scarabaeidae	14		14										
Anomala cupripes	Scarabaeidae						14	18	7		5	14		6
Anomala daimiana	Scarabaeidae	1												
Anomala dorsalis	Scarabaeidae										1			
Anomala expansa	Scarabaeidae	0									5			1
Anomala trachypyga	Scarabaeidae	0									1			
Anomis flava	Noctuidae	21	19											
Anomis fulvida	Noctuidae	11												
Anomis mesogona	Noctuidae	20												
Anomis sabulifera	Noctuidae	4												
Anonapestis bengalella	Pyralidae													2
Anoplocnemis curvipes	Coreidae	0												
Anoplocnemis phasiana	Coreidae	0					14	16						
Anoplophora chinensis	Cerambycidae	42		24					7					4
Anoplophora horsfieldii	Cerambycidae	8												
Anoplophora imitatrix	Cerambycidae	0												
Anoplophora malasiaca	Cerambycidae	4												2
Anoplophora versteegii	Cerambycidae	4												
Anticarsia irrorata	Noctuidae	4												
Antitrygodes divisaria	Geometridae													3
Aonidiella aurantii	Diaspididae	16		14										
Aonidiella citrina	Diaspididae	13												
Aonidiella orientalis	Diaspididae	0												
Aphis craccivora	Aphididae	0					20	28						
Aphis gossypii	Aphididae	28	29	14			31							3

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Aphis spiraecola	Aphididae	15												
Apion collare	Apionidae	0												
Apoderus nigroapicatus	Attelabidae	0												
Apogonia cribricollis	Scarabaeidae	0									4			
Apomecyna excavaticeps	Cerambycidae	0												
Apomecyna saltator	Cerambycidae						14							
Apriona germarii	Cerambycidae	0		18										6
Aproaerema modicella	Gelechiidae							14						
Apsylla cistellata	Psyllidae													3
Araecerus fasciculatus	Anthribidae	0				0								7
Archips asiaticus	Tortricidae	26												
Archips eucroca	Tortricidae	3												
Archips tabescens	Tortricidae	7												
Archips xylosteanus	Tortricidae	4												
Arcte coerula	Noctuidae	7												
Aristobia hispida	Cerambycidae	0							8					
Aristobia testudo	Cerambycidae	4												9
Aromia bungii	Cerambycidae	9		14										
Arrhines hirtus	Curculionidae													1
Artena dotata	Noctuidae	12												0
Ascotis selenaria	Geometridae	8	2					7						
Asota tortuosa	Noctuidae	0												
Aspidiotus destructor	Diaspididae	10											26	6
Aspidiotus nerii	Diaspididae	2												
Aspidomorpha difformis	Chrysomelidae	0												
Aspidomorpha furcata	Chrysomelidae											14		

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Asterococcus muratae	Cerococcidae	3												
Asura strigipennis	Arctiidae	0												
Athalia rosae japanensis	Tenthredinidae				0									
Athrypsiastis salva	Xylorictidae	0												
Atractomorpha crenulata	Pyrgomorphidae					1								
Atractomorpha lata	Pyrgomorphidae	0				6								
Atractomorpha sinensis	Pyrgomorphidae	8			14	14	14	18				18		
Attacus atlas	Saturniidae	8							10					1
Atysa cinnamomi	Chrysomelidae								3					
Aulacaspis citri	Diaspididae	6												
Aulacaspis crawi	Diaspididae	11												
Aulacaspis rosarum	Diaspididae								9					
Aulacaspis tubercularis	Diaspididae	1												
Aulacaspis yabunikkei	Diaspididae								9					
Aulacophora femoralis	Chrysomelidae	0					26							3
Aulacophora lewisii	Chrysomelidae						14							
Aulacophora nigripennis	Chrysomelidae						14							
Aularches miliaris	Pyrgomorphidae								4					
Autographa nigrisigna	Noctuidae		11											
Ayyaria chaetophora	Thripidae						5							
Bacchisa atritarsis	Cerambycidae												0	
Bacchisa fortunei	Cerambycidae			14										
Bactrocera correcta	Tephritidae													1
Bactrocera cucurbitae	Tephritidae						19							6
Bactrocera dorsalis	Tephritidae	20												9
Bactrocera minax	Tephritidae	19												

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Bactrocera occipitalis	Tephritidae	2												0
Bactrocera pedestris	Tephritidae	9												
Bactrocera scutellata	Tephritidae	0												
Bactrocera tsuneonis	Tephritidae	8												
Balionebris bacteriota	Cosmopterigidae								5					
Baradesa omissa	Notodontidae													1
Basiprionota bisignata	Chrysomelidae	0												
Bathrips ipomoeae	Thripidae											3		
Batocera horsfieldi	Cerambycidae			14					18					
Batocera numitor	Cerambycidae													2
Batocera rubus	Cerambycidae	5												4
Batrachedra arenosella	Coleophoridae													2
Bemisia giffardi	Aleyrodidae	8												
Bemisia tabaci	Aleyrodidae		4				14	14						
Blattella germanica	Blattellidae					0								
Blepephaeus succinctor	Cerambycidae	7												1
Bothrogonia ferruginea	Cicadellidae	11		14									0	3
Bourletiella sp.	Sminthuridae						9							
Brachmia macroscopa	Gelechiidae				14						14			
Brachycyttarus subteralbatus	Psychidae							4						
Brachyplatys subaeneus	Plataspididae						14							
Bradysia odoriphaga	Sciaridae				14									
Brevicoryne brassicae	Aphididae				0									
Brevipalpus californicus	Tenuipalpidae	0												
Brevipalpus lewisi	Tenuipalpidae	0												
Brevipalpus obovatus	Tenuipalpidae	14											16	6

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Bruchus pisorum	Bruchidae						28							
Bruchus schonhevti	Bruchidae							5						
Buzura suppressaria	Geometridae	12						13					13	4
Buzura suppressaria benescripta	Geometridae	8												
Caedicia thymifolia	Tettigoniidae					0								
Calacarus carinatus	Eriophyidae												15	
Caliothrips fasciatus	Thripidae	4	5											
Callidium villosum	Cerambycidae						10							
Callimenellus ferruginens	Tettigoniidae													2
Calliptamus abbreviatus	Acrididae					0								
Calliteara thwaitesii	Lymantriidae													3
Callitettix versicolor	Cercopidae					10								2
Callosobruchus chinensis	Bruchidae						14							
Caloptilia theivora	Gracillariidae												10	
Calyptra lata	Noctuidae	14												
Calyptra minuticornis	Noctuidae	5												
Calyptra thalictri	Noctuidae	2												
Camplyomma chinensis	Miridae													2
Campsiura javanica	Scarabaeidae													1
Cania bilinea	Limacodidae	9												
Cania sinensis	Limacodidae	1												
Cappacea taprobanensis	Pentatomidae	0												
Carea angulata	Noctuidae								4					
Carpoglyphus lactis	Carpoglyphidae	1												
Carposina niponensis	Carposinidae	9												
Casmara patrona	Oecophoridae												11	

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Cassida circumdata	Cassididae	4										21		
Catagela adjurella	Pyralidae									0				
Catantops pinguis	Acrididae					0								1
Cavelerius saccharivorus	Pentatomidae										4			
Centrotus terminalis	Membracidae													1
Cephnodes hylas	Sphingidae													6
Cephrenes oceanica	Hesperiidae													1
Cerace stipatana	Tortricidae	6							10					
Ceracris kiangsu	Acrididae					9								
Ceracris nigricornis lata	Acrididae					0								
Cerataphis lataniae	Aphididae													2
Ceratovacuna lanigera	Aphididae	6									14			
Ceresium sinicum	Cerambycidae	0												
Ceresium sinicum ornaticolle	Cerambycidae								6					
Ceroplastes centroroseus	Coccidae	3												
Ceroplastes ceriferus	Coccidae	14											28	0
Ceroplastes floridensis	Coccidae	11												
Ceroplastes japonicus	Coccidae	2		14									28	
Ceroplastes pseudoceriferus	Coccidae	0											28	4
Ceroplastes rubens	Coccidae	15		14										4
Ceroplastes rusci	Coccidae					6			12					
Cetonia brevitarsis	Scarabaeidae					2								
Cetonia speculifera	Scarabaeidae	7				0								
Chalciope mygdon	Noctuidae	8												
Chalcocelis albiguttatus	Limacodidae	0												2
Chalcophora japonica	Buprestidae	2												

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Chalioides kondonis	Psychidae	27							14					
Charaxes bernardus	Nymphalidae								6					
Chelidonium argentatum	Cerambycidae	14												
Chelidonium citri	Cerambycidae	2												
Chelidonium gibbicolle	Cerambycidae	12												
Chilo auricilius	Pyralidae					0				3	11			
Chilo infuscatellus	Pyralidae					0					28			
Chilo sacchariphagus	Pyralidae					3					18			
Chilo suppressalis	Pyralidae					0	14			18				
Chlamydatus pullus	Miridae		0											
Chlorophanus auripes	Curculionidae								1					
Chlorophanus grandis	Curculionidae	9		14										
Chlorophanus lineolus	Curculionidae	11												
Chlorophorus annularis	Cerambycidae	0												
Chlorops oryzae	Chloropidae									7				
Chloropulvinaria aurantii	Coccidae	24												
Chloropulvinaria floccifera	Coccidae	21												
Chloropulvinaria polygonata	Coccidae	20												
Chlumetia transversa	Noctuidae													9
Chondracris rosea	Acrididae	0							14	13		12		4
Chondracris rosea rosea	Acrididae						0							
Chromatomyia horticola	Agromyzidae				19			21						
Chrysochroa fulgidissima	Buprestidae	0												
Chrysocoris grandis	Scutelleridae	0		14										0
Chrysocoris stollii	Scutelleridae													0
Chrysodeixis agnata	Noctuidae				14				17					

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Chrysomphalus aonidum	Diaspididae	23		14										4
Chrysomphalus dictylospermi	Diaspididae	15												
Cicada ochracea	Cicadidae	4												
Cicadella viridis	Cicadellidae	0		14			20		11			14		
Cifuna locuples	Lymantriidae				14		0	14	14					2
Citripestis eutraphera	Pyralidae							0						
Clanis bilineata	Sphingidae							14						
Clavigralla gibbosa	Coreidae							3						
Clavigralloides acantharis	Coreidae						3							
Cleoporus variabilis	Chrysomelidae	0						3	2					
Cletus punctiger	Coreidae						0		6		0	14		
Cletus trigonus	Coreidae	0												
Clitea metallica	Chrysomelidae	18												0
Clovia conifera	Cercopidae													1
Cnaphalocrocis medinalis	Pyralidae									42				
Coccus hesperidum	Coccidae	15												
Coccus viridis	Coccidae	0												8
Cofana spectra	Cicadellidae					0	14	3						
Coilodera penicillata	Scarabaeidae	0												
Colaphellus bowringii	Chrysomelidae				14									
Colasposoma dauricum	Chrysomelidae											14		
Conocephalus maculatus	Tettigoniidae					0								
Conogethes punctiferalis	Pyralidae	13		14		0			13					2
Conopomorpha litchiella	Gracillariidae													5
Conopomorpha sinensis	Gracillariidae													13
Contarinia citri	Cecidomyiidae	28												

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Coptosoma variegatum	Plataspididae													1
Coptotermes curvignathus	Rhinotermitidae													6
Coptotermes formosanus	Rhinotermitidae	7							2		18			7
Corgatha dictaria	Noctuidae	3												
Coridius chinensis	Dinidoridae	4					17							
Coridius fuscus	Dinidoridae	0												
Cosmopolites sordidus	Curculionidae													1
Cranaphis formosana	Aphididiae								6					
Creatonotos gangis	Arctiidae	0												1
Creatonotos transiens	Arctiidae	0												1
Cricula trifenestrata	Saturniidae													1
Cryptolestes pusillus	Cucujidae					0								
Cryptotympana atrata	Cicadidae	29		14					12					
Ctenoplusia albostriata	Noctuidae	0												
Culcula panterinaria	Geometridae												8	
Curculio chinensis	Curculionidae												13	
Cydia molesta	Tortricidae			18										
Cylas formicarius	Apionidae											31		
Dactylispa angulosa	Chrysomelidae	0												
Dactylispa excisa	Chrysomelidae	0												
Dalpada concinna	Pentatomidae													1
Dalpada oculata	Pentatomidae	0												0
Dalpada smaragdina	Pentatomidae	0												
Dappula tertia	Psychidae	17												
Darna ochracea	Limacodidae	0												
Darna trima	Limacodidae													5

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Dasineura amaramanjarae	Cecidomyiidae													2
Dasychira mendosa	Lymantriidae	0										14		2
Deanolis sublimbalis	Pyralidae													2
Delia platura	Anthomyiidae				2	0								
Dendrolimus punctatus	Lasiocampidae								33					
Dendrothripoides innoxius	Thripidae											1		
Deporaus marginatus	Curculionidae													12
Deudorix epijarbas	Lycaenidae													5
Dialeurodes citri	Aleyrodidae	23												
Dialeurodes citricola	Aleyrodidae	4												
Diaphorina citri	Psyllidae	20												
Dicladispa armigera	Chrysomelidae					0				4				
Dictyophara patruelis	Dictyopharidae	0												
Dictyophara sinica	Dictyopharidae	0				0								
Diocalandra frumenti	Curculionidae													2
Dioryctria rubella	Pyralidae								15					
Diostrombus politus	Derbidae	0				0								
Diptiloplatus sacchari	Tetranychidae										1			
Dolycoris baccarum	Pentatomidae	1				9	14							
Donacia provosti	Chrysomelidae									6				
Dorysthenes granulosus	Cerambycidae										3			8
Dorysthenes hydropicus	Cerambycidae										4			
Drepanoderes leucofasciatus	Curculionidae													1
Drosicha contrahens	Margarodidae	0												
Drosicha corpulenta	Margarodidae	5												
Dysdercus cingulatus	Pyrrhocoridae	0	3						6					3

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Dysmicoccus boninsis	Pseudococcidae										11			
Dysmicoccus brevipes	Pseudococcidae	11												4
Dysogonia analis	Noctuidae	4												
Dysogonia arctotaenia	Noctuidae	13												
Dysogonia fulvotaenia	Noctuidae	11												
Dysogonia maturata	Noctuidae	8												
Dysogonia praetermissa	Noctuidae	4												
Dysogonia simillima	Noctuidae	2												
Earias cupreoviridis	Noctuidae		19											
Earias insulana	Noctuidae		7											
Earias vittella	Noctuidae		14											
Echinocnemus bipunctatus	Curculionidae	0												
Echinocnemus squameus	Curculionidae									8				
Ectomyelois pyrivorella	Pyralidae			14										
Ectropis obliqua	Geometridae												8	
Elymnias hypermnestra hainana	Nymphalidae													1
Empoasca pirisuga	Cicadellidae							4						
Empoasca vitis	Cicadellidae					11						14		6
Endoclita nodus	Hepialidae								3					
Endoclita sinensis	Hepialidae								14					
Entomoscelis orientalis	Chrysomelidae				0									
Eoeurysa flavocapitata	Delphacidae										0			
Eotetranychus kankitus	Tetranychidae	21												
Eotetranychus sexmaculatus	Tetranychidae	16												6
Epacromius coerulipes	Acrididae					4								
Epicauta chinensis	Meloidae					0								

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Epicauta gorhami	Meloidae					0	14	14						
Epicauta hirticornis	Meloidae						14	23						
Epicauta tibialis	Meloidae						14							
Epilachna vigintioctomaculata	Coccinellidae						1							
Epilachna vigintioctopunctata	Coccinellidae						33					14		
Epimactis talantias	Oecophoridae	2												
Erebus crepuscularis	Noctuidae	9												
Erebus hieroglyphica	Noctuidae	4												
Erebus macrops	Noctuidae	0												
Eriogyna pyretorum	Saturniidae								6					
Erionota thrax	Hesperiidae													9
Erionota torus	Hesperiidae													2
Erosomyia mangiferae	Cecidomyiidae													3
Erthesina fullo	Pentatomidae	23		14			14		14					
Erythroneura sudra	Cicadellidae	2												
Eterusia aedea	Zygaenidae												0	
Etiella zinckenella	Pyralidae						31							
Eucalymnatus tesselatus	Coccidae	0												
Eucosma notanthes	Tortricidae													2
Eudocima salaminia	Noctuidae	11												4
Eumeta japonica	Psychidae													2
Eumeta miniscula	Psychidae	39		14					14				13	
Eumeta pryeri	Psychidae													0
Eumeta variegata	Psychidae	27		14		14			17				12	6
Eupatula macrops	Noctuidae													1
Euproctis bipunctapex	Lymantriidae	0												2

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Euproctis flava	Lymantriidae	0												
Euproctis montis	Lymantriidae	0												
Euproctis piperita	Lymantriidae	0												
Euproctis pseudoconspersa	Lymantriidae	11				0							29	
Euproctis pulverea	Lymantriidae	0												
Euproctis scintillans	Lymantriidae	0		14		0								
Euproctis taiwana	Lymantriidae													2
Euproctis varians	Lymantriidae	9												
Eupromus ruber	Cerambycidae								2					
Eurema hecabe	Pieridae								7					
Euricania facialis	Ricaniidae	0												
Euricania ocellus	Ricaniidae	1												
Euryaspis flavescens	Pentatomidae	0				0								
Eurydema cingulatus	Pentatomidae													1
Eurydema dominulus	Pentatomidae				14									
Eurypoda antennata	Cerambycidae	0												
Eutectona macheralis	Pyralidae								3					
Eutetranychus orientalis	Tetranychidae	3												4
Euthalia aconthea	Nymphalidae													1
Euthalia phemius	Nymphalidae													5
Exolontha serrulata	Scarabaeidae										7			
Eysarcoris egenus	Pentatomidae													1
Eysarcoris guttiger	Pentatomidae	0				0		11						
Eysarcoris montivagus	Pentatomidae					0		11						1
Eysarcoris ventralis	Pentatomidae	0				0								
Ferrisia virgata	Pseudococcidae	9												3

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Fiorinia fioriniae	Diaspididae	0												
Fiorinia japonica	Diaspididae								4					
Fiorinia theae	Diaspididae	12												
Frankliniella intonsa	Thripidae	42	10		14		14	14		10	5	6		
Frankliniella tenuicornis	Thripidae										5			
Fulmekiola serrata	Thripidae										10			
Garsauria aradoides	Cydnidae													1
Gastrimargus marmoratus	Acrididae	3				7		14	10			14		
Gastropacha quercifolia	Lasiocampidae													1
Geisha distinctissima	Flatidae	16		9		0							0	6
Geococcus citrinus	Pseudococcidae	2												
Geococcus coffeae	Pseudococcidae													2
Geotomus pygmaeus	Cydnidae													1
Gesonula punctifrons	Acrididae	0			14	0								
Glaucias crassa	Pentatomidae	4												
Glycphana fulvistemma	Scarabaeidae	0												
Glyphodes caesalis	Pyralidae													2
Gonista bicolor	Acrididae					0								
Gonocephalum bilineatum	Tenebrionidae							18						
Gralliclava horrens	Coreidae						3	3						
Grammodes geometrica	Noctuidae	8												
Grammodes stolida	Noctuidae	0												
Graphium sarpedon	Papilionidae								11					
Graphosoma rubrolineata	Pentatomidae				14									
Gravitarmata margarotana	Tortricidae								7					
Gryllotalpa formosana	Gryllotalpidae						3				4			

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Gryllotalpa orientalis	Gryllotalpidae	0				35	18	36	14		3	14		
Gryllotalpa unispina	Gryllotalpidae					8								
Gryllus bimaculatus	Gryllidae	0		14							5			
Gryllus chinensis	Gryllidae										5			
Halticus minutus	Miridae							14						
Halticus tibialis	Miridae							14				3		
Halyomorpha picus	Pentatomidae	0		14										
Haplosomoides costata	Chrysomelidae	0												
Haplothrips aculeatus	Phlaeothripidae					0				0	5			
Haplothrips chinensis	Phlaeothripidae	0						7			5			
Haplothrips subtilissimus	Phlaeothripidae	6												
Haplotropis brunneriana	Acrididae					3								
Helicoverpa armigera	Noctuidae		29			33	34							
Helicoverpa assulta	Noctuidae	27			34	14	34							
Heliothrips haemorrhoidalis	Thripidae	7		14										
Hellula undalis	Pyralidae				28									
Helopeltis fasciaticollis	Miridae													2
Helopeltis theivora	Miridae													4
Hemiberlesia lataniae	Diaspididae	2												
Hemiberlesia palmae	Diaspididae	4												
Hemiberlesia pitysophila	Diaspididae								3					
Hemiberlesia rapax	Diaspididae	0												
Herpetogramma licarsisalis	Pyralidae									3				
Hesperophanes campestris	Cerambycidae	1												
Hieroglyphus annulicornis	Acrididae					10					1			
Hieroglyphus tonkinensis	Acrididae					0					4			

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Hishimonus sellatus	Cicadellidae	14												
Hoenimnema yunnanensis	Lasiocampidae													1
Holochlora japonica	Tettigoniidae			8										
Holotrichia castaneoventris	Scarabaeidae										4			
Holotrichia formosana	Scarabaeidae										2			
Holotrichia lata	Scarabaeidae										3			
Holotrichia morosa	Scarabaeidae				0		14							
Holotrichia oblita	Scarabaeidae					7								
Holotrichia ovata	Scarabaeidae										3			
Holotrichia parallela	Scarabaeidae	0												
Holotrichia plumbea	Scarabaeidae	0												
Holotrichia sauteri	Scarabaeidae	7					14	18			3	14		
Holotrichia sinensis	Scarabaeidae	0									3			6
Holotrichia spp.	Scarabaeidae			8										
Homoeocerus striicornis	Coreidae	0												
Homoeocerus walkerianus	Coreidae								5					
Homona coffearia	Tortricidae	15											23	6
Homona magnanima	Tortricidae	10												
Hoplasoma unicolor	Chrysomelidae													1
Hulodes caranea	Noctuidae	11												
Hyblaea purea	Hyblaeidae								5					
Hydrellia sasaki	Ephydridae									0				
Hygia opaca	Coreidae	0												
Hypomeces squamosus	Curculionidae	19	4	14		0	14		9			14	0	6
Hypopyra vespertilio	Noctuidae	10												
Hypsipyla robusta	Pseudococcidae								3					

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Icerya aegyptiaca	Margarodidae	8												3
Icerya purchasi	Margarodidae	27		14					15					
Icerya seychellarum	Margarodidae	21		6										
Idioscopus atkinsoni	Cicadellidae													3
Idioscopus clypealis	Cicadellidae													5
Idioscopus incertus	Cicadellidae	5												17
Idioscopus niveosparsus	Cicadellidae													2
Indarbela dea	Metarbelidae	4							6					6
Ips acuminatus	Scolytidae													1
Iscadia inexacta	Noctuidae	0												
Ischyja manila	Noctuidae	7												
Janus piri	Cephidae			14										
Kerria greeni	Keriidae													1
Kerria lacca	Keriidae													2
Kolla albomarginata	Cicadellidae	0						5						
Kophene snelleni	Psychidae	0												
Laccoptera quadrimaculata	Chrysomelidae											8		
Lacera alope	Noctuidae	0												
Lachnosterna horishana	Scarabaeidae										4			
Laodelphax striatella	Delphacidae					12				7				
Laternaria candelaria	Fulgoridae	13												1
Lawana imitata	Flatidae	13												4
Lebeda nobilis	Lasiocampidae								7					
Lefroyothrips lefroyi	Thripidae	2												
Leguminivora glycinivorella	Tortricidae						0							
Lelia decempunctata	Pentatomidae	0												

Table 15. (cont`d) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Lelia octopunctata	Pentatomidae	1												
Lema fortunei	Chrysomelidae	0												
Lepidiota stigma	Scarabaeidae								4		4			6
Lepidopsyche unicolor	Psychidae	2												
Lepidosaphes beckii	Diaspididae	10												
Lepidosaphes gloverii	Diaspididae	13		14										
Lepidosaphes pallida	Diaspididae	3												
Lepidosaphes tubulorum	Diaspididae	3												
Lepidosaphes ulmi	Diaspididae	12												
Leptocentrus albolineatus	Membracidae													2
Leptocorisa acuta	Alydidae	0				0	14	3				14		1
Leptocorisa lepida	Alydidae													1
Leptocorisa varicornis	Alydidae	0				0								3
Leptoglossus gonagra	Coreidae													2
Leucinodes orbonalis	Pyralidae						7							
Linda atricornis	Cerambycidae			7										
Linda fraterna	Cerambycidae			7										
Liorhyssus hyalinus	Rhopalidae	0				0		14						
Lipaphis erisimi pseudobrassicae	Aphididae	20			28			14						
Liriomyza brassicae	Agromyzidae				1									
Liriomyza bryoniae	Agromyzidae				14									
Liriomyza chinensis	Agromyzidae				8									
Liriomyza sativae	Agromyzidae				27		27							
Locusta migratoria manilensis	Acrididae	0				18		19			4	19		
Lophocateres pusillus	Trogossitidae					0								
Lopholeucaspis japonica	Diaspididae	16											20	

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Lycorma delicatula	Fulgoridae								6					
Lygocoris lucorum	Miridae	0	22			0								
Lygus pratensis	Miridae					0								
Lymantria dissoluta	Lymantriidae								9					
Lymantria marginata	Lymantriidae													2
Lymantria xylina	Lymantriidae								3					
Macrosteles quadrilineatus	Cicadellidae					8								
Macrotermes annandalei	Termitidae								2					5
Macrotermes barneyi	Termitidae								8		3			2
Mahasena colona	Psychidae	17												1
Maladera formosae	Scarabaeidae										2			
Maladera orientalis	Scarabaeidae					2								
Mamestra brassicae	Noctuidae	0	3		0	4								
Marasmia exigua	Pyralidae									0				
Maruca vitrata	Pyralidae						38							
Massicus raddei	Cerambycidae	0												
Matsucoccus massonianae	Margarodidae								1					
Mecopoda elongata	Tettigoniidae					0								
Medythia nigrobilineata	Chrysomelidae	0				0								
Megacopta cribraria	Plataspididae	0		14			14	17				14		
Megacopta fimbriata	Plataspididae													1
Megacopta horvathi	Plataspididae						14							
Megacopta orbicula	Plataspididae													1
Megalurothrips distalis	Thripidae						14	16						
Megalurothrips usitatus	Thripidae						14	16						
Megarrhamphus truncatus	Pentatomidae					0								

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Megopis marginalis	Cerambycidae													1
Megymenum brevicorne	Pentatomidae						14							
Megymenum gracilicorne	Dinidoridae							14						
Megymenum inerme	Pentatomidae						17							
Meimuna opalifera	Cicadidae	0												
Melanagromyza sojae	Agromyzidae						14							
Melanaphis sacchari	Aphididae					2					4			
Melanitis leda	Nymphalidae	0								0				2
Melanographia flexilineata	Noctuidae	0												
Melanotus caudex	Elateridae										3			
Melanotus tamsuyensis	Elateridae										3			
Menida bengalensis	Pentatomidae	0				0								
Menida violacea	Pentatomidae					0								
Mesonura rufonota	Tenthredinidae								8					
Mesophalera plagiviridis	Notodontidae													1
Metonymia glandulosa	Pentatomidae	0												
Metopta rectifasciata	Noctuidae	9												
Micraspis discolor	Coccinellidae					0								
Microceropsylla nigra	Carsidaridae													3
Microtrichia cephalotes	Scarabaeidae										3			
Mictis tenebrosa	Coreidae							2						3
Mimastra cyanura	Chrysomelidae	0												
Mimela testaceoviridis	Scarabaeidae										3			
Miresa fulgida	Limacodidae													1
Mocis dalosa	Noctuidae	0												
Mocis frugalis	Noctuidae	4												

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Mocis undata	Noctuidae	20												
Mogannia hebes	Cicadellidae	0									2			
Monema flavescens	Limacodidae	31		14					14					
Monochamus alternatus	Cerambycidae								20					
Monolepta hieroglyphica	Chrysomelidae					0								
Monolepta signata	Chrysomelidae													1
Mycalesis gotama	Nymphalidae									0				
Mylabris cichorii	Meloidae						14	14						
Mylabris phalerata	Meloidae						14	25						
Myllocerinus aurolineatus	Curculionidae												14	
Mythimna loreyi	Noctuidae					9				0				1
Mythimna separata	Noctuidae				0	42	0			0				
Mythimna venalba	Noctuidae					3				0				
Myzus persicae	Aphididae	9		14	34		30					3		
Nadezhdiella cantori	Cerambycidae	29												
Nagodopsis shirakiana	Limacodidae	1												
Naranga aenescens	Noctuidae					0				5				
Narosa nitobei	Limacodidae	2												
Neodiprion japonica	Diprionidae								1					
Neodiprion zhejiangensis	Diprionidae								7					
Neotermes sinensis	Kalotermitidae												6	
Nephotettix cincticeps	Cicadellidae					0				14				2
Nephotettix nigromaculatus	Cicadellidae									0				
Nephotettix virescens	Cicadellidae	0												
Nezara antennata	Pentatomidae	0												
Nezara viridula	Pentatomidae			14		0	23	18		0				3

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Nilaparvata lugens	Delphacidae									42				
Nipaecoccus filamentosus	Pseudococcidae	4												
Nipaecoccus viridis	Pseudococcidae	21		17										6
Niphe elongata	Pentatomidae					0				4				
Niphona hookeri	Cerambycidae	3												
Nirvana pallida	Cicadellidae	4												
Nirvana suturalis	Cicadellidae	3												
Nisia atrovenosa	Meenoplidae	0				0								
Nola taeniata	Noctuidae									0				
Notobitus meleagris	Coreidae	0												
Nyctemera adversata	Arctiidae	0												
Oberea formosana	Cerambycidae	6												
Oberea fusiventris	Cerambycidae								1					
Obiphora intermedia	Aphrophoridae	0												
Ochyrotica concursa	Pterophoridae											4		
Octaspidiotus stauntoniae	Diaspididae	2												
Odioporus longicollis	Curculionidae													3
Odontolabis cuvera	Lucanidae	0												
Odontolabis siva	Lucanidae	0												
Odontotermes formosanus	Termitidae	9		10					8		5			11
Odontotermes hainanensis	Termitidae								1		2			6
Oedaleus infernalis	Acrididae	0				10								
Oides decempunctata	Chrysomelidae	0					14	14						
Oliarus apicalis	Cixiidae	0				0								
Oligonychus coffeae	Tetranychidae	0												6
Oligonychus exsiccator	Tetranychidae										1			

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Oligonychus mangiferus	Tetranychidae													8
Oligonychus shinkajii	Tetranychidae										6			
Omiodes indicata	Pyralidae						14							
Omphisa anastomosalis	Pyralidae											18		
Oncotympana maculaticollis	Cicadidae	1												
Ophisma gravata	Noctuidae	4												
Ophiusa coronata	Noctuidae	0												2
Ophiusa indiscriminata	Noctuidae	4												
Ophiusa tirhaca	Noctuidae	28												3
Ophiusa trapezium	Noctuidae	4												
Ophiusa trigonaenoides	Noctuidae	20												
Oracella acuta	Pseudococcidae								3					
Oraesia emarginata	Noctuidae	27												
Oraesia excavata	Noctuidae	36												3
Orgyia postica	Lymantriidae								5					3
Orseolia oryzae	Cecidomyiidae									11				
Orthaga achatina	Pyralidae								9					
Orthezia insignis	Ortheziidae	0												
Orthophagus splendens	Dictyopharidae	0												
Oryctes gnu	Scarabaeidae													4
Oryctes rhinoceros	Scarabaeidae										2			4
Ostrinia furnacalis	Pyralidae		24			42	0							
Othreis ancilla	Noctuidae	1												
Othreis fullonia	Noctuidae	39												3
Oulema oryzae	Chrysomelidae	0								0				
Oxya chinensis	Acrididae	0				20		17		0	3	14		

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Oxya diminuta	Acrididae							8						
Oxya hyla intricata	Acrididae	0				0								
Oxya velox	Acrididae	0				12		8						
Oxycetonia jucunda	Scarabaeidae	10												
Oxyodes scrobiculata	Noctuidae	5												
Oxyrhachis mangiferana	Membracidae													1
Pamera rustica	Lygaeidae													1
Pandemis cerasana	Tortricidae	0												
Panonychus citri	Tetranychidae	42												12
Panonychus elongatus	Tetranychidae	3												
Papilio bianor	Papilionidae	22												
Papilio bianor mandschurica	Papilionidae	4												
Papilio demoleus	Papilionidae	16												
Papilio dialis	Papilionidae	14												
Papilio helenus	Papilionidae	12												
Papilio machaon	Papilionidae	36												
Papilio machaon hippocrates	Papilionidae	2												
Papilio macilentus	Papilionidae	2												
Papilio memnon	Papilionidae	19												
Papilio nephelus chaon	Papilionidae	14												
Papilio paris	Papilionidae	21												
Papilio polytes	Papilionidae	42												1
Papilio polytes javanus	Papilionidae	2												
Papilio protenor	Papilionidae	24												
Papilio protenor demetrius	Papilionidae	4												
Papilio thaiwanus	Papilionidae	3												

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Papilio xuthus	Papilionidae	42												
Parabemisia myricae	Aleyrodidae	0												
Parallelia palumba	Noctuidae	2												
Parametriotes theae	Agonoxenidae												9	
Paraponyx stagnalis	Pyralidae									0				
Parasa bicolor	Limacodidae													1
Parasa canangae	Limacodidae													1
Parasa consocia	Limacodidae	17		14		0								
Parasa lepida	Limacodidae													2
Parasa sinica	Limacodidae													1
Parasa vivida	Limacodidae	8												
Parasaissetia nigra	Coccidae	5												6
Parlatoria camelliae	Diaspididae	7												
Parlatoria oleae	Diaspididae	0												
Parlatoria pergandii	Diaspididae	27		14										
Parlatoria proteus	Diaspididae	23		14										
Parlatoria theae	Diaspididae	8												
Parlatoria zizyphi	Diaspididae	19												
Parnara ganga	Hesperiidae									0				
Parnara guttatus	Hesperiidae									25				
Parthenolecanium persicae	Coccidae	3												
Patanga japonica	Acrididae	0				11								3
Patanga succincta	Acrididae	0				7		9			2	7		
Pectinophora gossypiella	Gelechiidae		29											
Pelopidas mathias	Hesperiidae									0				
Penicillaria jocosatrix	Noctuidae													6

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Pentalonia nigronervosa	Aphididae													3
Pericapritermes nitobei	Termitidae										3			
Perkinsiella saccharicida	Delphacidae										8			
Petrova cristata	Tortricidae								6					
Phaedon brassicae	Chrysomelidae				14									
Phaenacantha bicolor	Pentatomidae										1			
Phalera combusta	Notodontidae					0								
Phaulula gracilis	Tettigoniidae													1
Philus antennatus	Cerambycidae	7												
Philus pallescens	Cerambycidae	0									4			
Phlaeoba infumata	Acrididae											2		
Phloeosinus sinensis	Scolytidae								9					
Phocoderma velutina	Limacodidae													2
Phragmataecia castaneae	Cossidae										2			
Phthonosema tendinosaria	Geometridae													2
Phthorimaea operculella	Gelechiidae						14							
Phyllocnistis citrella	Gracillariidae	42												
Phyllocoptruta oleivora	Eriophyidae	42												9
Phyllotreta rectilineata	Chrysomelidae				10									
Phyllotreta striolata	Chrysomelidae				35	0								
Phyllotreta vittata	Chrysomelidae													2
Physauchenia bifasciata	Chrysomelidae	0												
Physopelta gutta	Largidae													2
Phytoscaphus gossypii	Curculionidae		5											
Pieris brassicae	Pieridae				2									
Pieris canidia	Pieridae				19									

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Pieris rapae	Pieridae				40									
Piezodorus hybneri	Pentatomidae					0								
Pinnaspis aspidistrae	Diaspididae	12												
Pinnaspis strachani	Diaspididae													1
Pinnaspis theae	Diaspididae	4												
Pinnaspis uniloba	Diaspididae	0												
Plagiodera versicolora	Chrysomelidae	0												
Planococcus citri	Pseudococcidae	25		14										
Planococcus kraunhiae	Pseudococcidae	1												
Planococcus lilacinus	Diaspididae	2												4
Platymycteropsis mandarinus	Curculionidae	9												1
Platypleura kaempferi	Cicadidae	16												
Plautia fimbriata	Pentatomidae	0												
Pleonomus canaliculatus	Elateridae					3								
Pleuroptya chlorophanta	Pyralidae					0								
Plocaderus obesus	Cerambycidae													6
Plusiodonta coelonota	Noctuidae	6												
Plutella xylostella	Yponomeutidae				42									
Podagricomela nigricollis	Chrysomelidae	17												
Podagricomela weise	Chrysomelidae	17												
Podontia lutea	Chrysomelidae	0												
Poecilocoris druraei	Scutelleridae	0												
Poecilophilides rusticola	Scarabaeidae					0								
Polychrosis cunninghamiacola	Tortricidae								11					
Polygonia c-aureum	Nymphalidae	0												
Polyphagotarsonemus latus	Tarsonemidae	14			14		21	14					7	2

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Popillia mutans	Scarabaeidae													1
Prionus insularis	Cerambycidae	8												
Priotyrranus closteroides	Cerambycidae	7												
Prophantis octoguttalis	Pyralidae													1
Protaetia brevitarsis	Scarabaeidae													1
Psacothea hilaris	Cerambycidae	9												
Psalis pennatula	Lymantriidae					0								
Pseudaeolesthes chrysothrix	Cerambycidae	1												
Pseudaeolesthes chrysothrix tibetana	Cerambycidae	1												
Pseudaonidia duplex	Diaspididae	4							4				13	
Pseudaonidia trilobitiformis	Diaspididae	0												
Pseudaulacaspis pentagona	Diaspididae	4		14										
Pseudocatharylla inclaralis	Pyralidae									0				
Pseudococcus adonidum	Pseudococcidae	8												2
Pseudococcus calceolariae	Pseudococcidae	24												
Pseudococcus citriculus	Pseudococcidae	26												4
Pseudococcus comstocki	Pseudococcidae	12				0								
Pseudococcus maritimus	Pseudococcidae	0												
Pseudonoorda minor	Pyralidae													3
Psylla citricola	Psyllidae	1												
Psylla coccinea	Psyllidae	1												
Pterophorus niveodactylus	Pterophoridae											6		
Ptinus fur	Ptinidae					0								
Ptosima chinensis	Buprestidae			12										
Pulvinaria citricola	Coccidae	7												
Pulvinaria psidii	Coccidae	19												8

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Pygospila tyres	Pyralidae													1
Quadraspidiotus perniciosus	Diaspididae	5		14										
Recilia dorsalis	Cicadellidae	12						1		0				
Redoa alba	Lymantriidae	0												
Reticulitermes flavipes	Rhinotermitidae										5			
Reticulitermes speratus	Rhinotermitidae					0								
Rhipiphorothrips cruentatus	Thripidae													2
Rhomborrhina fulvopilosa	Scarabaeidae	0												
Rhomborrhina japonica	Scarabaeidae	0												
Rhomborrhina resplendens	Scarabaeidae	4												
Rhomborrhina unicolor	Scarabaeidae	0												
Rhopalosiphum maidis	Aphididae					4								
Rhopalosiphum padi	Aphididae					7								
Rhynchites confragosicollis	Curculionidae			14										
Rhynchites foveipennis	Curculionidae			14										
Rhynchocoris humeralis	Pentatomidae	25												
Rhynchocoris nigridens	Pentatomidae	2												
Rhyncophorus ferrugineus	Curculionidae													6
Rhytia hypermnestra	Noctuidae	3												
Rhytidodera bowringii	Cerambycidae													1
Ricania cacaonis	Ricaniidae													1
Ricania japonica	Ricaniidae	0												
Ricania simulans	Ricaniidae	0												
Ricania speculum	Ricaniidae	1												4
Ricania taeniata	Ricaniidae	0				0								
Riptortus clavatus	Alydidae	0												

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Riptortus linearis	Alydidae	0				0	14	14						
Riptortus pedestris	Alydidae	0				0	14		14					
Rondibilis chengtuensis	Cerambycidae	1												
Saccharicoccus sacchari	Pseudococcidae										10			
Saccharosydne procerus	Delphacidae						14							
Saissetia citricola	Coccidae	8												
Saissetia coffeae	Coccidae	19												2
Saissetia oleae	Coccidae	14												
Salurnis marginellus	Flatidae	9				0								3
Samia cynthia	Saturniidae	8								7				
Scirpophaga excerptalis	Pyralidae										5			
Scirpophaga incertulas	Pyralidae									10				
Scirpophaga nivella	Pyralidae										2			
Scirpophaga praelata	Pyralidae						3							
Scirtothrips dorsalis	Thripidae	42					14						6	7
Scirtothrips mangiferae	Thripidae													2
Scopelodes venosus	Limacodidae													2
Scotinophara lurida	Pentatomidae	0				0					0			
Scutellera perplexa	Scutelleridae	1												
Selenothrips rubrocinctus	Thripidae	28												4
Semanotus sinoauster	Cerambycidae								13					
Serica boops	Scarabaeidae													6
Serrodes campana	Noctuidae	0												
Serrognathus titanus	Lucanidae	1												
Sesamia calamistis	Noctuidae					0								
Sesamia inferens	Noctuidae					25				2	23			
Sesamia uniformis	Noctuidae										9			

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Setora sinensis	Limacodidae	0							11					
Setothosea asigna	Limacodidae												7	
Shirahoshizo flavonotatus	Curculionidae								8					
Shirakiacris shiraki	Acrididae					1								
Sinomegoura citricola	Aphididae								7					
Sinorsillus piliferus	Lygaeidae								9					
Sinoxylon anale	Bostrychidae								4					
Sitobion avenae	Aphididae					0								
Sitophilus zeamais	Curculionidae					16								
Sitotroga cerealella	Gelechiidae					16								
Smynthurodes betae	Aphididae		0											
Sogatella furcifera	Delphacidae					13				28				
Solenosthedium chinensis	Scutelleridae	0												
Sonsaucoccus sinensis	Margarodidae								6					
Sphaeroderma confine	Chrysomelidae													1
Sphrageidus similis	Lymantriidae	0		14										
Spilarctia obliqua	Arctiidae				14	0		14						
Spilarctia subcarnea	Arctiidae	0			14	0		14						
Spilosoma lubricipeda	Arctiidae				0		0							
Spilosoma punctaria	Arctiidae				14									
Spirama retorta	Noctuidae	12												1
Spodoptera exigua	Noctuidae				31	0	31					28		
Spodoptera litura	Noctuidae	14	11		14	12	28	33				27		
Spodoptera mauritia	Noctuidae					0				1				
Spoladea recurvalis	Pyralidae					0	0							
Squamura discipuncta	Metabelidae								7					6
Stauropus alternus	Notodontidae								4					2

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Stenchaetothrips biformis	Thripidae					0				11	5			
Stenocatantops splendens	Acrididae					10		14				5		
Stephanitis chinensis	Tingidae												4	
Stephanitis laudata	Tingidae								4					
Stephanitis macaona	Tingidae								2					
Stephanitis nashi	Tingidae			14										
Stephanitis typicus	Tingidae													4
Sternochetus frigidus	Curculionidae													3
Sternochetus olivieri	Curculionidae													3
Strepsicrates nr *semicanella*									2					
Stromatium longicorne	Cerambycidae								4					
Suana divisa	Lasiocampidae								2					
Susica pallida	Limacodidae													1
Sybra punctatostriata	Cerambycidae	0												
Sympiezomias citri	Curculionidae	13												
Sympiezomias cribricollis	Curculionidae	1												
Sympiezomias lewisi	Curculionidae	8												
Sympiezomias velatus	Curculionidae		2											
Sympis rufibasis	Noctuidae	3												
Sypnoides simplex	Noctuidae	0												
Tachardina theae	Keriidae	0												
Taiwania versicolor	Chrysomelidae	0												
Takahashia japonica	Coccidae	0												
Tambinia debilis	Tropidochidae	0												
Tarbinskiellus portentosus	Gryllidae	8		14		14		32	11		4	19		12
Tartessus ferrugineus	Cicadellidae	4												
Teleogryllus emma	Gryllidae					14						19		

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Teleogryllus testaceus	Gryllidae	0	7				0	33			5			
Terthron albovittatum	Delphacidae	0				0								
Tessaratoma papillosa	Tessaratomidae	4												15
Tessaratoma quadrata	Tessaratomidae	0									19			
Tetramoera schistaceana	Tortricidae										4			
Tetraneura nigriabdominalis	Aphididae										4			
Tetranychus cinnabarinus	Tetranychidae	12	29	14		16	17		17					9
Tetranychus fijiensis	Tetranychidae													2
Tetranychus kanzawai	Tetranychidae												2	0
Tetranychus piercei	Tetranychidae													2
Tetranychus truncatus	Tetranychidae					8								
Tetranychus urticae	Tetranychidae	0				8								0
Tetrix japonica	Tetrigidae							9						
Tetroda histeroides	Pentatomidae					0								
Thaia subrufa	Cicadellidae					9				12				
Thalassodes quadraria	Geometridae								19					1
Theretra oldenlandiae	Sphingidae											14		
Theretra silhetensis	Sphingidae				14									
Thlaspida biramosa japonica	Chrysomelidae	0												
Thosea sinensis	Limacodidae	13											12	1
Thrips alliorum	Thripidae				6									
Thrips andrewsi	Thripidae	0												
Thrips coloratus	Thripidae	0						0						
Thrips flavidulus	Thripidae	4			0		0	0						
Thrips flavus	Thripidae	4			14		14	4						
Thrips hawaiiensis	Thripidae	11			0		0	0				0		2
Thrips palmi	Thripidae						33							

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Thrips tabaci	Thripidae	4			28									
Throscoryssa citri	Chrysomelidae	3												
Thyas juno	Noctuidae	10												
Thysanoplusia orichalcea	Noctuidae				14									
Ticera castanea	Lasiocampidae								2					
Tiracola plagiata	Noctuidae	0												
Tirathaba mundella	Pyralidae													2
Tirathaba rufivena	Pyralidae													3
Tomicus minor	Scolytidae								3					
Tomicus piniperda	Scolytidae								5					
Toxoptera aurantii	Aphididae	42											13	12
Toxoptera citricida	Aphididae	42		17										
Toxoptera odinae	Aphididae	0												0
Trabala vishnou	Lasiocampidae	0							5					
Trachylopus sinensis	Cerambycidae	0											0	
Trialeurodes vaporariorum	Aleyrodidae				0		0							
Tribolium castaneum	Tenebrionidae					3								
Trichochrysea nitidissima	Chrysomelidae								8					
Trichoplusia ni	Noctuidae				14									
Tridactylus japonicus	Tridactylidae							2						
Trigonodes hyppasia	Noctuidae	6												
Trilophidia annulata	Acrididae	0				7								
Trioza camphorae	Triozidae								5					
Trirachys orientalis	Cerambycidae	6							12					
Tropidothorax elegans	Lygaeidae				0									
Truljalia hibinonis	Gryllidae					0								
Tusothrips calopgoniae	Thripidae						4							

Table 15. (cont'd) Distribution and importance of arthropod pests of agriculture and forestry plantations in southern China. (Score of +s in tables 2 to 14)
中国南方农林业有害节肢动物的分布及重要性（表 2-14 中 "+" 号总数）

Pest	Family	2 citrus	3 cotton	4 fruit	5 leafy v.	6 maize	7 other vegs	8 pea nuts	9 trees	10 rice	11 sugar	12 sw. pot.	13 tea	14 trop. cr.
Udaspes folus	Hesperiidae						14							
Unaspis citri	Diaspididae	1												
Unaspis yanonensis	Diaspididae	35												0
Unkanodes sapporonus	Delphacidae					8								
Uroleucon formosanus	Aphididae				14									
Usilanus burmanicus	Lygaeidae													1
Xanthodes graellsii	Noctuidae		4											
Xanthodes malvae	Noctuidae		3											
Xanthodes transversa	Noctuidae		2											
Xenocatantops humilis	Acrididae					8								
Xenocatantops humilis brachycerus	Acrididae					8								
Xestia c-nigrum	Noctuidae	18				0								
Xyleborus aquilus	Scolytidae													6
Xylophylla punctifascia	Noctuidae	0												
Xylosandrus compactus	Scolytidae													1
Xylotrechus chinensis	Cerambycidae	0		6										
Xylotrechus grayi	Cerambycidae													3
Xylotrechus quadripes	Cerambycidae													11
Xylotrupes gideon	Scarabaeidae													6
Xystrocera globosa	Cerambycidae			14					7					
Zanna chinensis	Fulgoridae													1
Zeuzera coffeae	Cossidae	7	0										0	5
Zeuzera multistrigata	Cossidae								6					
Zicrona caerulea	Pentatomidae					0								

Table 16 Ranking of arthropod pests scoring 14+ or more
有14个及更多 "+" 号的有害节肢动物的排位

In order to arrange in order of importance the major pests, as revealed in Table 15, the convention has been adopted of taking, as the major indicator, the highest score for each species in any one of the tables. Table 16 lists each of the 269 species in descending order of +s from the maximum (42+) down to 14+. Many of the group of 96 pests, each scoring 14+, do so by recording a single + in each Province, so they are generally not of very great importance. However, any pest scoring 15+ or more must have scored ++ in at least one Province, so must be regarded as more serious. There are some pests whose total rating is less than 15 that have scored +++ in one or more Province. Whereas these are not of high regional importance, their local rating might well justify a classical biological control approach by that particular Province. It is, of course, necessary to recognise that the + scores are highly subjective and have not been allocated in precisely the same way by all contributors, so small differences in totals are not necessarily significant.

Species of Lepidoptera (36%) are the commonest major pests, followed by Hemiptera (32%), Coleoptera (14%), Orthoptera (5%), Acarina (5%), Thysanoptera (4%) and Diptera (2%). World wide there has been a higher success rate with classical biological control of Hemiptera than other orders, followed by Lepidoptera.

42+
Agrotis ipsilon
Aleurocanthus spiniferus
Amrasca vitis
Anoplophora chinensis
Cnaphalocrocis medinalis
Frankliniella intonsa
Mythimna separata
Nilaparvata lugens
Ostrinia furnacalis
Panonychus citri
Papilio polytes
Papilio xuthus
Phyllocnistis citrella
Phyllocoptruta oleivora
Plutella xylostella
Scirtothrips dorsalis
Toxoptera aurantii
Toxoptera citricida

40+
Pieris rapae

39+
Eumeta miniscula
Othreis fullonia

38+
Maruca vitrata

36+
Adoxophyes orana
Gryllotalpa orientalis
Oraesia excavata
Papilio machaon

35+
Phyllotreta striolata
Unaspis yannonensis

34+
Helicoverpa armigera
Helicoverpa assulta
Myzus persicae

33+
Dendrolimus punctatus
Epilachna vigintioctopunctata
Spodoptera litura
Teleogryllus testaceus
Thrips palmi

32+
Tarbinskiellus portentosus

31+
Aphis gossypii
Cylas formicarius
Etiella zinckenella

Monema flavescens
Spodoptera exigua

29+
Cryptotympana atrata
Euproctis pseudoconspersa
Nadezhdiella cantori
Pectinophora gossypiella
Tetranychus cinnabarinus

28+
Agrotis tokionis
Aphis craccivora
Bruchus pisorum
Ceroplastes ceriferus
Ceroplastes japonicus
Ceroplastes pseudoceriferus
Chilo infuscatellus
Contarinia citri
Hellula undalis
Lipaphis erisimi pseudobrassicae
Ophiusa tirhaca
Selenothrips rubrocinctus
Sogatella furcifera
Thrips tabaci

27+
Amrasca flavescens
Chalioides kondonis
Eumeta variegata
Icerya purchasi
Liriomyza sativae
Oraesia emarginata
Parlatoria pergandii

26+
Archips asiaticus
Aspidiotus destructor
Aulacophora femoralis
Pseudococcus citriculus

25+
Mylabris phalerata
Parnara guttatus
Planococcus citri
Rhynchocoris humeralis
Sesamia inferens

24+
Amrasca biguttula
Chloropulvinaria aurantii
Papilio protenor
Pseudococcus calceolariae

23+
Chrysomphalus aonidum
Dialeurodes citri
Epicauta hirticornis
Erthesina fullo
Homona coffearia
Nezara viridula
Parlatoria proteus

22+
Adoretus sinicus
Lygocorus lucorum
Papilio bianor

21+
Agrius convolvuli
Anomis flava
Cassida circumdata
Chromatomyia horticola
Eotetranychus kankitus
Icerya seychellarum
Nipaecoccus viridis
Papilio paris
Polyphagotarsonemus latus
Pulvinaria floccifera

20+
Acaphylla theae
Agrotis segetum
Anomis mesogona
Bactrocera dorsalis
Chloropulvinaria polygonata
Cicadella viridis
Diaphorina citri
Lopholeucaspis japonica
Mocis undata
Monochamus alternatus
Ophiusa triphaenoides
Oxya chinensis

19+
Adoxophyes cyrtosema
Bactrocera cucurbitae
Bactrocera minax
Earias cupreoviridis
Hypomeces squamosus
Locusta migratoria manilensis
Papilio memnon
Parlatoria zizyphi
Pieris canidia
Pulvinaria psidii
Saissetia coffeae
Teleogryllus emma
Tessaratoma quadrata
Thalassodes quadraria

18+
Aiolopus thalassinus
Anomala corpulenta
Anomala cupripes

Apriona germarii
Atractomorpha sinensis
Batocera horsfieldi
Chilo sacchariphagus
Chilo suppressalis
Clitea metallica
Coptotermes formosanus
Cydia molesta
Gonocephalum bilineatum
Graphosoma rubrolineata
Holotrichia sauteri
Omphisa anastomosalis
Xestia c-nigrum

17+
Chrysodeixis agnata
Coridius chinensis
Dappula tertia
Idioscopus incertus
Mahasena colona
Megacopta cribraria
Megymenum inerme
Parasa consocia
Podagricomela nigricollis
Podagricomela weisei

16+
Adelphocoris suturalis
Anoplocnemis phasiana
Aonidiella aurantii
Brevipalpus obovatus
Eotetranychus sexmaculatus
Geisha distinctissima
Megalurothrips distalis
Megalurothrips usitatus
Papilio demoleus
Platypleura kaempferi
Sitophilus zeamais
Sitotroga cerealella

15+
Aleurocanthus citriperdus
Aphis spiraecola
Calacarus carinatus
Ceroplastes rubens
Chrysomphalus dictylospermi
Coccus hesperidum
Dioryctria rubella
Tessaratoma papillosa

14+
Acanthocoris concoloratus
Acanthocoris sordidus
Acanthocoris unipunctatus
Acherontia styx
Acrida cinerea
Acrida turrita
Adoxyphes orana fasciata
Amsacta lactinea
Anomala cuprea
Apomecyna saltator
Aproaerema modicella
Aromia bungi
Aspidomorpha furcata
Aulacophora lewisi
Aulacophora nigripennis
Bacchisa fortunei
Bemisia tabaci
Bothrogonia ferruginea
Brachmia macroscopa
Brachyplatys subaeneus
Bradysia odoriphaga
Callosobruchus chinensis
Calyptra lata
Ceratovacuna lanigera
Chelidonium argentatum
Chlorophanus grandis
Chondracris rosea
Chrysocoris grandis
Cifuna locuples
Clanis bilineata
Cletus punctiger
Cofana spectra
Colaphellus bowringii
Colasposoma dauricum
Conogethes punctiferalis
Cryptotympana atrata
Dasychira mendosa
Dolycoris baccarum
Earias vittella
Ectomyelois pyrivorella
Empoasca vitis
Endoclyta sinensis
Epicauta gorhami
Epicauta tibialis
Euproctis scintillans
Eurydema dominulus
Gastrimargus marmoratus
Gesonula punctifrons
Gryllus bimaculatus
Halticus minutus
Halticus tibialis
Halyomorpha picus
Heliothrips haemorrhoidalis
Hishimonus sellatus
Holotrichia morosa
Janus piri
Lepidosaphes gloveri
Leptocorisa acuta
Liorhyssus hyalinus
Liriomyza bryoniae
Megacopta horvathi

Megymenum brevicornis
Megymenum gracilicorne
Melanagromyza sojae
Mylabris cichorii
Myllocerinus aurolineatus
Nephotettix cincticeps
Oides decempunctata
Omiodes indicata
Papilio dialis
Papilio nephelus chaon
Phaedon brassicae
Phthorimaea operculella
Pseudaculacaspis pentagona
Quadraspidiotus perniciosus
Rhynchites confragosicollis
Rhynchites foveipennis
Riptortus linearis
Riptortus pedestris
Saccharosydne procerus
Saissetia oleae
Sphrageidus similis
Spilarctia obliqua
Spilarctia subcarnea
Spilosoma punctaria
Stenocatantops splendens
Stephanitis nashi
Theretra oldenlandiae
Theretra silhetensis
Thrips flavus
Thysanoplusia orichalcea
Trichoplusia ni
Udaspes folus
Uroleucon formosanum
Xystrocera globosa

Table 17

To assist in evaluating the prospects for successful classical biological control of potential targets in southern China, a range of information is required including (i) whether a pest originated in China (and, if not, where), (ii) what is known of its natural enemies and their specificity and (iii) whether biological control has been attempted elsewhere and, if so, with what result (Table 17). Ideally a dossier is required for each potential target pest, covering in detail the above and other relevant information. Table 17 lists 53 arthropod pests (of the 172 rated 15+ or more) 48 of which have been classical biological control targets. Dossiers covering 20 species scoring 15+ or more are available (Waterhouse 1993b, 1997b, Waterhouse and Norris 1987, 1989) and 15 of these species have been targets in biological control programs.

Column 3 in Table 17 gives a general indication of the number of natural enemy species involved to indicate the range of species utilised. In many cases the number of species available is far greater. The information in columns 6 and 7, is subjective, especially prospects for valuable classical biological control in China. In general, a conservative approach has been adopted here. With more detailed information, the prospects, in some instances, might well be rated differently. For example, a knowledge of which natural enemies are (or are not) already attacking the pest in China may indicate gaps or, alternatively, further reduce the justification for consideration. Where the prospects for valuable control have been recorded as (poor) this is based on the assumption that the pest is native to southern China and that all of the valuable, adequately-specific natural enemies are already present. Further research may well prove that this assumption is wrong in some instances.

Of the 53 pests listed, the prospects for valuable biological control are considered excellent for 3 species, good for 4, medium for 10, low for 9, poor for 6 and 22.

While this may seem disappointing, about one third (17) of the species are believed, on existing information, to be well worth considering as targets and further research may add to this number. Even if introduced natural enemies provided valuable biological of only half of these pests in the next decade or two, this would be an important contribution to crop protection. There are, in addition, a further 119 of the 172 species rating 15+ or more, some of which are likely to prove to be attractive biological control targets.

Table 17 is based upon data in the dossiers listed above and in Cameron et al. (1989), Clausen (1978), Cock (1985), De Bach (1964), King and Jackson (1989), Lang and Hamai (1976), McLeod (1962), Rao et al. (1971), Singh (1996) and Wilson (1960), but even so is not necessarily an exhaustive listing.

Table 17. Arthropod pests in southern China for which classical biological control has been attempted or evaluated.
曾尝试或评估过传统生防的中国南方有害节肢动物

Species	Dossier?	Number of natural enemy species introduced	Countries where introduced	Overall result of introduction	Prospects for valuable control
Adoretus sinicus		2+	Guam, Hawaii	partial	low
Agrius convolvuli	Yes	-	-	-	medium
Agrotis ipsilon		3	Celebes, New Zealand	partial	low
Aleurocanthus spiniferus		2	Guam, Japan	excellent	(poor)
Aonidiella aurantii		6	Australia, Cyprus, Greece, Israel, Morocco, Sicily, S. & E.Africa, S. America	excellent to partial	(poor)
Aphis craccivora	Yes	6	Australia, Brazil, Cuba,	good to partial	medium
Aphis gossypii	Yes		Czechoslovakia, France, Greece, Hawaii, India, Italy, Mexico, USA		
Aspidiotus destructor	Yes	5+	Dominica, Fiji, Indonesia, Mauritius, Micronesia, Principe, Puerto Rico, Tuamoto, USA, Vanuatu, Wallis I.	excellent to partial	(poor)
Bactrocera cucurbitae	Yes	5+	Guam, Hawaii	good to partial	medium to low
Bactrocera dorsalis	Yes	10+	Guam, Hawaii	good to partial	medium to low
Bruchus pisorum		1	Australia, Canada, USA	not established	low
Ceroplastes rubens		1+	Australia, Hawaii, Japan	excellent	(poor)
Chilo infuscatellus		1	Taiwan of China	partial	(poor)
Chilo sacchariphagus		2+	India, Madagascar	partial	(poor)
Chilo suppressalis		4	Hawaii, Indonesia, Japan, Pakistan, Philippines	partial	(poor)
Chrysomphalus aonidum		2	Brazil, Egypt, Israel, Lebanon, Mexico, Seychelles, S. Africa, USA	excellent to partial	(poor)
Chrysomphalus dictyospermi		6	Greece, Italy, USA	excellent	(poor)
Coccus hesperidum		2+	Australia, Bermuda, Canada, New Zealand, USA, USSR	excellent to no establishment	medium

Table 17. (cont'd) Arthropod pests in southern China for which classical biological control has been attempted or evaluated.
曾尝试或评估过传统生防的中国南方有害节肢动物

Species	Dossier?	Number of natural enemy species introduced	Countries where introduced	Overall result of introduction	Prospects for valuable control
Cydia molesta		20	Argentina, Australia, Canada, Italy, Japan, Uruguay	partial to nil	(poor)
Cylas formicarius	Yes	-	-	-	poor
Dialeurodes citri		2	USA	not established	(poor)
Diaphorina citri	Yes	1	Madagascar, Réunion, Philippines, Taiwan of China	excellent	(poor)
Eotetranychus sexmaculatus	-	1	USA	nil	poor
Epilachna vigintioctopunctata	Yes	2	Fiji	not established	low
Etiella zinckenella	-	8	Mauritius, Puerto Rico, USA	good to nil	medium
Helicoverpa armigera	Yes	15+	Australia, Egypt, Fiji, India, Indonesia, New Zealand, S. & E. Africa, USA	good (NZ), poor elsewhere	low
Hellula undalis	Yes	-	-	-	low
Homona coffearia	-	1	Sri Lanka	excellent	excellent
Icerya purchasi	-	2	29 countries	excellent to good	excellent
Icerya seychellarum	-	4	Caroline I, Mariana I, Marshall I, Mauritius, Seychelles	good to partial	good
Maruca vitrata	Yes	10+	Fiji, Hawaii, India, Mauritius, Puerto Rico, Sri Lanka, USA	poor	medium
Mythimna separata	-	9	Fiji, New Zealand	good	low
Nezara viridula	Yes	10+	Antigua, Argentina, Australia, Brazil, Chile, Cook I, Fiji, Hawaii, Kiribati, Montserrat, New Caledonia, New Zealand, Papua New Guinea, South Africa, Tonga, W. Samoa, Zimbabwe	excellent to partial	excellent
Othreis fullonia	Yes	4	Fiji, A. Samoa, W. Samoa, Tonga	good to partial	good
Oxya chinensis		2	Hawaii	excellent	(poor)
Panonychus citri		15	USA	minor	(poor)

Table 17. (cont'd) Arthropod pests in southern China for which classical biological control has been attempted or evaluated.
曾尝试或评估过传统生防的中国南方有害节肢动物

Species	Dossier?	Number of natural enemy species introduced	Countries where introduced	Overall result of introduction	Prospects for valuable control
Parlatoria pergandii		2	USA	excellent	(poor)
Pectinophora gossypiella		2	India	not evaluated	low
Phyllocoptruta oleivora		1	Israel	poor	(poor)
Phyllocnistis citrella	Yes	3	Australia, Brazil, Japan, USA	excellent to partial	(poor)
Pieris rapae		3	Australia, New Zealand, USA	good to partial	medium
Planococcus citri		5+	Bermuda, Canada, Chile, Hawaii, India, Israel, Italy, Papua New Guinea, S. and E. Africa, Spain, USA, USSR	excellent to partial	(poor)
Plutella xylostella	Yes	7+	Antigua, Australia, Barbados, Brazil, Cape Verde I, Cook I, Dominica, Fiji, Hawaii, Indonesia, Malaysia, New Zealand, Papua New Guinea, Thailand, Tonga etc.	excellent to partial	good
Polyphagotarsonemus latus	Yes	-	-	-	medium
Pectinophora gossypiella		5+	Australia, Barbados, Egypt, Mexico, Puerto Rico, USA	poor	low
Pseudococcus citriculus		2	Israel, Palestine	excellent	(poor)
Pulvinaria psidii		3	Bermuda, Puerto Rico	good	(poor)
Saissetia coffeae		3	Guam, Peru, USA	good	good
Selenothrips rubrocinctus		1	Grenada, Jamaica, Trinidad	poor	poor
Spodoptera litura	Yes	10+	Australia, Cyprus, Egypt, Fiji, Guam, India, Israel, New Caledonia, New Zealand, Pakistan, W. Samoa	generally poor	poor
Thrips palmi	Yes	-	-	-	poor
Thrips tabaci	Yes	4	Barbados, Bermuda, Hawaii, Jamaica, Puerto Rico, Trinidad, USA	poor	poor
Unaspis yannonensis		2	Japan	good to partial	(poor)

Table 18

1. The non-preferred names included here come from the lists submitted by contributors and appear because they are no longer in widespread use outside the region and sometimes, also, even within the region. Of course, many names not requiring change also occur in Table 1.

2. The checklist has been prepared with the assistance of taxonomic colleagues and draws heavily on Wood (1992) Insects of economic importance: A checklist of preferred names; Zhang (1994) Index of economically important Lepidoptera; and the CABI (1995) Arthropod Name Index Database on CD-ROM. It is inevitable that some name changes will not be acceptable to all taxonomists and also inevitable that further changes will be necessary in the future as the taxonomic status of species is further studied and refined, but changes have been adopted where there is substantial consensus.

It has proved possible to validate, or amend, some 950 of the 991 pest species dealt with. About a quarter of the 950 species have required modification to the generic and/or specific name and it is hoped that, progressively, the preferred names in this list will become commonly used. Accurate and consistent names are essential if information is to be effectively recorded, retrieved and communicated.

3. The preferred name X is indicated by 'see X' or by 'X' use for 'Y', the name 'Y' being non-preferred.

4. The names are arranged alphabetically. The author, order and family of each preferred name appears in Table 1.

5. The senior author (Professor Li Li-ying) would be happy to be advised of any errors or omissions in the list, so that they can be corrected if this publication is brought up-to-date in a few years time.

Table 18. Preferred names of arthropod pests
改用的有害节肢动物种名

Abgrallaspis cyanophylli	**use for**	*Fiorina cyanophylli*
Acalolepta cervina	**use for**	*Dihammus cervinus*
Acanthocoris concoloratus	**use for**	*Homoeocerus concoloratus*
Acanthocoris dilatatus	**use for**	*Homoeocerus dilatatus*
Acanthocoris unipunctatus	**use for**	*Homoeocerus unipunctatus*
Acanthoecia laminati	**use for**	*Acanthopsyche laminati*
	use for	*Chalia larminati*
	use for	*Clania laminati*
	use for	*Oiketicoides larminati*
Acanthopsyche subferalbata	**see**	*Brachycyttarus subteralbatus*
Aceria litchii	**use for**	*Eriophyes litchii*
Aceria mangiferae	**use for**	*Eriophyes mangiferae*
Aceria sheldoni	**use for**	*Eriophyes sheldoni*
Acrida chinensis	**see**	*Acrida cinerea*
Acrida cinerea	**use for**	*Acrida chinensis*
	use for	*Acrida lata*
Acrida lata	**see**	*Acrida cinerea*
Acryporthynchetus frigidus	**see**	*Sternochetus frigidus*
Actinote intermedia	**use for**	*Delta intermedia*
Adoretus sinicus	**use for**	*Adoretus tenuimaculatus*
Adoretus tenuimaculatus	**see**	*Adoretus sinicus*
Adoxophyes fasciata	**see**	*Adoxophyes orana fasciata*
Adoxophyes orana fasciata	**use for**	*Adoxophyes fasciata*
Adris tyrannus	**use for**	*Othreis tyrannus*
	use for	*Eudocima tyrannus*
Agrotis c-nigrum	**see**	*Xestia c-nigrum*
Agrotis ipsilon	**use for**	*Agrotis ypsilon*
Agrotis ypsilon	**see**	*Agrotis ipsilon*
Aiolopus thalassinus tamulus	**see**	*Aiolopus thalassinus*
Aiolopus thalassinus	**use for**	*Aiolopus thalassinus tamulus*
Aleurocanthus citri	**see**	*Aleurolobus citri*
Aleurocanthus marlatti	**see**	*Aleurolobus marlatti*
Aleurocanthus setigerus	**see**	*Aleurolobus setigerus*
Aleurocanthus szechwanensis	**see**	*Aleurolobus szechwanensis*
Aleurolobus citri	**use for**	*Aleurocanthus citri*
Aleurolobus marlatti	**use for**	*Aleurocanthus marlatti*
Aleurolobus setigerus	**use for**	*Aleurocanthus setigerus*
Aleurolobus szechwanensis	**use for**	*Aleurocanthus szechwanensis*
Amatissa snelleni	**see**	*Kophene snelleni*
Amplypterus panopus	**use for**	*Compsogene panopus*
Ancistrotermes dimorphus	**use for**	*Microtermes dimorphus*
Anomala antiqua	**use for**	*Anomala autiana*
Anomala autiana	**see**	*Anomala antiqua*
Anoplophora chinensis macularia	**see**	*Anoplophora malasiaca*
Anoplophora malasiaca	**use for**	*Anoplophora chinensis macularia*
Anticarsia irrorata	**use for**	*Azazia rubricans*
Aonidiella citrina	**use for**	*Laccifer citrina*
Aphis citricidus	**see**	*Toxoptera citricida*
Aphis citricola	**see**	*Aphis spiraecola*
Aphis sacchari	**see**	*Melanaphis sacchari*
Aphis spiraecola	**use for**	*Aphis citricola*
Aphrophora intermedia	**see**	*Obiphora intermedia*
Aproaerema modicella	**use for**	*Stomopteryx subsecivella*

Aracerus fasciculalus	**use for**	*Araeocerus fasciculatus*
Araeocerus fasciculatus	**see**	*Aracerus fasciculalus*
Arcte coerula	**use for**	*Cocytodes caerulea*
Arctomis alba	**see**	*Redoa alba*
Artena dotata	**use for**	*Logoptera dotata*
Ascotis selenaria	**use for**	*Boarmia selenaria*
Aspidiotus destructor	**use for**	*Aspidiotus transparens*
Aspidiotus hederae	**see**	*Aspidiotus nerii*
Aspidiotus nerii	**use for**	*Aspidiotus hederae*
Aspidiotus transparens	**see**	*Aspidiotus destructor*
Aspongopus chinensis	**see**	*Coridius chinensis*
Aspongopus fuscus	**see**	*Coridius fuscus*
Atractomorpha ambigua	**see**	*Atractomorpha sinensis*
Atractomorpha sinensis	**use for**	*Atractomorpha ambigua*
Attacus cynthia	**see**	*Samia cynthia*
Atysa cinnamomi	**use for**	*Atysta marginata cinnamoni*
Atysa marginata cinnamoni	**see**	*Atysa cinnamomi*
Aularches miliaris miliaris	**use for**	*Aularches miliaris scabiosus*
Aularches miliaris scabiosus	**see**	*Aularches miliaris miliaris*
Autographa agnata	**see**	*Chrysodeixis agnata*
Autographa albostriata	**see**	*Ctenoplusia albostriata*
Azazia rubricans	**see**	*Anticarsia irrorata*
Bacchisa fortunei	**use for**	*Chreonoma fortunei*
Bactrocera dorsalis	**use for**	*Strumeta dorsalis*
Bactrocera minax	**use for**	*Tetradacus citri*
Bactrocera scutellata	**use for**	*Zeugodacus scutellatus*
Bactrocera tsueonis	**use for**	*Tetradacus tsuneonis*
Baliothrips serratus	**see**	*Fulmekiola serrata*
Barathra brassicae	**see**	*Mamestra brassicae*
Boarmia selenaria	**see**	*Ascotis selenaria*
Bombotelia jocosatrix	**see**	*Penicillaria jocosatrix*
Bothrogonia ferruginea	**use for**	*Tettigoniella ferruginea*
	use for	*Cicadella ferruginea*
Brachycyttarus subteralbatus	**use for**	*Acanthopsyche subferalbata*
Brachytrupes formosanus	**see**	*Tarbinskiellus portentosus*
Brachytrupes portentosus	**see**	*Tarbinskiellus portentosus*
Brevipalpus australis	**see**	*Brevipalpus californicus*
Brevipalpus californicus	**use for**	*Brevipalpus australis*
Caedicia thymifolia	**use for**	*Ducetia thymifolia*
Caliothrips fasciatus	**use for**	*Heliothrips fasciatus*
Calliteara thwaites	**use for**	*Dasychira thwaites*
Calpa capucina	**see**	*Calyptera thalictri*
Calpe minuticornis	**see**	*Calyptra minuticornis*
Calyptera thalictri	**use for**	*Calpa capucina*
Calyptra lata	**use for**	*Oraesia lata*
Calyptra minuticornis	**use for**	*Calpe minuticornis*
Canephora unicolor	**see**	*Lepidopsyche unicolor*
Capritermes nitobei	**see**	*Pericapritermes nitobei*
Carea angulata	**use for**	*Carea subtilis*
Carea subtilis	**see**	*Carea angulata*
Cassida circumdata	**use for**	*Taiwania circumdata*
Catantops pinguis	**use for**	*Stenocatantops pinguis*
Catantops splendens	**see**	*Stenocatantops splendens*
Cavelerius saccharivorus	**use for**	*Ischnodemus saccharivorus*

Centrotus terminalis	**use for**	*Leptocentrus vicarius*
Cephrenes oceania	**use for**	*Telicota polmarum*
Chalciope geometrica	**see**	*Grammodes geometrica*
Chalciope hyppasia	**see**	*Trigonodes hyppasia*
Chalciope stolida	**see**	*Grammodes stolida*
Chalia larminati	**see**	*Acanthoecia laminati*
Chilo auricilius	**use for**	*Chilotraea auricilia*
	use for	*Chilotraea auricilius*
Chilo sacchariphagus	**use for**	*Chilo venosatus*
	use for	*Proceras venosatus*
Chilo venosatus	**see**	*Chilo sacchariphagus*
Chilotraea auricilia	**see**	*Chilo auricilius*
Chlorita flavescens	**see**	*Empoasca vitis*
Chloropulvinaria floccifera	**use for**	*Pulvinaria floccifera*
Chloropulvinaria polygonata	**use for**	*Pulvinaria polygonata*
Chloropulvinaria psidii	**see**	*Pulvinaria psidii*
Chremistica ochracea	**see**	*Cicada ochracea*
Chreonoma fortunei	**see**	*Bacchisa fortunei*
Chromatomyia horticola	**use for**	*Phytomyza horticola*
Chromocallis formosana	**see**	*Cranaphis formosana*
Chrysodeixis agnata	**use for**	*Autographa agnata*
	use for	*Plusia agnata*
Chrysomphalus aonidum	**use for**	*Chrysomphalus ficus*
Chrysomphalus ficus	**see**	*Chrysomphalus aonidum*
Cicada ochracea	**use for**	*Chremistica ochracea*
Cicadella fascifrons	**see**	*Macrosteles quadrilineatus*
Cicadella ferruginea	**see**	*Bothrogonia ferruginea*
Cicadella viridis	**use for**	*Tettigella viridis*
Citripestis eutraphera	**use for**	*Philotroctis eutraphera*
Clania laminati	**see**	*Acanthopsyche laminati*
Clania miniscula	**see**	*Eumeta miniscula*
Clania variegata	**see**	*Eumeta variegata*
Clavigralla acantharis	**see**	*Clavigralloides acantharis*
Clavigralla horrens	**see**	*Gralliclava horrens*
Clavigralloides acantharis	**use for**	*Clavigralla acantharis*
Cnidocampa flavescens	**see**	*Monema flavescens*
Coccus hesperidum	**use for**	*Coccus jungi*
Coccus jungi	**see**	*Coccus hesperidum*
Cocytodes caerulea	**see**	*Arcte coerulea*
Cofana spectra	**use for**	*Tettigella spectra*
Compsogene panopus	**see**	*Amplypterus panopus*
Conogethes chlorophanta	**see**	*Pleuroptya chlorophanta*
Conogethes punctiferalis	**use for**	*Dichocrocis punctiferalis*
Coridius chinensis	**use for**	*Aspongopus chinensis*
Coridius fuscus	**use for**	*Aspongopus fuscus*
Cornuaspis beckii	**see**	*Lepidosaphes beckii*
Cranaphis formosana	**use for**	*Chromocallis formosana*
Cryptothelea formosicola	**see**	*Eumeta pryeri*
Ctenoplusia albostriata	**use for**	*Autographa albostriata*
Cydia molesta	**use for**	*Grapholitha molesta*
Darna ochracea	**use for**	*Oxyplax ochracea*
Dasychira pennatula	**see**	*Psalis pennatula*
Dasychira thwaites	**see**	*Calliteara thwaites*
Deanolis sublimbalis	**use for**	*Noorda albizonalis*
Delta intermedia	**see**	*Actinote intermedia*

Dendrothripoides innoxius	**use for**	*Dendrothripoides ipomaeae*
Dendrothripoides ipomoeae	**see**	*Dendrothripoides innoxius*
Dermaleipa juno	**see**	*Thyas juno*
Diaphania caesalis	**see**	*Glyphodes caesalis*
Diaspidiotus perniciosus	**see**	*Quadraspidiotus perniciosus*
Dichocrocis punctiferalis	**see**	*Conogesthes punctiferalis*
Dihammus cervinus	**see**	*Acalolepta cervina*
Dinara combusta	**see**	*Phalera combusta*
Dioryctria rubella	**use for**	*Dioryctris rubella*
Dioryctris rubella	**see**	*Dioryctria rubella*
Dorysthenes granulosus	**use for**	*Paraphus granulosus*
Ducetia thymifolia	**see**	*Caedicia thymifolia*
Dynastes gideon	**see**	*Xylotrupes gideon*
Dysdercus cingulatus	**use for**	*Dysdercus megalopygus*
	use for	*Dysdercus poecilus*
Dysdercus megalopygus	**see**	*Dysdercus cingulatus*
Dysdercus poecilus	**see**	*Dysdercus cingulatus*
Dysmicoccus boninsis	**use for**	*Trionymus boninsis*
Dysogonia analis	**use for**	*Paralellia analis*
Dysogonia arctotaenia	**use for**	*Paralellia arctotaenia*
Dysogonia fulvotaenia	**use for**	*Paralellia fulvotaenia*
Dysogonia maturata	**use for**	*Paralellia maturata*
Dysogonia praetermissa	**use for**	*Paralellia praetermissa*
Dysogonia simillima	**use for**	*Paralellia simillima*
Earias fabia	**see**	*Earias vittella*
Earias vittella	**use for**	*Earias fabia*
Echinocnemus bipunctatus	**use for**	*Echinocnemus squameus*
Echinocnemus squameus	**see**	*Echinocnemus bipunctatus*
Ectomyelois pyrivorella	**use for**	*Myelois perivorella*
Elymnias hypermnestra hainana	**use for**	*Elymnias nigrescens hainana*
Elymnias nigrescens hainana	**see**	*Elymnias hypermnestra hainana*
Empoasca flavescens	**see**	*Empoasca vitis*
Empoasca vitis	**use for**	*Chlorita flavescens*
Endoclita nodus	**use for**	*Phassus nodus*
Endoclita sinensis	**use for**	*Phassus sinensis*
Enmonodia vespertilio	**see**	*Hypopyra vespertilio*
Eotetranychus kankitus	**use for**	*Tetranychus kankitus*
Eotetranychus orientalis	**see**	*Eutetranychus orientalis*
Eotetranychus sexmaculatus	**use for**	*Schizotetranychus sexmaculatus*
Epilachna vigintioctopunctata	**use for**	*Haploepilachna vigintioctopunctata*
	use for	*Henosepilachna vigintioctopunctata*
Epimactis talantias	**use for**	*Epimactis tolantas*
Epimactis tolantas	**see**	*Epimactis talantias*
Erebus crepuscularis	**use for**	*Nyctipao crepuscularis*
Erebus hieroglyphica	**use for**	*Nyctipao hierglyphica*
Erebus macrops	**use for**	*Patula macrops*
Eriophyes litchii	**see**	*Aceria litchii*
Eriophyes mangiferae	**see**	*Aceria mangiferae*
Eriophyes sheldoni	**see**	*Aceria sheldoni*
Erythroneura subrufa	**see**	*Thaia subrufa*
Eudocima salaminia	**use for**	*Maenas salaminia*
Eudocima tyrannus	**see**	*Adris tyrannus*
Eumeta miniscula	**use for**	*Clania miniscula*
Eumeta pryeri	**use for**	*Cryptothelea formosicola*
Eumeta variegata	**use for**	*Clania variegata*

Euproctis kurosawai	**see**	*Euproctis pulverea*
Euproctis pulverea	**use for**	*Euproctis kurosawai*
Euproctis scintillans	**use for**	*Porthesia scintillans*
Eurydema cingulatus	**use for**	*Eurydema pulchra*
Eurydema pulchra	**see**	*Eurydema cingulatus*
Eutectona machoeralis	**use for**	*Pyrausta macheralis*
Eutetranychus orientalis	**use for**	*Eotetranychus orientalis*
Euthalia aconthea	**use for**	*Euthalia garuda*
Euthalia garuda	**see**	*Euthalia aconthea*
Eysarcoris egenus	**use for**	*Stollia egenus*
Eysarcoris guttiger	**use for**	*Stollia guttiger*
Eysarcoris montivagus	**use for**	*Stollia montivagus*
Eysarcoris ventralis	**use for**	*Stollia ventralis*
Ferrisia virgata	**use for**	*Ferrisiana virgata*
Ferrisiana virgata	**see**	*Ferrisia virgata*
Fiorina cyanophylli	**see**	*Abgrallaspis cyanophylli*
Fulgora candelaria	**see**	*Laternaria candelaria*
Fulmekiola serrata	**use for**	*Baliothrips serratus*
Glyphodes caesalis	**use for**	*Dicphania caesalis*
Godirtha inexacta	**see**	*Iscadia inexacta*
Gralliclava horrens	**use for**	*Clavigralla horrens*
Grammodes geometrica	**use for**	*Chalciope geometrica*
Grammodes stolida	**use for**	*Chalciope stolida*
Grapholitha molesta	**see**	*Cydia molesta*
Gryllus testaceus	**see**	*Teleogryllus testaceus*
Halyomorpha halys	**see**	*Halyomorpha picus*
Halyomorpha picus	**use for**	*Halyomorpha halys*
Haploepilachna vigintioctopunctata	**see**	*Epilachna vigintioctopunctata*
Heliothrips fasciatus	**see**	*Caliothrips fasciatus*
Hemitarsonemus latus	**see**	*Polyphagotarsonemus latus*
Henosepilachna vigintioctopunctata	**see**	*Epilachna vigintioctopunctata*
Hesperophanes campestris	**use for**	*Trichoferus campestris*
Holotrichia horishana	**see**	*Lachnosterna horishana*
Homoeocerus concoloratus	**see**	*Acanthocoris concoloratus*
Homoeocerus dilatatus	**see**	*Acanthocoris dilatatus*
Homoeocerus striicornis	**use for**	*Homoeocerus strilcernis*
Homoeocerus strilcernis	**see**	*Homoeocerus striicornis*
Homoeocerus unipunctatus	**see**	*Acanthocoris unipunctatus*
Hymenia recurvalis	**see**	*Spoladea recurvalis*
Hypopyra vespertilio	**use for**	*Enmonodia vespertilio*
Inazuma dorsalis	**see**	*Recilia dorsalis*
Indarbela bailarana	**see**	*Squamura discipuncta*
Indarbela barbarama	**see**	*Squamura discipunta*
Insulaspis gloveri	**see**	*Lepidosaphes gloveri*
Iscadia inexacta	**use for**	*Godirtha inexacta*
Ischidaella albomarginata	**see**	*Kolla albomarginata*
Ischnodemus saccharivorus	**see**	*Cavalerius saccharivorus*
Kerria greeni	**use for**	*Laccifera greeni*
Kerria lacca	**use for**	*Laccifera lacca*
Kolla albomarginata	**use for**	*Ischidaella albomarginata*
Kophene snelleni	**use for**	*Amatissa snelleni*

Laccifer citrina	**see**	*Aonidiella citrina*
Laccifera greeni	**see**	*Kerria greeni*
Laccifera lacca	**see**	*Kerria lacca*
Lachnosterna horishana	**use for**	*Holotrichia horishana*
Lagoptera dotata	**see**	*Artena dotata*
Lagoptera juno	**see**	*Thyas juno*
Lamprosema indicata	**see**	*Omioides indicata*
Laphygma exigua	**see**	*Spodoptera exigua*
Laternaria candelaria	**use for**	*Fulgora candelaria*
Latoia consocia	**see**	*Parasa consocia*
Latoia sinica	**see**	*Parasa sinica*
Lefroyothrips lefroyi	**use for**	*Taeniothrips lefroyi*
Lema fortunei	**use for**	*Oulema fortunei*
Lemyra subcarnea	**see**	*Spilosoma subcarnea*
Lepidopsyche unicolor	**use for**	*Canephora unicolor*
Lepidosaphes beckii	**use for**	*Cornuaspis beckii*
Lepidosaphes gloveri	**use for**	*Insulaspis gloveri*
Leptocentrus vicarius	**see**	*Centrotus terminalis*
Leptocorisa acuta	**use for**	*Leptocorisa chinensis*
Leptocorisa chinensis	**see**	*Leptocorisa acuta*
Leptoglossus gonagra	**use for**	*Leptoglossus membranaceus*
Leptoglossus hyalinus	**see**	*Liorhyssus hyalinus*
Leptoglossus membranaceus	**see**	*Leptoglossus gonagra*
Leucania loreyi	**see**	*Mythimna loreyi*
Leucania separata	**see**	*Mythimna separata*
Leucania venalba	**see**	*Mythimna venalba*
Leucaspis japonica	**see**	*Lopholeucaspis japonica*
Liorhyssus hyalinus	**use for**	*Leptoglossus hyalinus*
Lipaphis erysimi	**see**	*Lipaphis pseudobrassicae*
Lipaphis pseudobrassicae	**use for**	*Lipaphis erysimi*
Logoptera dotata	**see**	*Artena dotata*
Longionguis sacchari	**see**	*Melanaphis sacchari*
Lopholeucaspis japonica	**use for**	*Leucaspis japonica*
Lycorma delicatula	**use for**	*Lycorma delicatus*
Lycorma delicatus	**see**	*Lycorma delicatula*
Lygocoris lucorum	**use for**	*Lygus lucorum*
Lygocoris pratensis	**see**	*Lygus pratensis*
Lygus lucorum	**see**	*Lygocoris lucorum*
Lygus pratensis	**use for**	*Lygocoris pratensis*
Macrosiphum avenae	**see**	*Sitobion avenae*
Macrosteles quadrilineatus	**use for**	*Cicadella fascifrons*
Madasumma hibionis	**see**	*Truljalia hibinonis*
Maenas salaminia	**see**	*Eudocima salaminia*
Mallambyx raddei	**see**	*Massicus raddei*
Mamestra brassicae	**use for**	*Barathra brassicae*
Massicus raddei	**use for**	*Mallamby raddei*
Medythia nigrobilineata	**use for**	*Paraluperodes suturalis nigrobilineatus*
Melanaphis sacchari	**use for**	*Aphis sacchari*
	use for	*Longionguis sacchari*
Menida bengalensis	**use for**	*Menida histrio*
Menida histrio	**see**	*Menida bengalensis*
Metaseiulus occidentalis	**use for**	*Typhlodromus occidentalis*
Metaspidiotus stauntoniae	**see**	*Octaspidiotus stauntoniae*
Micraspis discolor	**use for**	*Verania discolor*
Microtermes dimorphus	**see**	*Ancistrotermes dimorphus*

Monema flavescens	**use for**	*Cnidocampa flavescens*
Monolepta nigrobilineata	**see**	*Medythia nigrobilineata*
Myelois perivorella	**see**	*Ectomyelois pyrivorella*
Mythimna loreyi	**use for**	*Leucania loreyi*
Mythimna separata	**use for**	*Leucania separata*
Mythimna venalba	**use for**	*Leucania venalba*
Nephotettix apicalis	**see**	*Nephotettix nigromaculatus*
Nephotettix bipunctatus	**see**	*Nephotettix virescens*
Nephotettix nigromaculatus	**use for**	*Nephotettix apicalis*
Nephotettix virescens	**use for**	*Nephotettix bipunctatus*
Nipaecoccus filamentosus	**see**	*Nipaecoccus viridis*
Nipaecoccus vastator	**see**	*Nipaecoccus viridis*
Nipaecoccus viridis	**use for**	*Nipaecoccus filamentosus*
	use for	*Pseudococcus filamentosus*
	use for	*Nipaecoccus vastator*
Noorda albizonalis	**see**	*Deanolis sublimbalis*
Nyctemera adversata	**use for**	*Nyctemera plagifera*
Nyctemera plagifera	**see**	*Nyctemera adversata*
Nyctipao crepuscularis	**see**	*Erebus crepuscularis*
Nyctipao hierglyphica	**see**	*Erebus hieroglyphica*
Nymphula depunctalis	**see**	*Paraponyx stagnalis*
Obiphora intermedia	**use for**	*Aphrophora intermedia*
Octaspidiotus stauntoniae	**use for**	*Metaspidiotus stauntoniae*
Octotympana macullis	**see**	*Oncotympana maculaticollis*
Oedalus infernalis	**use for**	*Oedalus manijus*
Oedalus manijus	**see**	*Oedalus infernalis*
Oiketicoides larminati	**see**	*Acanthoecia laminati*
Oligonychus exsiccator	**use for**	*Tetranychus exicator*
Omioides indicata	**use for**	*Lamprosema indicata*
Omphisa anastomosalis	**use for**	*Omphisa illisalis*
Omphisa illisalis	**see**	*Omphisa anastamosalis*
Oncotympana maculaticollis	**use for**	*Octotympana macullis*
Ophideres fullonica	**see**	*Othreis fullonia*
Ophideres hypermnestra	**see**	*Othreis hypermnestra*
Ophisma gravata	**use for**	*Paralellia gravala*
Oraesia lata	**see**	*Calyptra lata*
Oryctes gnu	**use for**	*Oryctes trituberculatus*
Oryctes trituberculatus	**see**	*Oryctes gnu*
Othreis fullonia	**use for**	*Ophideres fullonica*
Othreis hypermnestria	**see**	*Rhytia hypermnestria*
Othreis tyrannus	**see**	*Adris tyrannus*
Oulema fortunei	**see**	*Lema fortunei*
Oxya hyla intricata	**use for**	*Oxya intricata*
Oxya intricata	**see**	*Oxya hyla intricata*
Oxyplax ochracea	**see**	*Darna ochracea*
Pamera rustica	**use for**	*Pamerarma rustica*
Pamerarma rustica	**see**	*Pamera rustica*
Pandemis cerasana	**use for**	*Pandemis ribeana*
Pandemis ribeana	**see**	*Pandemis cerasana*
Papilio chaon	**see**	*Papilio nephelus chaon*
Papilio demetrius	**see**	*Papilio protenor demetrius*
Papilio demoleus	**use for**	*Princeps demoleus*
Papilio nephelus chaon	**use for**	*Papilio chaon*

Papilio polytes pommon	**see**	*Papilio polytes*
Papilio polytes	**use for**	*Papilio polytes pommon*
Papilio protenor demetrius	**use for**	*Papilio demetrius*
Paralellia analis	**see**	*Dysgonia analis*
Paralellia arctotaenia	**see**	*Dysgonia arctotaenia*
Paralellia fulvotaenia	**see**	*Dysogonia fulvotaenia*
Paralellia gravata	**see**	*Ophisma gravata*
Paralellia maturata	**see**	*Dysogonia maturata*
Paralellia praetermissa	**see**	*Dysogonia praetermissa*
Paralellia simillima	**see**	*Dysogonia simillima*
Paraluperodes suturalis nigrobilineatus	**see**	*Medythia nigrobilineata*
Paraphus granulosus	**see**	*Dorysthenes granulosus*
Paraponyx stagnalis	**use for**	*Nymphula depunctalis*
Parasa consocia	**use for**	*Latoia consocia*
Parasa sinica	**use for**	*Latoia sinica*
Parasaissetia nigra	**use for**	*Saissetia nigra*
Parlatoria pergandii	**use for**	*Parlatoria sinensis*
Parlatoria sinensis	**see**	*Parlatoria pergandii*
Patula macrops	**see**	*Erebus macrops*
Penicillaria jocosatrix	**use for**	*Bombotelia jocosatrix*
Pericapritermes nitobei	**use for**	*Capritermes nitobei*
Petrova cristata	**use for**	*Retinia cristata*
Phalera combusta	**use for**	*Dinara combusta*
Phassus nodus	**see**	*Endoclita nodus*
Phassus sinensis	**see**	*Endoclyta sinensis*
Phaula gracilis	**see**	*Phaulula gracilis*
Phaulula gracilis	**use for**	*Phaula gracilis*
Phideres fullanica	**see**	*Othreis fullonia*
Philosamia cynthia	**see**	*Samia cynthia*
Philotroctis eutraphera	**see**	*Citripestis eutraphera*
Phlctaenia tyres	**see**	*Pygospila tyres*
Phytomyza horticola	**see**	*Chromatomyia horticola*
Piezodorus hybneri	**use for**	*Piezodorus rubrofasciatus*
Piezodorus rubrofasciatus	**see**	*Piezodorus hybneri*
Planococcus citri	**use for**	*Pseudococcus citri*
Planococcus lilacinus	**use for**	*Pseudococcus lilacinus*
Plautia crossota	**see**	*Plautia fimbriata*
Plautia fimbriata	**use for**	*Plautia crossota*
Pleuroptya chlorophanta	**use for**	*Conogethes chlorophanta*
Plusia gnata	**see**	*Chrysodeixis agnata*
Plusia ni	**see**	*Trichoplusia ni*
Plusia orichalcea	**see**	*Thysanoplusia orichalcea*
Polyphagotarsonemus latus	**use for**	*Hemitarsonemus latus*
Porthesia scintillans	**see**	*Euproctis scintillans*
Porthesia similis	**see**	*Sphrageidus similis*
Princeps demoleus	**see**	*Papilio demoleus*
Proceras venosatus	**see**	*Chilo sacchariphagus*
Prophantis octoguttalis	**use for**	*Thliptoceras octoguttale*
Psalis pennatula	**use for**	*Dasychira pennatula*
Pseudaonidia pentagona	**see**	*Pseudaulacaspis pentagona*
Pseudaulacaspis pentagona	**use for**	*Pseudaonidia pentagona*
Pseudococcus citri	**see**	*Planococcus citri*
Pseudococcus lilacinus	**see**	*Planococcus lilacinus*
Pterophorus niveodactylus	**use for**	*Alucita niveodactyla*
Pulvinaria floccifera	**see**	*Chloropulvinaria floccifera*
Pulvinaria polygonata	**see**	*Chloropulvinaria polygonata*

Pulvinaria psidii	**use for**	*Chloropulvinaria psidii*
Pygospila tyres	**use for**	*Phlctaenia tyres*
Pyrausta macheralis	**see**	*Eutectona machoeralis*
Quadraspidiotus perniciosus	**use for**	*Diaspidiotus perniciosus*
Recilia dorsalis	**use for**	*Inazuma dorsalis*
Redoa alba	**use for**	*Arctomis alba*
Retinia cristata	**see**	*Petrova cristata*
Rhytia hypermnestria	**use for**	*Othreis hypermnestria*
Saisettia coffeae	**use for**	*Saissetia hemisphaerica*
Saissetia citricola	**use for**	*Takahashia citricola*
Saissetia hemisphaerica	**see**	*Saisettia coffeae*
Saissetia nigra	**see**	*Parasaissetia nigra*
Samia cynthia	**use for**	*Attacus cynthia*
	use for	*Philosamia cynthia*
Schizotetranychus sexmaculatus	**see**	*Eotetranychus sexmaculatus*
Scirpophaga excerptalis	**use for**	*Tryporyza intacta*
Scirpophaga nivella	**use for**	*Tryporyza auriflua*
	use for	*Tryporyza nivella*
Sesamia calamistis	**use for**	*Sesamia vuteria*
Sesamia vuteria	**see**	*Sesamia calamistis*
Setothosa asigna	**use for**	*Thosea asigna*
Sitobion avenae	**use for**	*Macrosiphum avenae*
Speiredonia retorta	**see**	*Spirama retorta*
Sphrageidus similis	**use for**	*Porthesia similis*
Spilarctia subcarnea	**see**	*Spilosoma subcarnea*
Spilosoma lubricipeda	**use for**	*Spilosoma menthastri*
Spilosoma menthastri	**see**	*Spilosoma lubricipeda*
Spilosoma subcarnea	**use for**	*Lemyra subcarnea*
	use for	*Spilarctia subcarnea*
Spirama retorta	**use for**	*Speiredonia retorta*
Spodoptera exigua	**use for**	*Laphygma exigua*
Spoladea recurvalis	**use for**	*Hymenia recurvalis*
Squamura discipuncta	**use for**	*Indarbela bailarana*
	use for	*Indarbela barbarama*
Stenchaetothrips biformis	**use for**	*Thrips oryzae*
Stenocatantops brachycerus	**see**	*Xenocatantops brachycerus*
Stenocatantops pinguis	**see**	*Catantops pinguis*
Stenocatantops splendens	**use for**	*Catantops splendens*
Sternochetus frigidus	**use for**	*Acryporthynchetus frigidus*
Stollia egenus	**see**	*Eysarcoris egenus*
Stollia guttiger	**see**	*Eysarcoris guttiger*
Stollia montivagus	**see**	*Eysarcoris montivagus*
Stollia ventralis	**see**	*Eysarcoris ventralis*
Stomopteryx subsecivella	**see**	*Aproaerema modicella*
Strumeta dorsalis	**see**	*Bactrocera dorsalis*
Sypna simplex	**see**	*Sypnoides simplex*
Sypnoides simplex	**use for**	*Sypna simplex*
Taeniothrips clarus	**see**	*Thrips flavus*
Taeniothrips flavidulus	**see**	*Thrips flavidulus*
Taeniothrips lefroyi	**see**	*Lefroyothrips lefroyi*
Taiwania circumdata	**see**	*Cassida circumdata*
Takahashia citricola	**see**	*Saissetia citricola*

Tarbinskiellus portentosus	**use for**	*Brachytrupes portentosus*
Teleogryllus testaceus	**use for**	*Gryllus testaceus*
Telicota polmarum	**see**	*Cephrenes oceania*
Tetradacus citri	**see**	*Bactrocera minax*
Tetradacus tsuneonis	**see**	*Bactrocera tseneonis*
Tetraneura hirsuta	**see**	*Tetraneura nigriabdominalis*
Tetraneura nigriabdominalis	**use for**	*Tetraneura hirsuta*
Tetranychus exicator	**see**	*Oligonychus exsiccator*
Tetranychus kankitus	**see**	*Eotetranychus kankitus*
Tettigella spectra	**see**	*Cofana spectra*
Tettigella viridis	**see**	*Cicadella viridis*
Tettigoniella ferruginea	**see**	*Bothrogonia ferruginea*
Thaia subrufa	**use for**	*Erythroneura subrufa*
Thalassodes squadraria	**see**	*Thassalodes quadraria*
Thassalodes quadraria	**use for**	*Thalassodes squadraria*
Theretra pinastrina	**see**	*Theretra silhetensis*
Theretra silhetensis	**use for**	*Theretra pinastrina*
Thliptoceras octoguttale	**see**	*Prophantis octoguttalis*
Thosea asigna	**see**	*Setothosa asigna*
Thrips flavidulus	**use for**	*Taeniothrips flavidulus*
Thrips flavus	**use for**	*Taeniothrips clarus*
Thrips oryzae	**see**	*Stenchaetothrips biformis*
Thyas juno	**use for**	*Dermaleipa juno*
	use for	*Lagoptera juno*
Thysanoplusia orichalcea	**use for**	*Plusia orichalcea*
Toxoptera citricida	**use for**	*Aphis citricidus*
Trichoferus campestris	**see**	*Hesperophanes campestris*
Trichoplusia ni	**use for**	*Plusia ni*
Trigonodes hyppasia	**use for**	*Chalciope hyppasia*
Trionymus boninsis	**see**	*Dysmicoccus boninsis*
Truljalia hibinonis	**use for**	*Madasumma hibionis*
Tryoryza intacta	**see**	*Scirpophaga excerptalis*
Tryporyza auriflua	**see**	*Scirpophaga nivella*
Tryporyza nivella	**see**	*Scirpophaga nivella*
Typhlodromus occidentalis	**see**	*Metaseiulus occidentalis*
Verania discolor	**see**	*Micraspis discolor*
Xenocatantops brachycerus	**use for**	*Stenocatantops brachycerus*
Xestia c-nigrum	**use for**	*Agrotis c-nigrum*
Xylotrupes gideon	**use for**	*Dynastes gideon*
Zeugodacus scutellatus	**see**	*Bactrocera scutellatus*
Zicrona caerulea	**use for**	*Zocrona caerula*
Zocrona caerula	**see**	*Zicrona caerulea*

Table 19. The major weeds of agriculture and forestry plantations in southern China.
中国南方农林业主要杂草

Scientific name	Family	Chinese common name	English common name	Crop (situation) affected
Ageratina adenophora (Spreng) R. King & H. Robinson	Asteraceae	紫茎泽兰	crofton weed	agricultural land, forests, orchards
Ageratum conyzoides L.	Asteraceae	胜红蓟	goatweed, ageratum	agricultural land, upland rice, forestry
Alopecurus aequalis Sobol.	Poaceae	看麦娘	black grass	agricultural land
Alopecurus japonicus Steud.	Poaceae	日本看麦娘	Japanese black grass	agricultural land
Alternanthera philoxeroides (Martius) Griseb.	Amaranthaceae	水花生	alligator weed	agricultural land, irrigated rice
Alternanthera sessilis (L.) DC.	Amaranthaceae	莲子草	sessile joyweed	agricultural land, rice
Amaranthus lividus L.	Amaranthaceae	银色草	livid amaranth	agricultural land
Amaranthus retroflexus L.	Amaranthaceae	皮枝苋	redroot amaranth	agricultural land
Ambrosia artemisifolia L.	Asteraceae	豚草	annual ragwort	agricultural land
Artemisia annua L.	Asteraceae	黄花蒿	annual wormwood	agricultural land
Avena fatua L.	Poaceae	夜燕麦	wild oats	agricultural land
Beckmannia syzigachne (Steud.) Fern.	Poaceae	茵草	slough grass	moist agricultural land
Calystegia hederacea Wall.	Convolvulaceae	长春藤，打碗花	bell bind	agricultural land
Calystegia sepium (L.) R. Br.	Convolvulaceae	篱天剑	greater bindweed	agricultural land
Carex filicina Nees	Cyperaceae	苔草	sedge	moist agricultural land, rice
Cephalanoplos segetum (Bge.) Kitam.	Asteraceae	刺菜		agricultural land
Chenopodium serotinum L.	Chenopodiaceae	小藜	goosefoot	agricultural land
Chromolaena odorata (L.) R.M. King & H. Robinson	Asteraceae	飞机草	Siam weed	agricultural land, forests, orchards
Convolvulus arvensis L.	Concolvulaceae	田旋花	field bindweed	agricultural land
Cuscuta australis R. Br.	Convolvulaceae	欧洲菟丝子	Australian dodder	agricultural land
Cuscuta chinensis Lam.	Convolvulaceae	中国菟丝子	dodder	agricultural land
Cynodon dactylon L. (Pers.)	Poaceae	狗芽根	couch, Bermuda grass	agricultural land
Cyperus difformis L.	Cyperaceae	异行莎草	dirty dora	moist agricultural land, rice
Cyperus iria L.	Cyperaceae	碎米莎草	rice flatsedge	moist agricultural land, rice
Cyperus rotundus L.	Cyperaceae	香附子	nutgrass	moist agricultural land, rice
Dactyloctenium aegyptium (L.) P. Beauv.	Poaceae	龙爪矛	coast buttongrass	moist agricultural land, rice
Daucus carota L.	Apiaceae	野葫萝卜	wild carrot	agricultural land
Digitaria sanguinalis (L.) Scop.	Poaceae	马唐	crabgrass	moist agricultural land, rice

Table 19. (cont'd) The major weeds of agriculture and forestry plantations in southern China.
中国南方农林业主要杂草

Scientific name	Family	Chinese common name	English common name	Crop (situation) affected
Echinochloa crusgalli (L.) Beauv.	Poaceae	稗草	barnyard grass	moist agricultural land, rice
Eclipta prostrata (L.) L.	Asteraceae	鳢肠	white eclipta	moist agricultural land, rice
Eichhornia crassipes (Martius) Solms-Laubach	Pontederiaceae	水葫芦	water hyacinth	ponds, rivers, irrigated rice
Eleocharis yokoscensis (Franch & Sav.) Tang & Wang	Cyperaceae	牛毛毡	spikesedge	moist agricultural land, rice
Eleusine indica (L.) Gaertn.	Poaceae	牛筋草	crowsfoot grass, goose grass	agricultural land
Eragrostis cilianensis (All.) Vign. ex Janchen	Poaceae	大画眉草	stink grass	agricultural land
Galium aparine L.	Rubiaceae	猪秧秧	cleavers	agricultural land
Hedyotis auricularis L.	Rubiaceae	耳草		moist agricultural land, rice
Hedyotis costata Roxb.	Rubiaceae	脉耳草		moist agricultural land, rice
Hemistepta lyrata Bge.	Asteraceae	泥湖草		agricultural land
Hydrilla verticillata Thunb.	Hydrocharitaceae	黑藻	hydrilla, shield pennywort	river, lake, pond, rice
Hydrocharis dubia (BL.) Backer	Hydrocharitaceae	水鳖	Asian frog's bit	river, lake, pond, rice
Imperata cylindrica (L.) C.E. Hubb	Poaceae	印度白茅	blady grass	moist agricultural land, rice
Isachne globosa (Thunb.) Kuntze	Poaceae	柳叶箬	swamp millet	moist agricultural land, rice
Juncellus serotinus (Rottb.) C.B. Clarke	Cyperaceae	三棱草		moist agricultural land, rice
Lantana camara L.	Verbenaceae	马缨丹	lantana	agricultural land, forests, orchards
Lapsana apogonocides Maxim	Asteraceae	稻茬菜	nipplewort	moist agricultural land, rice
Lemna purpusilla L.	Lemnaceae	浮萍	common-duckweed	river, lake, pond, rice
Lepidium virginicum L.	Brassicaceae	美国毒芥菜	Virginian pepper cress	agricultural land
Leptochloa chinensis (L.) Nees	Poaceae	千金子	feather grass, red sprangle-top	agricultural land
Lindernia procumbens (Krock.) Philcox	Scrophulariaceae	陌上菜	false pimpernell	agricultural land
Ludwigia adscendens (L.) Hara	Onagraceae	丁香蓼	creeping water primrose	moist agricultural land, rice
Malachium aquaticum (L.) Fries	Caryophyllaceae	牛繁缕		agricultural land
Mazus japonicus (Thunb.) O. Kuntze)	Scrophulariaceae	通泉草		agricultural land
Medicago lupulina L.	Fabaceae	天蓝苜蓿	black medic	agricultural land
Melastoma candidum D. Don.	Melastomataceae	野牡丹		agricultural land
Mimosa pudica L.	Mimosaceae	含羞草	common sensitive plant	moist agricultural land
Monochoria vaginalis (Burm.f.) Presl. ex Kunth	Pontederiaceae	鸭舌草	monochoria	moist agricultural land, rice
Myriophyllum spicatum L.	Haloragaceae	穗状湖尾藻	Eurasian water milfoil	river, lake, pond, rice
Myriophyllum verticillatum L.	Haloragaceae	狐尾藻	water milfoil	river, lake, pond, rice

Table 19. (cont'd) The major weeds of agriculture and forestry plantations in southern China.
中国南方农林业主要杂草

Scientific name	Family	Chinese common name	English common name	Crop (situation) affected
Najas minor All.	Najadaceae	小茨藻	najad	river, lake, pond, rice
Paspalum conjugatum Bergius	Poaceae	两耳草	sour grass	moist agricultural land, rice
Paspalum distichum L.	Poaceae	双穗雀稗	saltwater couch	moist agricultural land, rice
Phragmites australis (Cav.) Trin. ex Steudel	Poaceae	澳洲卢苇	common reed	moist agricultural land, rice
Pistia stratiotes L.	Araceae	大漂	water lettuce	river, lake, pond, rice
Plantago major L.	Plantaginaceae	大车前	greater plantain	agricultural land
Plantago virginica L.	Plantaginaceae	白籽车前	paleseed plantain	agricultural land
Poa annua L.	Poaceae	早熟禾	annual poa	agricultural land
Polygonum lapathifolium L.	Poaceae	大马蓼	pale knotweed	moist agricultural land
Polypogon fugax Nees ex Steud.	Poaceae	棒头草		moist agricultural land
Portulaca oleracea L.	Euphorbiaceae	马齿苋	pigweed, purslane	agricultural land
Potamogeton distinctus A. Benn.	Potamogetonaceae	眼子菜	bog pondweed	river, lake, pond, rice
Potentilla reptans L.	Rosaceae	匍匐委陵菜	creeping cinquefoil	agricultural land
Ranunculus scleratus L.	Ranunculaceae	石龙芮	celery buttercup	moist agricultural land
Rumex crispus L.	Polygonaceae	邹叶酸膜	curled dock	moist agricultural land
Rumex dentatus L.	Polygonaceae	齿果酸模	toothedfruit dock	moist agricultural land
Sagittaria pygmaea Miq.	Alismataceae	瓜皮草	old world arrowhead	agricultural land
Scirpus juncoides Roxb.	Cyperaceae	莹蔺	hardstem bullrush	moist agricultural land
Scirpus planiculmis Fr. Schmidt	Cyperaceae	地梨子	sea club rush	moist agricultural land
Setaria pumila (Poiret) Roemer & Schultes	Poaceae	狗尾草	Queensland pigeon grass	agricultural land
Setaria viridis (L.) Beauv.	Poaceae	狗尾草	green pigeon grass	agricultural land
Spartina anglica C.E. Hubb.	Poaceae	大米草	sea grass	sea beach
Sphenoclea zeylanica Gaertn.	Sphenocleaceae	尖瓣花	gooseweed	moist agricultural land
Stellaria media (L.) Cirillo	Caryophyllaceae	繁缕	chickweed	agricultural land
Synedrella nodiflora (L.) Gaertn.	Asteraceae	金腰箭	cinderella weed	agricultural land, orchards
Vallisneria spiralis L.	Hydrocharitaceae	苦草	eel grass, tape weed	moist agricultural land
Veronica didyma Tenore	Asteraceae	婆婆纳	speedwell	agricultural land
Veronica persica Poiret	Asteraceae	波斯婆婆纳	creeping speedwell	agricultural land
Xanthium sibiricum Patrim.	Asteraceae	苍耳	cocklebur	agricultural land

Table 20. Distribution and importance of major weeds of agriculture and forestry plantations in southern China.
中国南方农田和林间主要杂草的分布及重要性

Pest	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Ageratina adenophora						++		+	+++	+					7	50=
Ageratum conyzoides										+++	++		+	+	7	50=
Alopecurus aequalis	++	++	+++	+++	+++		++	+++		++	++		+++	+	26	2=
Alopecurus japonicus	++		++		+		+				+	+			8	43=
Alternanthera philoxeroides	++	+	+		++			++			+		++	+	12	35=
Alternanthera sessilis					++		+	++	++					+	8	43=
Amaranthus lividus	+				++										3	83=
Amaranthus retroflexus			+		+		+		+				+		5	63=
Ambrosia artemisifolia	++	+	+	++	++										8	43=
Artemisia annua	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Avena fatua	++	+	+		+			++	+	+	+				10	38=
Beckmannia syzigachne	++		+		++										5	63=
Calystegia hederacea	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Calystegia sepium	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Carex filicina	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Cephalanoplos segetum	++	+	+		+			+					+		7	50=
Chenopodium serotinum			+		+		++	+							5	63=
Chromolaena odorata									++	++	++	++			8	43=
Convolvulus arvensis	++							++							4	77=
Cuscuta australis			+	+	+						+				4	77=
Cuscuta chinensis	+				+	+									3	83=
Cynodon dactylon		+	+			++								+	5	63=
Cyperus difformis	++	+	+	+	+++		+	+		+	+	++	++	+	17	8=
Cyperus iria		+	+	++				+			++	++	++	+	12	35=
Cyperus rotundus		++	+		++	++	+	+			+	++	++		14	12=
Dactyloctenium aegyptium									+	++	++	++		+	8	43=
Daucus carota	++				++			+		+					6	58=
Digitaria sanguinalis	++	++	+++	++	++		++	++	++	++	++	++	+++		26	2=
Echinochloa crusgalli	+++	+++	+++	++	+++	++	++	+++		+	++	+++	++		29	1

Table 20. (cont'd) Distribution and importance of major weeds of agriculture and forestry plantations in southern China.
中国南方农田和林间主要杂草的分布及重要性

Pest	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Eclipta prostrata	++	+	+		++		+	+					+	+	10	38=
Eichhornia crassipes	+	+	+++	+	+	+	+	+	+++		++		+++	+++	21	5
Eleocharis yokosoensis	+	+	+	+	+	+	+	+	+	+	+	+	+		13	13=
Eleusine indica	++	++	++		+++		+	+++		+	+	+	++	+	19	6=
Eragrostis cilianensis					+		+	+							3	83=
Galium aparine	++	++	++		+++		++	+++	+				+		16	10
Hedyotis auricularis									+	+	+	++			5	63=
Hedyotis costata									+	+	+	++			5	63=
Hemistepta lyrata	+	+						++	+					+	6	58=
Hydrilla verticillata	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	12=
Hydrocharis dubia	+	+			+			+	+				++		7	43=
Imperata cylindrica	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	12=
Isachne globosa	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Juncellus serotinus	+							++			++				5	63=
Lantana camara					+				+	+	+				4	77=
Lapsana apogonocides	++	++	++		++		+	+					+		11	37
Lemna purpusilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	12=
Lepidium virginicum	+		+		+				+				+	+	6	58=
Leptochloa chinensis	++	+	+++	++	+++			+++		+	++	++			19	6=
Lindernia procumbens	+		+			+					+				4	77=
Ludwigia adscendens									+	++		++	+	+	7	50=
Malachium aquaticum	++	++	++	++	+++		+++	+++		++	++		+		22	4
Mazus japonicus	+					+	+	+	+						5	63=
Medicago lupulina	+				+	+		+						+	5	63=
Melastoma candidum										+	+		+		3	83=
Mimosa pudica	+	+	+	+	+	+	+	+	+	++	++	+	++	+	17	8=
Monochoria vaginalis		+	+	+	++	++		++		+	+	++		+	14	12=
Myriophyllum spicatum	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Myriophyllum verticillatum	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Najas minor	+					+		+	+					+	5	63=

Table 20. (cont'd) Distribution and importance of major weeds of agriculture and forestry plantations in southern China.
中国南方农田和林间主要杂草的分布及重要性

Pest	JS	AH	ZJ	JX	HB	HN	GZ	SC	YN	GX	GD	HI	FJ	TW	Total +s	Order
Paspalum conjugatum									+	++	+	++		+	7	50=
Paspalum distichum		+	+		+		+				+	+	+		7	50=
Phragmites australis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	12=
Pistia stratiotes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	12=
Plantago major	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	12=
Plantago virginica	+	+	++	++											6	58=
Poa annua			+		+	++	++	+	+				+	+	10	38=
Polygonum lapathifolium	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	12=
Polypogon fugax			+++		++		++	++	+						10	38=
Portulaca oleracea	++	+	+		+++		+	+	+		+	+	++		14	12=
Potamogeton distinctus	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Potentilla reptans	+		+					+	+						4	77=
Ranunculus scleratus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	12=
Rumex crispus							++			++			++	+	7	50=
Rumex dentatus	+				+		+		+						4	77=
Sagittaria pygmaea	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Scirpus juncoides	+	+			+	+	+	+	+				+		8	43=
Scirpus planiculmis	++		+		+			+							5	63=
Setaria pumila	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Setaria viridis	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=
Spartina anglica			+								+		+++		5	63=
Sphenoclea zeylanica										++	+	++			5	63=
Stellaria media	+		+		++	++	+++	++	++				+	+	15	11
Synedrella nodiflora									++		++			+	5	63=
Vallisneria spiralis	+	+	+	+	+	+	+	+	+						9	42
Veronica didyma	++				++	++									6	58=
Veronica persica		++	+		+		++	+					+		8	43=
Xanthium sibiricum	+	+	+	+	+	+	+	+	+	+	+	+	+		13	23=

87 species

Table 21. Ranking of major weeds
主要杂草的排位

This table lists each of the 87 weeds in descending order of +s, so that those regarded as of greatest importance can be easily recognised. It is clear from the result that a far more conservative approach than for arthropod pests has been adopted in allocating +s. However, it is believed that there is consistency in rating within this table so that, although scores cannot be compared directly with those from the tables for arthropod pests, they reflect the comparative importance of the listed weeds.

The majority of the weeds belong to the family Poaceae (21), followed by the Asteraceae (13), Cyperaceae (8), Convolvulaceae (5) and Amaranthaceae (4).

29+
Echinochloa crusgalli

26+
Alopecurus aequalis
Digitaria sanguinalis

22+
Malachium aquaticum

21+
Eichhornia crassipes

19+
Eleusine indica
Leptochloa chinensis

17+
Cyperus difformis
Mimosa pudica

16+
Galium aparine

15+
Stellaria media

14+
Cyperus rotundus
Hydrilla verticillata
Imperata cylindrica
Lemna purpusilla
Monochoria vaginalis
Phragmites australis
Pistia stratiotes
Plantago major
Polygonum lapathifolium
Portulaca oleracea
Ranunculus scleratus

13+
Artemisia annua
Calystegia hederacea
Calystegia sepium
Carex filicina
Eleocharis yokosoensis
Isachne globosa
Myriophyllum spicatum
Myriophyllum verticillatum
Potamogetum distinctus
Sagittaria pygmaea
Setaria glauca
Setaria viridis
Xanthium sibiricum

12+
Alternanthera philoxeroides
Cyperus iria

11+
Lapsana apogonocides

10+
Avena fatua
Eclipta prostrata
Poa annua
Polypogon fugax

9+
Vallisneria spiralis

8+
Alopecurus japonicus
Alternanthera sessilis
Ambrosia artemisifolia
Chromolaena odorata
Dactyloctenium aegyptium
Scirpus juncoides
Veronica persica

7+

Ageratina adenophora
Ageratum conyzoides
Cephalanoplos segetum
Hydrocharis dubia
Ludwigia adscendens
Paspalum conjugatum
Paspalum distichum
Rumex crispus

6+

Daucus carota
Hemistepta lyrata
Lepidium virginicum
Plantago virginica
Veronica didyma

5+

Amaranthus retroflexus
Beckmannia syzigachne
Chenopodium serotinum
Cynodon dactylon
Hedyotis auricularis
Hedyotis costata
Juncellus serotinus
Mazus japonicus
Medicago lupulina
Najas minor
Scirpus planiculmis
Spartina anglica
Sphenoclea zeylanica
Syndrella nodiflora

4+

Convolvulus arvensis
Cuscuta australis
Lantana camara
Lindernia procumbens
Potentilla reptans
Rumex dentatus

3+

Amaranthus lividus
Cuscuta chinensis
Eragrostis cilianensis
Melastoma candidum

Table 22

Table 22 summarises information on 15 biological control targets and on 12 dossiers of prospects for control, involving 21 of the 87 major weeds listed in Table 21.

Column 3 indicates the number of natural enemy species introduced and Column 4 the countries involved in the importations. Programs in these have ranged from thorough and extensive to minimal; and establishments of natural enemies from highly successful to unsuccessful.

Column 5 provides an assessment (often subjective) of the degree of success achieved. This has sometimes varied considerably from country to country; and from many countries no evaluations of introductions are available. Successful control appears to be directly related, in many of these cases, to the level of resources provided.

Data in columns 5 and 6 are drawn mainly from the publication of Julien (1992) and the records of dossiers in column 2 from Waterhouse (1993b, 1994) and Waterhouse and Norris (1987). The assessment indicators are

++++	excellent control
+++	good
++	fair
+	minor effect
±	attack, but no evidence of effect
-	not established
E	under evaluation

Column 6 is our attempt to predict what the prospects are for useful control of the target species in China. As additional information becomes available, it is highly likely that some of these predictions will have to be modified.

It is necessary to recognise that a modest degree of biological control of a weed may result in competition with other plants in its environment suppressing it to a level at which it becomes unimportant. This is in contrast with biological control of an insect pest where the controlled pest is very seldom replaced by another species.

It is interesting that more than half of the 21 weeds listed originated in the Americas and that the prospects for valuable control were rated as excellent for 3 species, good for 4 and medium for a further 4.

Paspalum conjugatum, is not regarded as a suitable target for biological control (Column 6: incompatible) because it is a pasture species in some situations and biological control agents would not distinguish between it in these siutations and those in which it is a weed.

Table 22. Major weeds in southern China for which classical biological control has been attempted or evaluated.
曾尝试或评估过传统生防的中国南方主要杂草

Species and origin	Dossier?	Number of natural enemy species introduced	Countries where introduced	Overall result of introduction	Prospects for valuable control
Ageratina adenophora Central America		3	Australia, China, India, Hawaii, New Zealand, S. Africa	++ to ±	medium
Ageratum conyzoides Tropical America	yes	-	-	-	?
Alternanthera philoxeroides South America	yes	4	Australia, China, New Zealand, Thailand, USA	++++ to ±	excellent (for aquatic form)
Ambrosia artemisifolia North America		8	Australia, China, USSR, Yugoslavia	++ to ±	medium
Chromolaena odorata Central and South America	yes	6	Caroline I, Ghana, Guam, India, Malaysia, Nigeria, S. Africa	+++ to -	good
Convolvulus arvensis Europe-Asia		3	Canada, USA	-	
Cuscuta australis ?Australia		1 Mycoherbicide	China	+++	good (as mycoherbicide)
Cuscuta chinensis ?China		1 Mycoherbicide	China	+++	good (as mycoherbicide)
Cyperus rotundus India	yes	3	Barbados, Cook I, Fiji, Hawaii, Mauritius, Sudan, Tonga, USA	± to -	poor
Eichhornia crassipes South America	yes	5	Australia, Benin, Egypt, Fiji, Ghana, India, Indonesia, Kenya, Malawi, Malaysia, Myanmar, Nigeria, Panama, Solomon I, South Africa, Sri Lanka, Sudan, Tanzania, Thailand, Uganda, USA, Vietnam, Zambia, Zimbabwe	++++ to ++	excellent
Eleusine indica Africa	yes	-	-	-	medium

Table 22. (cont'd) Major weeds in southern China for which classical biological control has been attempted or evaluated.
曾尝试或评估过传统生防的中国南方主要杂草

Species and origin	Dossier?	Number of natural enemy species introduced	Countries where introduced	Overall result of introduction	Prospects for valuable control
Hydrilla verticillata Africa, Asia, Australia		3	USA	E	?
Isachne globosa Asia		1	Belgium	E	?
Lantana camara Tropical America	yes	33	Australia, Caroline I, Cook I, Fiji, Ghana, Hawaii, India, Indonesia, Kenya, Madagascar, Mariana I, Marshall I, Mauritius, New Caledonia, PNG, Solomon I, S. Africa, Tanzania, Tonga, Uganda, Vanuatu, W. Samoa, Zambia, Zanzibar, Zimbabwe	++++ to +	good
Ludwigia adscendens Tropical Asia		1	Thailand	+++	good
Mimosa pudica Central America	yes	-	-	-	?
Myriophyllum spicatum ?South America		1	USA	-	?
Paspalum conjugatum Tropical America	yes	-	-	-	incompatible
Pistia stratiotes South America	yes	2	Australia, Benin, Botswana, Ghana, PNG, S. Africa, USA, Zambia, Zimbabwe	++++	excellent
Portulaca oleracea ?Central America	yes	-	-	-	good
Sphenoclea zeylanica Tropical Africa	yes	-	-	-	medium

Table 23. Preferred names of weeds
改用的杂草种名

Ageratina adenophora	**use for**	*Eupatorium adenophorum*
Eupatorium adenophorum	**see**	*Ageratina adenophora*
Chromolaena odorata	**use for**	*Eupatorium odoratum*
Eupatorium odoratum	**see**	*Chromolaena odorata*
Ludwigia adscendens	**use for**	*Jussiaea repens*
Jussiaea repens	**see**	*Ludwigia adscendens*
Lemna purpusilla	**use for**	*Lemna minor*
Lemna minor	**see**	*Lemna purpusilla*
Phragmites australis	**use for**	*Phragmites communis*
Phragmites communis	**see**	*Phragmites australis*

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