

INDIAN SOCIETY OF AGRICULTURAL STATISTICS

FIFTH ANNUAL REPORT, 1951-52

THIS Report gives a brief review of the Society's activities for one year from 1st July 1951 to 30th June 1952.

MEMBERSHIP

There were 233 members at the end of the year as against 222 last year. They were classified as follows:

Honorary Members	4
Patrons	5
Life-Members	29
Ordinary Members	195

Names of additional members and subscribers enrolled during the year with their addresses are given at the end of the Report.

ACCOUNTS

The opening balance at the beginning of the year was Rs. 13,608-15-1. The total receipts and expenditure during the year were Rs. 8,828-14-10 and Rs. 5,935-12-5 respectively. The main item of expenditure during the year was the cost of printing the Journal amounting to Rs. 3,621-2-0. The year closed with a balance of Rs. 16,502-1-6 of which a sum of Rs. 2,826 which was realised on account of fees for the two Summer Sessions of lectures arranged by the Society during 1950 and 1951, has been kept apart for publication of the book on Sample Surveys.

The following donations received by the Society during the year are acknowledged gratefully:

	Rs.
Indian Council of Agricultural Research	1,381
National Institute of Sciences of India	500
Government of Uttar Pradesh	500
Government of Bombay	500
Reserve Bank of India, Bombay	1,000
Dorabji Tata Trust, Bombay	1,000

JOURNAL

Two issues of the Journal were brought out during the year. The Journal continued to be in demand from foreign countries. Some further requests were received for exchange of the Journal. The Council of the Society agreed to the request of the South Asia Science Co-operation Office of the UNESCO for the supply of the Journal free of cost.

OTHER ACTIVITIES.

(a) The Society has undertaken the publication of the book on Sample Surveys by Dr. P. V. Sukhatme, mainly arising out of the lectures delivered by him at the two Summer Sessions arranged by the Society during 1950 and 1951. This book under the title "Sampling Theory of Surveys with Applications" is already in press and is expected to be out in another 6 months. While the book is bound to make a wide appeal to statisticians both in India and abroad, the cost of the publication containing as it does extensive mathematics, is high and is estimated to be of the order of Rs. 15,000. This means a very considerable strain on the Society's financial resources. In this connection it is proposed to set up a separate publication fund for supporting the further programme of publications which the Society is planning to undertake.

(b) The Society has interested itself indirectly in the reactivation of the Biometric Society in India. This Society is an international organization, consisting of biological workers interested in statistics and statisticians for the promotion of the use of quantitative mathematics in various biological fields, such as agriculture, genetics, medicine, etc. The Indian group has been reconstituted recently with Dr. V. G. Panse, the Secretary of the Society, as its Secretary and the Society and this group have jointly planned to hold a symposium on "New Problems in Experimentation" at the time of the next annual meeting of the Society.

(c) The Fifth Annual Meeting of the Society was held at New Delhi on 11th, 12th, 13th and 14th December 1951. The meeting was attended by the members of the Society from all parts of the country and was inaugurated by Dr. Rajendra Prasad, President of India, who is also the President of the Society. Many foreign statisticians who had come to Delhi in connection with the International Statistical Conference, India, 1951, also participated in the proceedings of the Society. The delegates and visitors were welcomed by Shri K. M. Munshi, Minister for Food and Agriculture, Government of India. In addition to reading of technical papers, two symposia

were arranged during the meeting, one on "The Role of Complete Enumeration and Sampling in Agriculture" and the other on "A Statistical Appraisal of the Five-Year Plan for Agriculture". The first symposium was presided over by Shri R. A. Gopaldaswami, I.C.S., Special Secretary (Ministry of Home Affairs) and Registrar-General of India, and the second by Shri K. M. Munshi. Both discussions were of considerable topical interest and a number of speakers participated. Another notable feature of the annual meeting was a popular lecture by Dr. L. H. C. Tippett of the Shirley Institute, Manchester, U.K., on "Why is Statistics so Useful?" which was presided over by Shri K. R. Damle, I.C.S., Joint Vice-President of the Indian Council of Agricultural Research.

Details of the programme arranged on the occasion of the meeting together with the proceedings of the business meeting are reproduced below. The inaugural address delivered by Dr. Rajendra Prasad has been published in Vol. V, No. 1 of this Journal.

FIFTH MEETING OF THE SOCIETY

PROGRAMME

11th December 1951—

- 4 p.m. .. Meeting of the Executive Council.
Place: Room No. 7, Jamnagar House, Man Singh Road, New Delhi.
- 5 p.m. .. Business Meeting of the Society.
Place: Room No. 7, Jamnagar House, Man Singh Road, New Delhi.

12th December 1951—

- 6 p.m. .. Inaugural Address by Dr. Rajendra Prasad.
Place: Constitution Club, New Delhi.

13th December 1951—

- 11 a.m. .. Reading of Papers—I.
Place: Room No. 7, Jamnagar House, Man Singh Road, New Delhi.
Chairman: Prof. K. B. Madhava.
- 5-30 p.m. .. Symposium on "The Role of Complete Enumeration and Sampling in Agriculture".
Place: Room No. 62, Parliament House, New Delhi.

Chairman: Shri R. A. Gopaldaswami, I.C.S., Special Secretary (Ministry of Home Affairs) and Registrar-General of India.

Opening Speaker: Dr. P. V. Sukhatme.

Other Speakers: Dr. C. P. G. J. Smit, Dr. U. S. Nair, Dr. V. G. Panse, Dr. K. Kishen, and Shri R. S. Koshal.

14th December 1951—

11 a.m. . . . Reading of Papers—II.

Place: Room No. 7, Jamnagar House, Man Singh Road, New Delhi.

Chairman: Dr. U. S. Nair.

4-30 p.m. . . . Symposium on "A Statistical Appraisal of the Five-Year Plan for Agriculture".

Place: Room No. 62, Parliament House, New Delhi.

Chairman: Shri K. M. Munshi, Minister for Food and Agriculture.

Opening Speaker: Dr. V. K. R. V. Rao.

Other Speakers: Dr. S. R. Sen, Prof. J. N. Warner, Dr. R. J. Kalamkar, Shri M. P. Bhargava, and Shri D. Y. Lele.

READING OF PAPERS

The following papers were read:

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| V. G. Panse, V. R. Rao and K. S. Krishnan, I.C.A.R., New Delhi | "Trends in Crop Acreages, Yield and Land Utilisation in India." |
| K. Kishen, Department of Agriculture, U.P., Lucknow | "Improvement of Agricultural Statistics in Under-Developed Countries." |
| P. N. Mathur, I.C.A.R., New Delhi | "Estimation of Effective Number of Factors in Polygenic Systems." |
| D. Y. Lele, I.C.A.R., New Delhi | "Application of Random Sampling Methods to Estimation of Benefits under G.M.F. Campaign." |

- Y. S. Kapse and Mukhtar Singh, Institute of Plant Industry, Indore "Statistical Analysis of a Replicated Latin Square with Split Plots involving Missing Values."
- T. P. Abraham, Central Rice Research Institute, Cuttack "Some Sampling Observations with Uniformity Trial Data on Transplanted Paddy."
- D. Y. Lele and K. V. R. Sastry, I.C.A.R., New Delhi "On the Pilot Survey for the Estimation of Marine Fish Catch in the Malabar Coast."
- R. S. Koshal, F.A.O., Ceylon "Sample Survey for the Estimation of Rice in Ceylon."
- V. K. Mokashi, Institute of Plant Industry, Indore "A Note on Matched Samples for Estimation of Crop Acreages."
- K. S. Rao, Bombay University, Bombay "A Simple Method of deriving best Critical Regions similar to the Sample Space in Tests of an Important Class of Composite Hypotheses."
- P. V. Krishna Iyer, I.C.A.R., New Delhi "Distribution of Runs on a Lattice."
- U. S. Nair, Travancore University, Travancore "Application of the Index of Approximation to Sampling."
- G. R. Seth, I.C.A.R., New Delhi "Some Stratification Problems."
- P. V. Krishna Iyer and B. N. Singh, I.C.A.R., New Delhi "Use of Complex Markoff Chain for Test of Randomness."
- V. N. Murty, University of Bombay, Bombay "On a New Approach to the Analysis of Lattice Designs."
- K. S. Rao, Bombay University, Bombay "The Periodgram and its Significance."
- G. R. Seth, I.C.A.R., New Delhi "Development in Missing Plot Techniques."
- V. B. Sahasrabudhe, Institute of Plant Industry, Indore "Quantitative Estimation of Factors Affecting the Degree of Efficiency of Incomplete Block Designs."

PROCEEDINGS OF THE BUSINESS MEETING

The Fifth Annual General (Business) Meeting of the Indian Society of Agricultural Statistics was held on 11th December 1951, at Jamnagar House, New Delhi. The following were present:

Prof. J. N. Warner (*in chair*), Shri T. P. Abraham, Shri Chakravarti, Shri N. S. Choudhury, Shri B. N. Datar, Shri S. K. Ekambaram, Shri R. Giri, Shri J. Sharma Guleri, Shri R. J. Kalamkar, Shri K. Kishen, Shri D. R. Kohli, Shri R. S. Koshal, Shri D. N. Lal, Shri D. Y. Lele, Shri V. N. Murti, Shri U. S. Nair, Shri G. M. Panchang, Shri J. K. Pande, Shri V. G. Panse, Shri R. Patnaik, Shri V. N. Poornapregna, Shri R. Raghunathan, Shri C. R. Rao, Shri V. R. Rao, Shri K. S. Rao, Shri A. R. Roy, Shri P. S. Sahota, Shri K. V. R. Sastry, Shri P. N. Saxena, Shri G. R. Seth, Shri P. V. Sukhatme, Shri D. Singh, Shri A. A. Rau and Sreemati S. Vaswani.

Item No. 1

*Confirmation of the Proceedings of the Fourth Annual
General (Business) Meeting of the Society*

The proceedings of the Fourth Annual General (Business) Meeting held on the 14th November 1950 at New Delhi were read out and adopted.

Item No. 2

Secretary's Annual Report

The Secretary's Report for the year 1950-51 was read out and adopted.

Item No. 3

Election of Office-bearers

In accordance with the practice followed the nominations of the Executive Council for election of Office-bearers for the year 1951-52 were placed before the House. No additional nominations were made by members present and the nominations proposed by the Council were approved unanimously. As a result the following Office-bearers were elected for the year 1951-52:

President:

Dr. Rajendra Prasad.

Executive President:

Sardar Datar Singh.

Vice-Presidents:

Mr. M. S. Randhawa.
Prof. D. R. Gadgil.

Other Members of the Executive Council:

Mr. B. N. Datar.
Dr. R. J. Kalamkar.
Dr. K. Kishen.
Prof. D. D. Kosambi
Dr. K. R. Nair.
Dr. L. A. Ramdas.
Dr. S. R. Sen.
Dr. G. R. Seth.
Prof. J. N. Warner.

Honorary Secretary:

Dr. V. G. Panse.

Honorary Joint-Secretary:

Mr. A. R. Roy.

Honorary Treasurer:

Mr. V. R. Rao.

Editors:

Dr. P. V. Sukhatme.
Dr. V. G. Panse.

*Item No. 4**Fixing the Time and Venue of the Next Annual Meeting
of the Society*

The Secretary mentioned that no formal invitation had so far been received for holding the next annual general meeting of the Society and suggested that the matter may be left to be decided by the Executive Council. This was agreed to. Some members pointed out that the dates for the annual meeting should be so fixed that they would not clash with the dates fixed for the meetings of other scientific societies. The Secretary informed the House that as far as possible this aspect was given due consideration while fixing the dates of the annual meeting of the Society and assured the House that it would be borne in mind while fixing the dates for the next annual general meeting also.

Item No. 5

Any Other Business

A suggestion was made that instead of only two Editors, an Editorial Board should be appointed to conduct the publication of the Society's Journal. It was pointed out, however, that the question should be left to be considered by the Executive Council which had been charged with the responsibility in the matter of conducting the Journal according to the Society's Constitution.

The meeting ended with a vote of thanks to the Chair.

INDIAN SOCIETY OF AGRICULTURAL STATISTICS

List of Additional Members and Subscribers Enrolled during 1951-52

ORDINARY MEMBERS/SUBSCRIBERS

1. Shri J. S. Srivastava, Research Officer, Indian Council of Agricultural Research, New Delhi.
2. The Statistician and Agricultural Meteorologist, Office of the Director of Agriculture and Food Production, Bangalore.
3. The Assistant Secretary, Indian Central Cotton Committee, Bombay.
4. The Secretary, Indian Lac Cess Committee, Ranchi (Bihar).
5. Library Order and Exchange Unit, Food and Agriculture Organization of the United Nations, Rome (Italy).
6. The Librarian, United States Department of Agriculture Library, Washington 25, D.C. (U.S.A.).
7. Forsakringamatamatisk Institute, Norrtullagatan 16, Stockholm (Sweden).
8. Mr D. J. Thompson, Instructor, Statistical Laboratory, Iowa State College, Ames, Iowa (U.S.A.).
9. Mr. Alan Ross, Research Associate, Statistical Laboratory, Iowa State College, Ames, Iowa (U.S.A.).
10. Mr. Arthur Probsthain, 41, Great Russell Street, London, W.C. 1 (U.K.).
11. The Director, Cotton Research Institute, Sindos, Macedonia (Greece).

INDIAN SOCIETY OF AGRICULTURAL STATISTICS

Statement of Accounts for the year ending 30th June, 1952

RECEIPTS				EXPENDITURE			
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	
To Opening Balance—							
Fixed Deposit ..	3,090	0 0					By Payment to the Press ..
Bank Current Account ..	10,509	15 7					By Clerical and other remunerations ..
Cash in hand ..	8	15 6					By Fifth Annual General Meeting ..
			13,608	15 1			By Reception to Delegates attending the International Statistical Conference held in Delhi in December, 1951 ..
To Donations from—							By Payment to Dr. L. H. C. Tippet on account of travel from Delhi to Calcutta ..
1 Government of U.P. ..	500	0 0					By Stationery ..
2 National Inst. of Sciences ..	500	0 0					By Affiliation Fee to International Statistical Institute ..
3 Government of Bombay ..	1,000	0 0					By Postage and Revenue Stamps ..
4 Reserve Bank of India ..	1,000	0 0					By Railway Freight, etc. ..
5 I.C.A.R. ..	1,381	0 0					By Bank Commission ..
6 Sir Dorabji Tata Trust ..	1,000	0 0	5,381	0 0			By Balance*—
							Fixed Deposit ..
To Membership Fees—							Bank Current Account ..
1 Ordinary ..	1,425	14 0					Cash in Hand ..
2 Life ..	180	0 0	1,605	14 0			16,502
							1 6
To Balance due from Dr. Sukhatme on account of fees collected in connection with the First Summer Session on Sample Surveys at Poona in May 1950 ..	576	0 0					
To Fees for Second Summer Session on Sample Surveys held in May–June, 1951 ..	160	0 0	736	0 0			
To Cost of Journals and Reprints supplied ..			979	10 10			
To Bank Interest ..			46	6 0			
To Miscellaneous ..			80	0 0			
			22,437	13 11			
TOTAL ..							TOTAL ..
							22,437 13 11

*Balance includes Rs. 2,826, fund for the publication of Book on Sample Surveys by Dr. P. V. Sukhatme

(SD.) D. R. KOHLI,
Honorary Auditor,
23–2–1953.

(SD.) DAROGA SINGH,
Honorary Treasurer,
23–2–53.