

The impact of agricultural chemical inputs on environment: global evidence from informetrics analysis and visualization

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Abstract

This paper identifies and analyzes salient research frontiers, research hotspots and high-frequency terms using aggregated and multiple-source literature records related to the topic of ‘effects of agricultural chemical inputs on the environment.’ We employ a set of Informetrics Theory methods (i.e. document co-citation analysis, document clustering and co-words analysis via co-occurrence network of subject terms) for our analysis. Our findings suggest that in the past 50 years, research about this topic can be divided into three stages, namely the early stage (1990–99), the middle stage (2000–07) and the late stage (2008–16). Research directions for the three identified stages deal primarily with (a) the effects of pesticides and veterinary drugs on the environment, (b) the influence of fertilizer application on the environment and food safety and (c) the technologies and strategies to monitor and control the impact of agricultural chemical inputs on the environment. Particularly, we find that research in the topic of interest primarily focusses on agricultural scenarios of food crop production and fish farming. In terms of agricultural chemical inputs, major attention is given to pesticides and fertilizers. With respect to the impact of agricultural inputs, pollutant formation and transferring process, nitrogen and phosphorous cycles, impact assessment indicators, as well as pollution prevention and reduction strategies are the most researched areas, and soil and water constitute the main researched environmental media. Finally, institutions and organization based in North America, East Asia and Europe are main research contributors on this topic.

Keywords: agricultural chemical inputs; fertilizers; pesticides; environmental impact; informetrics analysis

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1 INTRODUCTION

Agricultural inputs broadly refer to the materials used or added in the process of agricultural production and include biological inputs, chemical inputs, and agricultural facilities and

equipment. In particular, agricultural chemical inputs denote the different types of chemical applications in agricultural production, such as pesticides (including natural and biological pesticides), chemical fertilizers, veterinary drugs and feed additives, among others.

Agricultural management practices—for example, an increased use of agricultural chemicals or fertilizers—are often

Agricultural Inputs And Environment

Mboya S. D. Bagachwa, Festus Limbu

Agricultural Inputs And Environment:

Agricultural Input and Environment S.P. Palaniappan,1995-01-01 After green revolution was launched in India substantial increase in the production of food grains was achieved through the use of improved crop varieties and higher levels of inputs like fertilizers water and plant protection chemicals This made the revolution possible but it has limitations of higher costs and of causing damage to the environment specially when inputs are not used efficiently and judiciously A decline of yields are being reported from the green revolution belts of India in spite of liberal application of fertilizers and other inputs The environmental problems are now becoming real problems of the developing countries as well as developing world This disturbing trend is attributed to soil degradation multi nutrient deficiencies and pest and diseases build up The use of chemical inputs increases yields for a limited period but without good management there is rapid deterioration of land and water resources Inefficient use of fertilizers results in polluting the environment in addition to wastage of scarce resource It is therefore imperative to conserve and utilize optimally the available production resources like land water and genetic diversity and to efficiently manage the agricultural inputs for sustaining high crop productivity on a long term basis with minimum damage to ecological and socio economic environment In this context publication of a reference book is timely and appropriate As the scientists students planners administrators and extensionists recognize the importance of environmental problems related to agriculture but they need ready reference to learn more about the problems plan research agenda and develop strategies to tackle the problems Hence an attempt has been made to compile the information and presents in a readable form in this book The book not only covers the effect of excessive use of chemical inputs on environment but also the effect of other human activities on agricultural production It is sure that the book will be of immense use of post graduate students and research workers in agricultural and environmental sciences extension workers progressive farmers officials of the department of agriculture environment and pollution control board administrators planners and policy makers and the technical staff working in the agricultural input industry *Agriculture, Trade, And The Environment* Maury E. Bredahl,2019-03-13 In this timely volume an international group of economists trade negotiators and environmentalists brings diverse perspectives to bear on the contentious issue of international trade and the environment Providing a conceptual framework to help assess the issues the contributors discuss three themes the dimensions of the economic and political **Agricultural Input Marketing** S. P. Seetharaman,1992 Revision of papers presented at the National Workshop on Agricultural Inputs held in 1990 and organized by the Centre for Management in Agriculture Indian Institute of Management Ahmedabad *Sustainable Green Technologies for Environmental Management* Shachi Shah,V. Venkatramanan,Ram Prasad,2019-02-19 Our Earth is considered as a natural system which organizes and controls itself However the present scale of anthropogenic activity is unprecedented in the history of mankind compelling the intelligientia to ponder over the scientific causes of the problems processes and sustainable and pragmatic solutions The current rate of

resource use and consumption pattern are depleting the planet's finite resources and damaging life supporting ecosystems. A large number of toxic substances are increasingly found in air, water, soil, and flora and fauna. We are in the midst of a period of increasing interconnected and complex global challenges that seek action across temporal and spatial scales, diverse sectors, and concerted efforts from global citizens. The environment, on account of human's action, has been experiencing imbalances and ecological catastrophe. Environmental issues like global climate change, biodiversity loss, the rapid depletion of natural resources, degradation of global commons, stratospheric ozone depletion, have been restricting the safe operating space and transgressing the planetary boundaries, endangering the existence of human societies. The global environmental problems, if not scientifically managed, may end up in the civilizational collapse. Nevertheless, the underlying commonality among these environmental issues is interrelatedness, complexity, and difficulty in identifying and implementing solutions. The global environmental challenges can be managed by adopting sustainable green technologies which dovetails the principles of environmental sustainability with social and ecological sustainability. Green growth is construed as a new development paradigm that sustains economic growth while at the same time ensuring environmental sustainability.

Food Security, Food Prices and Climate Variability Molly Brown, 2014-06-05. The agriculture system is under pressure to increase production every year as global population expands and more people move from a diet mostly made up of grains to one with more meat, dairy, and processed foods. This book uses a decade of primary research to examine how weather and climate, as measured by variations in the growing season using satellite remote sensing, has affected agricultural production, food prices, and access to food in food insecure regions of the world. The author reviews environmental economics and multidisciplinary research to describe the connection between global environmental change, changing weather conditions, and local staple food price variability. The context of the analysis is the humanitarian aid community using the guidance of the USAID Famine Early Warning Systems Network and the United Nations World Food Program in their response to food security crises. These organizations have worked over the past three decades to provide baseline information on food production through satellite remote sensing data and agricultural yield models, as well as assessments of food access through a food price database. These datasets are used to describe the connection and to demonstrate the importance of these metrics in overall outcomes in food insecure communities.

World Development Report 2008 World Bank, 2007. This work will focus on three themes, namely identifying new sources of growth for agriculture, making agriculture more effective for poverty reduction, and managing the transitions that accompany the transformation of agriculture as economies develop.

Environment and Development Economics, 1999. [Journal of Environmental Quality](#), 2009. [Multidisciplinary Research in Arts, Science & Commerce \(Volume-12\)](#) Chief Editor- Biplab Auddya, Editor- Dr. Rajendran L, Dr. Sarika Chhabria Talreja, Dr. Richi Simon, Dr. Thenmozhi P., Dr. Pragyasa Harshendu Upadhyaya, Abhendra Pratap Singh, 2024-11-12. **Multidisciplinary Research in Arts, Science & Commerce (Volume-11)** Chief Editor- Biplab Auddya, Editor- Dr. B. Deepa, Dr. Navanath Wajage, Prof.

Dr. Alok Satsangi, Vidwan Manjesh M, Dr. Savitha V, Kera Ram,2024-11-05 **Industry and Environment** ,1999

Agriculture, Trade and the Environment Dimitris Diakosavvas,2005 The objective of this study is to improve understanding of the linkages between agriculture trade and the environment in relation to the arable crop sector It looks at the economic and structural aspects of the sector the way it is affected by agricultural policies and impacts associated with production It also looks at policy measures to address environmental issues the consequences of trade liberalisation and the trade effects of environmental payments and regulations **OECD Environmental Performance Reviews OECD**

Environmental Performance Reviews: Korea 2006 Organisation for Economic Co-operation and Development,2006-09-26 This comprehensive review of Korea s environmental policies and programmes brings the reader information on the extent to which Korea is meeting its domestic environmental objectives and international commitments It reviews progress in pollution abatement and nature and biodiversity management as well as progress in integrating environmental concerns in agricultural energy fiscal and transport policy It also examines the enviromental social interface and international commitments The report includes a series of recommendations and selected statistical data **Policy Reform and the Environment in**

Tanzania Mboya S. D. Bagachwa,Festus Limbu,1995 **First ASEAN State of the Environment Report** ASEAN.

Secretariat,ASEAN.,1997 *Agriculture, Trade, and the Environment* John M. Antle,J. N. Lekakis,George P. Zanias,1998

This work focuses on the liberalization of agricultural policy questioning its compatibility with the achievement of economic and environmental sustainability in the European Union It pays particular attention to agricultural reform **Environment and Biodiversity in the Context of South Asia** ,1996 Improving the Environment Through Reducing Subsidies: Case studies ,1999 And policy conclusions Part I Analysis and overview of studies Part II Case studies Part III *Effects of*

Agri-environment Schemes on Agricultural Inputs and Outputs Including Biodiversity in the Netherlands R. Somuah,2010

This research has sought to investigate effects of agri environment schemes AES on agricultural inputs and outputs and why AES has not benefited biodiversity substantially in the Netherlands based on previous research The methodology applied were interviews use of questionnaire inputs outputs analysis and literature review Experts and farmers within the Netherlands formed the respondents for this research Researchers who have done similar study on AES were interviewed to solicit for their knowledge on the research topic Also experts who are leaders and advisors of farmer cooperative and working in nature conservation organizations were consulted **Sustainable Development and the Environment** Food

and Agriculture Organization of the United Nations,1992 This publication is a compilation of a few papers 1990 1991 which deal with issues related to ecologically sustainable advances in biological productivity Scientific efforts initiated by agricultural universities made it possible to combine advances in production and productivity of crops with yield stability

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