



GOVERNMENT OF KERALA

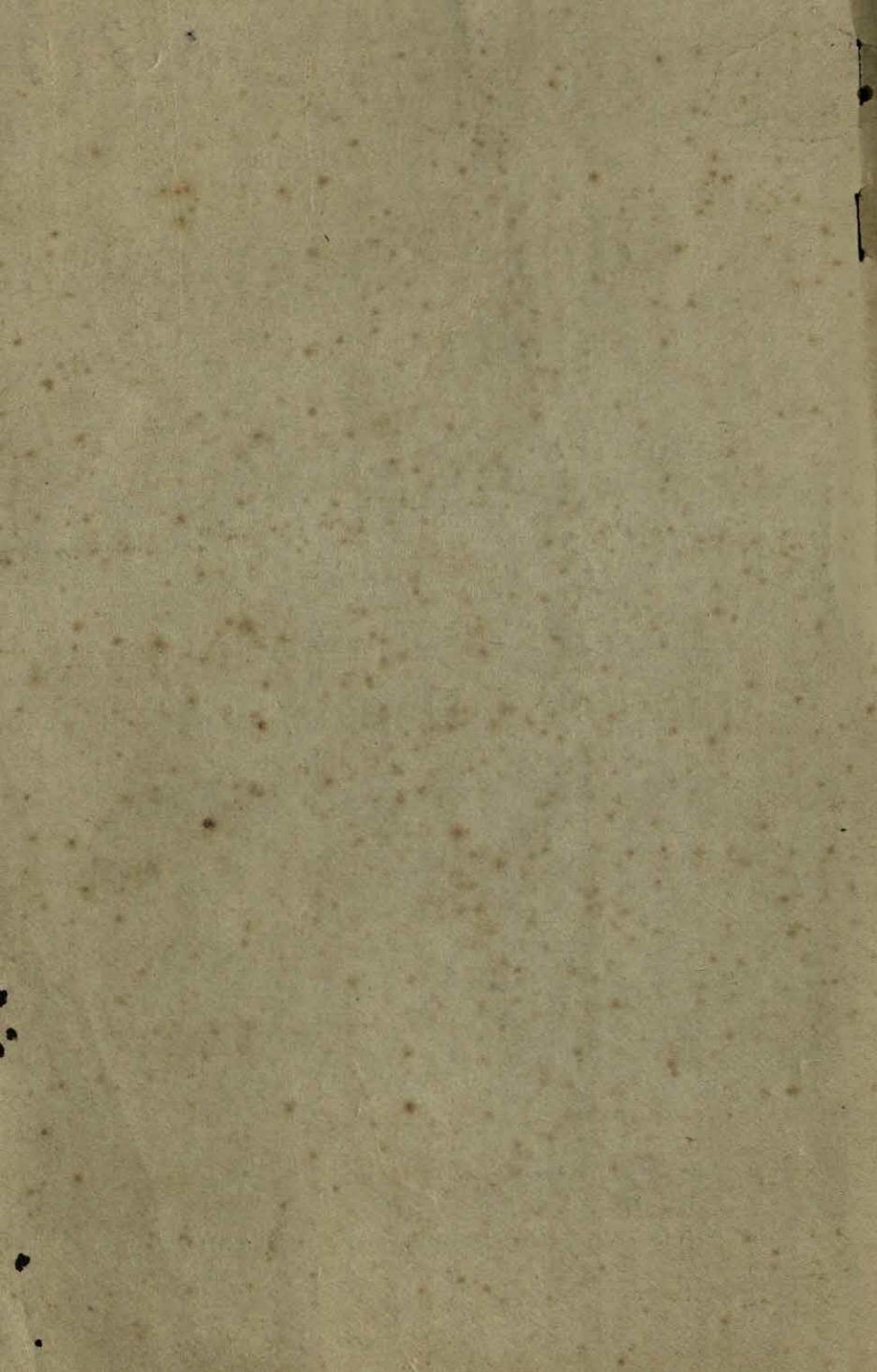
3937

administration report

for the year 1973-74

**Bureau of Economics and
Statistics Department**

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1975



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**BUREAU OF ECONOMICS AND
STATISTICS DEPARTMENT**

The Government of Kerala

1974

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Administration report

for the year 1973-74

BUREAU OF ECONOMICS AND
STATISTICS DEPARTMENT



The Government of Kerala
1975



PLANNING AND ECONOMIC AFFAIRS (C) DEPARTMENT

G.O.Rt. 189/75/ Plg., dated, Trivandrum, 31st May 1975

Abstract.—Bureau of Economics and Statistics—Administration Report for 1973-74—Reviewed.

Read.—Letter No. PA1-24355/74/ESD., dated 6th May 1975 from the Director, Bureau of Economics and Statistics.

ORDER

1. Recorded.
2. Sri N. Gopalakrishnan Nair continued to be the Director of Bureau of Economics and Statistics during the year under report.
3. The Bureau of Economics and Statistics continued to function as the central agency for the systematic collection, compilation, analysis and objective interpretation of all statistics relating to the State besides functioning as an advisory body on economic issues referred to it.
4. During the year the Agricultural Statistics Division of the Bureau of Economics and Statistics continued to conduct land utilisation surveys in order to frame the estimates of area under different land uses and area under different crops in the State.
5. Sample surveys in respect of rubber, coffee and tea estates for the improvement of plantation statistics were also continued. During the period the division undertook crop cutting surveys on winter and summer crops of paddy 1974 and tapioca 1973-74 and published the report on the crop cutting survey on the annual crop of paddy 1973. As usual, pre-harvest estimates on area under and yield rates of pepper, sugarcane, groundnut and paddy were collected and furnished to the State and Central Governments.
6. During the year the agricultural statistics tables for the agricultural year 1972-73 have also been prepared and published. Daily rainfall data were recorded in 89 centres and the daily rainfall statement for the year 1972 was sent to the Deputy Director General of

Observatories, Poona. Forecast reports on area and production of important seasonal crops continued to be prepared and furnished to the Government of India. The unit also published statistics of gross produce per hectare of nine crops specified in rule 41 of the K.L.R. (Tenancy) Rules, 1970, for the year 1973-74 and prepared and sent for printing the season and crop report for 1971-72. The preparation of National Index of Field Experiments was continued as also the cashew and pepper surveys. A new scheme for the conduct of assessment surveys on high yielding varieties programme was also initiated.

7. The Prices Division continued to collect statistics of prices. Weekly retail prices of 40 articles were collected from 22 centres for computing the State series of Consumer Price Index Nos. and the statements showing the Index Nos. for various centres were forwarded to important users. Steps have been taken to compute fresh consumer price index numbers for 15 centres of the State, with 1970 as base. Fortnightly reviews of weekly retail prices of specified commodities were prepared and forwarded to the concerned Central and State authorities. Similarly, market rates of dietary articles and other hospital necessities were collected and supplied to the Health Services Department for use in finalising contracts for their supply. The Market Intelligence Unit continued to provide a regular and prompt supply of news on market rates, market arrivals, etc. of different agricultural commodities. Daily price bulletins and weekly market reviews continued to be broadcast through the A.I.R. The Unit was also engaged in the regular computation of Index Series relating to agricultural economy.

8. During the period the division took up the revision of estimates of State domestic product of Kerala for the years from 1960-61 to 1970-71. Provisional estimates for the year 1971-72 and quick estimates for 1972-73 were also prepared. According to the revised estimates, the per capita income of Kerala at current prices increased from Rs. 271 in 1960-61 to Rs. 600 in 1970-71. There is a slight decline in per capita income for the year 1971-72 to Rs. 589 mainly due to the fall in the price of agricultural commodities. The per capita income for the year 1972-73 again went up to Rs. 656. During this period the per capita income at constant prices showed an upward trend from Rs. 271 in 1960-61 to Rs. 346 in the year 1972-73.

9. The State Domestic Product at current prices increased from Rs. 1264 crores in 1970-71 to Rs. 1446 crores in 1972-73 and that at constant (1960-61) prices increased from Rs. 714 crores in 1970-71 to Rs. 762 crores in 1972-73.

10. The Bureau continued to attend to the work relating to the collection and compilation of statistical data of exports from and imports into the State through the ports in Kerala. It also continued to collect data on buildings, construction activities and furnish returns

to the National Buildings Organisation besides carrying out four rounds of a wage structure survey. The Labour Statistics Unit continued to prepare the returns under the various labour enactments viz. Factories Act, 1948, Payment of Wages Act, 1936, Maternity Benefit Act, 1961, Industrial Statistics (Labour) Rules, 1951, etc., and furnish them to the Labour Bureau, Simla. During this time the Industrial Statistics Unit continued the tabulation and analysis of the schedules on annual survey of industries canvassed by the National Sample Survey Organisation and preparation of reports and undertook two pilot surveys, one on Goods Traffic in Kerala and the other on 'Distributive Trade'. The unit also completed the final report relating to the survey on unregistered industrial establishments for forwarding to the Government of India. As usual the Mechanical Tabulation Unit continued to tabulate mechanically the data relating to Vital Statistics, National Sample Survey and other Sample Surveys.

11. During this period the Demographic Research Centre completed a number of useful studies, such as study on the effect of Family Planning Programme on the birth rate in Kerala, a note on the calculation of births averted due to the Family Planning Programme, the characteristics of the population of Kerala and the impact of the Family Planning Programme, a note on the trend in life expectancy in Kerala over the years, Trichur Mass Vasectomy Camp, 1972, an analysis and Family Planning Festival at Cannanore and released publications relating to them. Other studies were in progress. The Vital Statistics Unit continued to collect, compile and publish the Vital Statistics data of the State. All the schemes for the improvement of Vital Statistics were continued during the year.

12. The administrative Intelligence Unit continued to attend to the State level consolidation work in respect of the progress of the C.D. Programme, Rural Works Programme, Applied Nutrition Programme, etc. and furnish reports thereon to the State and Central Governments.

13. This year also the Bureau of Economics and Statistics continued to participate in the socio-economic part of the National Sample Survey conducted by the N.S.S. Organisation of the Government of India. During the year the field work of the 27th round was completed and that of the 28th round was started.

14. The Survey Wing of the Evaluation Division of the State Planning Board which was shifted to the Bureau of Economics and Statistics during this period took up studies on high yielding varieties of paddy and Minor Irrigation (Projects and Pumpsets) for preparation of analytical data for being forwarded to the State Planning Board. Similarly data in respect of evaluation of Soil Conservation Programmes were also prepared and furnished to the Board.

15. The Publication and Co-ordination Division prepared, the State Statistical Hand Book 1972, District Statistical Handbooks of Trivandrum, Trichur, Palghat, Kozhikode and Cannanore and a publication called 'Rates and Ratios' and sent them to press for printing. It also initiated work on the State Statistical Abstract, 1973. The Division also looked after the technical requirements of the Statistical Units in other departments.

16. The expenditure on the various schemes implemented by the Bureau of Economics and Statistics during 1973-74 was Rs. 47,68,312 as against Rs. 47,19,090 in the previous year.

17. The working of the department during the year under report was generally satisfactory.

(By order of the Governor)

N. CHANDRABHANU,

Additional Chief Secretary.

ADMINISTRATION REPORT OF THE BUREAU OF ECONOMICS AND STATISTICS FOR THE YEAR 1973-74

CHAPTER I

ADMINISTRATION

1. Introduction

The Bureau of Economics and Statistics was constituted in 1963, amalgamating the Bureau of Economic Studies and the Department of Statistics. It is the Central Agency for the systematic collection, compilation, analysis and objective interpretation of all statistics relating to the State and it is also functioning as an advisory body on economic issues referred to it. There are two wings of the Department viz., the Directorate and Field Survey Division. The Director is the head of the Department. The Additional Director is in charge of the Field Survey Division.

2. Personnel

1. *Director*.—Sri N. Gopalakrishnan [Nair continued as Director during the year under report.

2. *Additional Director*.—The post of Additional Director was vacant during the year under report.

3. *Administrative Officer*.—Sri M. P. Madhavan Nair, Deputy Secretary to Government was the Administrative Officer till 26th July 1973. He relinquished charge of the post of the Administrative Officer, consequent on his appointment as Joint Secretary to Government. Sri K. Ali, Deputy Secretary to Government was appointed as Administrative Officer—vide G.O. (Rt) No. 3951/73/PD., dated 27th July 1973. He took charge as Administrative Officer on the F.N. of 1st August 1973 and he was continuing as such during the remaining period under report.

4. *Deputy Directors*.—Sri N. Gopalakrishnan Nair continued as Deputy Director (Econometrics) during the year under report and was working in the State Planning Board.

Messrs. P. P. Philipose, S. Bhagavatheswara Iyer, K. Balakumaran Nair and P. C. Kurien continued as Deputy Directors in the Bureau and Sri T. Kuruvila Mathen in the Chief Town Planner's Office, Trivandrum during the year under report.

Dr. R. Sivasankara Kurup, Deputy Director on special duty in the Department of Family Planning, Ministry of Health, Government of India from 1st April 1970 was reverted to the Bureau with effect from 15th April 1973 A. N. His services were subsequently placed at the disposal of the Gandhigram Rural Institute, Madurai from 28th February 1974 A.N. onwards for appointment as Head of Population Division, Institute of Rural Health and Family Planning, Gandhigram, Madurai (vide G.O. Rt. 47/74/Plg., dated 27th February 1974) in which capacity he was continuing throughout the remaining period under report.

Sri G. Kuttappan Pillai, was on deputation from 15th June 1970 onwards as Deputy Director in the Pilot Research Project, Development Department, Secretariat, Trivandrum (vide G.O. MS. No. 134/70/DD., dated 11th June 1970) in which capacity he was continuing throughout the period.

Sri N. Karunakara Menon, Deputy Director of this Bureau expired on 11th September 1973.

Sri V. Sankaranarayanan Potti promoted to the cadre of Deputy Director on 8th March 1974 was continuing as such during the remaining period of the year.

Sri K. A. George acting in the cadre of Deputy Director was reverted to the cadre of Assistant Director with effect from 30th April 1973 F. N. as per G.O. Rt. No. 143/73/Plg., dated 3rd May 1973. He was again promoted to the cadre of Deputy Director with effect from 1st February 1974 F.N. (vide G.O. No. 13/74/Plg., dated 16th January 1974) and he was continuing as such during the remaining period under report.

5. *Assistant Directors.*—Sarvasree K. Rama Varma, T. R. Thakkappan Achari, R. Gopalakrishnan Nair, N. George John, K. Easwarankutty, K. Balakrishnan Nair, P. S. Gopinathan Nair, P. T. Joseph, C. Thomas Varghese, N. Gopalakrishnan, N. Krishna Pillai, John Thomas Chirayath, G. Ramachandran Nair, Dr. T. Edwin, G. Viswanatha Pillai, S. Krishna Iyer, P. L. Sreedevi Amma, K. Bhaskara Menon, R. Ramalingom Iyer, G. Somasekharan Nair, S. Retna Bai Ammal, T. Saraswathy Amma, K. K. Karunakaran, V. K. Paran Unni and T. Janardhana Menon continued as Assistant Directors during the period under report.

The following persons who were provisionally acting as Assistant Directors were reverted as Research Officers with effect from the dates noted against their names:

- | | |
|------------------------------|-----------|
| 1. Sri A. Balakrishnan | 1-12-1973 |
| 2. „ N. V. George | 1-12-1973 |
| 3. „ P. Vasudevan Namboodiri | 1-12-1973 |
| 4. „ V. N. Sukumara Pillai | 1-12-1973 |

The following persons were working in other departments against the posts declared as additions to the cadre of Assistant Director of this Department during the period noted below:

Sl. No.	Name	Designation of the post held	Period From	Period To
(1)	(2)	(3)	(4)	(5)
1.	Sri C. Thomas Varghese	Economist-cum-Publicity Assistant, Office of the Chief Town Planner, Trivandrum	Throughout the year	
2.	Sri T. Janardhana Menon	Assistant Director, Office of the Joint Director of Agriculture, Package Programme, Palghat	1-4-1973 7-3-1974	31-12-1973 and 31-3-1974
3.	Sri N. Krishna Pillai	Assistant Director, Office of the Joint Director of Agriculture, Package Programme, Alleppey	Throughout the year	
4.	Dr. T. Edwin	Assistant Director, Finance Department	1-4-1973	30-9-1973
5.	Sri N. Gopala-krishnan	Planning-cum-Survey Officer, Rural Industries Project, Trivandrum	1-12-1973	31-3-1974
6.	Sri V. K. Paran Unni	Planning-cum-Survey Officer, Rural Industries Project, Kozhikode	1-12-1973	31-3-1974
7.	Sri K. Bhaskara Menon	Planning-cum-Survey Officer, Rural Industries Project, Malappuram	1-12-1973	31-3-1974

Sl. No.	Name	Designation of the post held	From	Period To
(1)	(2)	(3)		(4)
8.	Sri K. K. Karunakaran	Planning-cum-Survey Officer, Rural Industries Project, Alleppey	1-12-1973	31-3-1974
9.	Sri K. Easwarankutty	Statistical Officer, Office of the Member-Secretary, Committee on Rational Utilization and Development of Forest Lands	May 1973	March 1974

The services of Sri K. N. Gopala Panicker, Assistant Director were placed at the disposal of the Kerala State Road Transport Corporation from 20th March 1974 onwards as Statistical Officer (vide G.O. Rt. No. 76/74/Plg., dated 19th March 1974) in which capacity he was continuing throughout the remaining period under report.

The following persons who were provisionally promoted as Assistant Directors were continuing as such during the period noted against their names.

		From	To
1.	Sri A. Balakrishnan	1-4-1973	1-12-1973
2.	„ N. V. George	1-4-1973	1-12-1973
3.	„ V. K. Paran Unni	1-4-1973	31-12-1973
4.	„ V. K. Paran Unni	7-3-1974	continuing
5.	„ T. Janardhana Menon	1-4-1973	31-12-1973
6.	„ T. Janardhana Menon	7-3-1974	continuing
7.	„ P. Vasudevan Namboodiri	19-5-1973	30-11-1973
8.	„ V. N. Sukumara Pillai	5-8-1973	30-11-1973

6. *Regional Officers.*—Sarvasree K. Mailerum Perumal Pillai and G. Velayudhan Thampi continued as Regional Officers, Market Intelligence at Kozhikode and Trivandrum respectively during the year under report. Sri S. Cecil continued as Regional Officer, Sample Registration at Trivandrum during the year under report.

7. *Administrative Assistant.*—Sri T. V. Chandran continued as Administrative Assistant during the year under report.

Sri K. M. Bala Warriar continued as Administrative Assistant in the State Planning Board during the year under report.

Sri V. K. Achuthan Nambiar, Senior Superintendent was promoted as Administrative Assistant and continued as such during the period from 6th July 1973 to 31st December 1973.

8. *Publication Officer*.—Sri A. N. Bhaskaran Pillai, Publication Assistant was provisionally promoted as Publication Officer on Rs. 375-800 with effect from 23rd May 1973 and posted in the State Planning Board and is continuing as such without break.

9. *Senior Superintendents*.—Sri V. K. Achuthan Nambiar continued as Senior Superintendent during the period under report but for his promotion as administrative Assistant from 6th July 1973 to 31st December 1973.

Sarvasree P. Narayanan and K. Appukuttan Nair continued as Senior Superintendents during the year under report.

Sri R. V. Ananthasubramoniam continued as Senior Superintendent during the period from 1st April 1973 to 31st December 1973.

10. *Publication Assistant*.—Sri A. N. Bhaskaran Pillai continued as Publication Assistant during the period from 1st April 1973 to 23rd May 1973.

The following persons who were promoted as Publication Assistants continued as such during the periods noted against their names:

	<i>From</i>	<i>To</i>
1. Sri K. Sreedharan	31-8-1973	31-12-1973
2. Sri R. V. Ananthasubramoniam	31-12-1973	continuing

11. *Research Officers*.—The following persons continued as Research Officers throughout the year under report:

1. Sri P. Vidyasarangaratha Das	16. Smt. P. K. Saradamony
2. „ K. George	17. Sri R. Parameswaran Nair
3. „ A. Abdul Wahab	18. „ A. Abdul Gafoor
4. „ N. Kochumman	19. „ C. Kumaraswamy
5. „ C. R. Parameswaran	20. „ K. Gnanamuthu
6. „ M. K. Bhaskaran Pillai	21. „ N. Vikraman Nair
7. „ P. K. Ramakrishnan Nair	22. „ C. Daniel
8. „ G. Surendranathan Nair	23. „ A. V. Mathai
9. „ P. B. Lekshmanan	24. „ A. P. Pathrose
10. „ K. Easwaran Namboodiri	25. „ K. P. Sathyadas
11. „ J. Benjamin	26. „ C. Somavarman
12. „ N. M. Syed Mohammed	27. „ E. P. Raman Namboodiri
13. „ P. Gopalan	28. „ C. G. Vasudevan Nair
14. „ K. Appukuttan	29. „ R. Janardhanan
15. „ O. Ayyappan	30. Smt. S. Suneetha

The following persons provisionally promoted to the cadre of Research Officers continued as such during the periods noted against them :

1.	Sri M. Haridasan Nair	1-4-1973	continuing
2.	„ P. J. Basil	do.	do.
3.	„ V. A. Abraham	do.	do.
4.	„ N. Rajendran	do.	do.
5.	„ P. R. Krishna Pillai	do.	do.
6.	„ Urumi Balaji	do.	do.
7.	„ M. Shamsuddin	do.	do.
8.	„ K. N. Sahadevan	do.	do.
9.	„ R. Vasukutty	do.	do.
10.	„ P. J. Joshua	do.	do.
11.	„ Mathew Thomas	do.	do.
12.	„ E. P. Govinda Pillai	do.	do.
13.	„ P. K. Anthrayose	do.	do.
14.	„ K. Vasudevan	do.	do.
15.	„ P. K. Chandu Nair	do.	do.
16.	Smt. J. Padmam	do.	do.
17.	Sri T. G. Francis	do.	do.
18.	„ K. Divakaran Pillai	do.	do.
19.	„ S. Gopalan	1-6-1973	do.
20.	„ K. Vasudeva Bhattathiri	18-5-1973	do.
21.	„ K. Sivasankaran Nair	10-5-1973	do.
22.	„ N. Narayana Pillai	10-5-1973	do.
23.	„ N. Appukuttan Pillai	10-5-1973	do.
24.	„ Sam Varghese	10-5-1973	do.
25.	„ K. P. Rajendra Prasad	18-5-1973	do.
26.	„ M. Velayudhan	14-5-1973	31-1-1974
27.	Smt. Minnie George	12-5-1973	31-12-1973
28.	Sri P. K. George	10-5-1973	31-12-1973
29.	„ V. K. Sasidharan	9-5-1973	1-12-1973 F.N.
30.	„ P. Gopinathan	4-6-1973	1-12-1973 F.N.
31.	„ S. Krishnan Nair	17-10-1973	1-12-1973 F.N.

Sri K. Divakaran Pillai, Research Officer was on deputation to the Kerala Grandhasalasanghom for a period of 3 months from 17th April 1973 (vide G.O. Rt. 125/73/Plg., dated 13-4-1973).

The following persons were working in other departments against the posts declared as temporary addition to the category of Research Officers in this department during the period noted below:

Sl. No.	Name	Designation of the post held	Period From	To
(1)	(2)	(3)	(4)	(5)
1.	Sri J. Benjamin	Research Officer, Office of the Director of Public Instruction, Trivandrum	Throughout the year	
2.	Sri P. K. Chandu Nair	do.	do.	
3.	Sri P. B. Lekshmanan	Economic Investigator, Rural Industries Project, Alleppey	do.	
4.	Sri M. Velayudhan	Economic Investigator, Rural Industries Project, Kozhikode	14-5-1973	31-1-1974
5.	Smt. Minnie George	do.	12-5-1973	31-12-1973
6.	Sri M. M. Syed Mohammed	do.	Throughout the year	
7.	Sri P. K. Ramakrishnan Nair	do.	do.	
8.	Sri C. G. Vasudevan Nair	Economic Investigator, Rural Industries Project, Alleppey	do.	
9.	Sri A. M. Haridasan Nair	do.	10-5-1973	continuing
10.	Sri V. P. Mathew	do.	10-5-1973	do.
11.	Sri P. Vidysarangaratha Das	Economic Investigator, Rural Industries Project, Trivandrum	10-5-1973	do.
12.	Sri S. Gopalan	do.	1-6-1973	do.
13.	Sri K. Sivasankaran Nair	do.	10-5-1973	do.

Sl. No.	Name	Designation of the post held	From	To
(1)	(2)	(3)	(4)	(5)
14.	Sri K. Narayana Pillai	Economic Investigator, Rural Industries Project, Trivandrum	10-5-1973	continuing
15.	Sri K. Vasudeva Bhattathiri	Economic Investigator, Rural Industries Project, Malappuram	18-5-1973	do.
16.	Sri K. Sam Varghese	do.	15-5-1973	do.
17.	Sri K. P. Rajendra Prasad	do.	18-5-1973	do.
18.	Sri C. Daniel	Research Officer, Office of the Chief Town Planner	Throughout the year	
19.	Sri C. Kumaraswamy	Statistical Officer, Office of the Inspector General of Police, Trivandrum	do.	
20.	Sri C. Somavaraman	Research Officer, Statistical Wing, Animal Husbandry Department	do.	
21.	Sri P. J. Basil	Research Officer, Irrigation Chief Engineer's Office, Trivandrum	do.	
22.	Sri N. Rajendran	Research Officer, Office of the Chief Engineer (B and R), Trivandrum	do.	
23.	Sri K. N. Saha-devan	Research Officer, Office of the Chief Conservator of Forests, Trivandrum	do.	
24.	Sri C. R. Parameswaran	Research Officer, Labour Department	do.	

12. *Scrutiny Officers*:—The following persons were working as Scrutiny Officers during the period noted below:

	From	To
1. Smt. K. Leelakumari	Throughout the year	
2. Smt. S. Saraswathy	do.	
3. Sri T. Divakaran Nair	do.	
4. Sri K. Krishnan	1-3-1973	13-7-1973
5. Sri K. K. Sukumaran	13-7-1973	continuing

Sri S. Natarajan, Scrutiny Officer was on deputation to the Economics Department, University of Kerala with effect from 1st December 1972.

District administration:—The following persons were holding the post of District Statistical Officers during the period noted against each:

Sl. No.	District	Name of Officer	From	To
1.	Trivandrum	Sri K. Ramanarayanan Nair	Throughout the year	
2.	Quilon	Sri P. M. Thankappan	do.	
3.	Alleppey	Sri K. P. Mohamed Sally	do.	
4.	Kottayam	Sri P. Sankunni Nair	do.	
5.	Idikki	Sri K. N. Radhakrishnan Nair	17-10-1973	continuing
6.	Ernakulam	Sri T. P. Rajagopalan	Throughout the year	
7.	Trichur	Sri K. S. Ayyappan	do.	
8.	Palghat	Sri K. Ananthanarayana Iyer	do.	
9.	Malappuram	Sri N. O. Kumaran	do.	
10.	Kozhikode	Sri V. C. George	do.	
11.	Cannanore	Sri H. Padmanabha Iyer	do.	

The following persons were holding the post of Additional District Statistical Officer in various districts during the period noted against each:

Sl. No.	District	Name of Officer	Period of charge during the year under report	
			From	To
1.	Trivandrum	Sri K. Rajagopal	Throughout the year	
2.	Quilon	Sri M. Mohammed Yusuf	1-4-1973	12-4-1973 (entered on leave from 13-4-1973)
3.	Alleppey	Sri H. Johnson	19-5-1973	Continuing
		Sri K. N. Radhakrishnan Nair	1-4-1973	17-10-1973
4.	Kottayam	Sri K. Krishnan	22-10-1973	Continuing
		Smt. P. Rajammal	Throughout the year	
5.	Idikki	Sri S. R. Selvaraj	31-10-1973	Continuing
6.	Ernakulam	Sri V. C. Kurien	31-10-1973	Continuing
7.	Trichur	Sri K. K. Sukumaran	1-4-1973	13-7-1973
		Sri K. Krishnan	21-7-1973	22-10-1973
		Sri K. P. Karunakaran Pillai	22-10-1973	Continuing
8.	Palghat	Sri M. Mohamed Serverkhan	Throughout the year	
9.	Malappuram	Sri M. K. Shanmughom	Throughout the year	
10.	Kozhikode	Sri S. R. Selvaraj	12-7-1972	29-10-1973
		Sri S. Madhavan Nair	29-10-1973	Continuing
11.	Cannanore	Sri D. K. Vidyanandan	Throughout the year	

Sri K. P. Karunakaran Pillai was holding the post of Special Officer, Bench Mark Survey, Cannanore during the period from 3rd January 1973 to 17th October 1973.

The following persons promoted to the cadre of District Statistical Officer/Additional District Statistical Officer were holding the posts during the period noted against them.

	From	To
1. Sri H. Johnson	19-5-1973	Continuing
2. Sri S. Madhavan Nair	29-10-1973	Continuing

The following persons were working in other departments against the posts declared as temporary addition to the cadre of District Statistical Officer in this department:

Sl. No.	Name of Officer	Name of post	Period of charge during the year under report	
			From	To
1.	Sri D. Gopinathan	Statistical Officer, Directorate of Agriculture, Trivandrum	Throughout the year	
2.	Sri P. Gopinatha Pillai	Statistical Officer, Board of Revenue (Taxes), Trivandrum	do.	
3.	Sri A. Shahul Hameed	Statistical Officer, Board of Revenue (Civil Supplies), Trivandrum	do.	

Deputy Health Officers.—The following persons were holding the posts of Deputy Health Officers during the period in places noted against each:

1.	Sri K. K. Bhaskaran	Corporation of Cochin	Throughout the year	
2.	Sri P. Vasudevan	Corporation of Kozhikode	do.	
3.	Sri P. K. Pankajakshan	Alleppey Municipality	do.	
4.	Sri P. A. Kunjamutty	Quilon Municipality	do.	
5.	Sri R. Ravindranathan Nair	Corporation of Trivandrum	do.	

Sanctioned strength of the Department as on 31st March 1974 was as follows:

Category	Name of post	Perma- nent	Tempo- rary	Total	Scale of pay Rs.
Gazetted	Director	..	1	1	1150-1650
	Additional Director	..	1	1	950-1450
	Administrative Officer	..	..	1	950-1450
	Deputy Director (Econometrics)	..	..	1	750-1250

Category	Name of post	Perma- nent	Tempo- rary	Total	Scale of pay Rs.	
Gazetted	Deputy Directors .. ..	..	7	7	750-1250
	Assistant Directors	2	20	22	560-1100	
	Regional Officers .. ..	..	3	3	560-1100
	Research Officers	6	54	60	510-995	
	District Statis- tical Officers	9	2	11	510-995	
	Additional Sta- tistical Officers .. ..	..	11	11	510-995
	Scrutiny Officers .. ..	..	4	4	510-995
	Administrative Assistant .. ..	..	2	2	560-1100
	Senior Superin- tendents	2	1	3	495-835	
	Publication Assistant .. ..	..	1	1	495-835
	Deputy Health Officers .. ..	..	5	5	495-835
	Non- gazetted	Junior Superin- tendent	2	..	2	405-660
		Fair Copy Super- intendent	1	2	3	330-575
Research Assis- tant/Statistical Inspector/M. T. Supervisor/Price Inspector		38	99	137	405-660	
U. D. Clerk/ U. D. Acc- ountant Clerk		5	11	16	275-525	
U. D. Typist		3	9	12	275-525	
U. D. Compiler/ Investigator/ Punch Card Operator		8	113	121	275-525	
Clerk-cum- Librarian		1	..	1	240-445	
U. D. Drafts- man .. ..		..	1	1	285-550
L. D. Drafts- man		1	2	3	240-445	
Junior Statis- tical Inspector .. ..		..	107	107	275-525

Category	Name of post	Per- manent	Tem- porary	Total	Scale of pay Rs.	
Non-gazetted	Stenographer Gr. I	1	..	1	325-660	
	Stenographer Gr. II	..	3	3	240-540	
	Rota Typist	..	1	1	240-445	
	U. D. Printer	..	1	1	285-550	
	L. D. Clerk/ L. D. Accountant Clerk	..	10	16	26	230-385
	L. D. Typist	..	7	11	18	230-385
	Language Typist	..	..	1	1	230-385
	L. D. Compiler/ Investigator/ Punch Card Operator/ Price Reporter	..	103	291	394	230-385
	Driver	..	..	2	2	215-370
	Duffadar	..	1	..	1	200-285
	Attender	..	..	2	2	200-285
	Mochee	..	..	1	1	200-285
	Peon Grade I	..	..	2	2	200-285
	Peon Grade II	..	22	5	27	196-265
	Night Watcher	..	..	1	1	196-265

3. Expenditure

The expenditure incurred by the Department under various schemes during 1973-74 is shown below:

NON-PLAN SCHEMES

		Rs.
39 (b) (ii)	Bureau of Economics and Statistics	33,96,438
39 (b) (iii)	National Sample Survey	3,08,018
39 (b) (v)	Strengthening of Statistical Units in Municipalities for improvement of Vital Statistics	2,20,140

PLAN SCHEMES

39 (b) (viii)-1	Family Planning Demographic Research Centre	85,193
39 (b) (viii)-2	Inservice Training Programme	9,128
39 (b) (viii)-3	Survey of Wage Structure	28,263
39 (b) (viii)-4	Setting up of Mechanical Tabulation Unit	

		Rs.
39 (b) (viii)-5	Scheme for a new series of Consumer Price Indices	28,696
39 (b) (viii)-6	State Income Unit—Strengthening of	18,134
39 (b) (viii)-7	Housing Statistics Cell	52,629
39 (b) (viii)-8	Strengthening of Industrial Statistics Unit	55,171
39 (b) (viii)-9	Strengthening of Prices Unit	63,399
39 (b) (viii)-11	Creation of Unit for Statistics of Resources for Planning	4,543
39 (b) (viii)-12	Preparation of Statistics of Municipal Towns and cities and District Statistical Hand Book	4,399
39 (b) (viii)-16	Co-ordination of Official Statistics	25,281
39 (b) (viii)-17	Study of cost of cultivation of Ginger	4,133
39 (b) (viii)-18	Collection of Statistics relating to small scale industries (Centrally sponsored)	19,110
39 (b) (viii)-20	Scheme for the collection of data on area and production of pepper in Kerala	1,96,171
39 (b) (viii)-21	Detailed survey on cashew crop cultivation	1,17,696
39 (b) (viii)-24	Assessment Survey of High Yielding varieties in cultivators fields	58,545
39 (b) (viii)-25	Survey of Distributive Trade	2,452
39 (b) (viii)-26	Survey of Goods Traffic by Road	
39 (b) (viii)-28	Bench Mark Survey	70,773

CHAPTER II

AGRICULTURAL STATISTICS

1. Land Utilisation Survey

The Department continued to conduct Land Utilisation Surveys during the year under report.

The object of the survey was to frame the estimates of area under different land uses and area under different crops in the State.

The survey was conducted from 1st November 1973. The reference period of the survey (both 1st and 2nd rounds) was from 1st July 1973 to 30th June 1974. The survey was conducted in all the 57 taluks. A stratified two stage random sampling design with the taluks as the stratum was adopted for the survey. In each taluk (except Hosdurg and Kasaragode) 15 census villages were selected by simple random sampling method. In the case of Hosdurg and Kasargod Taluks only 12 villages each were selected. From each village 10 clusters of 5 plots each (in the case of Kasargod and Hosdurg 5 clusters of 10 plots each) were enumerated. If a selected village consists of 50 plots or round about, then all the villages were enumerated. During the year a total No. of 42250 plots were enumerated.

During the year under report, details in respect of the first round of the survey (i.e. 1st July 1973 to 31st January 1974) were collected by enquiry method and those of the 2nd round by actual enumeration. The particulars in respect of each round of the survey were entered in separate schedules prescribed for the two rounds.

Data on area under different land uses, area under different seasonal crops, number of various perennial crops and area irrigated under different sources of irrigation were collected. The field work of the survey was in progress during the year.

The analysis of the data collected during the 1st round 1972-73 was in progress. The compilation of the data collected during 1971-72 (both 1st and 2nd rounds of the survey) was completed and Statistics of Land Utilisation Survey was finalised. These estimates were used for the preparation of Agricultural Statistics Returns of the State.

2. Improvement of Plantation Statistics

The object of the scheme was to obtain reliable Statistics on the following aspects in respect of rubber, coffee and tea estates in the State.

1. Area under crops
2. Area from which yield is obtained
3. Quantity of yield
4. Number of workers employed

The sample surveys on rubber and coffee estates conducted during the year under review was XIII round in the series. The official estimates of area under and production of rubber for the year 1972 and of coffee for the year 1972-73 were prepared.

The tea statistics for the year 1971 was prepared. The collection of tea statistics for the year 1972 was in progress.

3. Crop Cutting Surveys

(i) *Crop Cutting Surveys on Paddy 1973-74.*—During the period under reference Crop Cutting Surveys on Winter and Summer crops of paddy 1974 were undertaken. The report on the crop cutting survey on Autumn crop of paddy 1973 was published. During crop cutting survey on Winter crop of paddy, the number of experiments was increased to 3000. Necessary funds to meet the additional expenditure were provided by the Department of Agriculture.

The field work relating to Autumn crop of paddy 1974 was completed and the analysis is in progress.

(ii) *Crop cutting survey on tapioca 1973-74.*—The survey has been conducted in all the taluks in the State. The estimates of area and production of tapioca in each district and State have been finalised.

(iii) *Pre-harvest estimates.*—Pre-harvest data on area under and yield rate of pepper, sugar-cane, groundnut and paddy (Autumn, Winter and Summer) were collected and the estimates have been sent to the Economic and Statistical Adviser, Government of India, New Delhi and the concerned State Government Officers.

4. Agricultural statistics

The Agricultural Statistics Unit dealt with the following items of work during the year 1973-74.

(i) Collection and compilation of—

(a) Agricultural Statistics relating to the State and

(b) Rainfall data relating to the State.

(ii) Preparation of forecast reports on area and production of important crops in the State.

(iii) Preparation of production statistics relating to certain prescribed crops in accordance with K. L. R. Act, 1964.

(iv) Preparation of seasonal crop reports.

(v) Other miscellaneous items of work.

1 (a) The Agricultural Statistics tables for the Agricultural year 1972-73 have been prepared and published. Classification and utilisation of land and its percentage to the total area of the State during the year 1972-73 are furnished hereunder.

<i>Sl. No.</i>	<i>Classification of area in hectares</i>	<i>Area</i>	<i>Percentage Rs.</i>
(1)	(2)	(3)	(4)
1.	Total geographical area according to village papers ..	3858523	100.00
2.	Forest ..	1054864	27.33
3.	Land put to non-agricultural use ..	275726	7.14
4.	Barren and uncultivable waste land ..	67731	1.75
5.	Permanent pastures and grazing land ..	27800	0.72
6.	Land under miscellaneous tree crops ..	115007	2.98
7.	Cultivable waste ..	74010	1.92
8.	Current fallow ..	25664	0.67
9.	Other fallows ..	20732	0.54
10.	Net area sown ..	2196989	56.94
11.	Area sown more than once ..	789489	20.46
12.	Total cropped area ..	2986478	76.40

Area and production in respect of important crops in the State during the year 1972-73 were as follows:

<i>Sl. No.</i>	<i>Name of crop</i>	<i>Area (Hectares)</i>	<i>Production (Tonnes)</i>
1.	Rice ..	873704	1376367
2.	Pulses ..	37557	12456
3.	Sugar-cane (Gur) ..	7765	40019
4.	Black Pepper ..	116343	25150
5.	Ginger (Dry) ..	11802	23487
6.	Cardamom (Processed) ..	47492	1250
7.	Turmeric (Cured) ..	4185	4424
8.	Arecanut ..	88633	13136 (Million nuts)
9.	Banana and Plantain ..	47287	357883
10.	Cashewnut ..	101493	113876
11.	Tapioca ..	304828	5692355
12.	Sesamum ..	11780	3420
13.	Groundnut ..	16044	16461
14.	Coconut ..	745429	3921 (Million nuts)
15.	Tea ..	38377	43677
16.	Coffee ..	34651	14916
17.	Rubber ..	195603	91948

1 (b) Daily rainfall data were recorded in 89 centres in the State. The monthly and annual rainfall returns received from these centres were compiled in the section. The daily rainfall statement for the

year 1972 has been sent to the Deputy Director-General of Observatories, Poona.

2. The preparation of forecast reports on area and production of important seasonal crops in the State was continued during the year under reference. These reports were forwarded to the Government of India and to the State Government as per the time-schedule fixed.

3. During the year under reference the Statistics of gross produce per hectare of nine crops specified in rule 41 of the K.L.R. (Tenancy) Rules 1970 for the year 1973-74 was also published.

4. The season and crop report for the year 1971-72 was prepared during the year and forwarded to the Superintendent of Government Presses, Trivandrum for printing. The report for the year 1972-73 was under preparation.

5. National Index of Field Experiments

The preparation of National Index of Field Experiments was continued during the year under report.

The object of this scheme is to put together in one place the result of all field experiments conducted in different parts of the country, whether they are conducted by the State Departments of Agriculture, University of Agriculture, Central Research Institute, Commodity Committees or other organisations. It is intended to catalogue all these materials on a uniform basis and standard manner so that they are available to all the Agricultural Research workers in the country. The field experiments are indispensable for acquiring new knowledge as well as measuring the impact on crop production, the various improvements which may be introduced in agricultural practices.

This Bureau performs collection, compilation and statistical analysis of the data of the field experiments conducted at the various Agricultural Research Stations in the State. The results of analysis of the above data are promptly communicated to concerned Research Stations, State Directorate of Agriculture and the Institute of Agricultural Research Statistics (I.A.R.S.), New Delhi.

The details of agricultural experiments analysed in this Bureau during the period under report are given below:

Sl. No.	Design of the experiments	No. of experiments analysed during the year 1973-74
1.	Randomised block ..	34
2.	Split plot ..	4
3.	Fractional experiments ..	2
	Total ..	40

6. Other Agricultural Surveys

(i) *Assessments Surveys on High Yielding Varieties.*—The scheme for the conduct of the Assessment Surveys on High Yielding Varieties Programme was initiated in the State as a fully subsidised scheme of the Institute of Agricultural Research Statistics, New Delhi. The scheme is to conduct yield estimation surveys and Agronomic and Agro-Economic enquiries on paddy in the Districts of Kottayam, Ernakulam, Trichur and Malappuram during the three paddy growing seasons.

During the period under report the yield estimation surveys for summer 1972-73 and Autumn 1973-74 were conducted. The Agronomic and Agro-Economic enquiries for Summer 1972-73 were also conducted. The field work was stopped after completing the work relating to the Autumn 1973-74 for want of allocation of sufficient funds for the year. The office staff of the scheme were however allowed to continue for collection scrutiny, coding of the filled-in schedules relating to the surveys conducted. The filled-in schedules were forwarded to the I.A.R.S. for analysis and reporting.

(ii) *Cashew Survey.*—The Bureau continued to attend to the conduct of the Cashew Survey, designed to estimate the area under cashew cultivation and production of cashew in Kerala State. The following staff were in position throughout the year 1973-74:

1.	Assistant Director	1
2.	L.D. Compiler	1
3.	Investigators (U.D.)	7
4.	Investigators (L.D.)	23

The second round of the survey commenced in September 1972 and it was completed by August 1973. The third and final round of the survey was begun in September 1973. The District Statistical Officers were in overall charge of the field work relating to the survey in their respective districts.

The analysis of the data relating to the two rounds of the survey already conducted was in progress in the year under reference.

(iii) *Pepper Survey.*—The Pepper Survey Unit of this Bureau continued to attend to the conduct of the pepper Survey, designed for the improvement of statistics on area and production of Pepper in the State with the following staff in position:

Sl. No.	Office	Number of post
1.	Assistant Director	1
2.	Research Assistant	1
	<i>Field</i>	
1.	Statistical Inspector (special)	5
2.	Investigators (U.D.)	10
3.	Investigators (L.D.)	30

The survey was conducted only in 40 taluks of the State since these taluks account for 99 per cent of the area under pepper in the State. The second round of the survey was completed by June 1973 and the third and final round of the survey was begun by the 1st July 1973. The Taluk Statistical Inspectors were in-charge of the survey while 5 Statistical Inspectors were specially appointed for intensive supervision of the work. The District Statistical Officers were in overall charge of the work in their respective districts.

The analysis of the data relating to the two rounds of the survey already canvassed, was attended to in the Head Office and it was in progress in the year under report.

CHAPTER III

ECONOMIC STATISTICS

1. Prices (General)

Prices Division of this Bureau continued to attend to the following items of work.

Weekly retail prices of 40 articles were collected from 22 selected centres. These data are mainly used for computing the State series of consumer price index numbers. At present index numbers are computed for the following 13 selected centres in the State.

- | | |
|-------------------|---------------|
| 1. Trivandrm | 8. Ernakulam |
| 2. Quilon | 9. Trichur |
| 3. Punalur | 10. Chalakudy |
| 4. Alleppey | 11. Munnar |
| 5. Changanacherry | 12. Shertalai |
| 6. Kottayam | 13. Kozhikode |
| 7. Alwaye | |

The base for Kozhikode is the average price for the year ended June 1936=100 and for other centres the base period selected is August 1939=100. The monthly index numbers were computed and published regularly in the Gazette.

Statements showing the index numbers for various centres in the State were forwarded to important users—both public and private, individuals and organisations—direct from this Bureau. Steps have been taken to compute fresh consumer price index numbers for 15 important centres of the State, with 1970 as base. Government orders to this effect are awaited.

This Bureau continued to collect weekly retail prices of 73 specified commodities from all district headquarters and prepare reviews

indicating their price trends, availability and apprehended scarcity. These fortnightly reviews with consolidated fortnightly statements of prices were forwarded to (1) The Secretary to Government, Food Department, Secretariat, Trivandrum, (2) The Section Officer, Economic Division, Planning Commission, Yojana Bhavan, Parliament Street, New Delhi, (3) Sri S. Krishnakumar, Director of Civil Supplies, Board of Revenue, Trivandrum and (4) The Director-General (Civil Supplies), Ministry of Industrial Development, Udyog Bhavan, New Delhi.

The collection of retail prices from the five centres of Alwaye, Ernakulam, Quilon, Mundakayam (old and new series) and Alleppey (old series) for the Labour Bureau, series of consumer price index numbers (central series) also continued.

The Bureau continued to collect the market rates of dietary articles and other hospital necessities for the use of the Health Services Department, Department of Indigenous Medicines, etc. for finalisation of contracts for supply of the articles to the institutions under their control. The collection of prices was done on a quarterly basis on the first Friday of every quarter for the Health Services Department. The Statistical Inspectors were made responsible for the collection of prices of 200 items. The market rates of these 200 items of dietary and other allied articles were collected for every quarter. The data were scrutinised and final statements of prices for 57 centres prepared and furnished to all the District Medical Officers, District Indigenous Medical Officers, Director of Health Services, Director of Indigenous Medicines, Medical Colleges, T.B. Hospitals, E.S.I. Hospitals, Poultry Centres and Cattle Farms under the Department of Animal Husbandry, Director of Museums and Zoos, Jails, Army Commander for Tamil Nadu and Kerala etc. Data on prices of dietary articles required by other departments and institutions were also furnished when requested for.

Also prices of over 1000 Ayurvedic medical items were collected in January 1974, scrutinised and final statements of prices prepared and forwarded to the two Government Ayurvedic Colleges and Research Centres at Trivandrum and Tripunithura.

Rural retail prices.—Information on monthly retail prices of 28 commodities is being collected from 21 selected villages in the State. This data are being collected for computing rural price index.

2. Market Intelligence

The main object of the scheme is to provide for the benefit of the primary producers, a regular and prompt supply of news on market rates, market arrivals etc., of different agricultural commodities produced by them. The scheme is in operation in 36 important market centres of the State.

The field work of the reporting agencies under the scheme is supervised by the respective District Statistical Officers and two Regional Price Supervisors posted at Trivandrum and Kozhikode.

The price collection work in all the district headquarters except Idikki is being attended to by full-time Price Inspectors. In addition to this there are 3 Price Inspectors posted at Changanacherry, Kozhikode and Cochin. There are 5 full-time Price Reporters working at Kadakkal, Irinjalakkuda, Cranganore, Kunnankulam and Baliapattom. The price collection work at the remaining centres are being attended to either by Junior Statistical Inspectors or Investigators.

Daily price bulletins containing the information in prices in respect of 26+10 centres are prepared in the Regional Offices, Trivandrum and Kozhikode respectively. The same is sent to the regional stations of All India Radio, Trivandrum/Kozhikode for broadcast during the radio rural or karshikarangam programme in the evening.

Weekly market review.—A weekly market review in Malayalam on price, price trends etc., of important agricultural commodities in respect of selected centres is prepared and broadcast in the evening on every Sunday.

Daily report on open market price of rice.—A daily statement on the open market price of rice prevailing in the different district headquarters of the State is also prepared and furnished to Government of India, State Civil Supplies authorities of the Board of Revenue. In addition to this, the Reserve Bank of India is also being supplied with the weekly market price of rice available in the open market of Palghat centre. In addition to this, various requirements in respect of wholesale prices, of many other offices both Government of India and the State are regularly met by this scheme.

3. Index series

Index series (relating to Agricultural Economy).—The above scheme is intended for the regular computation of the following indices:—

(a) Index numbers of wholesale prices of agricultural commodities, (b) Index numbers of parity between prices received and paid by farmers (c) Index of agricultural wages.

(i) *Index numbers of wholesale prices of agricultural commodities.*—Seventeen important agricultural commodities are included in the computation of the wholesale price index. The monthly indices were computed on the basis of the wholesale prices collected from the various reporting centres distributed throughout the State. The base

year selected is the agricultural year 1952-53. The wholesale price index numbers were computed every month.

(ii) *Index numbers of parity between prices received and paid by farmers.*— This index measures the variation in the economic prosperity of the farmers relating to changes in farm prices, farm cultivation cost and domestic expenditure as compared to the situation during 1952-53. The parity index numbers between prices received and paid by farmers have been computed for all months of the year under reference.

(iii) *Index of agricultural wages.*—The data on agricultural wages were collected from the selected centres in the State and sent to the Economic and Statistical Adviser, Government of India and published in the Kerala Gazette. The monthly indices of wages of rural skilled workers and agricultural labourers were regularly computed and forwarded to the Government of India.

In addition to the computation of the above indices, this section attended to the following items of work also: (1) Fortnightly farm prices of cocoanuts with husk were tabulated and sent to the Secretary, India Central Coconut Committee, Ernakulam, (2) Yearly weighed average farm prices of 9 commodities were worked out and sent to the Economic and Statistical Adviser, New Delhi, (3) Fortnightly farm prices of cocoanut with husk were sent to the Deputy Director (Agriculture), Nileswar, (4) Weekly statement on prices of coir and husk were prepared and sent to the Secretary, Coir Board, Ernakulam, (5) Monthly average prices of coir were sent to the Government Press, Trivandrum for publication in the Government Gazette, (6) Weekly prices of export staples at Mattancherry and Alleppey were sent to the Government Press for publication in the Gazette and (7) Data on farm prices were supplied to outside agencies on request.

4. State income

During the year under report the Division took up the revision of estimates of State domestic product of Kerala for the years from 1960-61 to 1970-71. The estimates were revised on the lines recommended by the Central Statistical Organisation and in the light of the availability of fresh data. Provisional estimates for the year 1971-72 and quick estimates for the year 1972-73 were also prepared. Now, this Division is engaged in the estimation of working force classified according to their major activity for the inter-censal period of 1961 and 1971 and State income estimates for 1973-74. According to the revised estimates, the per capita income of Kerala at current prices increased from Rs. 271 in 1960-61 to Rs. 600 in 1970-71. There is decline in the per capita income in the year 1971-72 to Rs. 589 mainly due to the fall in the price of agricultural commodities. The

per capita income for the year 1972-73 again went up Rs. 656. During the period the per capita income at constant prices showed an upward trend from Rs. 271 in 1960-61 to Rs. 346 in the year 1972-73.

PER CAPITA STATE DOMESTIC PRODUCT

<i>Year</i>	<i>At current prices Rs.</i>	<i>At constant prices (1960-61) Rs.</i>
1960-61	271	271
1961-62	287	270
1962-63	295	274
1963-64	308	275
1964-65	355	285
1965-66	404	287
1966-67	423	296
1967-68	497	320
1968-69	515	322
1969-70	555	333
1970-71	600	339
1971-72 (provisional)	589	339
1972-73 (quick)	656	346

The State domestic product at current prices increased from Rs. 1264 crores in 1970-71 to Rs. 1446 crores in 1972-73 and that at constant (1960-61) prices increased from Rs. 714 crores in 1970-71 to Rs. 762 crores in 1972-73. There was an increase of 14 per cent in the State domestic product for 1972-73 compared to that in 1970-71. The corresponding increase in State domestic product at 1960-61 prices was 6.7 per cent.

5. Export and import statistics

During the period under report the bureau continued to attend to the work relating to the collection and compilation of statistical data of exports and imports from and into the State through the Ports of Kerala.

The monthly statements on seaborne trade received in a coded form from the Director General of Commercial Intelligence and Statistics, Calcutta for the period from January to December 1972 were decoded and tabulated during the year. Preparation of port-wise, commodity-wise and country-wise monthly statements was completed up to 1972 during the year. The Director General of Commercial Intelligence and Statistics, Calcutta has discontinued the supply of monthly statements of exports and imports since May 1973.

Efforts are being made to make alternate arrangements to collect the data from the port authorities/custom authorities in Kerala.

The collection of data relating to railborne statistics remained suspended during the year.

6. Housing and wage statistics

The following items of work were continued during the year under report.

(i) *Housing*.—The unit in the Public Works Department collected and consolidated the half yearly returns relating to building construction activities costing Rs. 20,000 and above undertaken by the State P. W. D. (Buildings and Roads) for the half year ending 30th September 1972. The quarterly returns on prices of building materials and wages of building labour pertaining to 14 divisions of the P.W.D. for the quarters ending 31st March 1973 and 30th June 1973 were also collected by the cell. The cell forwarded the above items of statistics to the co-ordinating cell in the Bureau of Economics and Statistics for scrutiny and re-transmission to the National Buildings Organisation, Government of India.

The Unit in the Directorate of Municipalities collected and consolidated quarterly returns relating to house construction activities of private builders coming within the purview of the Municipal towns. Apart from this, prices of building materials and wages of building labour from Shertallai, Alwaye and Tellicherry Municipalities for the 4 quarters (31st March 1973, 30th June 1973, 30th September 1973 and 31st December 1973) were also collected and forwarded to National Buildings Organisation.

The co-ordination cell in the Bureau of Economics and Statistics, scrutinised the data received from the other two cells and forwarded the same to the National Buildings Organisation. It collected quarterly returns (private sector) relating to building construction activities directly from the City Corporations of Trivandrum, Cochin and Calicut, consolidated the statements and forwarded them (along with a copy of the returns) to the National Buildings Organisation.

(ii) *Wage structure survey*.—The survey conducted on a random sampling basis, covers the rural and urban areas of the State. Four rounds of the survey were carried out in all the districts of the State during the year under report. Tabulation and consolidation of the data for the year 1972-73 was almost completed.

The staff pattern of the Housing and Wage Structure Survey section is as follows:—

A. DIRECTORATE OF THE BUREAU OF ECONOMICS AND STATISTICS

Assistant Director	..	1
Research Officer	..	1
Research Assistant	..	1
L. D. Compilers	..	2
Field Staff:		
L. D. Investigators	..	4
U. D. Investigator	..	1

B. CHIEF ENGINEER'S OFFICE

Research Officer	..	1
L. D. Compilers	..	4

C. DIRECTORATE OF MUNICIPALITIES

Research Assistant	..	1
L. D. Compilers	..	2

CHAPTER IV

OFFICIAL STATISTICS

1. Labour statistics

The following items of work were attended to in the labour statistics unit of this Bureau during the year under report.

(i) *Annual returns under the Factories Act, 1948.*—Data contained in the annual returns under the Factories Act, 1948 for the year 1971 (Calendar year) were processed and the various statements required by the Labour Bureau, Simla were prepared. The statements were sent to the Government of India. Annual report on the working of the Factories Act, 1948 in Kerala for the year 1971 was also prepared and sent to the Director, Labour Bureau, Simla.

(ii) *Half yearly returns under the Factories Act.*—For the half year ending 30th June 1972 were also processed and the statement on number of factories, average daily employment, mandays worked, etc. was prepared and sent to the Director, Labour Bureau, Simla.

(iii) *Annual returns under the Payment of Wages Act, 1936.*—The statements under the Act for the year 1971 were prepared and forwarded to the Director, Labour Bureau, Simla.

(iv) *Directory of Industrial Establishments in India.*—A Directory of Factories in Kerala registered under the Factories Act as on 31st December 1971 has been prepared alphabetically.

(v) *Maternity Benefit Act, 1961*.—Annual Statements I and II on the working of the Maternity Benefit Act for the year 1973 were prepared and sent to the Government of India.

(vi) *Quarterly returns under the Industrial Statistics (Labour) Rules, 1951*.—Returns relating to the Plantations for the 4 quarters of 1972 were processed and the statements required by the Government of India were prepared and sent to the Labour Bureau.

(vii) *Monthly returns on Industrial Disputes*.—Monthly returns on Industrial disputes resulting in work-stoppages for the various months of the year under report were also collected. The consolidated statements were sent regularly to the Labour Bureau, Simla.

2. Industrial statistics

The Industrial Statistics Unit of the Bureau is attending to the collection, tabulation and analysis of the statistical data pertaining to the Industrial establishments in the State on a continuing basis.

This unit is attending to the tabulation and analysis of the schedules on annual survey of industries canvassed by the National Sample Survey Organisation, Government of India from registered factories in the States and preparation of reports presenting district-wise and industry-wise data.

This unit is also in charge of a sample survey on un-registered industrial establishments in the rural areas of the State. A pilot survey on 'goods traffic in Kerala' and another pilot survey on 'distributive trade' were undertaken by this unit. The field work of these surveys were in progress during the year.

The tabulation work relating to the annual survey of Industries 1968 and 1969 was completed and the reports prepared. The tabulation work relating to 1970 was started.

The survey on unregistered industrial units in the rural sector as in the previous year was continued during the year under report also. The field work of 1973 round of the survey was completed in another set of 140 selected revenue villages during the reference period. The tabulation of the data collected through the 1972 and 1973 rounds was in progress during the year.

The final report relating to the survey on unregistered industrial establishments in the urban areas (Centrally sponsored scheme) was completed and forwarded to the Government of India during the year.

3. Mechanical Tabulation Unit

The Mechanical Tabulation Unit consisting of 40 col. machines and 80 col. machines were in existence during the year 1973-74 also. The units consist of the following data processing equipments and staff:—

Equipments:	Hand Punches	..	2 Nos.	40 col.
	Hand Verifiers	..	2 "	"
	Automatic Key punch	..	1 "	"
	Sorter	..	1 "	"
	Tabulator	..	1 "	"
	P. B. Punches	..	4 "	80 col.
	P. B. Verifiers	..	3 "	"
	Sorter	..	1 "	"
	Reproducer summary punch	..	1 "	"
	Tabulator	..	1 "	"
	Electronic Multiplier with pre-sensing	..	1 "	"
	Gang Punch	..	1 "	"
Staff:	Mechanical Tabulation Supervisors	..	2 "	"
	U. D. Operators	..	2 "	"
	L. D. Operators	..	14 "	"

The 40 col. Unit has undertaken the work of punching, verifying and tabulating data on vital statistics for the State. The tabulation of vital statistics data for the year 1971 was completed and tables presented. The suppliers of the machines, viz., The International Computers (India) P. Ltd., discontinued maintenance of the equipments with effect from 1st January 1974 for want of spares. The unit has thus served for two more years than the normal period of guarantee of 7 years. Though maintenance was withdrawn, the machines were utilised up to June 1974.

Vital statistics data for the year 1972 has been taken up for punching, verification and processing in the 80 col. machines in addition to National Sample Survey and other sample surveys during the year under reference. Cards in respect of 23rd round National Sample Survey 0.1 and 0.2 schedules and that of the 24th round schedule 2.4 were taken up and the work completed. All the tables in respect of 24th round National Sample Survey, schedule 16 were prepared and presented. The 80 col. unit is now attending the analysis of data on vital statistics, National Sample Survey and other sample surveys.

VITAL STATISTICS AND DEMOGRAPHIC RESEARCH CENTRE

1. Demographic Research Centre

The Demographic Research Centre in the Bureau of Economics and Statistics, Trivandrum was started in August 1958 for conducting investigation on fertility, family planning, mortality and migration.

The following items of work were undertaken by the Centre during the year under report.

A. STUDIES COMPLETED

(i) *On the effect of family planning programme on the birth rate in Kerala.*—This paper presents the impact of family planning programme on couples protected from pregnancy and on the extent of reduction in birth rate.

It is seen that nearly 20 per cent of the couples are currently protected by the three methods of family planning namely, sterilisation, I.U.C.D. and conventional contraceptives. The paper brings to light the reduction in birth rate from 38.9 per 1000 during 1951-60 to 31.8 in 1972, in Kerala due to family planning programme. The birth rate might be still lower if the increase in age at marriage, abortion etc., are also considered. While a reduction of 7 points has occurred in birth rate in Kerala due to family planning alone, the estimated all India reduction in the birth rate based on Sample Registration Scheme and also by calculating the births averted by family planning methods, has been 5 points only.

It is worthwhile to note that Kerala has achieved the goal of reduction of birth rate to 32 per 1000 by the end of the 4th Five Year Plan.

(ii) *A note on the calculation of births averted due to the family planning programme in Kerala.*—This note presents the methodology of calculating births averted due to the various methods of family planning programme in Kerala.

Following the model presented by Sri S. P. Jain in "Estimation of Population growth under Family Planning Programme" for India as a whole, but with parameters that are available for the population of Kerala, the actual calculation is explained in detail and the births averted over the years by each of the methods are worked out. The impact of the births averted till 1972, on the birth rates and the resulting population during each of the years, as also the impact on birth rate till 1980, assuming the fulfilment of the targets set out in the fifth plan, are also worked out and presented in the paper.

The total number of births averted, till the end of 1972, is estimated as 5.42 lakhs due to sterilisation, 1.27 lakhs by I.U.C.D. and 0.10 lakh by conventional contraceptives. Considering the effect of non-programme methods, the total number of births averted comes to 7.64 lakhs.

As a result of the births averted, the birth rate is estimated to have come down from 38.9 in 1951-60 to 31.8 per 1000 in 1972.

Calculation of births averted by the future family planning programme gives a birth rate of 24.6 for 1980, assuming that the Fifth Plan targets for the State are fully achieved. The Kerala is achieving the goal of reduction of birth rate to 32 by the end of the 4th Five Year Plan (1973-74) and to 25 two years after the end of the Fifth Plan.

(iii) *The characteristics of the population of Kerala and the impact of the Family Planning Programme in Kerala.*—The paper attempts, to trace the growth of population in the State, to analyse the changes in the distribution and characteristics of the population and to assess the impact of the family planning programme, as far as data permit.

The rates of growth of population in Kerala have always been higher than that of the Indian Union since 1901. The northern districts of Kerala show a much higher growth rate than the southern districts during 1961-71. When compared to All India and other States, Kerala has the highest density, the higher level of literacy and the excess of females over males in the total population. Alleppey district has the highest density of population in the State and highest literacy rate in the State. Trichur district has the highest sex-ratio. As per 1971 census, only 29.1 per cent of the population of Kerala are workers. A comparatively larger percentage of workers is reported under Agricultural labourers.

The birth and death rates of Kerala for 1970-71 are 30.9 and 9.2 respectively as per Sample Registration (Rural) estimates. The death rate of Kerala is the lowest among the Indian States. The expectation of life at birth has been raising in Kerala during the past decades. The expectation of life at birth for males has increased from 46.2 in 1951-60 to 60.6 years in 1971 and that of females from 50.0 in 1951-60 to 61.2 years in 1971.

This paper also presents in brief, the set up of the family planning programme, progress attained in its implementation and the demographic impact of achievements so far made. Sterilisation operations and the use of conventional contraceptives have considerably increased during the past few years. But the progress of I.U.C.D. insertions has shown a decreasing trend. It is estimated that 19.98 per cent of couples are currently protected by all methods of Family Planning. As 80 per cent of the couples are unprotected, redoubled efforts have to be made on the family planning front.

(iv) *A note on the trend in life expectancy in Kerala over the years.*—

This paper attempts to present the trends in life expectancy by considering the life tables constructed earlier for the decades from 1911-20 to 1951-60 and the life table constructed from the age specific death rates estimated from the Sample Registration Scheme for rural areas in Kerala 1971.

With the mortality levels in 1971, the expectation of life at birth for the total population works out to 60.86 years (60.57 years for males and 61.16 years for females). At age 5, the gain in expectation of life is the maximum, from 34 years in 1911-20 to 62 years in 1971 for males and from 35 years in 1911-20 to 64 years in 1971 for females. At the age of 60, the gain is from 7 years in 1911-20 to 16 years in 1971 for males and from 8 years in 1911-20 to 16 years in 1971 for females. Between the periods 1911-20 and 1921-30, the annual increases are higher for females except at the age 60 while between 1921-30 and 1931-40 the reverse is the case. During the two decades, 1931-40 to 1941-50 and 1941-50 to 1951-60 also the annual increases for females are higher except for the age 60. Between 1951-60 and 1971, the average increase for males at birth is nearly one year decreasing to a third of the year towards the end. The increases for males are higher than for females.

The population of Kerala, is tending to reach the final stage of demographic transition.

(v) *Trichur Mass Vasectomy Camp 1972—An Analysis.*—The study analysis (1) the demographic and socio-economic characteristics of the persons sterilised at the camp, (2) the cost of running the camp and (3) the demographic impact of the camp. It also gives an account of the rejected cases from among the people turned up for vasectomy at the camp.

20223 vasectomy operations were conducted at the camp as against a target of 15,000. 699 tubectomy operations were also done. 9.6 per cent of the total cases registered, were rejected due to various reasons. The higher incentive offered at the camp might have attracted them.

40.5 of the vasectomised persons belong to the broad age group of 30-39 years, while 49.4 per cent are below 40 years of age. The mean age of the vasectomised persons is 40.29 and that of their wives is 33.15. Of the sterilised males 71.6 per cent are Hindus, 21.6 per cent are Christians and 6.8 per cent are Muslims as against their percentages of 61.1 per cent, 25.2 per cent and 13.7 per cent respectively in the total population. 71 per cent of the vasectomised persons are below the level of primary education. Majority of the male acceptors belong to the low income category and agricultural labourers and unskilled workers. Among the vasectomised persons, 42.4 are having 3 or less than 3 children living of the tubectomy acceptors,

42.8 are having less than three children. The average expenditure per operations works out to Rs. 92. It is estimated that 53142 births would be prevented during the course of 23 years from 1973 onwards.

(vi) *Family Planning Festival at Cannanore (11th March 1972 to 10th April 1972).*—The study analyses the socio-economic and demographic characteristics of persons who accepted vasectomy at the camp.

15409 persons were sterilised at the camp. The median age of males who have undergone vasectomy operation in Cannanore camp is 40.25 years and that of their wives is 30.9 years. 52 per cent of the persons sterilised at the camp are above 40 years of age. 80 per cent of the wives of the sterilised males are in the age group of 25–39 years. Among sterilised persons Hindus are over represented, christians are fully represented and Muslims are under represented. Among the persons sterilised, 27 per cent are illiterate, 69 per cent are literate below matric standard and 4 per cent are above matric standard. 85 per cent of persons sterilised at the camp have a monthly income less than Rs. 100 per month. Majority of persons sterilised belong to cultivators, agricultural labourers and unskilled workers. The average number of children living to a sterilised person is 4.17 at the time of sterilisation. Among the sterilised persons, 6 per cent have no male children living and 9 per cent have no female children living at the time of sterilisations done in the camp in the course of the coming 23 years.

The following reports are under finalisation:—

- (i) Some characteristics of migrants in Kerala.
- (ii) Revised edition of Fact Book on population and Family Planning.
- (iii) Follow up Survey of persons sterilised at the Mass Vasectomy Camp at Trivandrum.

Further, the study of the demographic characteristics of sterilised persons and IUCD (1970–71), resurvey on attitude to Family Planning and follow up survey of persons sterilised at Mass Camp, Palghat are in progress.

D. PUBLICATIONS RELEASED FROM THE DEMOGRAPHIC RESEARCH CENTRE

- (i) On the effect of Family Planning Programme on the birth rate in Kerala.
- (ii) A note on the calculation of births averted due to the Family Planning Programme in Kerala.
- (iii) Growth and characteristics of population of Kerala and the impact of the Family Planning Programme.

- (iv) A note on the trend in life expectancy in Kerala over the years.
- (v) Trichur Mass Vasectomy Camp 1972—An Analysis.
- (vi) Family Planning Festival at Cannanore (11th March 1972 to 10th April 1972).
- (vii) Kerala Demographic News Letter [4/73, Vol. VII (1)].
- (viii) Kerala Demographic News Letter [10/73, Vol. XII (2)].

E. OTHER ACTIVITIES

Dr. R. S. Kurup, Deputy Director (Population) attended the All India Conference on Sample Registration held in New Delhi in August 1973 and also took part in the annual and Vth Plan discussions on Statistical Schemes and Family Planning in New Delhi in August 1973. He attended the State Family Planning Council meeting held in Trivandrum on 3rd February 1974.

Sri P. S. Gopinathan Nair, Assistant Director participated in the Seminar on Population Growth Targets, organised by the Committee for International Co-ordination of National Research in Demography (C.I.C.R.E.D.) held at Port of Spain, Trinidad and Tobago (West Indies) from 3rd April 1973 to 9th April 1973.

Sri G. Surendranathan Nair, Research Officer attended the Seminar on Family Planning Research Studies done in Southern Region held at Madurai under the auspices of the Gandhigram Institute of Rural Health and Family Planning, Madurai from 3rd to 5th January 1974.

The Officers of the Population Division are associated with the Orientation Training Course to Medical Officers at the Orientation Training Centre, Neyyattinkara. The Deputy Director gave lectures on Demography to the Post-graduate Students in Preventive Medicines in the Medical College, Trivandrum in September 1973. Dr. R. S. Kurup also spoke on demographic trends at the Regional Family Planning Training Centre, Calicut in July 1973.

2. Vital Statistics

(i) The Vital Statistics Unit of the Bureau continued to attend to collection, compilation, analysis and publication of reports of vital statistics of the State.

(ii) *Source of data.*—As per the Registration of Births and Deaths Act No. 18 of 1969, the Executive Officers of the Panchayats and the Corporation and Municipal Commissioners are the Registrars of Births and Deaths. They are attending to the work of registration of vital events and are sending the reports to this office for compilation, analysis and publication.

The Registrars of the Corporation and Municipality having population more than 30,000 have to send the returns to this office every week and the other registrars have to send the reports every month. For the smooth flow of returns to this office the department is availing itself of "The Service Unpaid System" of the Postal Department.

(iii) *Processing of data.*—The returns received in this office are coded and forwarded to the Mechanical Tabulation Unit for punching, sorting and tabulation.

The tabulated information are published in the form of Vital Statistics Bulletin.

The work relating to the preparation of V. S. Bulletin for the year 1971 was almost completed during the year under report.

(iv) *Periodical statements.*—The following are the out-going periodicals.—

1. Weekly statement of total number of births, maternal deaths and deaths due to communicable diseases relating to towns and cities having population more than 30,000.
2. Annual statement of births and deaths.

The periodicals are sent to the Director-General of Health Services, New Delhi, Registrar-General of India, Director of Health Services, Trivandrum and the Superintendent of Government Presses for publication in the Government Gazette.

(v) *Improvement of Vital Statistics.*—The following schemes for the improvement of Vital Statistics were continued during the year:

1. Sample Registration.
2. Model Registration in Rural Health Centres.
3. Strengthening of Vital Statistics organisation at Headquarters.
4. Mechanical Tabulation Unit at Headquarters.
5. Strengthening of District Statistical Offices.
6. Strengthening of Statistical Units in all Municipal and Corporation Offices and in Guruvayoor Township except the Municipalities of Punalur, Chalakkudy, Malappuram and Tirur where the staff for the Vital Statistics Work were not posted.

(vi) *Strengthening of District Statistical Offices.*—Under this scheme one Additional District Statistical Officer and one L.D. Compiler were posted in each District. They attend to the timely flow of returns to this office from the Primary Registration Centres. One of the important items of work of the Additional District Statistical Officer is to carry out effective spot checks in selected areas to spot out unregistered events and make arrangements to get them registered. Also the

Additional District Statistical Officer supervises the work of the statistical staff posted in the Corporations and Municipalities of the concerned district.

3. Improvement of Vital Statistics in Municipalities/ Corporations

As in the previous years, the scheme was in operation in the 3 Corporations and 25 Municipalities and in Guruvayoor Township during the year 1973-74 in order to improve the registration of vital events by conducting spot checks.

The State-level reports of this scheme for the years 1970 and 1971 are under preparation.

(i) *Model Registration.—Survey on cause of death.*—This scheme is implemented in 18 Primary Health Centres in the State, with a view to improve the cause of death statistics in rural areas. Under the scheme the cause of death is recorded by the para-medical staff working in the Primary Health Centre and the forms are forwarded to this department by the Medical Officer, after scrutiny. The forms are consolidated and monthly and half yearly reports are forwarded to the Registrar-General of India.

Sri N. Vikraman Nair, Research Officer, Vital Statistics Section of this Bureau was deputed to the Registrar-General's Office, New Delhi for training on survey of cause of death (Model Registration) during the period from 10th September 1973 to 15th September 1973.

(ii) *Medical certification of cause of death.*—The scheme envisages the collection of reliable cause of death statistics. It was in operation in Trivandrum, Cochin and Calicut Corporations and in the two major Municipalities viz. Quilon and Alleppey with population above one lakh. The scheme was working satisfactorily during the year under report.

The reports on 'cause of death' relating to Alleppey and Quilon Municipalities for the year 1972 are being finalised.

CHAPTER VI

ADMINISTRATIVE INTELLIGENCE

During the year under review, the Administrative Intelligence Unit of this Bureau continued to attend to the various items of work in respect of Community Development Blocks.

The data required in the prescribed forms are being furnished by the Junior Statistical Inspectors in the blocks to this office.

As usual, the State-level consolidation work relating to the quarterly progress report on Community Development Programme, Rural Works Programme, Applied Nutrition Programme, Local Development Works and Yuvak and Mahila Mandals Programme were attended to by the staff of the headquarters. Annual Progress Report Part I and Part II of the C.D. Programme and the Tribal Development Block, Attappady and quarterly review on Rural Works Programme were also prepared at the headquarters.

All the reports prepared at the headquarters were submitted to the State Government and Government of India.

CHAPTER VII

OTHER SAMPLE SURVEYS AND PILOT SURVEYS

1. National Sample Survey

(i) *Organisation.*—The National Sample Survey Organisation, Government of India, which came into existence in 1950, has been conducting sample surveys every year on a nation-wide basis to collect socio-economic data relating to different sectors of the economy of the country for planning and other administrative purposes. The National Sample Survey (N.S.S.) is a continuing multi-subject, integrated survey being conducted in the form of successive rounds, each round covering some topics of current interest. The State has been participating in the socio-economic part of the surveys on a matching basis. During the year 1973-74, the field work of the 27th round was completed and the operation of the 28th round taken up. The field work of the 28th round was started on 1st October 1973 and was scheduled to be completed by the end of June 1974. The survey covered the entire State.

(ii) *Subject coverage.*—For the Socio-economic enquiries, there were four household schedules. They were schedules for household consumer expenditure (Schedule 1·0), housing condition (Schedule 1·2), population, births, deaths, disability and morbidity (Schedule 12) and fertility, maternal and child-care and family planning (Schedule 14). Information on normal health facilities available to the households of sample villages were collected in the listing schedule in the rural sector only. Data on new buildings completed, new buildings under construction, additions and alternations and improvements in the existing dwellings, covering all types of buildings, viz. pucca, semi-pucca and kutcha were collected both in rural and in urban areas in this round.

through the respective listing schedules. Also, data on physically handicapped and mentally affected persons were collected through the respective listing schedules, both in rural and in urban areas. A list of schedules canvassed in the 28th round is given below:

<i>Sl. No.</i>	<i>Schedule No.</i>	<i>Description</i>	<i>Sector</i>
(1)	(2)	(3)	(4)
1	0·1	List of households	Rural
2	0·2	do.	Urban
3	1·0	Household consumer expenditure	Rural and Urban
4	1·2	Housing condition	do.
5	12	Population, births, deaths, disability and morbidity	do.
6	14	Fertility, maternal and child-care and family planning	do.

(iii) *Sample Design*—(a) *Rural*.—The sample design for the rural sector was a stratified two stage one in which the 1st stage units were census villages (1971 census) and they were selected with probability proportional to size. The State has been divided into 19 strata. The Second stage units were households. In all 360 villages were selected for the 28th round.

(b) *Urban*.—The design was a stratified two stage one in which the 1st stage units were urban blocks and the second stage units were households. A total of 144 blocks were selected for the 28th round of N.S.S.

(iv) *Field work*.—The field work was done by the Investigators specially posted for the work by interviewing the members of the selected household. Their work was supervised by the Statistical Inspector (N.S.S.) and Additional District Statistical Officers.

(v) *Tabulation*.—During the year, the tabulation of the data on 'Economic condition of the weaker sections' collected during the 25th round and the consumer expenditure data (19th round) was completed.

CHAPTER VIII

EVALUATION

1. Evaluation--General

Government in G.O. MS. No. 3/73/Plg. dated 17th January 1973, have accorded sanction for the shifting of the survey wing of the Evaluation Division in the State Planning Board of the Bureau of Economics and Statistics comprising the following staff :

<i>Designation</i>	<i>No. of posts</i>
Deputy Director	1
Research Officer	1
Research Assistant	1
U.D. Compilers	4
U.D. Investigators	9
L D. Compiler	1

In addition to the above, the entire staff sanctioned for the evaluation of Soil Conservation Survey viz. one Research Officer, one U.D. Compiler and 3 L.D. Compilers (posted in the State Planning Board on working arrangement) were also ordered to be shifted to the Bureau of Economics and Statistics. Accordingly the survey wing was shifted from the State Planning Board and continued to function during the year as part of the Bureau of Economics and Statistics from 30th March 1973.

Studies undertaken during the year 1973-74:

1. Survey on High Yielding Varieties of paddy (Virippu, Mundakan and Punja crops)
2. Minor Irrigation (Projects)
3. Minor Irrigation (Pumpsets)

The field enquiries and tabulation work on "Minor Irrigation Projects" were completed and the analytical data forwarded to the State Planning Board for drafting the report. The field work of the evaluation survey on Minor Irrigation (Pumpsets) was completed. The field survey on "the high yielding variety of paddy (Virippu crop)" was taken up and completed during the year. Analysis of the data collected was in progress.

Tabulation and analysis of the data collected in respect of evaluation of Small Industries and Industrial Co-operatives were also completed and the analytical data of the same were forwarded to the State Planning Board for drafting and releasing reports.

2. Evaluation of Soil Conservation Programmes in 1973-74

(i) The third round evaluation survey on the Kundah Project (Kerala portion) was commenced and completed during the year.

(ii) The Evaluation Studies (case studies) on Manaloorthazham scheme was taken up in Trichur District and the field enquiry was completed during the year.

The tabulation and analysis of the data collected through the field survey on the evaluation of soil conservation programme in the Hilly Agriculture land (1st and 2nd rounds) covering all the districts in the State in 1971 and 1972 were completed and furnished to the State Planning Board for further action.

The data gathered in connection with the evaluation studies conducted in 1971 and 1972 on the Soil Conservation works carried out in the two sub catchment of Kunda Project (Kerala portion) were completed and the analytical data forwarded to the State Planning Board for drafting and releasing of reports.

CHAPTER IX

PUBLICATION AND CO-ORDINATION

During the year under report the Publication and Co-ordination Division prepared the State Statistical Hand Book 1972 and sent for printing. The work relating to the preparation of the State Statistical Abstract 1973 was also initiated during the period. A publication called Rates and Ratios was completed and sent to the press for printing.

District Statistical Hand Books of Trivandrum, Trichur, Palghat, Kozhikode and Cannanore were prepared and sent for printing.

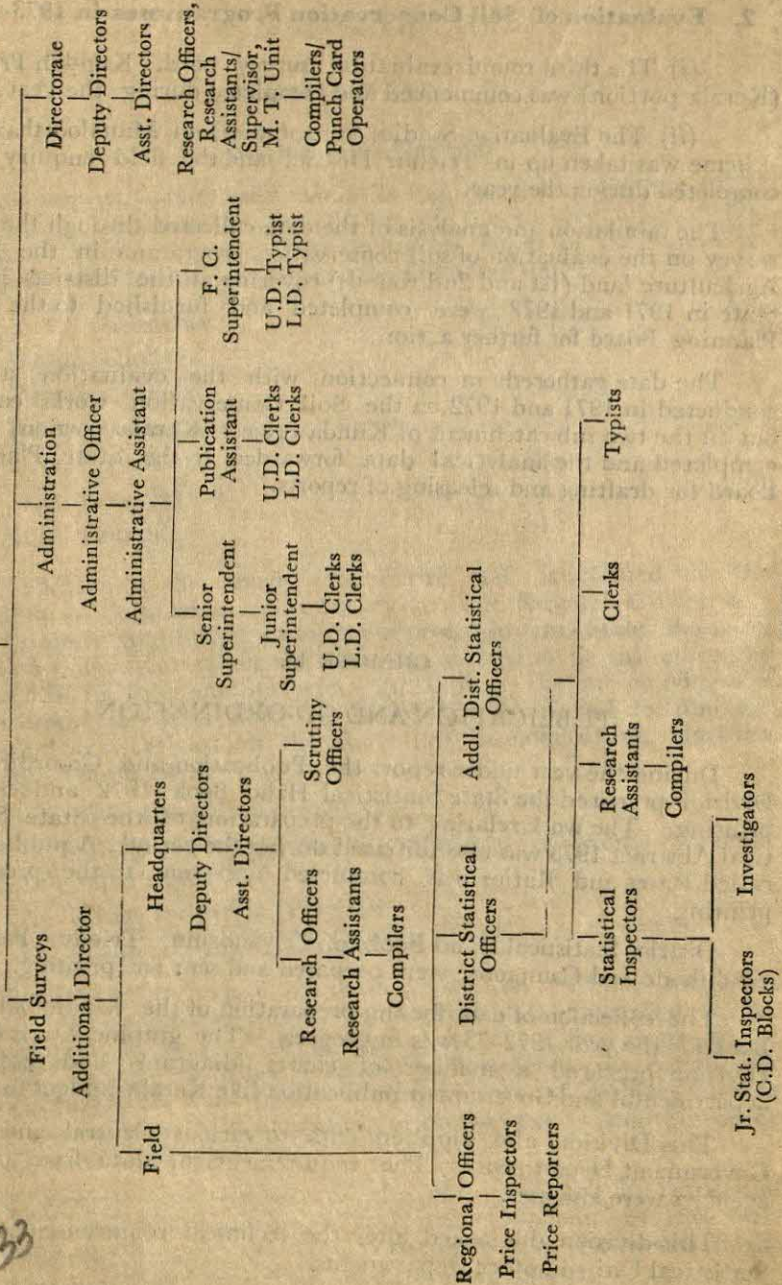
The collection of data for the preparation of the Municipal Year Book for the year 1972-73 was in progress. The graphical unit of this Division prepared a number of charts, diagrams and maps for departmental and Government publication like Kerala Budget in brief.

This Division also supplied data to various Central and State Government Departments. The requirements of data from outside agencies were also met.

This division also looked after the technical requirements of the Statistical Units in other Departments.

ORGANISATION CHART OF THE BUREAU OF ECONOMICS AND STATISTICS, KERALA

Director



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ME OF AGENTS—[Continued from outer cover]

45. P. Radhakrishna Pillai, Sivavilasom, Kizhakkekara, Kottarakara.
46. Vidyarambham Press and Book Depot (P) Ltd., Mullakkal, Alleppey.
47. K. S. Kumara Pillai, Sreekumar Stores, Nedumangad.
48. E. K. John, Stamp Vendor, C/o Popular Trading Co., Kottayam.
49. The Mahatma Press, Palace Road, Trichur.
50. P. K. Chacko, Proprietor, Peekaycee Trades, Kottayam.
51. Janatha Book Stall, Near P.M.G.'s Office, Trivandrum.
52. The Secretary, Govt. Servants Co-operative Society Ltd. No. A-208, Alleppey.
53. The Manager, St. Thomas Press, Palai.
54. The National Stores, Cannanore.
55. N. Chellappan Pillai, Narayana Press and Book Stall, Attingal.
56. K. Kunhambu, Bharath Printing Press, Kanhangad (P.O.), Cannanore.
57. Koshy P. John, Vidyarthi Mithran Press and Book Depot, Kottayam.
58. Y. Habeebulla, Proprietor, New Book Centre, Near Collectorate, Quilon-9.
59. Vijayakumar Jain, Prabhu Book Service, Gurgoan, Hariyana.
60. Haji Abdul Rahiman Sait, Merchant, Kesavadasapuram, Trivandrum-4.
61. M. Balan, Manager, City Book Stall, R. S. Road, Ottappalam.
62. K. Kunjiraman, Manager, Jaya Stores, Vazhuthacaud, Trivandrum.
63. P. N. Narayana Pillai, M. N. Printers, Adoor.
64. S. Krishna Iyer, Proprietor, Sree Saraswathy Stores, Thycaud, Trivandrum.
65. V. M. Noohu, Book Sellers, Ansari Book Stall, Nilamel.
66. A. Narayanan Potti, Book Seller, Near Civil Station, Quilon-9.
67. G. Prabhakaran Nair, Manager, Premier Book House, Moovattupuzha.
68. Manager, Desabhimani Book House, M. G. Road, Trivandrum-1.
69. Varikolil P. Madhavan Pillai, Jai Hind Books and Office Stationery, Market Junction, Kottarakara.
70. K. V. Devassy, Manager, Perinthalmanna Printing Works, Perinthalmanna.
71. K. Bhaskara Pillai, Prahla Book Depot, Atingal P.O.
72. K. A. George, Proprietor, Students Stores, 74/XII Sub Jail Road, Alwaye.
73. V. K. N. Pillai, Polayil Veedu, Manayilkulangara, Quilon-12.
74. V. Gopinathan Nair, Book Seller, Kacheri Junction, Nedumangad.
75. Smt. A. Poornambal, Proprietor, Bhagya Enterprises, M. G. Road. Trivandrum.
76. K. J. Cheriyan, Manager, Victory Book House, Moovattupuzha.
77. M. C. Cheriyan, M. C. C. Book Depot, Chengannur.
78. M/s Radha Stores, Shoranur.
79. A. T. A. Mustafa, Mustafa Book Company, P.O. Payangad, Cannanore, District.
80. S. M. C. Babu, Babu Brothers Book Depot, Alwaye-1.
81. P. C. Cheriyan, St. Mary's Press and Book Depot, Changanacherry-1.
82. R. Radhakrishnan Nair, Proprietor, Modern Books, Near Boat Jetty Road, Quilon.
83. Smt. K. Thankamma, Contractor of K. G.'s Book Stall, Kottayam.
84. M. A. Joseph, Proprietor, House of Knowledge Publishers and Book Sellers, Round South, Trichur.
85. V. Krishna Iyer, Retired R.T.O., T.C. 18/261, Valiachala, Trivandrum.
86. C. I. Varghese, son of Chalissery Ittiachan, Central Book Stall, Palace Road, Trichur.
87. M/s New Ladies Fancy Centre, Mannarghat.

NAME OF AGENTS APPOINTED FOR THE SALE OF
GOVERNMENT PUBLICATIONS IN THE KERALA STATE

1. J. S. Paul and Sons, Cannanore.
2. G. Vital Prabhu, News Agent, Manjeswar.
3. K. R. Brothers, Calicut.
4. Moulavi Book Depot, Kasargode.
5. Kottayi Gopalan, Tellicherry.
6. Touring Book Stall, Calicut.
7. K. P. Ahmed Kunhi and Bros., Cannanore.
8. Pallipat Stores, Irinjalakuda.
9. St. Joseph's Press, Perinthalmanna.
10. George Press, Ottapalam.
11. Travancore Law House, Ernakulam.
12. P. K. Brothers, Calicut.
13. C. P. Savankutty Keyi, Vidyodayam Pook Stall, Tellicherry.
14. M. V. John, Law Book Seller, Near Civil Courts, Tellicherry.
15. Manager, Higginbothams (Private) Ltd., Trivandrum.
16. Current Books, Publishers and Book Sellers, Trichur.
17. Educational Supplies, Book Sellers, Publishers and Printers, Palghat.
18. H. and C. Stores, Dealers in Books, Kunnankulam.
19. Manager, Reddiar Press and Book Depot, Trivandrum.
20. K. Parameswaran Pillai, Stamp Vendor, Pulimood, Trivandrum.
21. Educational Supplies Depot, Trivandrum.
22. Jayachandran Book Depot, Chalai, Trivandrum.
23. S. Subramonia Iyer, Book Seller and Stamp Vendor, Kazhakoottam.
24. S. Krishna Iyer, Stamp Vendor, Ayurveda College view, Trivandrum.
25. N. Parameswaran Pillai, Alummoodu Veedu, Stamp Vendor, Kottarakara.
26. N. Neelakanta Iyer, Stamp Vendor, Padmavilasom Street, Fort, Trivandrum.
27. The Manager, K. V. Press and Book Depot, Main Road, Attingal.
28. K. Bhaskaran Nair, News Agent, Trivandrum.
29. The Proprietor, Kerala Book House, Cranganore.
30. K. K. Raghava Menon, Popular Book Depot, Cranganore.
31. C. M. Book Stall, Publishers, Parayil, Kunnankulam.
32. A. Jose, Proprietor, S. V. Press and Book Depot, Neyyattinkara.
33. N. Paramanandam, Proprietor, Ambika Press and Book Depot, Neyyattinkara.
34. The New Order Book Company, Ellis Bridge, Ahmedabad.
35. Pai and Company, Broadway, Ernakulam-1.
36. S. Hariharakrishna Iyer, Vinayaka Book Stall, Pazhavangadi, Trivandrum.
37. K. P. Gopalan, Swaraj Book Stall, Court Road, Quilandy.
38. Ambat Sekhara Menon, Proprietor, Menon Stores, Chittur-Cochin.
39. M. I. Abraham, News Agent and Book Seller, Punalur P. O.
40. K. G. Thomas, K. V. Book Depot, Chengannur.
41. C. L. Joseph, The National Stores, Thana, Irinjalakuda.
42. N. Krishnamoorthy, Merchant, Mananthoddy.
43. T. I. Joseph and Sons, Prakasam Press and Book Depot, Irinjalakuda.
44. The Proprietor, Pulikottil Publishing House, High Road, Trichur.

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