

# INDIAN SOCIETY OF AGRICULTURAL STATISTICS

## Review of Activities for the Year 1997

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 Food and 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. Subramaniam, 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 33 lectures so far and the memorial lecture being organised during this Conference would be 34th 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 18 lectures in his honour.

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

Permanent Institutional Members	24
Life Members	463
Institutional Members	01
Ordinary Members	10
Student Members	05

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	198
Foreign	15

Thus, the total number of members and subscribers during the year was 716.

One of the important activities of the Society, as mentioned earlier, is the publication of its Journal. It has brought out 49 volumes till 1997 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 the activities of the Society 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 every year in the Annual Conference of the Society 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 is reprinted and expected to be out shortly. The second edition of this book by P.V. Sukhatme and B.V. Sukhatme also continues to be in demand and for enhancing the circulation of the book, it has been reprinted by a private publisher. 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. 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. Development is a process which improves the quality of life. Economic planning is undertaken for bringing out uniform regional development because 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 Karnataka. This is very much required since there has been a growing consensus about the need of district level planning in the country. The study utilises district level data for the year 1994-95 on thirty nine socio-economic indicators out of which twenty one indicators are directly concerned with agricultural development, four indicators depict the progress of industrial development and the rest fourteen indicators present the level of development for human resources and infrastructural service sector. The statistical methodologies applied and the conclusions emerging from the study are being presented separately. The study revealed that with respect to over all socio-economic development, the districts of Bangalore, Chitradurga, Kolar, Shimoga, Belgaum, Hassan, Mandya and Mysore were better developed as compared to the remaining districts of the State. The districts of Bangalore (Rural), Uttar Kannada, Bidar, Gulbarga and Kodagu were socio-economically less developed. The level of development in the rest of districts was of middle order but these districts were having the tendency to make improvement in the pattern of development. Wide disparities in the level of over all socio-economic development had been observed among different districts of the State.

The better developed districts cover about 36 per cent area and about 47 per cent population of the State. On the other hand, 22 per cent area and 16 per cent population come from the districts which are less developed. The overall socio-economic development in the State was positively associated with agricultural development. The growth and progress in the field of agriculture are influencing the overall socio-economic development in the positive direction. The infrastructural facilities have positive impact on socio-economic development. It was found that the less developed districts require improvement of various dimensions in different fields for enhancing the present level of development.

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

The year began with a tragedy which came in the form of sudden demise of Prof. P.V. Sukhatme on January 28, 1997 at Pune. He was so active that nobody could imagine about his untimely end. Everybody in the Society received this news with a great shock. For perpetuating his memory, the Society has decided to bring out a volume containing invited articles from eminent statisticians, scientists and research workers all over the world. The Society has also instituted an award called **DR. P.V. SUKHATME GOLD MEDAL AWARD** which will be conferred on outstanding and renowned scientists from the field of Statistics, Nutrition, Poverty, Yoga etc. A volume containing collection of work done by Prof. P.V. Sukhatme in the divergent areas of Statistics, Nutrition, Poverty, Yoga etc. will be brought out by the Society. Apart from this, the Society has also requested the Indian Council of Agricultural Research to create a position in the name of Prof. P.V. Sukhatme called **Dr. P.V. SUKHATME NATIONAL PROFESSOR OF AGRICULTURAL STATISTICS**. A special volume of the Society's Journal will be brought out in the memory of Prof. Sukhatme.

The 50th Annual Conference of the Society was held at New Delhi from 19 to 21 December, 1996 as per invitation received from the Indian Agricultural Statistics Research Institute. The Conference was inaugurated by the Hon'ble President of India, Dr. Shanker Dayal Sharma. The Society is extremely grateful to him for inaugurating the Conference. Prof. Bal BPS Goel, Director, Indian

Agricultural Statistics Research Institute and Secretary, Indian Society of Agricultural Statistics welcomed the Chief Guest, other invitees and delegates. He also presented the report of the activities of the Society for the year 1996. Dr. R.S. Paroda, Director General, Indian Council of Agricultural Research, Secretary, Department of Agricultural Research and Education, Ministry of Agriculture, Government of India and President, Indian Society of Agricultural Statistics addressed the participants. Hon'ble Union Minister of Agriculture, Shri Chaturanan Mishra released special volume of the Journal and Souvenir brought out on the occasion of the Golden Jubilee and gave the Presidential Remarks. Prof. Bal BPS Goel, Secretary of the Society announced the name of eminent scientist Dr. G.R. Seth who was selected for Sankhyiki Bhushan Award. Prof. J.N.K. Rao, Sessional President read out the Citation and Hon'ble President of India presented the award to Dr. Seth. Dr. R.K. Pandey, Head, Division of Statistical Economics, IASRI gave the Vote of Thanks. The Technical Address on SOME CURRENT TOPICS IN SAMPLE SURVEY THEORY was delivered by Prof. J.N.K. Rao. Dr. R.S. Paroda, President of the Society presided over the lecture.

The DR. RAJENDRA PRASAD MEMORIAL LECTURE was delivered by Prof. Y.K. Alagh, Hon'ble Minister of State for Planning & Programme Implementation and Science & Technology, Government of India. The topic of his lecture was AGRICULTURE IN THE NINTH PLAN. It was presided over by Prof. Tarlok Singh, Indian Association of Social Science Institutions, Institute of Manpower Research, Indraprastha Estate, New Delhi. The DR. V. G. PANSE MEMORIAL LECTURE was delivered by Dr. G.R. Seth, Former Director, IASRI, New Delhi. The topic of his lecture was VALIDITY AND RELIABILITY OF STATISTICAL PROCEDURES. Prof. S.R. Hashim, Member, Planning Commission, Government of India, New Delhi presided over the memorial lecture. Two symposia which were sponsored by the National Academy of Agricultural Sciences, New Delhi were organised on the occasion. The first symposium on ECONOMIC REFORMS IN AGRICULTURAL SECTOR—A STATISTICAL ASSESSMENT was presided over by Dr. G.S. Ram, Economic & Statistical Adviser, Directorate of Economics & Statistics, Ministry of Agriculture, Government of India, New Delhi. The convenors of the symposium were Dr. R.K. Pandey, Head, Division of Statistical Economics, IASRI, New Delhi and Dr. T. Haque, National Fellow, NCAP, New Delhi. The second symposium on COMPUTER INTENSIVE TECHNIQUES IN AGRICULTURAL RESEARCH was presided over by Prof. J.N.K. Rao, Sessional President. Prof. Prem Narain, Emeritus Scientist, IARI and Shri M. Moni, Technical Director, National Informatics Centre, Planning Commission, Government of India, New Delhi were the convenors of the symposium. The

Society is thankful to NAAS for sponsoring these symposia. The research work carried out by the Research Unit of Society during the year 1996 on DYNAMICS OF SOCIO ECONOMIC DEVELOPMENT IN MAHARASHTRA was presented by Shri S.C. Rai, Ex-Joint Secretary of the Society. It was presided over by Prof. J.N.K. Rao, Sessional President. The detailed summaries and full papers presented at the symposia as well as recommendations made are being published in a separate volume.

The concurrent sessions were organised for presentation of contributed papers. These sessions were chaired by Prof. G.K. Shukla, IIT, Kanpur; Prof. Pranesh Kumar, University of Transkei, South Africa; Prof. K.C. George, Kerala Agricultural University, Thrissur; Dr. Padam Singh, Institute for Research in Medical Statistics (ICMR), New Delhi; Prof. Kuldeep Kumar, Bond University, Brisbane, Australia and Dr. S.K. Agarwal, Kuwait University, Kuwait. As many as 77 technical papers were presented in these sessions. The abstracts of these papers have been published in the Society Journal, Volume 48, No. 3, December, 1996. Two special lectures were organised during the Conference. The first lecture on GISTNIC PUBLIC DATA BASE SERVICE OF NICNET was delivered by Dr. C.S.R. Prabhu, Technical Director, GISTNIC, National Informatics Centre, Hyderabad. The second lecture on EFFICIENT ALGORITHMS TO PROVIDE COMPUTER READY-MADES TO FACILITATE AGRICULTURAL EXPERIMENTATION AND RESEARCH was delivered by Dr. M.N. Das, Former Director, IASRI, New Delhi. The Society is thankful to them for delivering the lectures.

The Society has conveyed its grateful thanks to the Director, Indian Agricultural Statistics Research Institute, New Delhi for organising the last Conference and also to the chairpersons of various sessions as well as to those who spared their valuable time in making the Conference a great success at New Delhi.

A special session for presentation of papers considered for Young Scientist Award was organised at IASRI, New Delhi on July 1, 1997. Dr. K.C. Seal, Prof. Prem Narain, Dr. Padam Singh and Dr. A.K. Srivastava acted as judges to evaluate the quality of presentation of papers. The Society is thankful to the panel of judges for grading the papers and subsequently at the time of presentation.

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

The railway authorities as in the past, gave travel concessions to the members of the Society and delegates to the 50th Annual Conference to enable them to attend the Conference at New Delhi. The Society records its grateful thanks to the railway authorities.

The accounts of the Society for the year ending 31 March, 1997 were audited by a professional auditor appointed by the Society and these are being 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. P.R. Sreenath, Dr. V.K. Bhatia, Dr. A.K. Srivastava, Dr. Shivtar Singh and Shri S.C. Rai. In the end I wish to thank the staff of the Society for their devoted work.

BAL BPS GOEL  
*Secretary, ISAS*

**INDIAN SOCIETY OF AGRICULTURAL STATISTICS, Library Avenue, Pusa, New Delhi**  
*Balance Sheet as on 31st March, 1997*

Previous Year	LIABILITIES	Current Year	Previous Year	ASSETS	Current Year
4,00,000.00	CORPUS MONEY	400,000.00	—	Fixed Assets (As per Schedule)	
	GENERAL RESERVE			CASH & BANK BALANCES	7,230.03
652,905.81	Balance as per last B/sheet	652,905.81	611.41	Cash in Hand	
	Add: Excess of Income over Expenditure	45,178.18	635.66	State Bank of India, Parliament Street C/A No. 50/65113	
50,000.00	PUBLICATION RESERVE	50,000.00	1,171.78	State Bank of India, Parliament Street, SB A/c No. 60/14808	1,860.44
	CAPITAL RESERVE (Life Membership Fees)		1,260.37	Syndicate Bank, Pusa, C/A No. 216	
154,760.00	Balance as per last balance sheet	154,760.00	22,585.84	Syndicate Bank, Pusa, SB A/c 7793	78,192.98
	Add : Addition during the year	77,425.00	60,600.00	Cheques in Hand	87,283.45
	Add : Institutional Membership Fee	15,000.00	176,774.50	FIXED DEPOSITS	
	LOANS & ADVANCES	247,185.00	596,004.00	State Bank of India, Parliament Street	176,774.50
18,226.00	Advance Subscription of Journal	28,041.00	26,000.00	Syndicate Bank, Pusa, New Delhi	512,259.00
1,160.00	Advance Membership Fee	—	126,228.45	With Other Companies (As per list)	26,000.00
4,000.00	Advance Advertisement in Souvenir	—		Accrued Interest on Fixed Deposits	165,724.00
	EXPENSES PAYABLE	28,041.00			880,757.50
—	Printing charges for Journal Vol 48(3)	30,352.00			



1,000.00	Audit Fees	1,000.00	
210.00	Royalty on Books	330.00	
2,400.00	Establishment Charges	2,400.00	37,582.00
<b>AMOUNT RECOVERABLE/RECEIVABLE</b>			
10,000.00	Grant receivable from ICAR	22,500.00	
—	Grant receivable from Ministry of Agriculture	10,000.00	
2,335.00	Tax Deducted at Source	2,335.00	34,855.00
<b>STOCK IN HAND</b>			
1.00	Journal (Token Value)	1.00	
1.00	Symposium (Token Value)	1.00	
24,939.87	Published Books	22,305.11	22,307.11
<b>DEFICIENCY ACCOUNT (Journal)</b>			
7,246.19	Balance as per last B/sheet	7,246.19	
	Add : Deficit for the year	103,906.85	
		111,153.04	
<b>Less : Grant from ICAR</b>			
	(1) for 1994-95	30,000.00	
	(2) for 1996-97	60,000.00	
		90,000.00	21,153.04
<b>ADVANCE TO RESEARCH UNIT</b>			
228,246.74	Balance as per last B/sheet	228,246.74	
	Add: Advance during the year	35,685.15	263,931.89
<b>1,284,661.81</b>		<b>1,284,661.81</b>	<b>1,460,891.99</b>

**INDIAN SOCIETY OF AGRICULTURAL STATISTICS, Library Avenue, Pusa, New Delhi**  
*Income & Expenditure Account for the year ending 31st March, 1997*

EXPENDITURE		Current Year	INCOME		Current Year
Previous Year			Previous Year		
40,601.08	To Annual Conference	106,081.57	5,255.00	By Ordinary Membership Fee	3,800.00
1,160.00	To Salaries	1,650.00	—	By Admission Fee	210.00
7,698.48	To Postage & Telephone	12,711.55	—	By Foreign Membership Fee	1,712.00
2,338.70	To Printing & Stationery	1,369.80	—	By Student Membership Fee	200.00
657.00	To Bank Charges	311.00	—	By Institutional Membership Fee	400.00
1,000.00	To Audit Fee	1,000.00	4,350.00	By Sessional Membership Fee	5,170.00
668.10	To Young Scientist Award	1,002.31	40,000.00	By Grant in aid from ICAR for Annual Conference	—
—	To Sankhyiki Bhushan Award	1,540.25	—	By Grant for Annual Conference from National Academy of Agricultural Sciences (NAAS)	75,000.00
5,518.10	To Executive Meeting Expenses	9,139.25	—	By Contribution from Syndicate Bank for Annual Conference	5,000.00
473.85	To Miscellaneous Expenses	1,250.65	—	By Registration Fees	47,300.00
8,295.00	To Subscription to ISI	7,846.00	1,505.00	By Interest on Savings Bank Deposits	53.00
—	To Travelling Expenses	6,714.00	93,979.80	By Interest on Fixed Deposits	81,310.55
—	To Printing of Souvenir	13,200.00			
—	To Depreciation on Assets	50,201.60			

Previous Year	EXPENDITURE	Current Year	Previous Year	INCOME	Current Year
80,257.75	To Excess of Income over Expenditure		3,386.26	By Profit on Published Books	5,893.24
	C/o to General Reserve	45,178.18	10.00	By Sale of Symposium Books	45.00
			—	By Advertisement in Souvenir	29,690.00
			—	By sale of Waste Paper	2,650.00
			182.00	By Miscellaneous Income	762.37
<b>148,668.06</b>		<b>259,196.16</b>	<b>148,668.06</b>		<b>259,196.16</b>

**INDIAN SOCIETY OF AGRICULTURAL STATISTICS, Library Avenue, Pusa, New Delhi**

*Income & Expenditure Account (Journal) for the year ending 31st March 1997*

Previous Year	EXPENDITURE	Current Year	Previous Year	INCOME	Current Year
1.00	To Opening Stock (Token Value)	1.00	46,283.00	By Sale & Subscription of Vol. 48 & 49	46,283.00
63,190.00	To Printing Charges (Journal)	172,467.00	6,586.00	By Sale of Back Volumes	6,586.00
2,315.00	To Staff Salaries	3,300.00	—	By Sale of Reprints	17,016.00
2,172.10	To Printing & Stationery	3,750.35	1.00	By Closing Stock	1.00
9,519.50	To Postage Expenses	16,970.50	24,327.60	By Excess of Expenditure over Income	103,906.85
<b>77,197.60</b>		<b>196,488.85</b>	<b>77,197.60</b>		<b>196,488.85</b>

**INDIAN SOCIETY OF AGRICULTURAL STATISTICS, Library Avenue, Pusa, New Delhi**  
**(Research Unit)**  
*Balance Sheet as on 31st March, 1997*

Previous Year	LIABILITIES	Current Year
228,246.74	Balance as per last B/sheet	228,246.74
	Add: Addition during the year	35,685.15
	<b>EXPENSES PAYABLE</b>	<b>263,931.89</b>
1,000.00	Audit Fee	1,000.00
3,981.15	P.F. A/C of Sh. Bhawani Dutt	4,200.10
2,875.00	Salary Payable	—
<b>236,102.89</b>		<b>269,131.99</b>

  

Previous Year	ASSETS	Current Year
5,428.00	Fixed Asset (as per schedule)	4,891.00
3,981.15	Deposit with Post Office (P.F. A/C)	4,200.10
	<b>DEFICIT ACCOUNT</b>	
226,333.74	Balance as per last B/sheet	226,333.74
	Add: Deficit for the year	33,707.15
	<b>ADVANCES</b>	<b>260,040.89</b>
360.00	To Staff (Satish Kumar)	—
<b>236,102.89</b>		<b>269,131.89</b>

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

*Income & Expenditure Account for the year ending 31st March 1997*

Previous Year	EXPENDITURE	Current Year
48,457.00	To Establishment Expenses	48,457.00
4,677.50	To Printing & Stationery	4,677.50
1,000.00	To Audit Fee	1,000.00
3,552.50	To Travelling & Conveyance	3,552.50
727.25	To Repair and Maintenance	3,532.60
705.00	To Depreciation of Assets	537.00
<b>59,119.25</b>		<b>73,707.15</b>

Previous Year	INCOME	Current Year
40,000.00	By Grant in Aid from Govt. of India, Ministry of Agriculture, Deptt. of Agril. & Coop.	40,000.00
19,119.25	By Deficit for the year	33,707.15
	C/o to Balance Sheet	
<b>59,119.25</b>		<b>73,707.15</b>

Place : 64, Regal Building,  
Connaught Circus,  
New Delhi 110001

Dated: 23 Sept., 1997

Subject to 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

## Schedule of Fixed Assets as on 31st March, 1997

A. SOCIETY					
Particulars	Purchase Value	Rate	Depreciation	Balance as on 31.3.1997	
Computer	104,200.00	25%	26,050.00	78,150.00	
Xerox Machine	96,605.60	25%	24,151.60	72,454.00	
	<b>200,805.60</b>		<b>50,201.60</b>	<b>150,604.00</b>	
B. RESEARCH UNIT					
Particulars	Opening Balance	Rate	Depreciation	Balance as on 31.3.1997	
Furniture & Fixture	690.00	10%	69.00	621.00	
Typewriter	505.00	25%	126.00	379.00	
Calculator	45.00	25%	11.00	34.00	
Library Books	2,858.00	—	—	2,858.00	
Electronic Calculator	121.00	25%	30.00	91.00	
Room Cooler	448.00	25%	112.00	336.00	
Fans	30.00	25%	7.00	23.00	
Steel Almirah	250.00	25%	62.00	188.00	
Cycle	481.00	25%	120.00	361.00	
	<b>5,428.00</b>		<b>537.00</b>	<b>4,891.00</b>	