



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

<http://ageconsearch.umn.edu>

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.*

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.

Vol XXXVI
No. 1

ISSN 0019-5014

JANUARY-
MARCH
1981

INDIAN JOURNAL OF AGRICULTURAL ECONOMICS



INDIAN SOCIETY OF
AGRICULTURAL ECONOMICS,
BOMBAY

THE INDIAN SOCIETY OF AGRICULTURAL ECONOMICS, BOMBAY

Aims and Objects :

To promote the study of social and economic problems of agriculture and rural areas and also to promote technical competence for teaching and research in Agricultural Economics and allied subjects through :

- (a) research in problems of agricultural economics and rural development;
- (b) periodical Conferences and Seminars;
- (c) publication of books, reports, papers or summaries of papers, either separately or collectively, or in a periodical which may be issued under the auspices of the Society;
- (d) co-operation with other institutions having similar objects, such as the International Association of Agricultural Economists and the Indian Economic Association, etc.

OFFICE-BEARERS FOR THE YEAR 1981

President

Prof. M. L. Dantwala

Vice-Presidents

Shri H. L. Chawla

Dr. Nilakantha Rath

Dr. P. D. Saikia

Dr. S. M. Shah

Dr. I. J. Singh

Hon. Secretary and Treasurer

Dr. J. N. Barmeda

Hon. Jt. Secretary

Dr. (Miss) S. D. Sawant

President-Elect for the 41st Annual Conference

Dr. S. L. Shah

Executive Committee Members

Dr. S. S. Acharya

Dr. P. K. Chatterjee

Dr. J. S. Chawla

Shri H. G. Goswami

Dr. T. K. Meti

Dr. B. S. Panghal

Dr. R. G. Patil

Dr. M. S. Rathore

Dr. (Mrs.) Tara Shukla

Dr. R. P. Singh

Dr. S. P. Sinha

Prof. K. Thiruvengkatachari

WITH NO. 1, VOL. XXXVI

**INDIAN JOURNAL OF
AGRICULTURAL ECONOMICS**



INDEX TO VOLUME XXXV
1980

THE INDIAN SOCIETY OF AGRICULTURAL ECONOMICS
BOMBAY-400 023

INDEX TO INDIAN JOURNAL OF AGRICULTURAL ECONOMICS VOLUME XXXV, 1980

ARTICLES	No.	Page
Alagh, K. Yoginder and Sharma, P. S., Growth of Crop Production : 1960-61 to 1987-79—Is It Decelerating?	2	104
Baanante, Carlos A. and Sidhu, Surjit S., Input Substitution and Agricultural Research ..	3	20
Bhogal, T. S. and Pandey, R. N., Prospects of Increasing Income and Employment on Mixed Farms	4	144
Biswas, B. C. and Khambete, N. N., Reorientation of the Cropping Pattern on the Basis of Probabilistic Moisture Availability Index	2	138
Dahiya, P. S.; Sikka, B. K. and Grewal M. S., Impact and Performance of Antyodaya Programme in Himachal Pradesh	4	66
Dandekar, V. M., Introduction to Seminar on Data Base and Methodology for the Study of Growth Rates in Agriculture	2	1
Dayal, Rameshwar; Sirohi, A. S.; Sharma, B. M. and Singh, Ikbai, Role of Dairy and Poultry Enterprises for Increasing Income and Employment on Farms in the Union Territory of Delhi	4	112
Deshpande, R. S., Bibliography on Crop-Weather Relationship	2	144
Deshpande, R. S.; Rao, V. M. and Nadkarni, M. V., Measurement of Growth and Fluctuations in Crop Output—An Approach Based on the Concept of Non-systematic Component	2	21
Gangadharan, T. P., Feed Economy in Milk Production : A Probe under New Dairy Farm Technology in Kerala	4	132
George, P. S., The Changing Pattern of Consumer Demand for Foodgrains in India ..	1	53
Grewal, M. S.; Dahiya, P. S. and Sikka, B. K., Impact and Performance of Antyodaya Programme in Himachal Pradesh	4	66
Grewal, S. S. and Rangai, P. S., Economics and Employment of Dairying in Punjab ..	4	120
Haque, T. and Joshi, P. K., An Economic Inquiry into the Long-term Prospects of Balanced Agricultural Growth in India	4	1
Iyengar, N. Sreenivasa, Summaries of Group Discussion : Subject II—Inter-Sectoral Linkages	1	48
Jacob, Alfred, S. J., The Scope for a New Surge of Agricultural Development in the Dry-land or Drought-Prone Areas of India	4	22
Jha, Dayanatha, Summaries of Group Discussion : Subject I—Economics of Investment in Organization of Extension Services in Agriculture	1	46
Joshi, P. K. and Haque, T., An Economic Inquiry into the Long-term Prospects of Balanced Agricultural Growth in India	4	1
Kalirajan, K., The Contribution of Location Specific Research to Agricultural Productivity	4	8
Khambete, N. N. and Biswas, B. C., Reorientation of the Cropping Pattern on the Basis of Probabilistic Moisture Availability Index	2	138
Khanna, S. S. and Pandey, U. K., An Economic Evaluation of Small Farmers' Development Agency for Weaker Sections in Haryana	4	49
Krishnaji, N., Measuring Agricultural Growth	2	31
Kumar, P. and Singh, R. P., Dynamic Feed-Milk Relationship and Technological Change in Milk Production	4	126
Mabawonku, A. F., Programmes and Strategies for the Development of Artisanal Fisheries in Nigeria	4	77
Mishra, C. S. and Yadav, Hanumant, Impact of the Tribal Development Programmes on Employment, Income and Asset Formation in Bastar District of Madhya Pradesh ..	4	69
Misra, V. N. and Papola, T. S., Labour Supply and Wage Determination in Rural Uttar Pradesh	1	106
Mukherjee, Chandan and Vaidyanathan, A., Growth and Fluctuations in Foodgrain Yields Per Hectare—A Statewise Analysis	2	60

	No.	Page
Murty, C. Samba and Rao, G. Dasaradha Rama, Distribution of Government Lands to the Rural Poor in Coastal Andhra Pradesh	4	58
Nadkarni, M. V.; Rao, V. M. and Deshpande, R. S., Measurement of Growth and Fluctuations in Crop Output—An Approach Based on the Concept of Non-systematic Component	2	21
Pandey, R. N. and Bhogal, T. S., Prospects of Increasing Income and Employment on Mixed Farms	4	144
Pandey, U. K. and Khanna, S. S., An Economic Evaluation of Small Farmers' Development Agency for Weaker Sections in Haryana	4	49
Papola, T. S. and Misra, V. N., Labour Supply and Wage Determination in Rural Uttar Pradesh	1	106
Patel, R. K., Rapporteur's Report on Economics of Livestock Enterprise	4	174
Prahladachar, M. and Venkataramanan, L. S., Growth Rates and Cropping Pattern Changes in Agriculture in Six States, 1950 to 1975	2	71
Prasad, Jagdish and Sinha, S.P., Special Programmes for Weaker Sections : An Evaluation (A Case Study of Programmes in Musahari Block, District Muzaffarpur, Bihar)	4	42
Rai, K. N. and Singh, I. J.; A Strategy for Agricultural Growth in the Dryland Farming Areas of Haryana	4	16
Rajagopalan, V., Rapporteur's Report on Long-term Prospects of Agricultural Growth	4	36
Ranade, C. G., Impact of Cropping Pattern on Agricultural Production	2	85
Rangi, P.S. and Grewal, S.S., Economics and Employment of Dairying in Punjab	4	120
Raut, K. C.; Singh, Shivtar and Rustagi, R. L., Comparative Economics of Rearing Cross-bred and Non-descript Calves under Village Conditions	4	139
Rao, G. Dasaradha Rama and Murty, C. Samba, Distribution of Government Lands to the Rural Poor in Coastal Andhra Pradesh	4	58
Rao, L. K. Mohana, Impact of Programmes on Target Groups—Case Study of a Regional Rural Bank	4	73
Rao, V. M., Methodological Issues in Measuring Agricultural Growth: Lessons of Recent Indian Researches	2	13
Rao, V. M.; Nadkarni, M. V. and Deshpande, R. S., Measurement of Growth and Fluctuations in Crop Output—An Approach Based on the Concept of Non-systematic Component	2	21
Rath, Nilakantha, A Note on Agricultural Production in India during 1955-78	2	94
Rustagi, R. L.; Raut, K.C. and Singh, Shivtar, Comparative Economics of Rearing Cross-bred and Non-descript Calves under Village Conditions	4	139
Sagar, Vidya, Decomposition of Growth Trends and Certain Related Issues	2	42
Sawant, S. D., Water Requirements for Agricultural Use in Maharashtra in 2000 A.D.	1	91
Shah, C. H., Presidential Address—Food Preferences and Nutrition : A Perspective on Poverty in Less Developed Countries	1	1
Shah, S. M., Rapporteur's Report on Special Programmes for Weaker Sections	4	99
Sharma, B. M.; Sirohi, A. S.; Singh, Ikbal and Dayal, Rameshwar, Role of Dairy and Poultry Enterprises for Increasing Income and Employment on Farms in the Union Territory of Delhi	4	112
Sharma, P. S. and Alagh, K. Yoginder, Growth of Crop Production : 1960-61 to 1978-79 —Is It Decelerating	2	104
Sidhu, Surjit S. and Baanante, Carlos A., Input Substitution and Agricultural Research	3	20
Sikka, B. K.; Dahiya, P. S. and Grewal, M. S., Impact and Performance of Antyodaya Programme in Himachal Pradesh	4	66
Singh, A. J. and Singh Raghbir, Rapporteurs' Report on Economics of Investment in Organization of Extension Services in Agriculture.	1	40
Singh, Baldev, Productivity and Resource Structure : A Case Study of Agricultural Development of Gujarat	3	34
Singh, Daroga, Data Base in Agriculture	2	119
Singh, I. J. and Rai, K. N., A Strategy for Agricultural Growth in the Dryland Farming Areas of Haryana	4	16

	No.	Page
Singh, Ikbai; Sirohi, A.S.; Sharma, B. M. and Dayal, Rameshwar, Role of Dairy and Poultry Enterprises for Increasing Income and Employment on Farms in the Union Territory of Delhi	4	112
Singh, Raghubir and Singh, A. J., Rapporteurs' Report on Economics of Investment in Organization of Extension Services in Agriculture	1	40
Singh, R. P. and Kumar, P., Dynamic Feed-Milk Relationship and Technological Change in Milk Production	4	126
Singh, Shivtar, Raut, K. C. and Rustagi, R. L., Comparative Economics of Rearing Cross-bred and Non-descript Calves under Village Conditions	4	139
Sinha, S. P. and Prasad, Jagdish, Special Programmes for Weaker Sections : An Evaluation (A Case Study of Programmes in Musahari Block, District Muzaffarpur, Bihar)	4	42
Sirohi, A. S.; Sharma, B. M.; Singh, Ikbai and Dayal, Rameshwar, Role of Dairy and Poultry Enterprises for Increasing Income and Employment on Farms in the Union Territory of Delhi	4	112
Subbarao, K., Institutional Credit, Uncertainty and Adoption of HYV Technology : A Comparison of East U. P. with West U.P.	1	69
Summaries of Papers on Long-term Prospects of Agricultural Growth Viewed in the Light of Soil-Climatic, Technological and Institutional Constraints, and Costs Involved in Their Removal	4	28
Summaries of Papers on Special Programmes for Weaker Sections as a Strategy for Improving Income Distribution	4	82
Summaries of Papers on Economics of Livestock Enterprise with Special Reference to Its Employment Potential	4	152
Vaidyanathan, A., Influence of Weather on Crop Yields : A Review of Agro-Meteorologists' Research	2	127
Vaidyanathan, A. and Mukherjee, Chandan, Growth and Fluctuations in Foodgrain Yields Per Hectare—A Statewise Analysis	2	60
Venkataramanan, L. S., Summaries of Group Discussion—Subject III—Price Spreads of Agricultural Commodities in Recent Years	1	49
Venkataramanan, L. S. and Prahladachar, M., Growth Rates and Cropping Pattern Changes in Agriculture in Six States : 1950 to 1975	2	71
Visaria, Pravin, Poverty and Unemployment in India	3	1
Yadav, Hanumant and Mishra, C. S., Impact of the Tribal Development Programmes on Employment, Income and Asset Formation in Bastar District of Madhya Pradesh	4	69

RESEARCH NOTES

Bhatnagar, D. S.; Mehla, R. K. and Dubey, V. K., Production Potential and Population Optimization of Cows in India	3	59
Indrakant, S. and Iyengar, N. Sreenivasa, Pattern of Asset Accumulation in Rural India	1	121
Kalirajan, K., Benefits from the High-Yielding Varieties Programme and Their Distribution in an Irrigated Paddy Area	3	70
Kaushal, A. K. and Pandey, U. K., Prospects of Increasing Farm Incomes on Small Farms of Ambala District (Haryana)	3	76
Ketkar, L. Suhas, The Long Run Impact of the Green Revolution on the Distribution of Rural Incomes in India	3	51
Mehla, R. K.; Bhatnagar, D. S. and Dubey, V. K., Production Potential and Population Optimization of Cows in India	3	59
Pal, Dipti Prakas, A Mathematical Model for the Price Elasticity of Marketed Surplus of a Food Crop : A Comment	3	85
Pandey, U. K. and Kaushal, A. K., Prospects of Increasing Farm Incomes on Small Farms of Ambala District (Haryana)	3	76
Pushpangadan, K., A Mathematical Model for the Price Elasticity of Marketed Surplus of a Food Crop : A Reply	3	86
Sagar, Vidya, Growth of Productivity in Indian Agriculture	1	129

Indian Journal of Agricultural Economics

**Errata to Vol. XXXV,
No. 2, April-June 1980**

Page No.	Para and line No.	Please read as
107	Para 3, Line 5 equation (i)	$t = \frac{b_1 - b_2}{\sqrt{[SE(b_1)]^2 + [SE(b_2)]^2}}$
144	Footnote	Research Analyst

No. 4, October-December 1980

Page No.	Para and line No.	Please read as	Page No.
Contents (iii)	Subject II—Special Programmes for Weaker Sections	S. P. Sinha and Jagdish Prasad	42
(iv)	" Summaries		82
"	" Rapporteur's Report		99
81	Line 5	$W = \frac{Y_{ij}}{N_{ij}}$	
151	Para 3, line 7	advantage	
"	" line 8	could	
"	" line 9	adoption	
"	" line 10	processes	
"	" line 11	nology	
"	" line 12	ties	
"	" line 13	enabling	

INDIAN JOURNAL OF AGRICULTURAL ECONOMICS



(Organ of the Indian Society of Agricultural Economics)

Vol. XXXVI

JANUARY—MARCH 1981

No. 1

CONTENTS

Page

SUPPLEMENT TO CONFERENCE NUMBER: OCTOBER-DECEMBER 1980

Presidential Address—

Imbalances in Agricultural Growth ...	<i>Daroga Singh</i>	
Summaries of Group Discussion:		
Subject I—Long-Term Prospects of Agricultural Growth Viewed in the Light of Soil-Climatic, Technologi- cal and Institutional Constraints, and Costs Involved in Their Removal ...	<i>V. Rajagopalan</i>	27
Subject II—Special Programmes for Weaker Sections as a Strategy for Improving Income Distribution ...	<i>S. M. Shah</i>	31
Subject III—Economics of Livestock Enterprise with special reference to Its Employment Potential ...	<i>R. K. Patel</i>	34

ARTICLES

Growth and Equity in India's Agricul- ture in Recent Years: An East Asian Perspective ...	<i>Hiromitsu Kaneda</i>	39
EEC Variable Import Levies and the Stability of International Grain Markets ...	<i>Peter Svedberg</i>	58
The Responsiveness of Agricultural Exports to Price in Jamaica: Evidence and Policy Implications ...	<i>John Gafar</i>	67

RESEARCH NOTES

Contribution of HYVs to Cereal Output, Yield and Area in Gujarat ...	<i>Ushaben Sharma</i>	79
---	-----------------------	----

Rs. 25.00

	Page
Enterprise Budgets of Dry Land Crops and Policy Implications ... <i>Mruthyunjaya</i>	82
Economic Impacts of Resource Use Optimization and Water Augmentation in Farms of Parambikulam Aliyar Project Region ... <i>S. Selvarajan and S. R. Subramanian</i>	89
Determinants of Sugarcane Acreage Fluctuations in Uttar Pradesh ... <i>Jagdish Lal and Katar Singh</i>	101
An Economic Evaluation of Land Allotment to the Landless Poor in Ahmednagar District of Western Maharashtra: A Case Study ... <i>J. M. Pardeshi and D. V. Kasar</i>	109
BOOK REVIEWS (See below)	119
REVIEWS IN BRIEF	154
PUBLICATIONS RECEIVED	159

BOOK REVIEWS

Basu, Asok	<i>Technological Possibilities of Indian Agriculture</i>	<i>P. K. Joshi</i>	119
Bhalla, G. S. and Alagh, Y. K.	<i>Performance of Indian Agriculture: A Districtwise Study</i>	<i>M. von Oppen</i>	121
Binswanger, Hans P.	<i>The Economics of Tractors in South Asia: An Analytical Review</i>	<i>S. S. Grewal</i>	124
Chaudhri, D. P.	<i>Education, Innovations, and Agricultural Development</i>	<i>V. N. Kothari</i>	126
Dasgupta, Biplab	<i>The New Agrarian Technology and India</i>	<i>Bandhudas Sen</i>	129
Desai, B. M. (Ed.)	<i>Intervention for Rural Development: Experiences of the Small Farmers' Development Agency</i>	<i>Harpal Singh</i>	131
Etienne, Gilbert	<i>Bangladesh: Development in Perspective</i>	<i>B. Sharada Rai</i>	134
Fennell, Rosemary	<i>The Commonwealth Agricultural Policy of the European Community—Its Institutional and Administrative Organisation</i>	<i>M. V. Nadkarni</i>	138

		Page
Ghai, Dharam; Lee, Eddy; Maeda, Justin and Radwan, Samir (Eds.)	<i>Overcoming Rural Underdevelopment</i>	140
Gupta, D. P.	<i>Agricultural Development in Haryana, 1952-53 to 1975-76</i>	143
Rastogi, P. N.	<i>Cybernetic Analysis of Indian Societal System: A Study of Its Course (1960-80), Crises and Conditions for Development</i>	145
Sanderson, Fred H. and Roy, Shyamal	<i>Food Trends and prospects in India</i>	147
Sharma, Miriam	<i>The Politics of Inequality: Competition and Control in an Indian Village</i>	149
Shinde, Suresh D.	<i>Agriculture in an Underdeveloped Region: A Geographical Survey</i>	150
Taneja, G. C.	<i>Sheep Husbandry in India</i>	152

* * *

EDITORIAL BOARD

Prof. M. L. Dantwala	... Chairman
Shri V. M. Jakhade	... Editor
Dr. R. K. Patel	} ... Members
Dr. V. M. Rao	
Dr. A. C. Sharma	
Dr. K. Subbarao	
Dr. Raghunandan Swarup	
Shri T. R. Sundaram	... Assistant Editor

The copyright and all rights of reproduction and translation of articles, book reviews and correspondence published in the INDIAN JOURNAL OF AGRICULTURAL ECONOMICS are reserved by the Society. Application for permission to translate or reproduce any material contained in it should be made to the Honorary Secretary, The Indian Society of Agricultural Economics, 46-48, Esplanade Mansions, Mahatma Gandhi Road, Fort, Bombay-400 023 (India).

Note :—Individual membership fee and Institutional Subscription to the *Indian Journal of Agricultural Economics* is Rs. 45.00 or £ 10.00 or \$20.00 and Rs. 90.00 or £ 15.00 or \$30.00 respectively and should be sent to the Hon. Secretary and Treasurer, The Indian Society of Agricultural Economics, Bombay.

DOCUMENTED INDEX OF ARTICLES RELATING TO AGRICULTURAL ECONOMICS

A documented index of 11,039 articles relating to Agricultural Economics published in Indian and foreign periodicals, covering the period 1951-70, classified according to the Dewey Decimal System and computer-printed is available for sale to Universities and research institutions at cost (Rs. 350 per set).

A similar index of articles has been computer-printed covering each of the years from 1971 to 1979. The indexes for 1978 and 1979 cover over 1,000 titles respectively and are computer-printed. The index is supplied at a subsidised cost of Rs. 25 per set for each of the years 1971-79 (excluding forwarding charges) to enable a larger number of research institutions and Universities to avail of this facility. This service is rendered on non-profit basis. Orders for the supply of these indexes may be placed with the Hon. Secretary, The Indian Society of Agricultural Economics, 46-48, Esplanade Mansions, Mahatma Gandhi Road, Bombay-400 023.

INDIAN JOURNAL OF AGRICULTURAL ECONOMICS—REPRINTS

Many back issues/volumes of the Indian Journal of Agricultural Economics are currently out of print. Enquiries have been received by the Society for the supply of the back volumes of the Journal. With a view to enabling the interested readers, agricultural universities, colleges and other research institutions to complete their holdings of the back issues/volumes of the Journal, the Society has entered into an agreement with the Researchco Reprints, Delhi whereby the Researchco Reprints has been given full rights of reprinting of all the issues of Volumes 1 to 29 of the Journal which are out of print now. The Researchco Reprints is presently preparing the reprints of the above-said volumes of the Journal. Kindly direct your orders and enquiries for back issues/volumes of the Journal (including reprints) to the Researchco Reprints, 1865 Trinagar, Delhi-110 035 (India).