

The World's Largest Open Access Agricultural & Applied Economics Digital Library

# This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<a href="http://ageconsearch.umn.edu">http://ageconsearch.umn.edu</a>
aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

Volume 21
Conference Number
2008

# Agricultural Economics Research Review

Conference Issue on

Changing Market Environments and Supply Side Constraints in Indian Agriculture



## AGRICULTURAL ECONOMICS RESEARCH ASSOCIATION (INDIA)

### **OFFICE BEARERS**

	OFFICE BEARERS	
Dr. S.S. Acharya	Former Director Institute of Development Studies (IDS) 8 B, Jhalana Institutional Area Jaipur – 302 004 (Rajasthan)	President
Dr. Mruthyunjaya	National Director, NAIP Krishi Anusandhan Bhawan II Pusa, New Delhi – 110 012	Vice President
Dr. V.P.S. Arora	Dean, CABM, G.B. Pant University of Agriculture and Technology Pantnagar – 263 145 (Uttarakhand)	Vice President
Dr. H.S. Vijay Kumar	Professor University of Agricultural Sciences Dharwad – 580 005 (Karnataka)	Vice President
Dr. P.K. Joshi	Director National Centre for Agricultural Economics and Policy Research Pusa, New Delhi – 110 012	Secretary
Dr. P. Kumar	Former Professor Division of Agricultural Economics IARI, New Delhi – 110 012	Treasurer
Dr. B.C. Barah	Principal Scientist National Centre for Agricultural Economics and Policy Research Pusa, New Delhi – 110 012	Joint Secretary
Dr. R.P. Singh	Director Amity School of Rural Agriculture and Management (ASRAM) Amity University, Lucknow – 226 010 (Uttar Pradesh)	Joint Secretary
Dr. T. Alagumani	Professor Department of Agricultural Economics Agricultural College and Research Institute, TNAU Madurai – 625 104 (Tamil Nadu)	Member
Dr. S.M. Mundinamani	University of Agricultural Sciences Dharwad – 580 005 (Karnataka)	Member
Dr. R.S. Tripathi	Central Soil Salinity Research Institute Karnal – 132 001 (Haryana)	Member
Dr. Virendar Kumar	Associate Professor Department of Agricultural Economics CSK Himachal Pradesh Agricultural University Palampur - 176 062 (Himachal Pradesh)	Member
Dr. A. Suresh	Central Sheep and Wool Research Institute Avikanagar – 304 501 (Rajasthan)	Member
Dr. V.A. Thorat	Department of Agricultural Economics Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth Dapoli, Distt. Ratnagir - 415 712 (Maharashtra)	Member
Dr. R.P. Singh	Chairman Department of Agricultural Economics Birsa Agricultural University Ranchi – 834 006 (Jharkhand)	Member
Dr. S. Mandal	ICAR Research Complex for NEH Region Umroi Road, Umiam Barapani – 793 103 (Meghalaya)	Member

## AGRICULTURAL ECONOMICS RESEARCH REVIEW

EDITORIAL BOARD				
Dr. K.C. Hiremath	Former Professor, UAS, Dharwad XI Cross Road, Nirmal Nagar Dharwad - 580 003 (Karnataka)	Chief Editor		
Dr. P. Kumar	Former Professor Division of Agricultural Economics Indian Agricultural Research Institute New Delhi - 110 012	Managing Editor		
Dr. (Mrs) Anuva Saikia	Professor Department of Agricultural Economics Assam Agricultural University Jorhat - 785 013 (Assam)	Member		
Dr. U.K. Pandey	Professor CCS Haryana Agricultural University Hisar - 125 004 (Haryana)	Member		
Dr. D.K. Marothia	Professor & Head Department of Agricultural & Natural Resource Economics Indira Gandhi Agricultural University (IGAU) Raipur - 492 006 (Chhattisgarh)	Member		
Dr. P.G. Chengappa	Vice Chancellor University of Agricultural Sciences Bangalore - 560 024 (Karnataka)	Member		
Dr. R.L. Shiyani	Professor and Head Department of Agricultural Economics Gujarat Agricultural University Junagadh - 362 001 (Gujarat)	Member		
Dr. Suresh Pal	Principal Scientist National Centre for Agricultural Economics and Policy Research Pusa, New Delhi - 110 012	Member		
Dr. Karam Singh	Former Director, AERC, PAU 42-G, BRS Nagar, Ludhiana-141 004 (Punjab)	Member		
Dr. V.C. Mathur	Head Division of Agricultural Economics Indian Agricultural Research Institute, New Delhi - 110 012	Member		
Dr. K. Palanisamy	Director (CARD) Tamil Nadu Agricultural University Coimbatore - 641 003 (Tamil Nadu)	Memebr		
Dr. R.C. Agrawal	Former Professor Weisswasserweg 47 D-12205 Berlin (Germany)	Foreign Member		
Dr. Suresh Babu	Senior Fellow International Food Policy Research Institute Washington, DC 20006-1002, USA	Foreign Member		

## Agricultural Economics Research Review

[Journal of the Agricultural Economics Research Association (India)]

Volume 21 Conference Number 2008

## **Conference Issue**

on

## Changing Market Environments and Supply Side Constraints in Indian Agriculture

## **CONTENTS**

Preface	(iii)
Contract Farming and its Implications for Input-supply, Linkages between Markets and Farmers in Karnataka  N. Nagaraj, M.G. Chandrakanth, P.G. Chengappa, H.S. Roopa and Pramod M. Chandakavate	307
Farmers' Perception on Risks in Fruits and Vegetables Production: An Empirical Study of Uttar Pradesh  Jabir Ali and Sanjeev Kapoor	317
Spatial Price Integration and Price Transmission among Major Fish Markets in India P. Shinoj, B. Ganesh Kumar, R. Sathiadhas, K.K. Datta, Muktha Menon and Shiv Kumar Singh	327
Whether Commodity Futures Market in Agriculture is Efficient in Price Discovery ? — An Econometric Analysis  R. Salvadi Easwaran and P. Ramasundaram	337
Domestic Fish Marketing in India – Changing Structure, Conduct, Performance and Policies  B. Ganesh Kumar, K.K. Datta, P.K. Joshi, P.K. Katiha, R. Suresh, T. Ravisankar, K. Ravindranath and Muktha Menon	345
Determinants of Group Performance of Women-led Agro-processing Self-help Groups in Kerala  Lina Joy, A. Prema and S. Krishnan	355
A Novel Agribusiness Model for Backward Linkages with Farmers: A Case of Food Retail Chain  K.P. Mangala and P.G. Chengappa	363
	Contd

## Contents contd....

Trends in Private and Public Investments in Agricultural Marketing Infrastructure in India $M.S.\ Jairath$	371
Investments in Irrigation Projects — An Impact Analysis S.L. Kumbhare and Madhurima Sen	377
Rural Credit Delivery in India: Structural Constraints and Some Corrective Measures <i>K.J.S. Satyasai</i>	387
Farm-economics of Genetically Improved Carp Strains in Major Asian Countries and Carp Seed Price Policy Model  Praduman Kumar, Madan M. Dey and Nagesh K. Barik	395
Dynamics of Institutional Agricultural Credit and Growth in Punjab: Contribution and Demand-Supply Gap  R.S. Sidhu, Kamal Vatta and Arjinder Kaur	407
Precision Farming Technology, Adoption Decisions and Productivity of Vegetables in Resource-Poor Environments  R. Maheswari, K.R. Ashok and M. Prahadeeswaran	415
Analysis of Marketing of Fish Fingerlings and Environmental Awareness Level of Fishermen in Dakshin Dinajpur District of West Bengal  Tuhin Narayan Roy	425
Abstracts of Papers	433
Author Index	467
Guidelines for Submission of Papers/Abstracts	468

## **Preface**

Indian agriculture is undergoing a rapid transformation with rising per capita income and urbanization, increasing population and changing consumers' tastes and preferences. Global market environment and integration with global economy are offering several opportunities and posing challenges to agricultural growth and market development. In this context, the behaviour of supply side constraints in Indian agriculture needs a critical appraisal. Development of viable strategies and approaches for ensuing adequate and efficient supply of inputs and services for accelerated agricultural growth are going to be quite challenging.

Keeping the above scenario in view, the Agricultural Economics Research Association (India) (AERA) has chosen the theme, "Changing Market Environments and Supply Side Constraints in Indian Agriculture" for its XVIth Annual Conference being organized jointly by Amity School of Rural and Agriculture Management (ASRAM), Lucknow and Agricultural Economics Research Association (India), New Delhi during 21-23 November, 2008. The sub-themes identified for discussion during the Conference are: (i) Changing marketing scenario covering the topics innovations in agricultural marketing, trends in agricultural retailing, commodity markets and futures markets, success of various formats, public-private partnership, policy support and requirements and their implications for mitigating supply side constraints; and trends in profitability of agriculture, farmers' incomes, and terms of trade; (ii) Agricultural inputs and services covering issues like availability, role in productivity enhancement, gaps in input supply and demand, required innovations for better technology adoption, extension education; future demand for support services based on the emerging trends and strategies for meeting the gap; (iii) Investment and subsidies covering areas of public and private investments, subsidies on inputs supply and services, changing profile of investment portfolio; (iv) Institutional mechanism for delivery of inputs and services covering topics like contract farming, linkages between markets and farmers, risk sharing, etc.; and (v) Technology status dealing topics like new emerging technologies, their adoption and impact on income, employment and food security.

There has been an overwhelming response from the researchers for the Conference and the Association appreciates and acknowledges the interest shown by the researchers in the Conferences. Proceedings of Conference include 14 full-length papers and 68 papers in the form of abstracts. The publishing of only abstract, however, is in no way, a reflection on the quality of the research paper.

The Association is grateful to the authorities of Amity School of Rural and Agriculture Management, Lucknow, for consenting to host the XVIth AERA Conference and providing all the logistic support.

The Association is thankful to Dr. R.T. Doshi Foundation, Mumbai, for the encouragement being given by it to the researchers in the area of agricultural economics by awarding prizes for two best presentations during the AERA Conference and two best research articles published in *Agricultural Economics Research Review* in the previous year.

The financial help received from National Bank for Agriculture and Rural Development (NABARD), Mumbai, for publishing research papers in the Conference Issue of *Agricultural Economics Research Review* is gratefully acknowledged. The Association highly appreciates the continuous support from NABARD for undertaking this professional agriculture-related activity.

Thanks are also due to Indian Council of Agricultural Research, New Delhi, for providing continuous financial support to Agricultural Economics Research Association (India) towards publication of regular issues of *Agricultural Economics Research Review*.

The Office Bearers of AERA and Members of the Editorial Board of *Agricultural Economics Research Review* have contributed in several ways. I take this opportunity to thank all of them for the help and cooperation extended by them. I am particularly grateful to Dr S.S. Acharya, President, AERA and former Director, Indian Institute of Development Studies, Jaipur, for providing guidance and consenting to deliver Presidential Address at XVI AERA Conference. I also gratefully acknowledge the untiring efforts of Dr Mruthyunjaya, National Director, NAIP; Dr Praduman Kumar, former Professor of Agricultural Economics (IARI) and Managing Editor, AERA; and Dr V.C. Mathur, Head, Division of Agricultural Economics (IARI), New Delhi, for their contributions to the development of *Agricultural Economics Research Review*. I am thankful to Dr B.S. Aggarwal for his efforts in language editing and overall presentation of articles and to Mr. Vijay Kumar for his help to bring the Proceedings in time.

Cooperation was also sought from the learned scientists in evaluating the papers received for presentation at this Conference. I am grateful to all the reviewers for the support extended by them.

I also thank all the authors who have contributed their excellent pieces of research work for presentation at this Conference. Thanks are also due their organizations for deputing them to the XVIth AERA Conference.

P.K Joshi
Secretary
Agricultural Economics Research Association (India)
New Delhi 110 012