

Indian Society of Agricultural Statistics

REVIEW OF ACTIVITIES FOR THE YEAR 1999

The Indian Society of Agricultural Statistics, a scientific body, was founded on 3 January, 1947 for promoting and undertaking research in Statistics and for its application to Agriculture, Animal Husbandry, Fishery, Agricultural Economics and allied fields. The Society was fortunate to have Late Dr. Rajendra Prasad, the then Minister of Agriculture, Government of India and later President of India as its Founder President. He continued to guide the Society for sixteen years. The Society had also the privilege of having as its Presidents Shri S.K. Patil, Shri C. Subramanian, Shri Jagjivan Ram, Dr. M.S. Swaminathan, Dr. O.P. Gautam, Shri Buta Singh, Dr. N.S. Randhawa, Prof. P.V. Sukhatme and Prof. V.L. Chopra. They took keen interest in the activities of the Society and were a source of great inspiration. The Society has attained its present status due to the untiring efforts and guidance of its Presidents in the past and present and particularly of the eminent statisticians Late Prof. P.V. Sukhatme and Late Dr. V.G. Panse.

The Society organises annually a conference in different parts of the country. The invitations for organising such conferences are received from State Governments, universities and other research organisations. It provides a wider platform for exchange of ideas. During each annual conference, the Society organises one or two symposia keeping in view current national interest as well as problems of interest in the region where the conference is organised. The Society brings out a Journal, one volume consisting of three issues (April, August, December) per year, which serves as a media for disseminating research findings on Agricultural Statistics and allied fields. Ad-hoc publications and Bulletins are also brought out to help the research workers and students in the field of Agricultural Statistics. It has set up a Research Unit to undertake research on specific problems of current interest in accordance with the guidance provided by a Research Direction Committee. In order to perpetuate the memory of the Founder President Dr. Rajendra Prasad, a lecture is organised during the conference. The Society has organised 35 lectures so far and the memorial lecture being organised during this Conference would be 36th in the series. The Society had also been organising a lecture in memory of Dr. V.G. Panse, who was the guiding spirit behind the society and its activities. The Society has

so far organised 20 lectures in his honour. To perpetuate the memory of Prof. P.V. Sukhatme, the Society has instituted from the year 1998 an award called PROF. P.V. SUKHATME GOLD MEDAL AWARD which is given to well known active scientist who has made significant contribution in Agricultural Statistics and/or allied fields and has keen interest in the activities of the Society. The Society is also organizing Dr. D.N. Lal Memorial Lecture Award from the next year. The lecture would be arranged at Indian Agricultural Statistics Research Institute, New Delhi every year and an eminent scientist/research worker be invited to deliver the lecture.

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

Permanent Institutional Members	24
Life Members	478
Ordinary Members	6
Student Members	4

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

Indian	205
Foreign	13

Thus, the total number of members and subscribers during the year was 730.

One of the important activities of the Society, as mentioned earlier, is the publication of its Journal. It has brought out 52 volumes and has maintained its time schedule. The Hindi Supplement continues to be a special feature of the Journal. The high standard of the Journal has been maintained due to the sincere efforts of the Editorial Board and of the referees. The Society is thankful to them for their keen interest in its activities particularly in the publication of its Journal. With a view to promoting research in Statistics and thereby improving the standard of its Journal, the Society has introduced a scheme to award prizes for the best articles published in its Journal once in two years.

The Country is proud of eminent statisticians who contributed significantly to the cause of Agricultural Statistics in India and abroad. Due to their untiring efforts, Agricultural Statistics in the country stand on a fairly sound footing. The Society is honouring these eminent statisticians by conferring the SANKHYIKI BHUSHAN AWARD. For encouraging the young scientists

towards significant research in Agricultural Statistics, the Society has instituted an award ISAS YOUNG SCIENTIST AWARD in the field of Agricultural Statistics which is given to the deserving candidate.

The 3rd Revised Edition of the book, **Sampling Theory of Surveys with Applications** by P.V. Sukhatme, B.V. Sukhatme, Shashikala Sukhatme and C. Asok was brought out during 1984 and all the copies have been sold out. The book was reprinted during 1997. Another important publication **Statistical Methods in Animal Sciences** by V.N. Amble brought out by the Society is extremely useful for research workers in Animal Sciences. Two ad-hoc publications namely, **Contributions in Statistics and Agricultural Sciences and Impact of P.V. Sukhatme on Agricultural Statistics and Nutrition** were brought out by the Society. Prof. P.V. Sukhatme Memorial Volume has been brought out during 1998 by the Society as a part of its Journal, Volume 51, Nos. 2 & 3. These publications contain a number of invited articles from India and abroad.

The Research Unit of the Society was engaged in carrying out research relating to evaluation of socio-economic development of different states of the country. One of the main objectives of India's development programmes has been a progressive reduction in regional disparities in the pace of development. Although resource transfers are being executed to the backward regions through a number of instruments like subsidies and central assistance, it has been observed that the regional disparities in the level of development is not declining over time.

This year, a study was carried out to estimate the level of development at district level in the State of Tamil Nadu. The study utilises district level data in respect of 22 districts of the State for the year 1994-95 on forty two socio-economic indicators out of which twenty two indicators are directly concerned with agricultural development.

The level of development was estimated separately for agricultural, infrastructural service and socio-economic sectors. The district of Chengalpattu MGR was ranked first and the district of Pasumpon Muthuramalinga Thevar was ranked last in the level of socio-economic development. Eight districts mostly belonging to the northern and north-eastern parts of the State were found to be better developed. Six districts mostly coming from the southern part of the State were low developed. The remaining 8 districts were in the category of middle level of development with the tendency for making improvement. The statistical methodologies applied, detailed results and the conclusions emerging from the study will be presented separately.

The problem of finance for scientific activities, printing of the Journal and other ad-hoc publications could be solved to a certain extent through grant-in-aid received from the Ministry of Agriculture, Government of India and Indian Council of Agricultural Research. The Society wishes to acknowledge gratefully the financial assistance received from them during the year under report.

The Society is already having the facilities of PC, Laser Printer and Xerox Machine. These facilities have greatly improved the quality of material produced by the Society. E-Mail facility has also been procured in the Society. This year, a Fax Machine has been installed in the Society Office with the generous donation made by Prof. J.S. Rustagi, Vice President of the Society. I take this opportunity to thank him for his kind donation.

The Society continues to be a member of the International Statistical Institute and also of the Indian Association of Social Science Institutions.

The 52nd Annual Conference of the Society was held at Hyderabad from 17 to 19 December, 1998 as per the invitation received from the Vice Chancellor, Acharya N.G. Ranga Agricultural University, Rajendra Nagar Campus, Hyderabad. The Conference was inaugurated by Shri K. Vidyadhar Rao, Hon'ble Minister for Agriculture, Horticulture and Sugar, Government of Andhra Pradesh on 17 December, 1998 at Extension Education Institute, ANGRAU, Hyderabad. The Society is extremely grateful to him for inaugurating the Conference. Dr. P. Raghavulu, Dean of Agriculture, ANGRAU, Hyderabad welcomed the Chief Guest, other invitees and delegates. Prof. Bal BPS Goel, Secretary, Indian Society of Agricultural Statistics presented a report on the activities of the Society for the year 1998. Prof Prem Narain, Executive President of the Society highlighted the achievements of the Society and theme of the Conference. He also described in brief about the main features of Prof. P.V. Sukhatme Memorial Volume which was released by the Chief Guest during the Inaugural Function. Prof. I.V. Subba Rao, Vice Chancellor, ANGRAU, Hyderabad presented the Presidential Remarks. Dr. A.K. Srivastava, Principal Scientist & Head, Division of Sample Survey, Indian Agricultural Statistics Research Institute, New Delhi was presented **PROF. P.V. SUKHATME GOLD MEDAL AWARD** by the Chief Guest. Prof. Bal BPS Goel, Secretary of the Society read out citation. Dr. G. Nageswara Rao, Professor and University Head, Department of Statistics & Mathematics, ANGRAU, Hyderabad and Organising Secretary of the Conference gave the Vote of Thanks.

The Technical Address on **AGRICULTURAL SAMPLE SURVEYS IN INDIA—METHODOLOGICAL ISSUES** was delivered by Prof. Bal BPS Goel,

Sessional President after the Inaugural Function on 17 December, 1998. Prof. Prem Narain presided over the session.

The DR. RAJENDER PRASAD MEMORIAL LECTURE was delivered by Prof. R.B. Singh, Director, Indian Agricultural Research Institute, New Delhi. The topic of his lecture was TOWARDS AN EVERGREEN REVOLUTION : THE GENETIC PATH. It was presided over by Prof. M.V. Rao, Former Vice Chancellor, ANGRAU, Hyderabad. The DR. V.G. PANSE MEMORIAL LECTURE was delivered by Shri T.R. Puri, Former Chief Executive Officer, N.S.S.O., Govt. of India, New Delhi. The topic of his lecture was RURAL POVERTY. It was presided over by Shri V.R. Rao, Former Director General, Central Statistical Organisation, Govt. of India, New Delhi. Two symposia were organised on the occasion. The first symposium on STATISTICAL APPLICATIONS OF REMOTE SENSING IN AGRICULTURE was presided over by Dr. D.P. Rao, Director, National Remote Sensing Agency, Hyderabad. The convenors of the symposium were Dr. Randhir Singh, Principal Scientist, IASRI, New Delhi and Dr. J.S. Parihar, Director, FASAL, ISRO, Ahmedabad. The second symposium on ESTIMATION OF VARIANCE COMPONENTS AND ITS RELATED PROBLEMS was presided over by Dr. S.D. Sharma, Director, Indian Agricultural Statistics Research Institute, New Delhi and Dr. V.K. Bhatia, Senior Scientist, IASRI, New Delhi was the convenor of the symposium. A special lecture on A HEURISTIC ANALYSIS OF HIGHLY FRACTIONATED FACTORIAL EXPERIMENTS was delivered by Prof. D. Raghava Rao, Temple University, Philadelphia, USA. Prof. Prem Narain, Executive President of the Society presided over the lecture. The research work carried out by the Research Unit of the Society during the year 1998 on INTER-DISTRICT VARIATION OF DEVELOPMENT IN SOUTHERN REGION was presented by Shri S.C. Rai, Ex-Joint Secretary of the Society. It was presided over by Shri J.S. Sarma, Vice President of the Society. A note on CRITICAL APPRAISAL OF THE ACHIEVEMENTS OF I.S.A.S. DURING 50 YEARS (1947- 1996) was presented by Dr. K.C. Raut, a Member of the Executive Council of the Society. The session was presided over by Prof. Bal BPS Goel, Sessional President. A session was organised for presentation of recommendations of the symposia organised during the Conference. Dr. Padam Singh, Additional Director General, Indian Council of Medical Research, New Delhi presided over the session. Dr. Randhir Singh and Dr. V.K. Bhatia presented the recommendations emerging from the discussions in their symposium. The detailed summaries of the papers presented at the symposia as well as recommendations made were published in the Journal of the Society.

Four concurrent sessions were organised for presentation of contributed papers. These sessions were chaired by Dr. S.D. Sharma, Director, IASRI, New

Delhi, Dr. A.K. Srivastava, Principal Scientist, IASRI, New Delhi, Dr. Prajneshu, Principal Scientist, IASRI, New Delhi and Prof. G. Nageswara Rao, Head, Department of Statistics & Mathematics, ANGRAU, Hyderabad. As many as 38 technical papers were presented in these sessions. The abstracts of these papers have been published in the Society Journal, Volume 52, No. 1, April, 1999.

The Society has conveyed its grateful thanks to the Vice Chancellor, ANGRAU, Hyderabad for organising the last conference and also to the chairmen of various sessions as well as to those who spared their valuable time in making the Conference a great success at Hyderabad.

The Society provided financial assistance to deserving research workers and students to enable them to attend the Conference at Hyderabad for presenting their papers.

The railway authorities as in the past, gave travel concessions to the members of the Society and delegates to the 52nd Annual Conference to enable them to attend the Conference at Hyderabad. The Society records its grateful thanks to the railway authorities.

The accounts of the Society for the year ending 31 March, 1999 were audited by a professional auditor and will be presented at the General Body Meeting.

The work of the Society during the year was made possible through the advice and help of the members of the Executive Council of the Society, the Editorial Board and the Research Direction Committee. The burden of the entire secretariat of the Society has been willingly borne by my colleagues Dr. V.K. Bhatia, Dr. A.K. Srivastava, Shri R.S. Khatri, Dr. Shivtar Singh and Shri S.C. Rai. In the end, I wish to thank the staff of the Society for their devoted work.

S.D. SHARMA
Secretary, ISAS

INDIAN SOCIETY OF AGRICULTURAL STATISTICS
Library Avenue, Pusa, New Delhi
Balance Sheet as on 31st March, 1999

Previous Year	LIABILITIES	Current Year
4,00,000.00	Corpus Money	8,00,000.00
	GENERAL RESERVE	
750,082.39	Balance as per last balance sheet	750,082.39
	Less: Trf. to Corpus Fund	<u>400,000.00</u>
		350,082.39
	Add: Excess of Income over Expenditure	<u>23,728.00</u>
		373,810.39
	PUBLICATION RESERVE	
224,975.00	Balance as per last balance sheet	224,975.00
	Add : Sale of old volumes of Journal	27,732.00
	Add : Sale of Reprints	<u>1,000.00</u>
		253,707.00
	CAPITAL RESERVE (Life Membership fee)	
268,900.00	Balance as per last balance sheet	268,900.00
	Add : Additions during the year	<u>11,290.00</u>
		280,190.00
	ADVANCES	
38,164.00	Advance Subscription for Journal (Vol. 52)	32,167.00
	EXPENSES PAYABLE	
35,000.00	Printing Charges for Journal Vol. 50 (3)	...
3,500.00	Postage of Journal Vol. 50 (3)	...
1,000.00	Audit Fee	2,000.00
330.00	Royalty on Books	...
2,400.00	Establishment Charges	<u>1,700.00</u>
		3,700.00
<u>1,724,351.39</u>		<u>1,743,574.39</u>

Previous Year	ASSETS	Current Year
112,953.00	FIXED ASSETS (As per Schedule)	84,715.00
	CASH AND BANK BALANCES	
1,277.63	Cash in Hand	4,298.13
1,939.44	State Bank of India, Parliament Street S/B	2,026.44
32,542.98	Syndicate Bank, Pusa, New Delhi S/B	<u>145,436.98</u>
		151,761.55
	FIXED DEPOSITS	
237,744.00	State Bank of India, Parliament Street, New Delhi	237,744.00
744,518.00	Syndicate Bank, Pusa, New Delhi	550,783.00
33,000.00	With other companies (as per list)	21,000.00
64,922.00	Accrued Interest of Fixed Deposits	<u>50,190.00</u>
		959,717.00
	AMOUNT RECOVERABLE/RECEIVABLE	
22,500.00	Grant receivable from ICAR	28,750.00
10,000.00	Grant receivable from Min. of Agriculture	...
2,355.00	Tax deducted at source	3,403.00
1,000.00	Advance to Dr. Nageswar Rao for Annual Conference	<u>...</u>
		32,153.00
	STOCK IN HAND	
1.00	Journal (Token value)	1.00
1.00	Symposia Volume (Token value)	1.00
108,719.06	Published Books	<u>104,761.31</u>
		104,763.31
	DEFICIENCY A/C (JOURNAL)	
37,660.39	Balance as per last balance sheet	37,660.39
	Add : Deficit for the year	<u>22,970.50</u>
		60,630.89
	Less: Grant received for 1997-98	<u>45,000.00</u>
		15,630.89
	ADVANCE TO RESEARCH UNIT	
313,217.89	Balance as per last balance sheet	313,217.89
	Add: Addition during the year	<u>81,615.75</u>
		394,833.64
1,724,351.39		1,743,574.39

Place : New Delhi 110001
Dated: 10th Nov., 1999

As per our Report of even date
for C.S. Bhatnagar & Co., Chartered Accountants
Sd/-
(G.S. Bhatnagar)
Partner

INDIAN SOCIETY OF AGRICULTURAL STATISTICS
Library Avenue, Pusa, New Delhi
Income & Expenditure Account for the year ending 31st March, 1999

Previous Year	EXPENDITURE	Current Year
35,598.00	To Annual Conference	49,092.00
	Less: Grant for Conference	40,000.00
		9,092.00
1,542.00	To Salaries	1,992.00
8,982.25	To Postage & Telephone	6,971.50
997.60	To Printing & Stationery	846.75
174.00	To Bank Charges	226.50
1,000.00	To Audit Fee	2,000.00
11,306.00	To Young Scientist Award	...
12,510.00	To Sankhyiki Bhushan Award	...
5,936.25	To Executive Meeting Expenses	3,547.50
1,012.95	To General Expenses	594.00
...	To Subscription to ISI, Netherlands	10,107.00
...	To Computer Repair & Maintenance	2,330.00
...	To Printing of Symposia Proceedings	26,443.00
493.00	To Conveyance	534.00
2,211.00	To Photo Copy Machine Maintenance	2,259.00
360.00	To Golden Jubilee Conference Exp. (of last year)	...
37,651.00	To Depreciation on Assets	28,238.00
51,998.40	To Excess of Income over Exp. C/o to Gen. Res.	23,728.00
<u>171,772.45</u>		<u>1,18,909.25</u>
INCOME		
2,200.00	By Ordinary Membership Fee	1,330.00
3,070.00	By Sessional Membership Fee	420.00
15,000.00	By Grant from NABARD	...
...	By Student Membership Fee	110.00
1,000.00	By Institutional Membership Fee	...
29,120.00	By Donation (for Fax Machine)	...
79.00	By Interest on Saving Bank	1,860.00
1,11,464.50	By Interest on Fixed Deposits	87.00
6,645.95	By Surplus on Published Books	1,13,470.00
3,147.00	By Misc. Income	3,102.25
45.00	By Sale of Symposia Books	330.00
		60.00
<u>171,727.45</u>		<u>1,18,909.25</u>

Place : New Delhi 110001
Dated: 10th Nov., 1999

As per our Report of even date
for C.S. Bhatnagar & Co., Chartered Accountants
Sd/-
(G.S. Bhatnagar)
Partner

INDIAN SOCIETY OF AGRICULTURAL STATISTICS (Research Unit)
Library Avenue, Pusa, New Delhi

Income & Expenditure Account (Journal) for the year ending 31st March, 1999

Previous Year	EXPENDITURE	Current Year
1.00	To Opening Stock (Token Value)	1.00
85,143.00	To Printing Charges (Journal) Vol. 51	96,046.50
3,083.00	To Staff Salaries	3,983.00
1,995.25	To Printing & Stationery	1,693.50
10,783.50	To Postage Expenses	13,540.50
3,074.60	To Packing Material	798.00
104,080.35		1,16,053.50

Previous Year	INCOME	Current Year
87,572.00	By Sale & Subscription of Vol. 51	93,082.00
1.00	By Closing Stock	1.00
16,507.35	By Excess of Expenditure over Income	22,970.50
104,080.35		1,16,053.50

Place : New Delhi 110001
 Dated: 10th Nov., 1999

As per our Report of even date
 for C.S. Bhatnagar & Co., Chartered Accountants
 Sd/-
 (G.S. Bhatnagar)
 Partner

INDIAN SOCIETY OF AGRICULTURAL STATISTICS (Research Unit)
Library Avenue, Pusa, New Delhi
Balance Sheet as on 31st March, 1999

Previous Year	LIABILITIES		Current Year
	IND. SOC. OF AGRIL. STATISTICS		
313,217.89	Balance as per last B/sheet	313,217.89	3,94,833.64
	Add: Additions during the year	<u>81,615.75</u>	
	EXPENSES PAYABLE		
1,000.00	Audit Fee	1,000.00	
4,431.10	P.F. A/C of Sh. Bhiwani Dutt	4,663.10	
...	Establishment Charges Payable	<u>16,200.00</u>	21,863.10
318,648.99			4,16,696.74

Previous Year	ASSETS		Current Year
5,368.00	Fixed Assets (As per Schedule)		4,825.00
4,431.10	Deposit with Post Office (P.F. Account)		4,663.10
	DEFICIT ACCOUNT		
3,08,749.89	Balance as per last balance sheet	3,08,749.89	
	Add: Deficit for the year	<u>98,358.75</u>	4,07,108.64
	ADVANCES		
100.00	To Staff (Satish Kumar)		100.00
3,18,648.99			4,16,696.74

Place : New Delhi 110001
Dated: 10th Nov., 1999

As per our Report of even date
for C.S. Bhatnagar & Co., Chartered Accountants
Sd/-
(G.S. Bhatnagar)
Partner

INDIAN SOCIETY OF AGRICULTURAL STATISTICS (Research Unit)
Library Avenue, Pusa, New Delhi
Income & Expenditure Account for the year ending 31st March, 1999

Previous Year	EXPENDITURE	Current Year
84,990.00	To Establishment Expenses	1,34,900.00
720.00	To Printing & Stationery	846.75
1,000.00	To Audit Fee	1,000.00
987.00	To Travelling & Conveyance	1,069.00
159.00	To Repair and Maintenance	...
492.00	To Depreciation on Assets	543.00
361.00	To Assets W/off (Cycle)	...
88,709.00		1,38,358.75

Previous Year	INCOME	Current Year
40,000.00	By Grant in Aid from Govt. of India, Ministry of Agriculture, Deptt. of Agriculture & Cooperation	40,000.00
48,709.00	By Deficit for the year C/o to Balance Sheet	98,358.75
88,709.00		1,38,358.75

Place : New Delhi 110001
Dated: 10th Nov., 1999

As per our Report of even date
for C.S. Bhatnagar & Co., Chartered Accountants
Sd/-
(G.S. Bhatnagar)
Partner

INDIAN SOCIETY OF AGRICULTURAL STATISTICS (Research Unit)
Library Avenue, Pusa, New Delhi
Schedule of Fixed Assets as on 31st March, 1999

A. SOCIETY

Particulars	Opening Balance	Add. during year	Total (Rs.)	Depreciation Rate	Amount	Balance as on 31.3.1999
Computer	58,612.50	—	58,612.50	25%	14,653.00	43,959.50
Xerox Machine	54,340.50	—	54,340.50	25%	13,585.00	40,755.50
	<u>112,953.00</u>		<u>112,953.00</u>		<u>28,238.00</u>	<u>84,715.00</u>

B. RESEARCH UNIT

Particulars	Opening Balance	Add. during year	W/off	Total	Depreciation		Balance as on 31.3.1999
					Rate	Amount	
Furniture & Fixture	559.00	—	—	559.00	10%	56.00	503.00
Typewriter	284.00	—	—	284.00	25%	71.00	213.00
Calculator	25.00	—	—	25.00	25%	6.00	19.00
Lib. books	2,858.00	—	—	2,858.00	—	—	2,858.00
Elec. Calculator	68.00	—	—	68.00	25%	17.00	51.00
Room Cooler	252.00	—	—	252.00	25%	63.00	189.00
Fans	17.00	—	—	17.00	25%	4.00	13.00
Steel Almira	141.00	—	—	141.00	25%	35.00	106.00
Cycle	1,164.00			1,164.00	25%	291.00	873.00
	<u>5,368.00</u>			<u>5,368.00</u>		<u>543.00</u>	<u>4,825.00</u>

Place : New Delhi 110001
Dated: 10 Nov., 1999

As per our Report of even date
for C.S. Bhatnagar & Co., Chartered Accountants
Sd/-
(G.S. Bhatnagar)
Partner