



**AgEcon** SEARCH  
RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

*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](mailto: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.*

Vol XV  
No. 2

ISSN 0019-5014

APRIL-  
JUNE  
1960

# INDIAN JOURNAL OF AGRICULTURAL ECONOMICS



INDIAN SOCIETY OF  
AGRICULTURAL ECONOMICS,  
BOMBAY

## AGRICULTURAL SITUATION IN INDIA

A monthly journal presenting a factual and integrated picture of the agricultural and food situation in India against an appropriate background.

This journal, issued by the Directorate of Economics and Statistics, Union Ministry of Food and Agriculture, has as its regular features :

- \* A monthly news-letter surveying the latest developments in the field.
- \* Authoritative special articles on topics of current interest.
- \* Extensive information on events and trends in India and abroad.
- \* Reviews of production and prices of various commodities.
- \* A comprehensive statistical section.

Commanding a wide and influential readership in India and abroad, **Agricultural Situation in India** is an invaluable guide to students of agricultural economics, business executives and administrators.

Annual subscription.....Rs. 12.

Available from :

1. The Manager of Publications, Civil Lines, Delhi-8.
2. The Secretary to the High Commissioner for India "India House," Aldwych, LONDON, W.C.2.

## THE INDIAN ECONOMIC JOURNAL

The Quarterly Journal  
of  
The Indian Economic Association

R. Balakrishna

Edited by  
D. T. Lakdawala

P. R. Brahmananda

The Indian Economic Journal is a quarterly devoted to a scientific discussion of theoretical and applied economics with special reference to India. It is thus a forum for professional economists and others working in the same field and is intended to help in the development of correct economic thinking with particular reference to the problems of this country. The authors alone are responsible for the views expressed by them. The Association, as a scientific body, is not wedded to any economic or political ideology. It does not subscribe to any views nor does it pass resolutions on any economic issue.

The Journal is being published in the months of January, April, July, and October.

Communications should be addressed to the Editor, Indian Economic Journal, Department of Economics, University of Bombay, Bombay 1.

Annual Subscription	...	Rs. 15/- or £ 1-5 or \$ 4-00 inclusive of postage
Student's Subscription*	...	Rs. 10
Single Copy	...	Rs. 5/- or 7/6 d. or \$ 1-25

\* Bonafide University students can get copies of the Journal and the Conference Volume for a year for Rs. 10/-, provided they submit a certificate from the Head of their College or University Department that they are studying Economics during the year in question at that Institution.

## THE ECONOMIC WEEKLY

Special Number June 1960

*Pre-Conditions of Sustained Growth: A Symposium*

The Concept and Size of the Third Plan .....	A. K. Dasgupta
No Preordained Path .....	Ashok Mehta
Preconditions Are Non-Economic .....	Rajni Kothari

### THIRD FIVE-YEAR PLAN

The Problem of Linkage .....	Allocation of Investments in the Third Plan
Industrial Policy .....	The Perspective of the Third Plan
What's in a Figure? .....	Broad Outlines of the Third Plan
Planning at the State Level .....	
Premises for Planning .....	Bhabatosh Datta
Phasing a Development Plan .....	W. B. Reddaway
The Third Five-Year Plan and the Strategy of Indian Development.....	I. M. D. Little
Urban Problems in the Third Plan.....	Britton Harris
Commodity Taxation in the Third Plan .....	D. T. Lakdawala

### SPECIAL ARTICLES

The Indian Road to Equality .....	M. N. Srinivas
The Inequality of Indian Incomes .....	H. F. Lydall
Urban Politics in Bombay: The Meaning of Community .....	Henry C. Hart
The Kerala Elections—A Statistical Analysis .....	Ashok Mitra
Indian Democracy: What Gives It Stability .....	Sisir Gupta
Trade Policy and Structural Unemployment .....	Amartya Kumar Sen
Deficit Financing, Inflationary Pressures and Economic Development.....	V. V. Bhatt
Direct Foreign Investment and Economic Growth.....	Don Humphrey
The All-India Rural Credit Survey Viewed as a Scientific Enquiry.....	Daniel Thorner
The Culture of Poverty in Mexico City .....	Oscar Lewis
China's Pace of Economic Development .....	Solomon Adler

### THE ECONOMIC WEEKLY

Published every Saturday from 104, Apollo Street, Bombay—1.  
Annual Subscription: Rs. 24 or 40s. or \$6.

## ADVERTISEMENT TARIFF

FOR

### THE INDIAN JOURNAL OF AGRICULTURAL ECONOMICS (Quarterly)

Mechanical Data

Size of printed page:  $7\frac{3}{4}'' \times 5''$

No. of columns : One

Width of column : 5"

Average No. of pages per issue : about 300 for Conference Number ;  
about 100 to 120 for other numbers  
on fine quality printing paper.

### RATES

Rs. 100/- per full page

Rs. 60/- per half page

(For Special Positions extra which can be ascertained on application)

Membership Fee : Rs. 12 per annum. Annual Subscription :  
Rs. 12 inclusive of postage

Conference Number : Single copy : Rs. 6.50

Other issues : Single copy : Rs. 4.00

The Honorary Secretary

THE INDIAN SOCIETY OF AGRICULTURAL ECONOMICS,  
46-48, Esplanade Mansions,  
Mahatma Gandhi Road,  
Bombay 1.

## GUJARAT RESEARCH SOCIETY

### PUBLICATIONS OF THE GUJARAT RESEARCH SOCIETY

	Rs. nP.
<b>JOURNAL OF THE GUJARAT RESEARCH SOCIETY</b> (Published four times a year, January, April, July and October). Rs. 2.50 per copy, per annum ... ..	6.00
<b>ENGLISH-GUJARATI SCIENTIFIC GLOSSARY*</b> in Nagari Script, by P. G. Shah, pp. Liii + 197, 1949 ... ..	3.00
<b>VIGNAN VICHAR</b> (Gujarati) by P. G. Shah, pp. 256 ... ..	2.50
<b>RACE REALITIES IN CULTURAL GUJARAT</b> (with maps, 40 photographs, 13 charts, curves, etc.) by Dr. D. N. Majumdar ... ..	12.50
<b>SOCIAL AND ECONOMIC SURVEY OF MEHSANA DISTRICT</b> (Gujarati) ... ..	3.00
<b>GUJARATNU GRAMJIVAN</b> (Economic life in Gujarat Village) by Shri M. B. Nanavati ... ..	1.00
<b>BOTANY OF DANGS DISTRICT</b> by H. Santapau ... ..	5.00
<b>A REPORT ON INTELLIGENCE TESTING OF GUJARATI-SPEAKING CHILDREN</b> , by J. H. Trivedi and M. P. Vaidya ... ..	2.00
<b>THE BACKWARD CLASSES OF INDIA</b> , by P. G. Shah ... ..	1.00
<b>MAHA GUJARAT SERIES :</b>	
Statistical Abstract of Maha Gujarat ... ..	3.50
The Language of Maha Gujarat, by T. N. Dave ... ..	1.50
Geological Evolution of Maha Gujarat, by R. N. Sukheshwala ... ..	1.50
Birds of Gujarat, by Salim Ali ... ..	5.00
Race Elements in Maha Gujarat, by D. N. Majumdar ... ..	1.25
Linguistic Limits of Maha Gujarat ... ..	1.25
Plant Life of Maha Gujarat, by G. A. Kapadia ... ..	3.50
Animal Life of Maha Gujarat, by G. A. Kapadia ... ..	1.00
Meteorology of Maha Gujarat, by Lily B. Desai and B. N. Desai ... ..	3.00
<b>HEALTH PAMPHLETS AND REPORTS :</b>	
Diet in Health and Disease (No. 1 to 5, out of print) ... ..	0.50
Diet in Health and Disease (Gujarati) No. 6 ... ..	0.50
Diseases of the Digestive System, by Dr. H. I. Jhala and Dr. H. J. Mehta ... ..	1.00
Asthma—Its Origin and Prevention ... ..	1.00
Cancer, by Dr. H. R. Derasari ... ..	0.25
Old Age, by Dr. H. R. Derasari ... ..	0.50
Report of the Health Centre Maintained by the Society, by Dr. J. D. Pathak ... ..	1.50
Report on Health and Diet Survey of Middle Class Families in Khar 1948-51, by Dr. S. T. Kantawala ... ..	2.00

**Copies can be had from :**

- (1) **OFFICE OF THE SOCIETY**
- (2) **N. M. TRIPATHI & CO., Princess Street, Bombay-2, and**
- (3) **\*NAVJIVAN KARYALAYA, Ahmedabad 14.**

PUBLICATIONS sold at concession rates to Members of the Society at Half Price. (Membership Subscription Rs. 12/- per annum).

# THE INDIAN SOCIETY OF AGRICULTURAL ECONOMICS, BOMBAY.

## AIMS AND OBJECTS

To promote the investigation, study and improvement of the economic and social conditions of agriculture and rural life through :—

- (a) periodical conferences for the discussion of problems ;
- (b) the publication of papers, separately or collectively ; or in a periodical which may be issued under the auspices of the Society ;
- (c) co-operation with other institutions having similar objects, such as the International Conference of Agricultural Economists and the Indian Economic Association, etc.

## OFFICE-BEARERS FOR THE YEAR 1960

### *President :*

Prof. D. G. Karve

### *Vice-Presidents :*

Dr. B. K. Madan  
Dr. V. K. R. V. Rao  
Dr. S. R. Sen

### *Hon. Secretary and Treasurer :*

Dr. M. B. Desai

### *Hon. Joint Secretary :*

Dr. N. A. Mujumdar

### *Members of the Executive Committee :*

Dr. G. D. Agrawal	Dr. G. Parthasarathy
Prof. J. J. Anjaria	Shri Raje J. R. Deshmukh
Prof. H. S. Azariah	Prof. D. R. Gadgil
Dr. J. P. Bhattacharjee	Shri V. M. Jakhade
Shri H. M. Patel	

### *Members of the Research Programmes Committee :*

Prof. D. G. Karve (Ex-officio as President of the Society)  
Prof. M. L. Dantwala (Ex-officio as President-Elect for the Conference)

Shri Manilal B. Nanavati	Dr. V. K. R. V. Rao
Dr. B. K. Madan	Prof. C. N. Vakil
Prof. D. R. Gadgil	Shri H. M. Patel

Dr. M. B. Desai (Ex-officio as Hon. Secretary of the Society)  
Dr. N. A. Mujumdar (Ex-officio as Hon. Jt. Secretary of the Society)

## LIST OF CONTRIBUTORS

### AUTHORS

1. S. R. Sen : Joint Secretary, Planning Commission, Government of India, New Delhi.
2. Antti Maki : Professor of Agricultural Economics, Department of Agricultural Economics, University of Helsinki, Finland.
3. C. H. Shah : Lecturer in Agricultural Economics, Department of Economics, University of Bombay, Bombay.
4. B. Krishnarao : Reader, Ford Foundation Unit, Economics Department, University of Madras, Madras.
5. J. G. Revell : Statistician, New Zealand Dairy Board, Wellington, New Zealand.
6. A. I. Tulupnikov : Director, U.S.S.R. Research Institute for Agricultural Economics, Member of the Board of the U.S.S.R. Ministry for Agriculture, Moscow.
7. K. Govindan : Jr. Research Investigator, Agricultural Economics Research Centre, University of Madras, Madras.

### REVIEWERS

1. M. L. Dantwala : Director and Professor of Agricultural Economics, Department of Economics, University of Bombay, Bombay.
2. B. S. Bhir : Professor of Commerce and Economics, Sydenham College of Commerce & Economics, Bombay.
3. S. S. Madalgi : Research Officer, Rural Economics Division, Department of Research & Statistics, Reserve Bank of India, Bombay.
4. G. C. Mandal : Offg. Director, Agro-Economic Research Centre, Visva-Bharati, Santiniketan, West Bengal.
5. Mrs. Indira Anantharam Iyer : Research Fellow, Department of Economics, University of Bombay, Bombay.

## GUIDELINES FOR SUBMISSION OF PAPERS BY AUTHORS

1. **Subjects:** The objective of the *Journal* is to provide a forum for dissemination and exchange of findings of research on agricultural economics. Purely descriptive material is not appropriate for such a journal. Papers dealing with (i) new developments in research and methods of analysis, or (ii) which apply existing empirical research methods and techniques to new problems or situations, or (iii) which attempt to test new hypotheses/ theoretical formulations or modifications of existing theories or policies to explain economic phenomena especially in the Indian context, or (iv) papers based on research done by the authors bringing out new facts or data presented in an analytical frame will be preferred. Younger economists are advised to seek guidance from their seniors in the preparation of the paper for the *Journal*. A one-page statement indicating the author's own assessment of the importance and relevance of the findings reported in his paper in the context of recent researches would be welcome.

2. **Size of Paper :** In view of the exorbitant increase in the cost of printing, it has become necessary to restrict the length of the papers accepted for publication to 20 (double space) typed pages (of the size 8½-by-11 inches) including tables and appendices (with margins on all sides of at least 1½ inches). Papers exceeding this size limit will be returned to the authors. The authors may however send along with their papers such "supporting material" as may be of help to the referees in evaluating them. Abstracts not exceeding 100 words should be submitted in duplicate along with the paper.

3. **Copies :** Two copies of each paper should be submitted along with a processing fee of Rs. 15/- either by M.O. or crossed I.P.O. (\$ 4.00 or £ 2.50) drawn in the name of the Indian Society of Agricultural Economics, to meet partly the postage and other incidental charges.

4. **Author's identification :** To protect the anonymity of authors while referring the Papers for expert opinion on their merits, authors are advised to avoid disclosing their identity in the text and to attach a separate page showing the name(s) and affiliation(s) of the author(s) along with any footnotes containing bibliographical information or acknowledgements.

5. **Mathematical notations :** Only essential mathematical notations may be used; it is prohibitively costly to typeset such notations. All statistical formulae should be neatly typed.

6. **Figures-Charts and Tables :** Professional assistance should be availed of while presenting figures and charts. They should be drawn in black ink which can be easily reproduced by photographic process. Typescript is not suitable for reproduction. Roman numerals may be used for tables.

7. **Footnotes :** Footnotes should be numbered consecutively in plain arabic superscripts.

8. **References and citations :** Only cited works should be included in the reference list. Please follow the style of citations as in previous issues of this *Journal*.

9. **General :** While sending papers the authors should state that the material has not been published elsewhere or is not being published or being considered for publication elsewhere.

10. **Reprints :** Ten free reprints of the paper would be given to the author; additional reprints, if required, are supplied at cost which may be ascertained from the Editor.

---

*Printer :* Shri G.R. Shetty; Type-setting on Postscript laser printer at Indian School of Political Economy, Arhabodhi, Pune - 411 016; Place of printing : Mudra, 383 Narayan Peth, Pune - 411 030; *Publisher :* Shri G.R.Shetty; Place of Publication and Owners : The Indian Society of Agricultural Economics, 46-48, Esplanade Mansions, Mahatma Gandhi Road, Fort, Bombay-400 001.



*SOME OF THE  
PUBLICATIONS OF THE INDIAN SOCIETY OF  
AGRICULTURAL ECONOMICS*

1. INDIAN JOURNAL OF AGRICULTURAL ECONOMICS 1940-1964-SELECTED READINGS (1966)	25.00
2. EVALUATION OF LAND REFORMS (with special reference to the Western Region of India) by Prof. M.L. Dantwala and Dr. C.H. Shah (1971)	15.00
3. COMPARATIVE EXPERIENCE OF AGRICULTURAL DEVELOPMENT IN DEVELOPING COUNTRIES OF ASIA AND THE SOUTH-EAST SINCE WORLD WAR II (1972)	Cloth bound \$ 9.00, £ 3.60 Card bound 30.00
4. INDIAN AGRICULTURAL DEVELOPMENT SINCE INDEPENDENCE (1986)	135.00
5. AGRICULTURAL DEVELOPMENT IN INDIA: THE NEXT STAGE (1988)	190.00
6. AGRICULTURAL DEVELOPMENT POLICY: ADJUSTMENTS AND REORIENTATION (1990)	250.00

SEMINAR SERIES

7. No. IV. SEMINAR-CUM-WORKSHOP ON PROBLEMS OF FARM PRODUCTION PLANNING AND PROGRAMMING (1964)	10.00
8. No. VI. SEMINAR ON FARM PRODUCTION PLANNING AND PROGRAMMING (1965)	8.00
9. No. VIII. SEMINAR ON FOODGRAINS BUFFER STOCKS IN INDIA (1969)	12.00
10. No. XII. SEMINAR ON RURAL DEVELOPMENT FOR WEAKER SECTIONS (1974)	25.00
11. No. XIII. SEMINAR ON THE ROLE OF IRRIGATION IN THE DEVELOPMENT OF INDIA'S AGRICULTURE (1976)	30.00
12. No. XV. SEMINAR ON CROP INSURANCE (1983)	60.00
13. TECHNOLOGY OPTIONS AND ECONOMIC POLICY FOR DRYLAND AGRICULTURE: POTENTIAL AND CHALLENGE Edited by Dr. N.S. Jodha (1989)	250.00
14. LIVESTOCK ECONOMY OF INDIA (1989)	95.00

Nos. 4, 6 and 14 can be had from:  
OXFORD & IBH PUBLISHING CO. PVT. LTD.,  
66, JANPATH, NEW DELHI-110001.

No. 5 from:  
HIMALAYA PUBLISHING HOUSE,  
Ramdoot, Dr. Bhalerao Marg, Girgaon, Bombay-400 004.

No. 13 from:  
CONCEPT PUBLISHING COMPANY,  
A-15-16, Commercial Block,  
Mohan Garden,  
New Delhi-110 059.

The rest can be had from:  
THE INDIAN SOCIETY OF AGRICULTURAL ECONOMICS,  
46-48, Esplanade Mansions,  
Mahatma Gandhi Road, Fort, Bombay-400 001.