



农业信息 科研进展 2014

● 中国农业科学院农业信息研究所 编著

SCIENTIFIC RESEARCH
PROGRESS IN AGRICULTURAL INFORMATION 2014

Compiled by Agricultural Information Institute, Chinese Academy of
Agricultural Sciences

中国农业科学技术出版社
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前 言

2014年在部、院党组的正确领导下，在农业部、科技部等相关部委的大力支持下，信息所^①紧密围绕十八届三中、四中全会精神，全面落实本年度各项工作计划。按照“团结进取、务实创新”的工作方针，周密部署各项工作，圆满完成了科学研究、公益服务等各项任务目标，取得了良好的成绩。

《农业信息科研进展》原名为《农业信息技术与信息管理》，从2002年起每年公开出版一册，2013年更名为《农业信息科研进展》。主要是将信息所科技人员当年发表的学术论文和撰写的科技报告选编成册，以充分检阅和展示这些成绩，尊重和激励全所科技人员的创造性劳动，更广泛地宣传和应用好这些研究成果。

《农业信息科研进展 2014》集中反映了2014年信息所在农业信息技术、农业信息分析、农业信息管理等学科领域的科研进展，收集了科研人员在农业信息管理系统管理、农业信息智能分析、农业信息网络技术、农业数据库建设、农业信息管理、农业信息化、农产品供求分析、期刊编辑等方面的研究论文与探讨类文章。

《农业信息科研进展 2014》共选编了信息所研究人员2014年度的论文与科技报告42篇，分农业信息技术、农业信息分析、农业信息资源管理、农业科技期刊4个部分。

^① 中国农业科学院农业信息研究所简称信息所，全书同

本书附录中收录了中国农业科学院农业信息研究所组织机构和负责人的名单，以及 2014 年部分在研课题、出版著作、获奖科研成果、登记的软件著作权、获得的专利权等情况，还选编了研究所大事记，以进一步增强本书的纪实性。

为方便交流，收录的学术论文题目和作者均采用了中英文两种文字。希望通过本书的出版，进一步得到社会各界对信息所工作的关心与支持，不断提高信息所的科技创新能力、公益服务能力和成果应用能力，也希望能够通过这种形式加强与科技同行的学术交流，共同为我国农业信息科技事业发展作出新的贡献。

中国农业科学院农业信息研究所所长



2015 年 9 月

Foreword

In 2014, under the correct leadership of the Party group of Ministry of Agriculture and the Chinese Academy of Agricultural Sciences, with the substantial support of Ministry of Agriculture, Ministry of Science and Technology and other relevant ministries, AII-CAAS has fully implemented all the work plans of this year, by centering around the spirit of Eighteen Third and fourth Plenary Session. Following the working policy of Solidarity, progress, pragmatic and innovation, meticulously prepared all works, AII-CAAS has successfully completed all the tasks and objectives like scientific researches and public services, and achieved great development results.

“Scientific Research Progress in Agricultural Information” formerly known as “Agricultural Information Technology and Information Management”, it has published annually since 2002, and has changed its name since 2013. The publication has mainly collected academic papers and the reports of science and technology written by research staff of the AII-CAAS every year, to fully inspect and show these achievements, to respect and stimulate all the creative work of scientific and technical personnel in the institution, and to promote and apply these research achievements more widely.

“Scientific Research Progress in Agricultural Information 2014” has centrally reflected the research progress of the AII-CAAS in agricultural information technology, agricultural information analysis, agricultural information management, and other areas of science in 2014, and collected research papers and discussion articles written by research staff in the aspects of agricultural information system management, agricultural information intelligence analysis, agricultural information network technology, agricultural database construc-

tion, agricultural information management, agricultural information, farm products supply and demand analysis, agricultural periodical editing, and so on.

“Scientific Research Progress in Agricultural Information 2014” has selected 42 papers and science and technology reports written by the research staff of the AII-CAAS. It divides into four parts: Agricultural Information Technology, Agricultural Information Analysis, Agricultural Information Resource Management, Agricultural Science and Technology Periodicals.

The list of the organizations of AII-CAAS, and their persons in charge have included in the appendix, as well as partial on-going research projects in 2014, published works, awards of research achievements, copyright of registered computer software, gained patent rights and so on. In addition, it has edited the Events of the AII-CAAS, so as to further enhance the monograph on-the-spot.

This book has adopted both Chinese and English languages in the title and author of the collected academic papers for the convenience of communication. We hope that we can get further concern and support in our works from all sectors of the society through the publication of this monograph, continue to improve our science and technology innovation capacity, public welfare service capacity and industrial development capacity, strive to strengthen academic exchange with science and technology colleagues through this form as well, and join hands in making new contributions to the development of agricultural information science and technology in China.

Sun Tan

Director-General,

Agricultural Information Institute,

Chinese Academy of Agricultural Sciences (AII CAAS),

September 2015

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2014

农业信息技术

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