

REVIEW OF THE ACTIVITIES OF THE INDIAN SOCIETY OF AGRICULTURAL STATISTICS, FOR THE YEAR 1982.

The Indian Society of Agricultural Statistics is a Scientific Body for promoting the study of and research in Statistical Theory and its application to agriculture, animal husbandry, agricultural economics and allied fields.

The society was inaugurated on the 3rd of January, 1947 and we had the good fortune to have the Hon'ble late Dr. Rajendra Prasad, the then Minister for Agriculture, Govt. of India as its first President. Eminent Statisticians Dr. P. V. Sukhatme and late Dr. V.G. Panse were instrumental in the founding of this Society and its development over the years. We are very happy that Dr. Sukhatme, who is the Executive President of the Society, is amongst us today to guide the deliberations of the Society's Conference.

The functions of the Society are to organise annually a Conference in different parts of the country where statisticians working in these fields can meet and exchange ideas and to publish a scientific Journal as well as other books and research bulletins. It also maintains a Research Unit to undertake research on specific problems of current interest in accordance with the guidance provided by a Research Direction Committee consisting of the following :

1. Dr. P.V. Sukhatme
2. Prof. P.K. Bose
3. Dr. K.C. Seal
4. Shri J.N. Tiwari
5. Shri H.L. Chawla
6. Shri S.C. Chaudhuri
7. Dr. Prem Narain

Two symposia on topics of current interest and depending on the venue of the Conference are organised during every Conference. During the last 3 and a half decades of its existence the Society has played a key role in promoting Agricultural Statistics as a Science.

The activities of the Society during the year under report were as follows:

The membership of the Society, which is drawn from all parts of India as well as from abroad, during the year was :

1. Permanent Institutional Members	15
2. Life Members	218
3. Institutional Members	29
4. Ordinary Members	154
5. Student Members	16

I am particularly happy to mention that 15 institutions have taken advantage of the unique offer of Permanent Institutional Membership made by the Society last year and I am sure that many more institutions will take advantage of this offer and become permanent members of the Society in future. The Statisticians/Agricultural Scientists working in the Institutions which are permanent members of the Society have the benefit of uninterrupted supply of its journal and participation in its other scientific activities regularly. In addition to regular members, the Society has a number of institutional subscribers to its Journal in India and abroad. The number of subscribers during the year was :

1. Indian	171
2. Foreign	71

Thus the total number of members and subscribers during the year was 674.

One of the important activities of the Society is the publication of its Journal. It is a matter of great satisfaction to note that with the publication of Volume 34, consisting of 3 issues, the Society has maintained its time schedule. The Hindi Supplement continues to be a special feature of the Journal. In addition to the publication of the summaries of articles in Hindi, the Society is receiving regular articles in Hindi also. The high standard of the Journal has been maintained due to sincere efforts of the Editorial Board and the Referees. The Society is thankful to them for their keen interest and devoted services. One important publication of the Society is the book 'Sampling Theory of Surveys with Applications' by P.V. Sukhatme and B.V. Sukhatme. This book is in great demand by the students and research workers. The copies of the second edition have been sold and a revised edition has been prepared and is in press. It will be made available shortly. Another important publication

'Statistical Methods in Animal Sciences' by Shri V.N. Amble was brought out a few years back. This book is extremely useful for the research workers in Animal Sciences. Only a few copies are available for sale. Some other adhoc publications of the Society are (i) 'Contributions in Statistics and Agricultural Sciences', a felicitation volume brought out on the occasion of the 60th birthday of late Dr. V.G. Panse, a founder member and Honorary Secretary of the Society, (ii) a symposia volume containing papers presented at the symposia on 'Measurement of Green Revolution' and 'Statistical Assessment of intensive cattle Development programme'. The publication activities of the Society have therefore been very satisfactory during the year.

The Research Unit of the Society continued its studies on growth rates of different crops with the objectives of highlighting the differences in these rates in different states. During the year such studies were taken up on pulses and oilseeds which are slow growth crops. Exponential growth rates in area, production and yield of crops were estimated for the period 1967-68 to 1978-79. Among the important gram growing states viz. Rajasthan, Uttar Pradesh, Madhya Pradesh and Haryana, while there was an increase in area as well as productivity in Rajasthan, there was a declining trend in area in Uttar Pradesh. However, on the whole the production of gram in India was stagnant. Most important Arhar or Tur growing states are Uttar Pradesh, Madhya Pradesh and Maharashtra. There was a declining trend in area and increasing trend in yield in Uttar Pradesh while in Maharashtra both area and productivity showed increasing trend. On the whole the growth rate in production was 0.65 per cent which is much less than the growth rate of population. Among the important groundnut growing states while there was very little improvement in area there was a fairly high increase in productivity in Gujarat leading to an increase of 4.40 per cent per annum in production. In Andhra Pradesh and Maharashtra while there was slight increase in productivity, the production declined marginally due to decline in the area. In Karnataka and Tamil Nadu both area and productivity slowly increased resulting in a little over 1.50 per cent increase in production per annum. On the whole the production of groundnut in India increased at the rate of 1.27 per cent per annum mainly due to increase in the productivity. In respect of Rape and Mustard which account for about one-fifth of the area as well as production of total edible oilseeds in the country, production is increasing at the rate of 0.73 per cent per annum, which being much below the growth rate of population, is leading to a situation

of recurrent scarcity of edible oil. Even this increase is mostly due to increase in area, there being no improvement in productivity. Amongst other oilseeds the production of sesamum is stagnant. Nigerseed and safflower are however showing somewhat encouraging trend in production the respective AGR's 2.59 and 8.62 per cent. In case of nigerseed the increase is due to increase in area whereas in safflower productivity is also showing an encouraging trend (AGR : 5.72 per cent). A study on sugar and sugarcane has also been taken up.

The problem of finance for scientific activities of the Society and printing of its Journal could be solved to a certain extent through grant-in-aid received from Central and State Governments and other organisations. The Society wishes to acknowledge gratefully the financial assistance received from the Government of India, Indian Council of Agricultural Research and Government of Maharashtra state during the year under report.

The Society continued to work in close collaboration with other scientific societies during the year. The Society continues to be a member of the International Statistical Institute as also of the Indian Association for Social Science Institutions. In view of extremely useful activities of the Society and its good standing among the scientific societies, the Secretary of the Society was invited to help in drafting the constitution of the Federation of Societies of Agricultural Societies (FAST) established last month. The Society has also been invited to co-sponsor the Second Conference of Indian Association for Social Science Institutions to be held in September-October, 1983.

The last (35th) Annual Conference of the Society was held from 28th to 30th December, 1981 at New Delhi under the auspices of Indian Agricultural Statistics Research Institute, Dr. Prem Narain, Director, of the Institute welcomed the delegates to the Conference and the Conference was inaugurated by Shri Rao Birendra Singh, Hon'ble Minister for Agriculture, Govt. of India, New Delhi. The President elect Dr. K. Kishen former Emeritus Scientist, Indian Council of Agricultural Research delivered the Technical Address on 'Experimental Design in Agricultural and Animal Husbandry research in India.' Two symposia, one on 'Alternative Sources of Energy-Measurement of Efficiency' and the other on 'Assessment of Impact of Drought and Flood' were organised during the Conference. Dr. P.V. Sukhatme presided over the first symposium and Dr. Pritam

Singh, Member (R and D) Central Water Commission presided over the second symposium. Dr. Rajendra Prasad Memorial Lecture on 'Vista for Continuous Surveys to Monitor Progress in rural welfare planning' was delivered by Prof. N.G. Ranga; Member of Parliament. The lecture was presided over by Dr. P.V. Sukhatme Executive President of the Society. There were two sessions for reading of contributed papers, one presided over by Prof. P.K. Bose Former Pro-Vice-Chancellor, Calcutta University and the other by Prof. J.N. Srivastava, Professor of Statistics, Colorado State University, U.S.A. The Society is grateful to all of them for sparing their valuable time and making the Conference a great success.

The Society continued to provide financial assistance to deserving research scholars to enable them to attend the Society's Conference for presenting their papers. During the last year such financial assistance was given to 6 persons.

The railway authorities, as in the past, gave travel concession to the members of the Society and delegates to the 35th Annual Conference to enable them so attend the Conference at New Delhi. The Society records its grateful thanks to the railway authorities.

The statement of audited accounts of the Society for the year ending 31st March, 1982 is enclosed. The audit has been carried out by a Professional auditor as usual.

The work of the Society during the year was made possible through the active help of the members of the Executive Council of the Society, the Editorial Board, and Research Direction Committee. The burden of the entire secretariat of the Society has been willingly borne by my colleagues, Shri S. D. Bokil, Dr. K. C. Raut and Dr. B.B.P.S. Goel, Joint Secretaries of the Society. In the end I have to thank the staff of the Society for their devoted work.

INDIAN SOCIETY OF AGRICULTURAL STATISTICS, PUSA, NEW DELHI
Balance Sheet as on 31st March, 1982

<i>Liabilities</i>	<i>Current year</i>	<i>Assets</i>	<i>Current year</i>
<i>General Reserve</i>		<i>Cash in Hand</i>	769.52
Balance as per last B/Sheet	15,4926.81	<i>State Bank of India, New Delhi</i>	
<i>Add : Excess of Income over Expenditure</i>	1,498.02	(Current Account)	188.81
	15,6424.83	(Savings Account)	18,076.00
 <i>Publication Fund</i>		 <i>Syndicate Bank (Pusa)-New Delhi</i>	
<i>Membership Fees Received in advance</i>	—	(Savings Bank)	31,863.87
for 1981-82	—	(Current Account)	100.57
1982-83	875.00		50,998.77
1983-84	50:00	 <i>Fixed Deposits</i>	
	925.00	State Bank of India, Parliament St.	1,01,915.44
 <i>Capital Reserve Fund</i>		Syndicate Bank, Pusa	40,000.00
(Life Membership Fee)			1,41,915.44
Balance as per last Bal/Sheet	22,437.00	 <i>Membership Fees</i>	
Additions during the year	16,123.00	Due for 1979-80	960.00
	38,560.00	<i>Less : Recovered</i>	120.00
 <i>Advance Subscription for Journal Vol. 34</i>		<i>Less : Written off</i>	840.00
	6,948.05	 <i>Add : Due for 1980-81</i>	2,484.00
		<i>Less : Recovered</i>	250.00
			2,234.00
		<i>Less : Written off</i>	2,084.00
			150.00

<i>Expenses Payable</i>			
Audit Fees	450.00	<i>Add : Outstanding 1981-82</i>	2,010.00
			2,160.00
		<i>Stock in Hand</i>	
		Journals	10,457.35
		Symposium	1.00
		Published Books	15,707.36
			26,165.71
		<i>Deficiency Account (Journal)</i>	
		Balance as per last B/Sheet	12,007.47
		<i>Add : Loss for the Current year</i>	939.65
			12,947.12
		<i>Less: Grant from I.C.A.R. for 1979-80</i>	1,500.00
		<i>Advance to 'Research Unit'</i>	11,447.12
			1,440.65
	2,34,127.69		2,34,127.69

Place : 64 Regal Buildings,
New Delhi-110 001
Dated : 22nd July, 1982

Subject to our report of even date
For C.S. Bhatnagar & Co.,
Sd/-
(C.S. BHATNAGAR)
Chartered Accountant

INDIAN SOCIETY OF AGRICULTURAL STATISTICS (RESEARCH UNIT)
Balance-Sheet as on 31st March, 1982

<i>Liabilities</i>	<i>Current year</i>	<i>Assets</i>	<i>Current year</i>
<i>General Reserve</i>		<i>Fixed Assets</i>	
Balance as per last B/Sheet	7,604.64	Balance as per last B/Sheet	[13,217.06
<i>Less : Deficiency for the year</i>	8,051.48	<i>Add : Additions during the year</i>	1,029.00
	<hr/>		<hr/>
Balance as per contra :	446.84		14,246.06
<i>Capital Reserve</i>		<i>Less : Sold during the year</i>	374.00
Additions during the year	11,061.75		<hr/>
			13,872.06
<i>Expenses Payable</i>		<i>Less : Depreciation/W/Off</i>	1,506.50
Audit Fees	450.00		<hr/>
<i>P.F.A c., (Shri Bhawani Dutt)</i>	2,425.45		12,365.56
<i>Less : Loan Against P.F.</i>	1,500.00	<i>Deposit with Post Office (P.F.A c.)</i>	925.45
	<hr/>	<i>Advance to staff (Sh. Bhawani Dutt)</i>	140.00
	925.45	Indian Society of Agricultural Statistics	—
<i>Indian Society of Agricultural Statistics</i>	1,440.65	<i>Deficiency A c</i>	446.84
	<hr/>	<i>As per contra</i>	<hr/>
	13,877.85		13,877.85
	<hr/>		<hr/>

INCOME AND EXPENDITURE ACCOUNT
For the Year Ending 31st March, 1982

<i>Particulars</i>	<i>Current Year</i>	<i>Particulars</i>	<i>Current Year</i>
To Establishment Charges	36,021.20	By Grant in Aid from Govt. of India, Ministry of Agriculture and Irrigation	4,0000
To General Charges	1,467.92	<i>Less</i> : Utilized for Capital Expenditure	1029
To Stationary and Printing	1,223.80		38,971.00
To Audit Fees	450.00		
To Employers Contribution to P.F.	161.00	By Sale of old Typewriter	1,626.00
To Telephone Expenses	1,104.20	By Deficiency for the year	8,051.48
To Travelling and Conveyance	240.75		
To Liveries to Staff	604.31		
To Postage	886.30		
To Entertainment	—		
To Printing of Research Unit Papers	1,532.50		
To Conference Expenses	3,450.00		
To Depreciation W/Off	1,506.50		
	48,648.48		48,648.48

Place : 64 Regal Building,
 New Delhi.
 Dated : 22nd July, 1982

For C.S. Bhatnagar and Co.
 Sd/-
 (C.S. BHATNAGAR)
 Chartered Accountant

INDIAN SOCIETY OF AGRICULTURAL STATISTICS (RESEARCH UNIT)

Receipt and Payment Account for the Year Ending 31st March, 1982

<i>Receipts</i>	<i>Amount</i>	<i>Payments</i>	<i>Amount</i>
By Grant in Aid received from the Govt. of India	40,000.00	<i>To Revenue Expenditure</i>	
By Indian Society of Agricultural Statistics	6,278.98	Salaries	36,021.20
		General charges	1,467.92
		Stationery and Printing	1,223.80
		Audit Fees	450.00
<i>By Recovery of Loan from Shri Bhawani Dutt (Peon)</i>		Telephone Expenses	1,104.20
Festival Advance	120.00	Travelling and Conveyance	240.75
		Liveries to Staff	604.31
		Postage	886.30
		Entertainment	—
By Sale of Old Typewriter	2,000.00	Printing of Research Unit papers	1,532.50

<i>To Capital Expenditure</i>		
Electric Calculator	456.50	
Fan	495.00	
Library Books	77.50	
	<u>1,029.00</u>	
To Employees contribution to P.F. deposited in P.O.		189.00
To Festival Advance to Shri Bhawani Dutt		200.00
To Conference Expenses		3,450.00
		<u>48,398.98</u>
	<u>48,398.98</u>	

Place : 64 Regal Buildings,

New Delhi-110 001

Date : 22nd July, 1982

Subject to our Report of even date
For C.S. Bhatnagar and Co

Sd/-

(C.S. BHATNAGAR)

Chartered Accountant

INDIAN SOCIETY OF AGRICULTURAL STATISTICS
Income and Expenditure Account For the Year Ending 31st March, 1982

<i>Particulars</i>	<i>Current year</i>	<i>Particulars</i>	<i>Current year</i>
To Salaries and Honorariums	4,750.00	By Ordinary Membership Fees	6,977.00
<i>Less : 3/4 transferred to</i>		By Interest on Savings Bank Account	1,129.92
Journal A/c.	<u>3,562.50</u>	By Interest on Fixed Deposits	9,490.20
	1,187.50	By Sale of Symposium Volume	36.00
<i>To other Expenses</i>		By Profit on Published Books	800.32
Postage	946.30		
Printing and Stationery	1,942.97		
Bank Charges	87.10		
Conveyance	266.60		
General Charges	394.50		
Audit Fees	450.00		
Entertainment	181.85		
	<u>4,269.32</u>		
<i>Less : 3/4 transferred to Journal A/c</i>	<u>3,201.99</u>		
	1,067.33		

To Expenses on Dr. Panse Memorial Lecture	1,340.50	
To Annual Conference Expenses	21,446.59	
Less : Received through Advertisements in Souvenir and Miscellaneous Receipts	<u>12,010.00</u>	
	9,436.59	
To Membership Fees for Indian Association of Social Science Institutions	200.00	
To Membership fee for 1979-80 w/off	840.00	
To Membership fee for 1980-81 w/off	2,084.00	
To Contribution to Dr. M.S. Swaminathan Felicitation Volume	—	
To Dr. Daroga Singh Felicitation A/c	779.50	
To Excess of Income over Expenditure	<u>1,498.02</u>	
	<u>18,433.44</u>	<u>18,433.44</u>

Place : 64 Regal Buildings
New Delhi-110 001.
Dated : 22nd July, 1982

Subject to our Report of even date
For C.S. Bhatnagar & Co.

Sd/-
(C.S. BHATNAGAR)
Chartered Accountant

Income and Expenditure A/c (Journal) for the Year Ending 31-3-1982

<i>Particulars</i>	<i>Current year</i>	<i>Particulars</i>	<i>Current year</i>
To Opening Stock	7,963.00	By Sales and Subscription of Current Volume (Vol. 33)	23,480.81
To Printing Charges (Vol. 33)	15,334.00	By Sale of Back Volumes	2,666.03
To Printing Charges of Re-prints	2,085.00	By Sale of Reprints	665.70
To Staff Salaries	3,562.50	By Closing Stock	10,457.35
To other Expenses	3,201.99	By net Loss Transferred to B/Sheet	939.65
To Postage Expenses	3,553.05		
To Printing & Cost of Envelopes	2,519.00		
	<u>38,218.54</u>		<u>38,218.54</u>

Place : 64, Regal Buildings,
New Delhi-110 001
Date : 22nd July, 1982

Subject to our Report of even date
For C.S. Bhatnagar and Co.
Sd/-
(C.S. BHATNAGAR)
Chartered Accountant