

# INDIAN SOCIETY OF AGRICULTURAL STATISTICS

## FOURTH ANNUAL REPORT, 1950-51

THIS report gives a brief review of the Society's activities for the year ending 30th June 1951.

### MEMBERSHIP

There have been two notable additions to the membership of the Society: H. E. the Hon'ble Shri Jairamdas Daulatram, Governor of Assam and formerly Minister of Food and Agriculture, Government of India, and the Hon'ble Shri K. M. Munshi, Minister of Food and Agriculture, Government of India, were elected honorary members. At the close of the year there were 222 members as against 202 last year. They were classified as follows:

Honorary Members	..	..	..	..	4
Patrons	..	..	..	..	4
Life-Members	..	..	..	..	29
Ordinary Members	..	..	..	..	185

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. 12,038-15-0. The total receipts and expenditure during the year were Rs. 8,232-12-7 and Rs. 6,662-12-6 respectively. The following donations received during the year are acknowledged gratefully:

	Rs.	A.	P.
1. National Institute of Sciences of India	..	500	0 0
2. Government of Uttar Pradesh	..	500	0 0
3. Reserve Bank of India	..	1,000	0 0

A sum of Rs. 2,090 was also realised on account of the fees for the Summer Session of lectures on sample surveys arranged by the Society during the months of May-June, 1951. The main item of expenditure during the year was the cost of printing of the Journal amounting to Rs. 4,636. The year closed with a balance of Rs. 13,608-15-1.

### JOURNAL

Only one issue of the Journal (Vol. III, No. 1) could be brought out during the year. The Society has, however, planned to bring out

at least three issues during the next 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 only one of these, from the Polish journal *Studia i Prace staty styozne*.

#### OTHER ACTIVITIES

(a) The Society organised a Second Summer Session on sample surveys from 14th May to 14th June 1951 at the Jamnagar House, New Delhi. The course consisted of 30 lectures, 5 of which were delivered by Dr. V. G. Panse and the rest by Dr. P. V. Sukhatme. The Session was inaugurated by Sardar Datar Singh, Vice-President, Indian Council of Agricultural Research, and was attended by 72 statistical workers and students drawn from all parts of the country. Arrangements for their accommodation were made in the Commercial College Hostel.

The fee charged for attending the Session was Rs. 10-0-0 from Life-Members, Rs. 30-0-0 from Ordinary Members and Rs. 40-0-0 from others. A total of Rs. 2,090-0-0 was collected by way of fees, out of which Rs. 336-8-0 were spent towards preparation of cyclo-styled notes of lectures supplied free to the participants and other miscellaneous expenditure. The balance of Rs. 1,753-8-0 is proposed to be earmarked for the publication of a book on the theory of sample surveys on the basis of the lectures. It will be recalled that a sum of Rs. 685-0-0 was collected by way of fees during the first Summer Session and has been earmarked for the same purpose.

(b) The Society has been affiliated to the International Statistical Institute and will be represented by the Secretary, Dr. P. V. Sukhatme. The affiliation fee is 100 Swiss Dollars (nearly Rs. 110-0-0) annually.

The International Statistical Institute will be holding its 27th Annual Session in India and has invited the Society to participate in a symposium on "Systems of Agricultural Statistics".

(c) The Fourth Annual Meeting of the Society was held at New Delhi on 14th, 15th and 16th November 1950. The meeting was attended by members of the Society from all parts of the country. It was inaugurated on the 14th November by Dr. Rajendra Prasad, President of India, who is also the President of the Society. The delegates and visitors were welcomed by Sardar Datar Singh, Executive President of the Society, and addressed by Hon'ble 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 "Certain aspects of improvement of area

and yield statistics with special reference to pre-harvest forecasts of acreage and yield" and the other on "Methods of assessing the results of Grow More Food Measures". The first was presided over by Shri K. L. Punjabi, Secretary to the Government of India, Ministry of Food and Agriculture, and the second by Hon'ble Shri K. M. Munshi. Both discussions proved to be of topical interest and were participated by a number of speakers. Another notable feature of the annual meeting was a popular lecture by Dr. S. S. Bhatnagar on "Uses of Metals" which was presided over by Prof. N. G. Ranga.

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 Hon'ble Dr. Rajendra Prasad has already been published in Vol. IV, No. 1 of this Journal.

## FOURTH MEETING OF THE SOCIETY

## PROGRAMME

14th November 1950—

- 6 p.m. .. Opening Session.  
*Place:* Constitution Club, New Delhi.  
 Inaugural Address by Dr. Rajendra Prasad.
- 7-30 p.m. .. Business Meeting of the Society.

15th November 1950—

- 11 a.m. .. Reading of Papers—I.  
*Place:* P-Block, Room No. 217, New Delhi.  
*Chairman:* Dr. D. N. Lal, Patna University, Patna.
- 3 p.m. .. Symposium on "Certain Aspects of Improvement of Area and Yield Statistics".  
*Place:* Room No. 63, Parliament House, New Delhi.  
*Chairman:* Shri K. L. Punjabi, Secretary, Ministry of Agriculture, Government of India.  
*Opening Speaker:* Dr. P. V. Sukhatme.  
*Other Speakers:* Dr. V. G. Panse, Shri S. C. Choudhry and Shri Parsa Venkateswara Rao.

6 p.m. .. Popular Lecture on "Uses of Metals" by  
Dr. S. S. Bhatnagar, F.R.S., Director, Council  
of Scientific and Industrial Research, New  
Delhi.

*Place:* Exhibition Hall, Administrative Intelli-  
gence Room, Queensway, New Delhi.

*Chairman:* Prof. N. G. Ranga.

16th November 1950—

11 a.m. .. Reading of Papers—II.

*Place:* P-Block, Room No. 217, New Delhi.

*Chairman:* Dr. K. R. Nair, Statistician,  
Indian Forest Research Institute, Dehra Dun.

3 p.m. .. Reading of Papers—II (*continued*).

*Place:* P-Block, Room No. 217, New Delhi.

5–30 p.m. .. Symposium on "Assessment of the Results of  
Grow More Food Measures".

*Place:* Room No. 63, Parliament House, New  
Delhi.

*Chairman:* The Hon'ble Shri K. M. Munshi,  
Minister of Food and Agriculture, Govern-  
ment of India.

*Opening Speaker:* Shri W. R. Natu.

*Other Speakers:* Shri R. S. Koshal, Dr. R. J.  
Kalamkar, Dr. B. Natarajan, Shri D. Y.  
Lele.

#### READING OF PAPERS

The following papers were read:

- |                                                     |                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| R. S. Asthana, I.C.A.R., New<br>Delhi               | "The size of sub-sampling unit<br>in area estimation."                                                                |
| R. S. Asthana, I.C.A.R., New<br>Delhi               | "Use of ancillary information for<br>increasing the precision of the<br>yield estimation in sub-sampling<br>designs." |
| B. V. Sukhatme, I.C.A.R., New<br>Delhi              | "Application of non-parametric<br>methods to selection for<br>disease resistance in cotton."                          |
| V. G. Panse, Institute of Plant<br>Industry, Indore | "Results of the investigation for<br>improvement of yield forecasts<br>of cotton in Madhya Pradesh."                  |

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|----------------------------------------------------|------------------------------------------------------------------------------------------------|
| V. K. Mokashi, Institute of Plant Industry, Indore | "Further investigation on sampling for estimation of crop acreages."                           |
| P. V. Sukhatme and G. R. Seth, I.C.A.R., New Delhi | "Measurement of the biases in sample surveys."                                                 |
| G. R. Seth, I.C.A.R., New Delhi                    | "An exact method for analysis when more than one plot are missing."                            |
| D. N. Lal, Patna University, Patna                 | "On the test of hypothesis concerning two independent frequency distributions."                |
| P. V. Krishna Iyer, I.C.A.R., New Delhi            | "Further contributions to the theory of probability distribution of points on a line—Part II." |
| P. N. Saxena, I.A.R.I., New Delhi                  | "A simplified method of enumerating Latin squares by Macmahon's differential operators."       |
| V. N. Murty, University of Bombay, Bombay          | "A note on the skewness of $x$ in a bivariate normal population."                              |
| B. D. Tikkiwal, I.C.A.R., New Delhi                | "Estimation by successive sampling."                                                           |
| R. D. Narain, I.C.A.R., New Delhi                  | "On sampling without replacement with varying probabilities."                                  |

#### PROCEEDINGS OF THE BUSINESS MEETING

The Fourth Annual Business Meeting of the Indian Society of Agricultural Statistics was held at 7-30 P.M. on 14th November 1950, in the Constitution Club, New Delhi. The following were present:

Prof. J. N. Warner (*Chairman*), Dr. P. V. Sukhatme, Dr. V. G. Panse, Dr. R. J. Kalamkar, Dr. N. S. R. Sastry, Dr. K. Kishen, Dr. D. N. Nanda, Mr. V. R. Rao, Mr. P. B. Brahma, Dr. D. N. Lal, Mr. J. S. Sarma, Mr. D. Y. Lele, Mr. R. Raghunathan, Dr. A. V. Sukhatme, Dr. G. R. Seth, Dr. K. R. Nair, Mr. S. S. Iyer, Mr. M. P. Srivastava, Mr. P. R. Sen Gupta, Mr. G. R. Ayachit, Mr. V. D. Thawani, Dr. R. D. Narain, Mr. M. A. Telang, Mr. P. S. Sahota, Mr. Ram Gopal, Mr. S. S. Chiney, Mr. V. N. Amble, Mr. P. N. Saxena, Mr. P. N. Mathur, Mr. Darogá Singh, Mr. R. S. Asthana, Mr. M. C. Satyanarayana, Mr. D. R. Kohli.

*Item No. 1*

*Confirmation of the Proceedings of the Third Annual Business Meeting*

The proceedings of the Third Annual Business Meeting were read out and confirmed.

*Item No. 2*

*Secretary's Annual Report*

The Secretary's Report read in the Annual General Meeting was adopted. On enquiry from the Chair, the Secretary informed the House that the course of lecture on sample surveys delivered last summer in Poona would be ready for publication in the form of a book by May or June next.

Some members felt that it would be more in order if the business meeting is held before the inaugural function. After some discussion the proposal was accepted.

*Item No. 3*

*Election of Office-bearers*

The Secretary explained the recommendation of the Executive Council that the Editors of the Journal may be included as *ex-officio* members of the Executive Council. The House accordingly agreed to add the following sentence to the paragraph defining the constitution of the Executive Council in the Rules and Regulations of the Society:

"The Editors of the Journal shall be *ex-officio* members of the Council."

According to the practice followed in previous years, a panel of names recommended by the Executive Council for election as Office-bearers for the year 1950-51 was placed before the House. The only change as compared to last year suggested by the Council was that Mr. B. N. Datar of the Planning Commission be elected to the Executive Council in place of Dr. V. G. Panse who is already one of the Editors. Dr. N. S. R. Sastry and Dr. R. J. Kalamkar felt that as they were not able to attend many of the meetings of the Executive Council, it would be desirable if they were allowed to withdraw their names from the Executive Council. Names of Dr. K. R. Nair and Dr. G. R. Seth were thereupon proposed for election. The House finally elected the following Office-bearers:

*President:*

The Hon'ble Dr. Rajendra Prasad.

*Executive President:*

Sardar Datar Singh.

*Vice-Presidents:*

Prof. N. G. Ranga.

Mr. M. S. Randhawa, I.C.S.

Prof. D. R. Gadgil.

*Other Members of the Executive Council:*

Prof. D. D. Kosambi.

Shri W. R. Natu.

Shri B. N. Datar.

Dr. L. A. Ramdas.

Prof. J. N. Warner.

Dr. K. Kishen.

Shri R. S. Koshal.

Dr. K. R. Nair

Dr. G. R. Seth.

*Honorary Secretary:*

Dr. P. V. Sukhatme.

*Honorary Joint Secretary:*

Dr. R. D. Narain.

*Honorary Treasurer:*

Shri V. R. Rao.

*Editors:*

Dr. P. V. Sukhatme.

Dr. V. G. Panse.

*Item No. 4**Election of Honorary Members*

The Executive Council's recommendation that His Excellency Shri Jairamdas Daulatram and Hon'ble Shri K. M. Munshi be elected Honorary Members was unanimously adopted.

*Item No. 5**Consideration of the Proposal for Instituting the Office of the Technical President for the Annual Meetings*

After some discussion it was agreed that it would not be desirable at present to create any new office of a Technical President. Technical

addresses, if necessary, may be delivered on the occasion of the reading of technical papers.

*Item No. 6*

*Affiliation of the Society to the International Statistical Institute*

The Secretary explained that the proposal of affiliation arose out of a suggestion made by a senior member of the Society. All the leading Institutes and Societies in other countries are affiliated to the International Statistical Institute. It was particularly desirable to consider the proposal for affiliation during the present session because the International Statistical Institute would be holding its next annual session in India. The Secretary said that the Executive Council had accepted in principle the proposal and referred to the correspondence in this matter with the Director of International Statistical Institute. He pointed out that the affiliation would cost nearly Rs. 110 per annum to the Society. The House agreed to the proposal in principle and authorised the Secretary to take necessary action in the matter. It was, however, pointed out that the Secretary should ensure that the proposal is made only after ascertaining from the Director of the Institute that it would have a reasonable chance of being accepted by them.

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

**INDIAN SOCIETY OF AGRICULTURAL STATISTICS**

**List of Additional Members and Subscribers Enrolled during 1950-51**

**HONORARY MEMBERS**

1. His Excellency the Hon'ble Shri Jairamdas Daulatram, Governor of Assam.
2. The Hon'ble Shri K. M. Munshi, Minister of Food and Agriculture, Government of India.

**ORDINARY MEMBERS/SUBSCRIBERS**

1. Shri Charan Singh Grewal, Statistical Assistant, Indian Council of Agricultural Research, Jamnagar House, New Delhi.
2. Shri Mohinder Nath, Senior Computer, Indian Council of Agricultural Research, Jamnagar House, New Delhi.
3. Shri M. S. Pannun, Statistical Investigator, Indian Council of Agricultural Research, New Delhi.
4. Shri S. D. Bokil, Statistical Assistant, Indian Council of Agricultural Research, New Delhi.



5. Shri Ram Shankar Asthana, Statistician, Department of Agriculture, Government of Uttar Pradesh, Lucknow.
6. Dr. V. S. Huzurbazar, Sampling Expert, Bureau of Economics and Statistics, Government of Bombay, Yacht Club Premises, Apollo Pier, Bombay.
7. Shri S. P. Sinha, Officer on Special Duty, Incharge National Sample Survey, Ministry of Finance, Government of India, New Delhi.
8. Shri V. N. Poornapregna, Crop Statistician, Office of the Director of Statistics, Secunderabad, Hyderabad (Deccan).
9. Shri Parsa Venkateshwar Rao, Director of Statistics, Hyderabad Government, Hyderabad (Deccan).
10. Shri S. C. Sarma, Director of Statistics, Government of Assam, Shillong.
11. Shri Jagat Narain Kapur, Lecturer in Mathematics, Hindu College, Delhi.
12. Shri Raghunath Patnaik, Assistant, Department of Agriculture and Forestry, Orissa Secretariat, Cuttack.
13. The Director of Monetary Research, Reserve Bank of India, Department of Research and Statistics, Bombay.
14. The Director-General of Observatories, Indian Meteorological Department, Lodi Road, New Delhi.
15. The Director of Agriculture, Government of Hyderabad, Hyderabad (Deccan).
16. Dr. Stanley L. Isaacson, Iowa State College, Statistical Laboratory, Ames, Iowa, U.S.A.
17. Mr. Walter T. Federer, Cornell University, Agricultural Experiment Station, Ithaca, N.Y., U.S.A.
18. Connecticut Agricultural Experiment Station, General Library, 123, Huntington Street, New Haven, Connecticut, U.S.A.
19. The Director of Agricultural Education and Research, Private Bag 124, Pretoria, S. Africa.
20. Virginia Polytechnic Institute Library, Blacksburg, Virginia, U.S.A.
21. University of Oregon Library, Eugene, Oregon, U.S.A.
22. Bell Telephone Laboratories Inc. Library, Room No. 150, 463, West Street, New York 14, N.Y., U.S.A.
23. The Secretary to the Government of Pakistan, Ministry of Economic Affairs, Karachi.

# INDIAN SOCIETY OF AGRICULTURAL STATISTICS

*Statement of Receipts and Expenditure for the year ending 30th June 1951*

RECEIPTS			Rs.	A.	P.	EXPENDITURE			Rs.	A.	P.
To Opening Balance	..	..	12,038	15	0	By Part payment to Bangalore Press for printing Journals	..	..	4,636	4	6
„ Donations—						„ Second Summer Session on Sample Surveys	..	..	336	8	0
1. From National Institute of Sciences	..	..	500	0	0	„ Hostel dues paid to Commercial College Hostel for the Second Summer Session	..	..	202	8	0
2. From Government of Uttar Pradesh	..	..	500	0	0	„ Clerical and other remunerations	..	..	537	0	0
3. From Reserve Bank of India	..	..	1,000	0	0	„ Cost of an almirah	..	..	201	0	0
			2,000 0 0			„ Fourth Annual General Meeting	..	..	373	6	0
„ Membership Fees—						„ Loan to the peon for the purchase of a cycle	..	..	100	0	0
(i) Ordinary	..	..	1,505	3	6	„ Stationery	..	..	39	14	0
(ii) Life	..	..	1,029	0	0	„ Freight, etc.	..	..	37	7	0
			2,534 3 6			„ Postage and Revenue Stamps	..	..	170	10	0
„ Fees for the First Summer Session on Sample Surveys	..	..	40	0	0	„ Bank Commission	..	..	15	14	0
„ Fees for the Second Summer Session on Sample Surveys	..	..	2,090	0	0	„ Other Miscellaneous	..	..	12	5	0
„ Cost of Journals and Reprints supplied	..	..	1,265	7	1	„ Balance—					
„ Hostel dues collected from delegates for the Second Summer Session	..	..	202	8	0	Fixed Deposit	..	..	3,090	0	0
„ Bank Interest	..	..	45	10	0	Current Account in the Imperial Bank of India	..	..	10,509	15	7
„ Miscellaneous	..	..	55	0	0	Cash on hand	..	..	8	15	6
			TOTAL .. 20,271 11 7						13,608 15 1		
									TOTAL .. 20,271 11 0		

(Sd.) A. N. SANKARAN,  
Hony. Auditor,  
11th December 1951.

(Sd.) V. RAMACHANDRA RAO,  
Hony. Treasurer,  
11th December 1951.