



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

*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 XXXI
No. 3

ISSN 0019-5014

CONFERENCE
NUMBER

JULY-
SEPTEMBER
1976

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 Economics Association, etc.

EDITORIAL BOARD

Prof. M. L. Dantwala	<i>Chairman</i>
Shri V. M. Jakhade	<i>Editor</i>
Dr. Gunvant M. Desai	} <i>Members</i>
Dr. D. S. Sidhu	
Dr. I. J. Singh	
Dr. A. S. Sirohi	
Dr. (Mrs.) R. Thamarajakshi	
Dr. L. S. Venkataramanan	
Shri T. R. Sundaram	<i>Assistant Editor</i>

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* with effect from 1st January, 1976 is Rs. 30.00 or £ 4.50 or \$ 10.75 and Rs. 45.00 or £ 6.75 or \$ 15.00 respectively and should be sent to the Hon. Secretary & Treasurer, The Indian Society of Agricultural Economics, Bombay.

INDIAN JOURNAL OF AGRICULTURAL ECONOMICS



(Organ of the Indian Society of Agricultural Economics)

Vol. XXXI

JULY—SEPTEMBER 1976

No. 3

CONFERENCE NUMBER

—:o:—

PAPERS READ

at the

THIRTY-SIXTH ANNUAL CONFERENCE

of the

INDIAN SOCIETY OF AGRICULTURAL ECONOMICS

Surat (Gujarat), November 17-19, 1976

SUBJECTS

1. CHANGES IN THE STRUCTURAL DISTRIBUTION OF LAND OWNERSHIP AND USE (SINCE INDEPENDENCE).
2. IMPACT OF INCREASE IN INPUT PRICES ON PROFITABILITY AND PRODUCTION.
3. ENERGY REQUIREMENTS OF DIFFERENT FARM SYSTEMS.

Rs. 15.00

**THE
INDIAN SOCIETY OF AGRICULTURAL ECONOMICS**

OFFICE-BEARERS FOR THE YEAR 1975-76

President

Prof. M. L. Dantwala

Vice-Presidents

Dr. G. Parthasarathy

Dr. Nilakantha Rath

Shri Ram Saran

Dr. C. H. Shah

Dr. V. S. Vyas

Hon. Secretary and Treasurer

Dr. (Mrs.) Tara Shukla

President-Elect for the 36th Annual Conference

Dr. B. S. Minhas

Executive Committee Members

Dr. B. V. Mehta

Shri D. S. Narkhede

Shri P. B. Parthasarathy

Dr. B. S. Rathore

Dr. K. Sain

Dr. S. L. Shah

Dr. A. C. Sharma

Dr. Harpal Singh

Dr. R. P. Singh

Dr. S. P. Sinha

Dr. Raghunandan Swarup

Dr. N. K. Thingalaya

CONTENTS

CHANGES IN THE STRUCTURAL DISTRIBUTION OF LAND OWNERSHIP AND USE (SINCE INDEPENDENCE)

	Page
1. S. K. SANYAL	1
2. HARPAL SINGH	10
3. A. S. SIROHI, G. S. RAM AND C. B. SINGH	14
4. S. K. SINHA	23
5. M. V. GEORGE AND P. T. JOSEPH	27
6. V. D. GALGALIKAR, N. A. GADRE AND C. K. JOSHI	32
7. AMARJIT SINGH AND A. S. KAHLON	36
8. RATAN GHOSH	40
SUMMARIES	47
RAPPORTEUR'S REPORT—C. H. HANUMANATHA RAO	56
 IMPACT OF INCREASE IN INPUT PRICES ON PROFITABILITY AND PRODUCTION 	
1. DAYANATHA JHA AND PRADUMAN KUMAR	63
2. N. S. P. REBELLO, G. S. CHANDRASHEKAR, H. G. SHANKARAMURTHY AND K. C. HIREMATH	71
3. D. K. MAROTHIA	81
4. D. S. NANDAL AND D. K. GROVER	86
5. S. S. GREWAL AND P. S. RANGI	94
6. R. I. SINGH, G. N. SINGH, R. K. SINGH AND V. PRASAD	100
7. D. SINGH AND B. B. P. S. GOEL	105
8. BHANUDEB BAGCHI AND K. SAIN	114
SUMMARIES	122
RAPPORTEUR'S REPORT—GUNVANT M. DESAI	138

ENERGY REQUIREMENTS OF DIFFERENT
FARM SYSTEMS

	Page
1. L. R. SINGH AND BRIJENDRA SINGH	157
2. A. J. SINGH AND S. S. MIGLANI	165
3. R. N. SENAPATI	173
4. AJAY K. SANGHI AND MELVIN G. BLASE	179
5. D. K. MISIIRA, R. N. PANDEY AND V. K. PANDEY	193
6. N. V. NAMBOODIRI AND K. PADMANABHAN	199
7. T. V. MOORTI AND K. K. VERMA	207
8. M. R. PATEL AND S. B. SINGH	211
9. S. BHAVANI	219
SUMMARIES	232
RAPPORTEUR'S REPORT—RAMESH BHATIA	250

P R E F A C E

This issue of the Journal contains the Papers selected for discussion at the 36th Session of the Annual Conference of the Society scheduled to be held under the auspices of South Gujarat University, Surat (Gujarat) from 17th to 19th November, 1976. The subjects selected for discussion at this Conference are :

1. Changes in the Structural Distribution of Land Ownership and Use (Since Independence).
2. Impact of Increase in Input Prices on Profitability and Production.
3. Energy Requirements of Different Farm Systems.

The issue also contains the Rapporteurs' Reports on each of these subjects. A very large number of Papers has been received on the third subject. The President-Elect of the Conference on the recommendation of the Rapporteurs has accepted 94 Papers for discussion at this Conference. Out of these, 25 Papers have been published in full in this issue along with the Summaries of the remaining 69 Papers. We regret that it has not been possible to print all the Papers owing to steep increase in the cost of printing. We do hope the contributors whose papers could not be published in full will appreciate our difficulty and kindly excuse us. We are grateful to the Rapporteurs for sending their Reports covering the important points contained in the papers as also for framing the issues for discussion.

20th October, 1976

M. L. DANTWALA

Chairman, Editorial Board

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).