

3925



**ADMINISTRATION REPORT
OF THE
STATISTICS DEPARTMENT**

FOR THE YEAR 1960-61

PRINTED BY THE S. G. P. AT THE GOVERNMENT PRESS,
ERNAKULAM—1962



THE EMERALD COAST

EMERALD COAST

EMERALD COAST

3925

ADMINISTRATION REPORT
OF THE
STATISTICS DEPARTMENT
FOR THE YEAR 1960-61

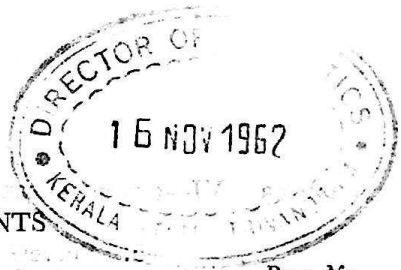
ADMINISTRATIVE REPORT
OF THE
STATISTICS DEPARTMENT

FOR THE YEAR 1961



Government of Kerala

1962



CONTENTS

		<i>Page No.</i>
CHAPTER	I—ADMINISTRATION	1
	II—AGRICULTURAL STATISTICS	
	1. Land Utilisation Survey ..	5
	2. Crop-cutting Survey ..	7
	3. Cultivable Waste Lands Survey ..	8
	4. Other Agricultural Statistics ..	12
	5. National Index of Field Experiments ..	15
	III—ECONOMIC STATISTICS	
	1. Prices Statistics ..	16
	2. Index Number Series relating to Agricultural Economy ..	26
	3. Planning Statistics ..	28
	4. National Income Unit ..	28
	5. Trade Statistics ..	28
	IV—OFFICIAL STATISTICS	
	1. Labour Statistics ..	39
	2. Industrial Statistics and Plantation Statistics ..	46
	3. Educational Statistics ..	50
	4. Statistics relating to Transfer of Agricultural land ..	51
	5. P. W. D. Statistics ..	55
	V—VITAL STATISTICS AND DEMOGRAPHIC RESEARCH	
	1. Vital Statistics ..	58
	2. Demographic Research ..	61
	I—OTHER SAMPLE SURVEYS AND PILOT ENQUIRIES	
	1. National Sample Survey ..	67
	2. Fixed Point Fixed Time Survey ..	68
	3. Sample Survey for the Correct Estimation of area under and yield of coconuts and arecanuts in the State. ..	69
	4. Survey for the Enquiry into the Cost of Cultivation of Coconuts ..	69

CHAPTER VI—OTHER SAMPLE SURVEYS AND PILOT ENQUIRIES	
	—(cont.)
5. Surveys sponsored by the Indian Council of Agricultural Research ..	70
6. Pilot Sample Survey of registrants at the Employment Exchange, Trivandrum ..	71
7. Pilot Survey on Banana Crop ..	71
8. Pilot Investigation on Cardamom cultivation ..	71
VII—FIVE-YEAR PLAN SCHEMES OF STATISTICS	
DEPARTMENT ..	72
VIII—PUBLICATIONS ..	73
APPENDIX—GRAPHS 1-14 ..	79-107



PLANNING (C) DEPARTMENT

No. G.O. (Rt.) 50/62/Plg., dated 8th February 1962

Abstract.—Statistics Department—Administration Report for 1960-61
—Reviewed.

Read:—Letter No. MI-13357/61/SD, dated 30th November 1961
from the Director of Statistics.

ORDER

1. Recorded.
2. The Department of Statistics continued to be the Central Agency for the systematic collection, compilation, analysis and objective interpretation of all statistics relating to the State.
3. The Head of the Department is the Director of Statistics. Sri N. Gopalakrishnan Nair, Assistant Director was in additional charge of the post of Director of Statistics till 20th June 1960 afternoon. From 21st June 1960 forenoon to 3rd January 1961 afternoon Sri K. C. Cheriyan, Assistant Director was in additional charge of the post. From 4th January 1961 forenoon Sri N. Gopalakrishnan Nair was again in additional charge of the post of the Director.
4. The Director of Statistics was assisted by the Assistant Directors, Research Officers, Analysts and Compilers in the office and by the District Statistical Officers, Statistical Inspectors and Investigators in the field. The expenditure of the Department on various schemes of statistical studies during the year 1960-61 amounted to Rs. 9,48,403.
5. The Land Utilisation Survey started during the previous year was continued during the year under review. As in the previous year the service of the village revenue staff was utilised though the collection of data was done independently by both branches.
6. As in the previous year separate random sample crop-cutting survey experiments were conducted on the Autumn (Kanni), Winter (Kumbhom) and Summer (Punja) crops of paddy with the purpose of estimating the average yield per acre and the total out-turn of rice during each season. Reports on the 1960 crops were published.
7. Two rounds of a survey to estimate the extent of farm land converted for non-agricultural purpose during the years 1958-59 were conducted. The analysis of the data obtained from the first round was completed. Reports on the 1960 crops were issued during the year under review.
8. The survey on cultivable waste lands started in 1955-56 was continued during the period. Report on the analysis of the data collected from 15 taluks was published.

9. Tables of Agricultural Statistics for 1957-58 and 1958-59 were prepared. Season and crop report for the years 1957-58 and 1958-59 in one volume was prepared during the year. The Department continued to prepare the forecast reports on the area and production of 25 important crops. Statements giving daily, monthly and annual rain-fall were also prepared and sent to the departments concerned. The Department also attended to the various items of work connected with the visit of the Three Man Committee on crop and livestock estimates.

10. The Scheme "National Index of Field Experiments" started in 1959 was continued during the year under report as a Plan Scheme of the Department. Seventy field experiments conducted during 1959-60 and 11 experiments conducted during 1960-61 were analysed and reported.

11. The Department continued to collect, compile and publish the price statistics of important commodities in the State. Wholesale prices of about 21 agricultural commodities were collected from 39 centres. Weekly retail prices of necessaries were collected from 41 centres. The data collected were regularly published in the Gazette and were also used in the construction of consumer price index numbers.

12. As in the previous year monthly working class consumer price index numbers for 12 important centres were published. In addition to it, computation of the index numbers for Shertalai was started in May 1960.

13. The Statistical Cell continued to function. Main items attended to by it were—

(1) Progress report on Plan Schemes for the first quarter of 1960-61.

(2) Annual progress report on Plan Schemes for 1959-60.

(3) Progress report on Plan Schemes of the Statistics Department for the first nine months of 1960-61.

(4) Monthly and quarterly progress reports on the Plan Schemes of the Statistics Department.

14. The National Income Unit continued to function. The provisional estimates of State Income for the years 1955-56 to 1957-58 were published during the year. Statistical data of exports from and import into the State through ports and railways were continued to be collected and compiled. The Department also collected data on the Inter-State movements of goods by road through the check posts maintained by the Sales Tax Department on the frontiers of the State.

15. The Department continued to function as the co-ordinating agency for the collection of statistics under the Industrial Statistics (Labour) Rules from registered factories within the purview of the Factories Act 1948 and also for Plantations as defined in the Plantation Labour Act 1951. 2,188 Factories registered under the Factories Act

were working in the State during the half year ending 30th June 1960. The average daily employment in the 1,116 working Factories which submitted returns was 80,310, while the estimated employment for the 1,072 Factories which did not submit returns was 72,601.

16. Nine hundred and fifty-three Factories employing 83,247 persons submitted annual returns under the Payment of Wages Act for the year 1959. A total gross wages of Rs. 5,93,21,328 was paid to the above workers during that year.

17. At the end of the year there were 1,663 Trade Unions of which about 53 per cent submitted annual returns. They had an income of about Rs. 10.59 lakhs during the year and the expenditure was Rs. 9.88 lakhs. During 1959, 402 accidents were reported from the establishments covered by the Workmen's Compensation Act, and Rs. 31,543 was given as compensation to the workers. In 1959 under the Maternity Benefit Act, 9,417 women workers in the Factories and 8,958 women workers in the Plantations claimed maternity benefits. Of the above 17,654 claims were accepted and an amount of Rs. 11,41,200 were given as maternity benefit during the year.

18. The work of collecting and consolidating Industrial and Plantation Statistics were continued to be attended to by the Department. Technical details of the Schemes for the Improvement of Plantation Statistics and for a study for framing norms for assessment of future man-power requirement in the Industrial Sector were finalised.

19. The Department collected and consolidated the statistics of all the educational institutions in Kerala (except those under the University) for the year 1958-59. Statistical data regarding the transfers of agricultural land registered in the various Sub-Registry Offices were continued to be collected. Analysis of the data for 1959 was done and it was found that altogether 3,12,225 deeds pertaining to transfer of agricultural land were registered in the State. During the year under review 20 per cent sample was selected on a systematic basis for detailed analysis. The Department continued to attend to the collection and compilation of statistics relating to road mileage and expenditure. The data for 1959-60 were collected and furnished to the Government of India.

20. The Department was responsible for the compilation, analysis and publication of vital statistics in the State.

21. The following are the more important publications brought out by the Department during the year under review :—

- (1) The Annual Statistical Abstract.
- (2) Quarterly Bulletin of Statistics.
- (3) Statistical Outline of Kerala 1960.
- (4) Kerala in Maps 1960.

22. The Department also conducted Several Sample Surveys and Pilot Surveys sponsored by the Government of India, the I.C.C.G., I.C.A.R., etc.

23. On the whole the working of the Department during the year under review was fruitful and satisfactory.

(By order of the Governor)

PADMA RAMACHANDRAN,

Deputy Secretary

To

The Superintendent, Government, Presses (with copy of the Administration Report for printing).

The Director of Statistics,

The Public (Administration Report) Department.

ADMINISTRATION REPORT OF THE STATISTICS DEPARTMENT FOR THE YEAR 1960-61

CHAPTER I—ADMINISTRATION

I. Introductory

The Department is the Central Agency in the State for the systematic collection, compilation, analysis and objective interpretation of all Statistics relating to the State.

The Head of the Department is the Director of Statistics. The Director has under him on the technical side Assistant Directors, Research Officers, Analysts and Compilers. In Office Administration he is assisted by the Personal Assistant to the Director of Statistics, Superintendents and staff consisting of Clerks, Accountants and Typists. The field organisation consists of the District Statistical Officers, Special Officers, Statistical Inspectors and Investigators.

II. Personnel

1. *Director of Statistics.*—Shri N. Gopalakrishnan Nair, Assistant Director was in charge of the post of Director of Statistics till 20th June, 1960 Afternoon. From 21st June 1960 forenoon to 3rd January 1961 afternoon Shri K. C. Cheriyan, Assistant Director was in additional charge of the post. From 4th January 1961 forenoon Shri N. Gopalakrishnan Nair was in full charge of the post of Director of Statistics and he continued as such during the year under report.

2. *Assistant Directors.*—Sarvasree N. Gopalakrishnan Nair, K. C. Cheriyan, P. P. Philipose and R. Sivasankara Kurup continued as Assistant Directors throughout the period under report. Shri K. C. Cheriyan, Assistant Director returned from training in France on the forenoon of 9th June, 1960 after completing an eight months' training course in General Planning and Planning Administration with special reference to Perspective Planning.

Shri M. S. Venkitaraman, Assistant Director was officiating as Assistant Director of Statistics during the year under report except for the period from 7th December 1960 to 1st January 1961, when he was reverted to the cadre of District Statistical Officer for want of vacancy. Shri Venkitaraman continued to be on Foreign Service as Statistician in the Indian Central Coconut Committee, Ernakulam throughout the year under report.

Shri N. Karunakara Menon was officiating in the other duty vacancy of Shri M. S. Venkitaraman. Shri N. Karunakara Menon was officiating as Assistant Director up to 6th December 1960 afternoon, when he was reverted for want of vacancy. He was holding the post of Special Officer for the Survey of Cost of Cultivation of Coconuts and this post was included in the cadre of District Statistical Officers.

From 2nd January 1961 he was promoted to the post of Assistant Director of Statistics in the post sanctioned for the Scheme 'Pilot Investigation for Collection of Statistical Data on Yield and Extent of Cardamom' and he continued as such for the rest of the period.

Shri G. Kuttappan Pillai, District Statistical Officer, Quilon, was promoted as Assistant Director with effect from 18th February 1961 forenoon and he continued as such during the remaining period of the year.

3. *Personal Assistant to the Director of Statistics.*—Shri S. Bhagavatheeswara Iyer continued as Personal Assistant to the Director of Statistics throughout the period.

4. *Research Officers.*—Shri T. Kuruvilla Mathen who was deputed for training in Medical Statistics in All-India Institute of Hygiene and Public Health, Calcutta, assumed charge of the post after his return from the training on 6th December 1960. Sarvasree P. C. Kurian, K. A. George, B. Thrivikraman Pillai, V. Sankaranarayanan Potti, K. Rama Varma, N. George John and K. Eswarankutty continued as Research Officers during the period under report.

Shri T. R. Thankappan Achari was on deputation as Economist-cum-Statistician in the Indo-Norwegian Project, Neendakara and Shri K. Narayanan Nair continued as Research Officer in the Bureau of Economic Studies, Trivandrum.

5. *District Administration.*—The following officers were in charge of the District Statistical Offices during the period noted against each:—

Serial No.	Name of District	Name of the District Statistical Officer	Period of charge during the year under report	
			From	To
1	Trivandrum	Shri S. Cecil	1-4-1960	31-3-1961
2	Quilon	.. C. R. Gopinathan Nair	1-4-1960	27-9-1960 A.N.
		.. G. Kuttappan Pillai	27-9-1960 A.N.	17-2-1961 "
		.. G. Sreedharan Nair	17-2-1961 "	31-3-1961 "
3	Kottayam	.. G. Kuttappan Pillai	1-4-1960	9-6-1960
		.. N. Krishna Pillai	10-6-1960	24-7-1960
		.. G. Kuttappan Pillai	25-7-1960	27-9-1960 A.N.
		.. K. N. Gopala Panicker	27-9-1960	31-3-1961
4	Alleppey	.. K. Balakumaran Nair	1-4-1960	31-3-1961
5	Ernakulam	.. N. Krishna Pillai	1-4-1960	9-6-1960
		.. G. Velayudhan Thampi	10-6-1960	31-3-1961
6	Trichur	.. R. Gopalakrishnan Nair	1-4-1960	31-3-1961
7	Palghat	.. K. Ramanarayanan Nair	1-4-1960	1-5-1960
		.. R. Gopalakrishnan Nair, District Statistical Officer, Trichur (additional charge)		
		.. K. Mailerumperumal Pillai	2-5-1960	6-5-1960
			7-5-1960	31-3-1961

Serial No.	Name of District	Name of the District Statistical Officer	Period of charge during the year under report	
			From	To
8	Kozhikode	Shri G. Velayudhan Thampi ..	1-4-1960	10-4-1960
		„ K. N. Gopala Panicker, District Statistical Officer, Cannanore (additional charge) ..	11-4-1960	10-6-1960
		„ K. Ramanarayanan Nair ..	11-6-1960	31-3-1961
9	Cannanore	„ K. N. Gopala Panicker ..	1-4-1960	13-7-1960
		„ P. K. Ramakrishnan Nair, Statistical Inspector (additional charge) ..	14-7-1960	24-7-1960
		„ N. Krishna Pillai ..	25-7-1960	5-1-1961 F.N.
		„ P. S. Gopinathan Nair ..	5-1-1961 F.N.	31-3-1961 „

Shri K. Mailerumperumal Pillai, District Statistical Officer, Trivandrum who was deputed for the Statistical Officers' Training Course for six months from 14th September 1959 returned after the training on 14th March 1960 and proceeded on leave till 6th May 1960. He was posted as District Statistical Officer, Palghat on 7th May 1960.

Shri P. Sankunny Nair, Special Officer for enquiry into Cost of Cultivation of Cocoanuts was deputed as Statistical Officer, Dairy Survey Scheme in the Co-operative Department with effect from 6th December 1960 afternoon.

Shri N. Krishna Pillai, District Statistical Officer was appointed to the post of Special Officer for collection of Statistical Data on the Yield and Extent of Cardamom Cultivation with effect from 6th January 1961.

Shri P. Achuthan Nair was promoted and posted as Special Officer for the Scheme for 'Enquiry into Cost of Cultivation of Cocoanuts' with effect from 2nd January 1961 forenoon.

Shri P. S. Gopinathan Nair was promoted and posted as District Statistical Officer, Cannanore from 5th January 1961.

Shri G. Sreedharan Nair was promoted and posted as District Statistical Officer, Quilon from 17th February 1961 afternoon.

6. Sanctioned strength of the Department as on 31st March 1961 was as follows:—

	Rs.		
Director of Statistics ..	500—800	1	
Assistant Directors ..	250—550	5	
Personal Assistant to Director ..	200—400	1	Permanent.
Research Officers ..	200—400	8	
District Statistical Officers ..	200—400	9	
Special Officers ..	200—400	2	
Analysts ..	150—250	31	
Statistical Inspectors ..	150—250	47	29 posts permanent.

	Rs.		
Supervisor, Mechanical Tabulation Unit ..	150—250	1	
Superintendents ..	150—250	3	
Fair Copy Superintendent ..	125—225	1	
Upper Division Clerks ..	80—180	6	One post permanent.
Upper Division Compilers ..	80—180	18	
Upper Division Investigators ..	80—180	45	
Upper Division Typists ..	80—180	3	
Lower Division Clerks and Accountants ..	40—120	21	
Lower Division Compilers ..	40—120	137	
Lower Division Investigators ..	40—120	230	17 posts permanent.
Lower Division Typists ..	40—120	17	
Typist-cum-Clerks ..	40—120	2	
Punch Card Operators ..	40—120	7	
Draftsmen ..	50—150	3	
Duffadar ..	35—45	1	
Peons ..	30—40	25	Two posts permanent.

III. General

The following officers were deputed for the various training courses:—

(i) Shri P. P. Philipose, Assistant Director was deputed for the Senior Statistical Officers' Training Course at the Central Statistical Organisation, Government of India, New Delhi for the period from 26th October 1960 to 22nd November 1960.

(ii) Shri C. R. Gopinathan Nair was deputed to the Statistical Officers' Training Course jointly organised by the Central Statistical Organisation, New Delhi and Indian Statistical Institute, Calcutta. The training was for a period of 9 months from 27th September 1960. He specialised in the subject 'National Income and Regional Income Estimation'.

(iii) Sarvasree R. Sivasankara Kurup, Assistant Director and B. Thirvikraman Pillai, Research Officer were allowed to conduct a study tour from 11th February 1961 to 28th March 1961. They conducted on the spot study of the working of Demographic Research and Training Centres at Bombay, Delhi and Calcutta.

The expenditure of the Department under different Schemes for the year was as follows:

Total Rs.	Regular staff (Statistical Bureau) Rs.	For work on the lines of National Sample Survey Rs.	Five-Year Plan Schemes Rs.	Non-Plan Schemes fully financed by ICCC, ICAC, ICAR, etc. Rs.
9,48,403	4,18,088	66,390	3,17,203	1,46,722

CHAPTER II—AGRICULTURAL STATISTICS

I. Land Utilisation

Kerala, being a non-reporting area, has to depend on sample surveys for data relating to area under different crops in the State. But, due to the heterogeneous nature of cultivation and the extreme diversity of the crop pattern in the State, sample surveys will yield reliable estimates only if the sample size is considerably large. As in the previous year, the service of the Village Revenue Staff was utilised during the year under review also. The collection of data by the Village Officers and by the Investigators of this Department was done independently. For the sake of identification of the two surveys they were referred to as 'Survey by Village Officers' and 'Departmental Survey'.

The object of the survey was to get estimates of the area under different land uses and crops in the State and also to collect ancillary information on certain cultivation practices. As in the previous year, the survey was conducted in three rounds spread over the three seasons, viz., (1) from June to September (for Autumn crops), (2) from October to January (for Winter crops) and (3) from February to May (for Summer crops). The sampling design for the survey remained the same as for the previous year only for the first round of the survey during 1960-61, viz., from June to September 1960. From the second round (from October 1960 to January 1961) onwards some changes were effected in the sampling design of the survey. The changed design of the survey is given below:—

1. Survey by the Village Officers:

This survey was conducted only in the first two rounds, viz., from June to September and from October to January. For the third round of Land Utilisation Survey, viz., from February to June there was no Village Officers' Survey. The survey was conducted in all the villages, detailed enumeration being conducted in the selected clusters in each village. Sample size, sample selection, etc., of clusters were as given below:

(i) *Travancore-Cochin Area (Trivandrum, Quilon, Alleppey, Kottayam, Ernakulam and Trichur Districts).*—Villages in Travancore-Cochin Area were grouped into two categories according to the area, the first category consisting of those villages which have an area less than or equal to 5,000 acres and the second category consisting of villages which have an area more than 5,000 acres. In the villages belonging to the first category, 10 different and non-overlapping clusters of plots (a cluster consisting of 10 plots) were selected for detailed enumeration. From the second category of villages 8 different and non-overlapping clusters of plots were selected. The selection was by simple random sampling.

(ii) *Malabar Area (Palghat, Kozhikode and Cannanore Districts).*—For the Revenue Villages in these Districts, there was no stratification of villages based on area. From all the villages 6 different and

non-overlapping clusters of plots were selected by simple random sampling for detailed enumeration.

The sample selection for the above survey was done by the field staff of this Department and the details of the selected plots were forwarded to the concerned village officers. The actual enumeration in the selected plots was done by the Village Officers and the results recorded in the schedule prescribed for them.

2. Departmental Survey :

Details of sample size, sample selection, etc., for the survey were as follows:

In each taluk a sample of 10 different villages was selected with probability proportional to the area of the villages. If in a taluk the number of villages was less than ten, then the survey was conducted in all the villages of that taluk.

The sample size of clusters to be selected from each of the selected villages was the same as that for the Village Officers' Survey.

In the first two rounds of the survey when there used to be the Village Officers' Survey the total sample size of clusters in each of the selected villages was divided into two halves as Sample I and Sample II. Sample I was a sub-sample of the clusters selected for the survey by Village Officers. For this the clusters of plots were selected by simple random sampling method from the list of clusters selected for Village Officers' Survey for that particular village. Sample II was an independent sample selected from the general sampling frame by simple random sampling subject to the condition that none of the plots selected for Village Officers' Survey should appear in this sample. For the third round of survey (from February to June) when there was no Village Officers' Survey, all the clusters were selected by simple random sampling from the general sampling frame.

In actual field work of the Departmental survey 537 villages were selected during each round. Details of the number of plots actually enumerated during each round of the survey are given below :

<i>Serial No.</i>	<i>Round of Survey</i>	<i>No. of plots enumerated</i>
1.	June 1960 to September 1960	.. 32,770
2.	October 1960 to January 1961	.. 41,455
3.	February 1961 to May 1961	.. 37,785
	Total	.. <u>112,010</u>

In respect of the Village Officers' Survey, the Department has been experiencing difficulty in getting the filled-in-schedules from all the villages. This is borne out by the percentage of villages from which filled-in-schedules in respect of Village Officers' Survey have been

received from the various districts during each round of the survey given in the following table:—

Survey by the Village Officers

Serial Number	District	Percentage of villages from which schedules have been forwarded	
		June 1960— September 1960	October 1960— January 1961
1	Trivandrum ..	19.57	..
2	Quilon ..	14.14	1.01
3	Alleppey ..	52.48	20.79
4	Kottayam ..	24.24	24.24
5	Ernakulam ..	69.03	20.35
6	Trichur ..	37.39	10.16
	Palghat ..	40.39	28.15
	Kozhikode ..	52.25	42.34
9	Cannanore ..	49.60	42.40

The analysis work of the data collected for the year 1959-60 was completed during the year under review. The results obtained are being utilised for preparing the Agricultural Statistical Returns relating to this State. The figures obtained as the results of the survey may be seen in the chapter relating to 'Other Agriculture Statistics' in this volume.

II. Crop Cutting Survey

Separate random sample crop-cutting survey experiments on paddy were conducted by this Department on the Autumn (Kanni), Winter (Kumbhom) and Summer (Punja) crops of paddy during 1960-61. The purpose of the survey is to estimate the average yield per acre and the total outturn of rice during each one of the seasons based upon scientifically designed statistical surveys.

1. *Autumn (Kanni) Crop of Paddy—1960.*—The harvest period of this crop ranges from August to October. The survey was conducted in 50 taluks wherein the reference crop was cultivated. A multi-stage random sampling design was adopted for the survey, the taluk formed the stratum village the primary unit of sampling, the field, the secondary unit and a square plot of side 16½' the ultimate unit of sampling. The number of villages allotted to each taluk was six and the selection

of villages was done by random sampling. From each selected village a random sample of five paddy growing plots was chosen and the crop grown in a randomly selected square plot of side $16\frac{1}{2}'$ was harvested. The harvested produce was winnowed and weighed correct to the nearest quarter of a pound. 1,348 experiments could be conducted during the season out of a total of 1,500 experiments planned.

The field work of the survey was done by the Investigators of this Department under the supervision of the Statistical Inspectors and District Statistical Officers, analysis of the data collected was done in the Office of the Director of Statistics. The report will be published shortly.

2. *Winter (Kumbhom) Crop of Paddy*—1961.—The period of harvest of this crop is January-February. The sampling design and other details were the same as those for the survey on the previous autumn crop. 1373 experiments were conducted during the season. Analysis of the data is in progress.

3. *Summer Crop (Punja)*—1961.—The harvest season of this crop ranges from March to May. The survey covered all the district except Trivandrum wherein the reference crop is not cultivated. The analysis of the data is in progress.

On completion of the analysis of the data on Winter and Summer Crops 1961, the report will be published.

The reports on the 1960 crops were issued during the year under review.

4. *Survey to estimate the conversion of farm land for non-agricultural purposes*.—The purpose of the survey is to estimate the extent of farm land converted for non-agricultural purposes during the years 1955 to 1959. The survey was conducted along with Land Utilisation survey 1960-61 and according to its design. Two rounds of the survey were conducted during the reference period. The analysis of the data obtained from the 1st round has been completed. The analysis of the 2nd round data is in progress.

III. Cultivable Waste Land Survey

The survey on Cultivable Waste Lands which was initiated in 1955-56, was due to be completed by the end of the 2nd Five-Year Plan. But on account of practical difficulties experienced in the field, the survey could not progress at the pace expected. The survey could be completed only in 31 taluks by the end of the Second Five-Year Plan. The work was in progress in the Palghat, Kozhikode and Cannanore Districts during the year.

The survey is expected to be completed in the remaining taluks by the end of September 1961.

The report on the analysis of the data collected from 15 taluks was published during the period. An integrated report on the Cultivable Waste Land Survey for the 25 taluks, reports on which have been already published in 4 parts was also prepared during this period. The sub-joined table gives the summary position in regard to the presence of waste lands of various categories in the 25 taluks.

Area under different types of waste lands (Area in acres)

Column 3 :—Figures within brackets relate to percentage of waste lands to total area of the taluk.
 Columns 4, 5, 6 and 7 :—Figures within brackets relate to percentages of each type of waste land to the total area under waste lands.

Taluk	Area of the taluk (acres)	Area under					Uncultivable waste
		All waste	Current fallow	Other fallow	Cultivable waste		
1	2	3	4	5	6	7	
1. Neyyattinkara	140209	8205 (5.85)	1795 (21.88)	1991 (24.26)	2190 (26.69)	2229 (27.17)	
2. Nedumangad	229002	9789 (4.27)	2650 (27.07)	4717 (48.19)	1584 (16.18)	838 (8.56)	
3. Trivandrum	76878	4848 (6.31)	757 (15.61)	560 (11.55)	1337 (27.58)	2194 (45.26)	
4. Chirayinkil	94069	4367 (4.64)	1502 (34.39)	851 (19.49)	1661 (38.04)	353 (8.08)	
Trivandrum District	540158	27209 (5.04)	6704 (24.64)	8119 (29.84)	6772 (24.89)	5614 (20.63)	

1	2	3	4	5	6	7
5. Karunagappally	49857	380 (0.76)	34 (8.94)	21 (5.52)	249 (65.52)	76 (20.02)
6. Kottarakkara	136305	6476 (4.75)	432 (6.67)	672 (10.37)	4215 (65.10)	1157 (17.86)
7. Pathanamthitta	129619	4743 (3.66)	188 (3.96)	895 (18.87)	2262 (47.69)	1398 (29.48)
8. Kunnathoor	96354	4784 (4.97)	405 (8.47)	519 (10.85)	3198 (66.85)	662 (13.83)
9. Pathanapuram	304848	155885 (51.14)	150 (0.09)	233 (0.15)	893 (0.57)	154609 (99.19)
Total (Part of Quilon District)	716983	172268 (24.02)	1211 (0.70)	2340 (1.36)	10817 (6.28)	157902 (91.66)
10. Changanacherry	64736	3107 (4.79)	858 (27.62)	370 (11.92)	758 (24.39)	1121 (36.07)
11. Kottayam	133379	4820 (3.61)	2555 (52.97)	837 (17.37)	1108 (22.99)	322 (6.68)
12. Meenachil	178583	11327 (6.34)	2422 (21.38)	1980 (17.48)	4415 (38.98)	2510 (22.16)
13. Vaikom	81720	8161 (9.98)	1127 (13.81)	177 (2.17)	2370 (29.04)	4487 (54.98)
Total (Part of Kottayam District)	458418	27415 (5.98)	6960 (25.39)	3364 (12.27)	8651 (31.56)	8440 (30.78)

14. Thodupuzha	115934	12143 (10.47)	1957 (16.12)	2383 (19.62)	4355 (35.86)	3448 (28.40)
15. Muvattupuzha	162968	18073	9857	828	5046	2342
16. Kanayannur	79752	8529 (11.09)	5454 (54.54)	458 (4.58)	2792 (27.92)	86 (12.96)
17. Cochin	34898	856 (10.69)	14 (0.50)	105 (1.23)	8295 (97.26)	17 (1.01)
18. Parur	47351	1305 (2.45)	196 (1.63)	69 (0.23)	300 (96.16)	740 (1.98)
19. Alwaye	80625	1204 (2.76)	111 (15.02)	154 (5.29)	587 (22.98)	352 (56.71)
20. Kunnathunad	114975	5840 (1.49)	206 (9.22)	364 (12.79)	4608 (48.75)	664 (29.24)
Ernakulam District	636503	47950 (7.53)	12384 (25.83)	3905 (8.14)	24012 (50.08)	7649 (15.95)
21. Mukundapuram	155515	9171 (5.90)	1170 (12.75)	712 (7.76)	5595 (61.01)	1694 (18.48)
22. Cranganore	18062	154 (0.85)	36 (23.37)	37 (21.03)	77 (50.00)	4 (2.60)
23. Chowghat	63519	492 (0.77)	6 (1.22)	4 (0.81)	371 (75.41)	111 (22.56)
24. Trichur	127824	1921 (1.50)	161 (8.38)	214 (11.14)	1112 (57.89)	434 (22.59)
25. Talappilly	159494	29268 (18.35)	2327 (7.95)	1861 (6.36)	14823 (50.66)	10252 (35.03)
Trichur District	524414	41006 (7.82)	3700 (9.02)	2828 (6.90)	21983 (53.61)	12495 (30.47)

Area figures given are as per professional survey (excluding the unsurveyed portion).

Figures within brackets denote the percentages.

IV. Other Agricultural Statistics

The Department attended to the following items of work relating to agricultural statistics during the year under report :—

(1) *Preparation of the Agricultural Statistics Returns and the Season and Crop Reports.*—The tables of Agricultural Statistics for 1957-58 and 1958-59 were prepared. The following table gives the area under different utilisations for the latter year :—

Serial No.	Classification of area	Area (acres)	Percentage to the total area
1	Area according to Village Papers ..	9534611	100.00
2	Forests ..	2589105	27.16
3	Land put to non-agricultural uses ..	492328	5.16
4	Barren and unculturable land ..	415180	4.35
5	Permanent pastures and grazing lands ..	110762	1.16
6	Land under miscellaneous tree crops ..	493595	5.16
7	Culturable waste ..	467968	4.91
8	Current fallow ..	178142	1.87
9	Other fallow ..	200617	2.10
10	Net area sown ..	4586914	48.11
11	Area sown more than once ..	949799	9.96
12	Total cropped area ..	5536713	58.07

The area covered by the important crop and their production are given below :—

Serial No.	Crop	Area (acres)	Production
1	Paddy ..	1898804	1430000 Tons
2	Cocoanut ..	1175425	3248 M. Nuts
3	Arecanut ..	123833	6795 "
4	Tapioca ..	553207	1527300 Tons
5	Sugarcane ..	21759	35021 Tons of gur
6	Cashewnut ..	114189	71368 Tons
7	Tea ..	92988	39737 "
8	Coffee ..	40060	6961 "
9	Rubber ..	270626	22158 "
10	Cardamom ..	73756	1316 "

The estimates from forecast reports are furnished in the case of forecast crops. In the case of other crops, the estimates furnished are from the land utilisation survey of the Department in the case of the Travancore-Cochin portion of the State and in the case of the Malabar region the estimates are based on the Revenue returns.

The returns of Agricultural Statistics for 1959-60 are under preparation.

The season and crop report for the years 1957-58 and 1958-59 in one volume was prepared during the year. Government have approved it and sent it to the Government Press for printing.

(2) *Preparation of forecast reports.*—The Department continued to prepare the forecast reports on the area and production of important crops in the State. These were sent to the Government of India and the State Government.

The condition factors on the extent and yield of these crops in each taluk were reported by the Statistical Inspectors after proper enquiry at the important production centres. The district and State figures are worked out based on these reports by the Department. Forecast reports are prepared for 25 crops.

(3) *Collection of rainfall data.*—The data are received from 81 centres in the State. Statements giving daily, monthly and annual rainfall are prepared and are sent to the concerned Departments.

The statement attached gives the average annual rainfall in each district during the year under report.

Average Rainfall
(in millimetres)

Districts	Average Rainfall (in millimetres)													
	April 1960	May 1960	June 1960	July 1960	August 1960	September 1960	October 1960	November 1960	December 1960	January 1961	February 1961	March 1961	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Trivandrum	188.1	600.1	251.0	389.1	201.5	362.3	207.8	480.2	38.8	67.7	48.7	9.4	2,944.7	
Quilon	234.6	661.2	273.0	495.8	283.4	411.1	251.4	571.4	35.1	48.5	58.9	15.6	3,340.0	
Alleppey	244.7	745.9	381.0	676.7	373.8	474.2	198.4	422.0	27.7	28.2	110.2	13.6	3,696.4	
Kottayam	273.2	520.5	340.2	694.0	401.7	403.6	268.3	361.9	37.5	15.0	57.6	15.6	3,389.1	
Ernakulam	240.5	737.7	552.0	760.4	377.5	535.9	311.9	311.5	31.2	2.6	21.1	5.5	3,887.8	
Trichur	152.8	705.1	636.6	865.6	287.0	415.9	296.1	218.9	2.7	..	28.0	24.8	3,633.5	
Palghat	191.4	362.8	404.3	643.8	230.9	252.8	332.5	323.5	22.8	1.6	8.8	12.2	2,787.4	
Kozhikode	176.9	464.7	661.1	919.7	300.2	321.6	197.3	342.4	5.8	..	..	..	3,389.7
Cannanore	134.9	508.1	723.8	947.9	439.3	303.0	124.1	283.6	1.8	0.4	2.0	3.4	3,472.3	

Besides, data on weather conditions are also collected from the N.E.S. Blocks where the meteorological instruments for measuring them have been installed. Efforts are being made to get complete coverage in this respect.

(4) *Miscellaneous items.*—The Section attended to the various items of work connected with the visit of the Three Man Committee on Crop and Livestock estimates which visited the State during the year under report. Also it drew up for the Agricultural Department an experimental design for the fixation of yardsticks of additional production.

The Department, during the year under report also attended to the supply of data on agricultural statistics to official and non-official agencies, like the Census Department, the Office of the State Editor for District Gazetteers and the Chambers of Commerce.

V. National Index of Field Experiments

(i) *Introduction.*—The Institute of Agricultural Research Statistics (I.C.A.R.), New Delhi has formulated the Scheme of National Index of Field Experiments, in order to prepare a list of all the agricultural experiments conducted in India. The Department of Statistics is responsible for the collection and analysis of data for the State. The Scheme was started here in 1959 with a staff consisting of one Research Officer, one Compiler and one Typist. During the year under report this staff continued. The Scheme is included as a Plan Scheme of the Department.

(ii) *Working.*—The various Agricultural Research Stations in the State send the details obtained through experiments conducted by them to this Department in a Proforma prescribed for this purpose. The data so collected are analysed and the results furnished to the Institute of Agricultural Research Statistics, New Delhi and also the Research Stations who furnish the data.

During the year under report data from 70 field experiments conducted during 1959-60 and 11 experiments conducted during 1960-61 were analysed and reported. The following table shows the number of experiments by design of experiments :—

Sl.No.	Design of experiments	No. of experiments in the year	
		1959-60	1960-61
1	Uniformity trial	1	..
2	Randomised block experiments	43	5
3	Confounded factorial experiments	12	4
4	Split plot experiments	11	1
5	Latin square experiments	1	..
6	AB—BA Method	2	1
	Total	70	11

Data relating to 30 experiments received during the year 1960-61 are being analysed.

CHAPTER III—ECONOMIC STATISTICS

I. Prices Statistics

One of the most important regular items of work of the Department is with regard to the collection, compilation and publication of Prices Statistics of the State. Statistics of the following types of prices continued to be collected by the Department :—

1. Wholesale prices of important agricultural commodities at important markets (weekly).
2. Retail prices of necessaries at important centres in the State (weekly).
3. Agricultural wages and rural retail prices at selected centres (monthly).
4. Weekly prices of export staples at Alleppey and at Mattancherry.
5. Prices of important varieties of coir yarn and husk at the main producing centres (weekly).
6. Month-end prices and monthly arrivals of agricultural commodities at important centres in the State.

The Statistical Inspectors of the Department were mainly responsible for the price collection work and the work was supervised by the District Statistical Officers. Data on item 4 were furnished by the Chamber of Commerce at the respective centres.

The following statements of prices were published regularly in the Government Gazette in the sheets allotted for the Department :—

1. Wholesale prices of important agricultural commodities (weekly).
2. Retail prices of necessaries (weekly).
3. Prices of export staples at Alleppey and Mattancherry (weekly).
4. Average prices of different varieties of coir yarn at important producing centres (monthly).
5. Working class cost of living index numbers for selected centres in the State (monthly).
6. Agricultural wages (monthly).

The Department also continued to furnish weekly wholesale prices of specified commodities at centres selected by the Agricultural Prices Enquiry Committee, to the Directorate of Economics and Statistics, Ministry of Food and Agriculture, Government of India. Further, as per the request made by the Secretary, Indian Central Coconut Committee, weekly statements showing the wholesale prices of coconuts without husk were forwarded to the Committee regularly. Weekly statements of wholesale prices of tapioca and weekly statements of prices of coir yarn, raw and retted husk were supplied to the Secretary, Tapioca Expansion Board, Trivandrum and to the Director, Coir Board, Kalavoor respectively.

1. Wholesale prices

Wholesale prices of agricultural commodities were collected from 39 centres. 21 commodities were covered.

The following trends were observed in the average monthly wholesale prices of rice, wheat, coconuts, copra, coconut oil, black pepper, ginger, turmeric, lemongrass oil, banana and tapioca during the year under review :—

(1) *Rice*.—The price of rice had in general a rising trend till November 1960 after which a decline was noted. The price level during March 1961 was however higher than that during April 1960 at all the important centres, the percentage increase ranging from 9 per cent at Kozhikode to 2 per cent at Trivandrum.

(2) *Wheat*.—The price of wheat at Trivandrum experienced a slight fall during the first quarter. There was a recovery in July and fluctuations though not large were evident till December 1960. January 1961 saw a spurt in prices and this level was almost maintained during the remaining months. The price level during March 1961 was 17 per cent higher than that during April 1960.

(3) *Coconuts with husk*.—At Alleppey and Kozhikode, a declining trend was witnessed till June 1960. The period was the season of increased supply of coconuts. This was followed by an increase during the remaining period under review. The price level during March 1961 was higher than that during March 1960 by 13 per cent at Alleppey and 31 per cent at Kozhikode.

(4) *Copra*.—The price of copra registered an upward trend during the first three quarters of the period under consideration. After that the prices showed fluctuations. The price level was maximum at Changanacherry and Alleppey during December 1960, the percentage increase being 18 per cent and 19 per cent when compared to those during December 1959. The price was at the peak during November 1960 at Kozhikode Market and it was 11 per cent higher than the prices for the corresponding period of the previous year.

(5) *Coconut oil*.—The price of coconut oil showed almost the same trend as that of copra. The maximum was during December 1960 at most of the important markets in the State. Compared to December 1959, the price level at Cochin and Kozhikode during December 1960 was higher by 13 per cent and 15 per cent respectively.

(6) *Black pepper*.—The prices of black pepper which gained substantially during the period from July 1959 showed a declining trend after July 1960. The prices during July 1960 were higher than those during July 1959 by 160 per cent at Alleppey and Cochin and 156 per cent at Kozhikode. At both the centres Alleppey and Cochin, the prices were low during March 1961 and were less than the prices during March 1960 by about 27 per cent.

(7) *Ginger*.—Though the prices recorded an irregular trend during the first quarter of the period under review, the prices gradually declined after July 1960. The prices reached very low levels during March 1961. The price level at the end of 1960-61 was lower than that at the close of 1959-60 by 25 per cent at Alleppey, 28 per cent at Cochin and 31 per cent at Kozhikode.

(8) *Turmeric*.—The trend in the price of turmeric at Cochin was of an irregular nature during the year. The price level during March 1961 was however 15 per cent higher than that during March 1960.

(9) *Lemongrass Oil*.—The prices of lemongrass oil were more steady during the year under reference when compared to the past two years. The minimum price for the period under report was recorded during June 1960, but this was however higher than that for June 1959 by 87 per cent. The price of lemongrass oil during March 1961 was 27 per cent higher than the price during March 1960.

(10) *Banana*.—After June 1960 the prices registered a downward trend till November 1960. There was a slight recovery in prices during the remaining months. The price at Punalur Market during March 1961 was 26 per cent lower than that during April 1960.

(11) *Tapioca*.—After a fall during the 1st quarter of the period under consideration, the prices remained somewhat stationary. At Nedumangad, one of the most important marketing centres in the State, the prices were minimum during February 1961 and were less than those during February 1960 by 40 per cent.

2. Retail prices

The weekly retail prices of necessaries were collected from 41 centres in the State. The data were regularly published in the Government Gazette in the sheets allotted for the Department of Statistics and were also used in the construction of consumer price index numbers in the State. The variations in the prices of rice, blackgram, mutton, coconut, arcanut, etc., are briefly commented below :—

(1) *Rice*.—The price of rice in general, showed an upward trend at all District headquarters till November 1960. After November 1960, a downward trend was witnessed at all the centres. The price level for March 1961 was higher than that during March 1960 at all the important centres, the percentage increase ranging from 4 per cent at Alleppey to 16 per cent at Palghat.

(2) *Blackgram*.—There has not been any appreciable variation in the price of this commodity during the period under reference.

(3) *Tapioca (Raw)*.—At most of the important producing centres the retail price of tapioca experienced a slight fall towards the end of the 1st quarter and the prices remained steady during the remaining months.

(4) *Milk, Mutton, Meat, Beef and Fish*.—As regards to these items the variation in the prices was not significant, except for the seasonal variation in the case of fish.

(5) *Coconuts (without husk)*.—In general, the prices of coconuts witnessed a rise till December 1960 though there were a very few exceptions. The prices at Kottayam, Ernakulam and Palghat markets were at the peak during January 1961, the percentage increase being 29 per cent, 24 per cent and 12 per cent over those prevailed during January 1960.

(6) *Coconut Oil*.—As in the case of coconuts, the prices of coconut oil was on the ascent till December 1960. After that the prices declined. The price level during December 1960 was higher than that prevailed during December 1959 by 19 per cent at Trivandrum and Alleppey and 14 per cent at Kottayam and 16 per cent at Cannanore. The price level for March 1961 was higher than that during March 1960 by 8 per cent at Quilon, 6 per cent at Alleppey and 13 per cent at Trichur.

(7) *Arecanut*.—The seasonal variations in the supply of arecanut were reflected in the price trends of the commodity. The prices at almost all the centres were at the peak during June 1960 and were lowest during December 1960 and January 1961.

3. Consumer price index numbers (Cost of living index numbers)

The monthly working class consumer price index numbers for 12 important centres in the State continued to be computed and published in the Government Gazette. In addition to these, this Department started computation of the index numbers for Shertalai from May 1960.

The following table shows the monthly working class consumer price index numbers for the various selected centres in the State :—

Centre	1959	1960	1961
Alleppey	100	119	115
Cannanore	100	116	115
Kottayam	100	114	115
Trichur	100	106	110
Trivandrum	100	119	115
Quilon	100	108	108
Shertalai	100	100	100
Thiruvananthapuram	100	100	100
Thiruvananthapuram (City)	100	100	100
Thiruvananthapuram (Suburb)	100	100	100
Thiruvananthapuram (Rural)	100	100	100
Thiruvananthapuram (Semi-urban)	100	100	100
Thiruvananthapuram (Urban)	100	100	100
Thiruvananthapuram (Village)	100	100	100
Thiruvananthapuram (Town)	100	100	100

Consumer Price Index numbers for the period April 1960 to March 1961

Serial number	Centres	Month												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Year												
		1960												
		1961												
1	Trivandrum	444	444	455	456	454	451	455	464	474	480	473	472	468
2	Quilon	444	444	455	458	453	457	460	467	464	460	462	469	471
3	Punalur	451	427	462	460	460	455	451	465	471	471	460	456	456
4	Alleppey	427	442	442	445	445	447	450	456	451	443	438	446	450
5	Changanachery	430	442	442	449	452	454	457	459	465	459	459	457	456
6	Kottayam	428	435	435	445	448	449	451	458	461	455	453	450	451
7	Alwaye	447	447	457	466	468	470	470	476	472	463	461	470	468
8	Ernakulam	443	443	457	467	472	472	475	485	490	484	479	480	483
9	Trichur	452	456	456	467	468	468	469	479	483	486	480	479	475
10	Chalakudy	461	465	465	478	479	481	485	488	490	480	479	479	482
11	Munnar	455	461	461	468	468	469	467	470	475	480	482	478	476
12	Kozhikode	461	476	476	479	483	477	481	480	481	474	471	476	485
13	Sherthalai	..	..	428	436	444	437	444	446	434	435	432	432	433

Base for Kozhikode is average prices for the period July 1935 to June 1936 : 100.
 Base for other centres is August 1939 : 100.

The indices had in general a rising trend up to November 1960. This was followed by a decline. The average index for March 1961 was 6 per cent higher than that for March 1960.

4. Coir Prices

The Department continued to collect and publish monthly wholesale prices of different varieties of coir yarn at important coir producing centres.

Tables showing the wholesale prices of important varieties of coir yarn at important coir producing centres in Travancore-Cochin area and Malabar area for the period under reference are given below :—

Centre	Month	Price	Unit
Travancore-Cochin	March 1960	1000	1000
	April 1960	1050	1000
	May 1960	1100	1000
	June 1960	1150	1000
	July 1960	1200	1000
	August 1960	1250	1000
	September 1960	1300	1000
	October 1960	1350	1000
	November 1960	1400	1000
	December 1960	1350	1000
	January 1961	1400	1000
	February 1961	1450	1000
Malabar	March 1960	1000	1000
	April 1960	1050	1000
	May 1960	1100	1000
	June 1960	1150	1000
	July 1960	1200	1000
	August 1960	1250	1000
	September 1960	1300	1000
	October 1960	1350	1000
	November 1960	1400	1000
	December 1960	1350	1000
	January 1961	1400	1000
	February 1961	1450	1000

The above prices are for the month of March 1961. The prices for the month of February 1961 are also given in the table. The prices for the month of January 1961 are also given in the table. The prices for the month of December 1960 are also given in the table. The prices for the month of November 1960 are also given in the table. The prices for the month of October 1960 are also given in the table. The prices for the month of September 1960 are also given in the table. The prices for the month of August 1960 are also given in the table. The prices for the month of July 1960 are also given in the table. The prices for the month of June 1960 are also given in the table. The prices for the month of May 1960 are also given in the table. The prices for the month of April 1960 are also given in the table. The prices for the month of March 1960 are also given in the table.

Statement of average prices of different varieties of Coir Yarn for the period April 1960 to March 1961
(Travancore-Cochin area)
(Unit: 1 Kandy of 672 lb.)

Sl. No.	Variety	April 1960 Rs.	May 1960 Rs.	June 1960 Rs.	July 1960 Rs.	August 1960 Rs.	September 1960 Rs.
1	2	3	4	5	6	7	8
1	Anjengo (Superior)	266-31	265-59*	264-94	265-57	265-38	265-92
2	Anjengo (Ordinary)	239-34	238-99	239-82	240-65	240-65	240-73
3	Mangadan	247-10	240-63	238-69	242-10	240-88	240-40
4	Ashtamudi	200-00	195-00	187-92	197-67	203-33	215-20
5	Aratory	238-32	238-32	237-72	237-11	236-48	241-47
6	Parur yarn thick	217-50	216-25	215-00	210-00	209-00	216-25
7	Parur yarn thin	238-00	241-00	243-75	245-00	245-63	247-75
8	Vaikom yarn	232-38	234-38	233-44	231-75	231-25	236-55
9	M. K. Yarn (sandy)	146-00	145-00	153-50	145-00	146-50	150-00
10	M. K. Yarn (without sand)	244-00	246-25	247-50	244-00	243-75	245-00

Statement of average prices of different varieties of Coir Yarn for the period April 1960 to March 1961
(Travancore-Cochin area—(cont.))
(Unit: 1 Kandy of 672 lb.)

No.	Variety	October 1960 Rs.	November 1960 Rs.	December 1960 Rs.	January 1961 Rs.	February 1961 Rs.	March 1961 Rs.
		9	10	11	12	13	14
1	Anjengo (Superior)	274.29	280.07	279.93	281.40	N.Q.	345.15
2	Anjengo (Ordinary)	240.22	243.89	254.97	255.30	299.52	N.Q.
3	Mangadan	249.02	251.49*	257.73	263.06	255.57	292.80
4	Ashtamudi	225.44	237.90	250.50	256.96	251.63	269.00
5	Aratory	248.40	252.40	272.00	275.25	275.20	290.56
6	Parur yarn thick	231.25	230.00	238.75	246.75	265.00	276.75
7	Parur yarn thin	252.63	253.72	262.60	271.07	292.08	312.93
8	Vaikom yarn	240.63	244.38	255.75	255.00	258.13	277.00
9	M. K. Yarn (sandy)	150.63	162.28	162.57	167.49	181.86	237.49
10	M. K. Yarn (without sand)	248.40	263.54	266.72	268.59	287.08	318.82

Statement of average prices of different varieties of Coir Yarn for the period April 1960 to March 1961 (Malabar area)
(Unit: 1 Kandy of 672 lb.)

Serial No.	Variety	April 1960 Rs.	May 1960 Rs.	June 1960 Rs.	July 1960 Rs.	August 1960 Rs.	September 1960 Rs.
1	2	3	4	5	6	7	8
1	Mangadan	244.16	257.60	274.40	273.36	268.60	277.72
2	Ponnani	248.08	231.36	236.60	248.48	257.60	249.76
3	Vanna Coir	201.60	207.20	210.36	212.34	201.60	210.45
4	Tirur	211.68	211.40	216.53	208.80	204.75	202.00
5	Beypore	190.33	189.36	189.40	184.13	184.40	191.62
6	Quilandy	223.97	234.60	226.80	215.52	216.60	233.76
7	Pachachoody	139.20	142.80	143.40	139.68	142.80	144.00
8	Quilandy choody	205.00	203.75	204.50	207.00	205.00	211.00

Statement of average prices of different varieties of Coir Yarn for the period April 1960 to March 1961 (Malabar area)—(cont.)
(Unit: 1 Kandy of 672 lb.)

Serial No.	Variety	October 1960		November 1960		December 1960		January 1961		February 1961		March 1961	
		Rs.	9	Rs.	10	Rs.	11	Rs.	12	Rs.	13	Rs.	14
1	Mangadan		275.28		280.00		275.52		260.40		257.60		274.40
2	Ponnani		263.20		247.20		245.68		273.00		274.40		280.00
3	Vanna Coi		212.30		208.20		212.80		212.86		222.88		232.06
4	Tirur		207.50		224.00		223.95		219.66		237.86		253.07
5	Beypore		199.80		203.85		221.33		235.76		253.86		263.41
6	Quilandy		238.78		246.46		259.20		276.24		299.33		315.78
7	Pachachoody		145.20		149.16		156.07		157.33		156.40		152.61
8	Quilandy choody		209.91		207.98		210.45		219.22		229.54		268.40

Though the price trend of Anjengo Superior, Mangadan, Ashtamudi and Aratory was of an irregular nature, up to August 1960 the prices were on the increase during the remaining period of the year. The price level attained its maximum value during March, 1961 and was higher by 19 per cent for Mangadan, 30 per cent for Ashtamudi and 22 per cent for Aratory variety, when compared to the prices during April 1960. The prices for Parur yarn and M. K. Yarn (Sandy) also registered a similar trend. The prices for Beypore and Quilandy variety of coir yarn witnessed an irregular trend during the first quarter of the period under report. This was followed by a steady increase up to March, 1961, the percentage increase over the year being 43 per cent and 44 per cent respectively.

The following graphs showing the price relatives with price during April 1960 as 100 for important commodities at selected centres are given in the Appendix :—

1. Relative wholesale price of Rice.
2. Do. Copra.
3. Do. Coconut oil.
4. Do. Pepper.
5. Do. Ginger.
6. Do. Turmeric.
7. Do. Banana.
8. Do. Lemongrass oil.
9. Relative retail prices of Rice.
10. Do. Coconut.
11. Do. Coconut oil.
12. Do. Arecanut.
13. Relative prices of different varieties of Coir yarn.
14. Consumer price indices for Trivandrum, Alwaye and Kozhikode.

II. Index number series relating to Agricultural Economy

The unit for the calculation of index numbers relating to Agricultural Economy continued to function during the year under report. Monthly Index numbers of parity between prices received and prices paid by farmers were computed regularly. Regular computation of monthly index numbers of wholesale prices of agricultural commodities was also started during the year. The Scheme adopted for the calculation of index of agricultural wages and the index numbers with base 1956, July=100 were sent to the Ministry of Food and Agriculture for comments. In the light of the comments from the Ministry slight modifications in methodology as well as inclusion of more centres for collection of data on agricultural wages were effected during the year under report.

The tables below show the index numbers of parity between prices received and prices paid by farmers as well as the index numbers of wholesale prices of agricultural commodities for the different months of 1960-61.

Index number of Parity between prices received and prices paid by Farmers
(Base 1952-53 = 100)

Year	January	February	March	April	May	June	July	August	September	October	November	December
1	2	3	4	5	6	7	8	9	10	11	12	13
1960	..	..	..	102	103	102	101	97	93	92	91	90
1961	87	87	89	..	..	..	..	..	..	..	..	..

The Index of wholesale prices of Agricultural Commodities
(Base: 1952-53 = 100)

Year	January	February	March	April	May	June	July	August	September	October	November	December
1	2	3	4	5	6	7	8	9	10	11	12	13
1960	..	..	..	124	127	129	127	123	123	123	126	125
1961	124	124	126	..	..	..	..	..	..	..	..	..

III. Planning Statistics

The Statistical Cell for Planning Statistics established in March 1957 continued to function during the year under review. The main items of work attended to were the following:—

1. The quarterly progress report for all Plan Schemes of the State for the first quarter of 1960-61 was prepared.
2. The annual progress report on various Plan Schemes of the State for the year 1959-60 was prepared.
3. Progress report for all Plan Schemes of this Department for the first nine months of 1960-61 was prepared and furnished to Government.
4. Monthly and quarterly progress reports of all Plan Schemes of the Department due with the State Government and the Central Government were prepared and furnished in time.
5. Various items of work connected with the formulation and finalisation of the Plan Schemes of the Department were also attended to.

IV. National Income Unit

The National Income Unit in the Department of Statistics continued to function during the year 1960-61. The provisional estimates of State Income for the years 1955-56 to 1957-58 were published during the year. There has been a number of gaps in the statistical information required for the correct estimation of regional income. During the year 1960-61 efforts were made to collect data from Panchayats, Municipalities, Transport Establishments, Banks and other institutions and revise the 'Provisional' figures. Some of the Heads of Departments also were contacted for statistical data. From the Municipalities and Panchayats, data regarding house tax assessment, professional tax assessment and collection, and break up of income and expenditure of Municipalities were obtained. All these data obtained from the field were analysed in the Department and the information has been used to revise the estimates. The income from the following sectors, for revision of provisional estimates and for building up estimates of later years, has been computed during the year:—

- | | |
|----------------------|------------------------|
| 1. Animal Husbandry. | 2. Professions. |
| 3. Housing. | 4. Factory Industries. |

V. Trade Statistics

The Department continued to attend to the work relating to the collection and compilation of statistical data of exports from and imports into the State through ports and railways.

The data on seaborne trade were collected for every month from the Customs offices at the various ports by the field staff of the Department except for Cochin. In regard to Cochin Port, daily data were supplied by the Customs Office, Cochin. Data on goods-traffic by rail were collected by the field staff of the Department from the various railway stations in the State.

The data relating to the trade through sea up to 1958-59 were compiled and studied with special reference to the various currency areas of the world. The total value of commodities exported from and imported into the State through the ports of Kerala during the Agricultural Years 1951-52 to 1959-60 is given below:—

<i>Year</i> <i>(July/June)</i>	<i>Value in crores of Rs.</i>	
	<i>Exports</i>	<i>Imports</i>
1951-52	83.66	48.05
1952-53	80.03	52.39
1953-54	78.73	57.72
1954-55	78.94	55.94
1955-56	83.75	59.37
1956-57	83.04	60.40
1957-58	86.15	57.68
1958-59	92.27	55.24
1959-60 (Provl.)	102.88	59.47

The major commodities exported were tea, coir and coir products, rubber (raw), pepper, coffee, cocoanuts, betelnuts, cocoanut oil, cashew kernels and fish and prawns. The two statements given below show the quantity and value of exports of important commodities to foreign countries and other Indian States separately for the years 1951-52 to 1958-59.

STATEMENT No. I
Export of important Agricultural Commodities through the Ports of Kerala during the years 1951-52 to 1958-59

Serial No.	Commodity	Unit	Quantity												
			1951-52		1952-53		1953-54		1954-55						
			Coastal	Foreign	Coastal	Foreign	Coastal	Foreign	Coastal	Foreign	Coastal	Foreign	Coastal	Foreign	
1	Betelnuts	Cwt.	39417	1896	58297	3690	43865	44726	3226						
2	Cardamom	Tons	473	20798	561	24606	824	822	32031						
3	Cashew kernels		60		19		36	911							
4	Cashew-shell liquid	Gals.	2205	1283249	7605	1253594			1342444					1301771	
5	Coconuts	Nos.	110225663	290	124657217				99918765					123546968	
6	Coconut oil	Gals.	2309252		4281398				1956122					1823155	
7	Coffee	Cwt.	2850	10677	5125	9860	7432	5027	40197					26705	
8	Coir and Coir products	{ Cwt., Sq. yds., Tons	253251	1105440	167609	1263016	191479	221144	1422712					1422901	
9	Copra	Tons	1275	1825640	3171	3278459			3819498					2906648	
10	Fish and Prawns	Cwt.	14286		20526				14589					12718	
11	Ginger	Cwt.	3111	37661	205	107262	21805	55	125339					99165	
12	Lemongrass oil	Tons	103221	24385	88693	21071	102071	60097	26701					27141	
13	Oilcakes	Tons	767	121078					163401					142259	
14	Pepper	Cwt.	3377	244318	3542	225743	252687	2685	242411					3407	396
15	Rubber (Raw)	Lb.	88703	346386	38786032	252687	51794087	87863	73992					87863	251960
16	Tea	"	38656312	72654773	3886091	69772413	5071073	46468677	79511582					46468677	47635
17	Wood and Timber	"	6297951	N.A.	N.A.	N.A.	N.A.	8635121	N.A.					8635121	N.A.

N.A. = Not available.

STATEMENT No. I—(cont.)

Serial No.	Commodity	Unit	Quantity											
			1955-56		1956-57		1957-58		1958-59					
			Coastal	Foreign	Coastal	Foreign	Coastal	Foreign	Coastal	Foreign				
1	Betelnuts	56822	4551	49261	1126492	70923	4989	106252	5192					
2	Cardamom	885	30494	341	..	860	25916	591	35575	591	30	5192	35680	
3	Cashew kernels	47	..	16	..	92	..	30	..	..	..	..	..
4	Cashew-shell liquid	..	1048047	..	1126492	..	..	..	960854	..	..	..	..
5	Coconuts	142303199	..	..	..	2204	..	..	..	..	..	..	..
6	Coconut oil	1665698	..	135575789	..	109827829	..	99780991	..	804902	..	..	..
7	Coffee	4959	25593	942699	..	1235204	..	1995341	..	103200	..	..	..
8	Coir and Coir products	283637	1450718	7920	62526	3028	1580137	2867	53791	109163	..	..	..
9	Copra	15757	..	257514	1580137	349213	..	288902	1359558	1422408	..	..	..
10	Fish and Prawns	119	42731	10184	..	10199	..	20302	..	..	..	..	..
11	Ginger	89672	44659	106	92089	224	..	361	118244	..	..	91864	..
12	Lemongrass oil	..	193672	164707	77660	98582	..	59926	47220	..	..	55205	..
13	Oilcakes	3545	2208	82	266800	..	..	3826	320854	..	..	296664	..
14	Pepper	118375	222100	2405	2361	2920	..	104739	717	..	..	3514	..
15	Rubber (Raw)	47899866	53746	117051	302389	99690	..	104739	217459	..	..	200948	..
16	Tea	9361984	74839638	45472736	82768	4691908	..	44431296	90995512	..	..	80942187	..
17	Wood and Timber	N.A.	N.A.	10510135	71868600	10570776	N.A.	9533398	N.A.	N.A.	N.A.	N.A.	N.A.	

N.A. = Not available.

STATEMENT No. II
Export of important Agricultural Commodities through the Ports of Kerala during the years 1951-52 to 1958-59

Serial Number	Commodity	Value in rupees											
		1951-52		1952-53		1953-54		1954-55		9	10		
		Coastal	Foreign	Coastal	Foreign	Coastal	Foreign	Coastal	Foreign				
1	Betelnuts	40,02,802		72,37,668		58,67,080		63,78,339		63,78,339		32,83,645	
2	Cardamom	4,73,750	25,01,342	5,16,016	32,05,640	7,71,222	22,44,495	4,65,041	4,65,041	4,65,041	32,83,645	10,47,50,166	
3	Cashew kernels	1,14,058	9,20,02,622	75,320	11,16,43,683	1,45,702	8,84,87,668	1,59,392	1,59,392	1,59,392	10,47,50,166	45,97,074	
4	Cashew-shell liquid	11,167	58,13,473	40,949	59,37,962		50,49,277						
5	Coconuts	2,46,48,508	51	2,12,38,184		2,40,94,619		2,19,09,625		2,19,09,625			
6	Coconut oil	2,00,65,842		2,87,85,434		1,62,03,884		1,36,62,576		1,36,62,576			
7	Coffee	6,31,477	36,37,668	9,87,192	32,24,948	13,05,347	1,35,69,461	8,69,461	8,69,461	8,69,461		82,88,137	
8	Coir and coir products	1,61,04,141	8,67,31,342	98,97,212	7,17,37,472	92,34,539	8,12,48,766	1,00,11,321	1,00,11,321	1,00,11,321		8,32,30,177	
9	Capra	2,41,17,019		2,97,75,302		1,74,38,565		1,80,45,179		1,80,45,179			
10	Fish, and prawns	59,940	46,86,697	17,491	1,00,79,653	41,673	1,02,68,910	1,485	1,485	1,485		78,87,125	
11	Ginger	1,30,48,943	28,62,360	63,61,529	16,37,201	56,38,203	25,50,026	67,49,507	67,49,507	67,49,507		35,33,244	
12	Lemongrass oil	83,046	1,28,05,953		39,73,562		72,62,374					1,04,72,637	
13	Oilcakes	13,49,222		14,72,710		9,91,014		9,98,771		9,98,771		1,30,842	
14	Pepper	4,40,16,990	17,78,49,586	3,49,73,955	14,73,26,807	2,96,87,602	9,59,18,304	1,50,31,408	1,50,31,408	1,50,31,408		5,59,80,459	
15	Rubber (raw)	4,77,47,501	9,67,533	5,03,31,945	5,08,585	6,83,42,218	1,48,850	6,04,79,532	6,04,79,532	6,04,79,532		85,189	
16	Tea	1,28,29,825	15,60,24,551	70,22,265	14,55,65,134	1,02,23,905	19,02,95,533	2,32,74,848	2,32,74,848	2,32,74,848		21,96,85,467	
17	Wood and timber	23,76,142	68,36,305	28,69,599	77,62,418	30,90,933	1,77,58,710	34,71,560	34,71,560	34,71,560		81,85,873	
18	Other important commodities	3,76,63,758	2,33,65,226	4,17,66,740	3,09,74,462	4,10,96,050	2,91,70,899	4,11,22,818	4,11,22,818	4,11,22,818		4,61,73,832	
19	Sundries	1,11,51,765		1,33,56,573		91,13,253		1,05,10,220		1,05,10,220			

STATEMENT No. II—(cont.)

Serial No.	Commodities	Value in rupees												
		1955-56		1956-57		1957-58		1958-59						
		Coastal	Foreign	Coastal	Foreign	Coastal	Foreign	Coastal	Foreign					
1	Betelnuts	83,05,589	..	75,75,025	..	1,34,81,338	..	2,13,87,343	..	2,02,15,043	..	2,23,00,024	..	1,77,03,266
2	Cardamom	7,53,590	50,16,729	3,34,916	55,15,580	5,50,778	56,21,997	5,64,773	58,39,861	5,30,616	5,30,616	5,30,616	2,55,16,823	14,31,01,918
3	Cashew kernels	1,58,884	13,07,83,379	88,005	11,93,22,757	4,68,965	13,66,61,355	1,40,238	14,31,01,918	..	..	..	29,59,451	7,59,92,655
4	Cashew-shell liquid	..	34,80,967	..	39,59,933	3,857	35,81,312	..	..	..	..	..	..	..
5	Coconuts	2,44,53,337	..	2,33,98,850	..	2,25,90,148	..	2,23,00,024	..	2,02,15,043	..	2,02,15,043	..	37,270
6	Coconut oil	1,20,61,743	..	73,63,025	..	1,14,35,595	..	..	..	..	..	..	..	..
7	Coffee	9,30,789	93,68,024	15,07,477	1,85,49,146	6,68,862	1,38,22,218	5,30,616	1,38,22,218	..	..	..	..	..
8	Coir and coir products	1,29,23,594	8,56,60,039	1,19,76,768	9,14,11,109	1,81,68,490	7,19,01,509	1,51,56,863	7,19,01,509	..	..	..	..	..
9	Copra	1,91,31,536	..	1,42,12,417	..	1,74,95,254	..	3,43,37,771	..	..	..	..	..	..
10	Fish and prawns	8,950	31,85,203	14,808	1,24,72,106	12,880	1,49,33,107	18,087	1,49,33,107	..	..	..	..	1,77,03,266
11	Ginger	1,11,62,962	58,71,057	1,78,32,512	61,83,285	53,83,479	23,13,374	29,67,872	23,13,374	..	..	..	..	29,46,386
12	Lemongrass oil	..	1,30,75,675	4,600	1,47,14,218	..	1,38,40,709	..	1,38,40,709	..	..	..	..	92,74,518
13	Oilcakes	11,67,017	5,94,558	8,52,245	3,49,904	11,85,155	1,57,879	17,27,740	1,57,879	..	..	..	..	1,33,09,070
14	Pepper	1,87,25,059	3,78,15,311	1,35,70,775	3,48,85,820	1,07,70,180	2,26,78,639	1,12,93,784	2,26,78,639	..	..	..	..	2,20,26,559
15	Rubber (raw)	6,46,42,677	1,11,283	6,95,09,491	1,39,047	6,84,68,098	22,80,94,200	6,61,67,608	22,80,94,200	..	..	..	..	5,45,06,571
16	Tea	2,16,76,186	19,92,19,403	2,44,15,618	19,89,55,125	2,26,92,110	1,09,17,606	2,08,96,708	1,09,17,606	..	..	..	..	6,76,85,414
17	Wood and timber	56,61,802	1,14,80,425	44,54,337	65,76,230	58,89,036	4,77,24,977	14,78,402	4,77,24,977	..	..	..	..	5,45,06,571
18	Other important commodities	6,53,33,921	5,55,60,361	6,66,41,048	4,77,24,977	7,36,34,867	5,46,13,690	6,81,23,984	5,46,13,690	..	..	..	..	6,76,85,414
19	Sundries	91,91,747	..	58,91,696	..	95,04,171	..	41,66,477	..	..	..	..	..	..

The contribution of the sea-borne exports (foreign) through the ports in the State to the total foreign exports from India is shown in the subjoined table.

Year	Exports (foreign) from India (crores of Rs.)			Exports (foreign) from ports of Kerala (crores of Rs.)		
	Dollar	Sterling	Other areas	Dollar	Sterling	Other areas
1	2	3	4	5	6	7
1956-57 ..	121.6	332.6	181.6	18.3 (15 per cent)	23.9 (7 per cent)	13.8 (8 per cent)
1957-58 ..	118.1	298.0	178.1	19.3 (16 per cent)	26.0 (9 per cent)	12.6 (7 per cent)
1958-59 ..	104.4	300.4	171.1	17.5 (17 per cent)	27.0 (9 per cent)	18.6 (11 per cent)
1959-60 ..	117.6	294.7	211.0	..	..	..

(Figures in brackets show percentages to all India Export figures for each area).

The currency-wise distribution of the annual export value of some important commodities for the year 1958-59 is given below :—

Serial No.	Commodity	Export value in lakhs of Rs.				
		Sterling	Sterling	Hard	Soft	Total
1	2	3	4	5	6	7
1	Betelnuts ..	213.87	..	0.87	..	213.87
2	Cardamom ..	5.65	3.09	..	54.44	64.05
3	Cashew-kernel ..	1.40	118.25	984.69	328.08	1,432.42
4	Cocoanuts ..	223.00	0.37	..	..	223.37
5	Cocoanut oil ..	202.15	..	..	..	202.15
6	Copra ..	343.38	..	..	..	343.38
7	Coir and Coir products ..	151.57	266.29	92.42	401.21	911.49
8	Coffee ..	5.30	14.07	..	241.10	260.47
9	Ginger ..	29.68	24.27	3.04	2.15	59.14
10	Pepper ..	112.94	2.54	92.38	125.34	333.20
11	Rubber (raw) ..	661.68	..	..	..	661.68
12	Tea ..	208.97	1,407.28	342.50	273.51	2,232.26
13	Others ..	713.48	865.69	236.91	432.02	2,248.10
	Total ..	2,873.07	2,701.85	1,752.81	1,857.85	9,185.58
	Sundries ..	N.A.	N.A.	N.A.	N.A.	41.66
	Grand total ..	..	..	..	..	9,227.24

Sixty-three per cent of the export value of tea is accounted for by sterling (Non-coastal) areas. The highest demand for cashew-kernels was from the Hard currency areas. Cardamom, coir products, coffee and pepper mainly found their markets in the soft currency areas. Betelnuts, coconuts, coconut oil, copra, ginger and rubber were exported to other ports in India.

Studies were also made on the import trade carried on through the various ports of Kerala for the Agricultural Years 1951-52 to 1958-59.

The percentage distribution of the annual import value of some of the important commodities for the years 1951-52 to 1959-60 is given in the subjoined table (figures for 1959-60 are provisional).

Serial No	Commodity	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60*
1	2	3	4	5	6	7	8	9	10	11
1	Cashewnuts ..	5.1	9.6	4.5	7.0	8.5	7.5	10.6	10.9	11.5
2	Copra ..	0.8	0.3	1.2	3.6	3.7	4.2	3.7	5.9	5.2
3	Grains (including Rice and Paddy)	4.3	15.0	25.7	19.3	6.2	6.2	5.6	2.3	6.9
4	Cotton and its products ..	23.9	11.4	11.5	13.6	15.9	15.3	17.1	15.3	15.9
5	Mineral Oils ..	14.9	17.1	14.6	17.6	16.6	20.1	20.2	17.8	22.7
6	Metals and Ores ..	3.5	4.7	4.1	5.4	6.2	7.6	7.8	7.5	6.4
7	Machinery and Mill Work ..	5.1	4.5	4.0	4.0	3.8	5.7	4.9	6.5	4.5
8	Coal and Coke ..	1.0	1.9	1.7	2.5	3.3	2.8	4.0	3.8	3.8
9	Others ..	41.4	35.5	32.7	27.0	35.8	30.6	26.1	30.0	23.1
	Total ..	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

* Provisional.

- (Note.—1. Data relating to the Calicut Port for the years 1951-52 to 1953-54 are not available and hence not included.
2. Data relating to Quilon Port for the months July to December 1956 are also not included.)

The following table shows the currency-wise distribution of the import value (in lakhs of Rs.) of important commodities for the year 1958-59.

Serial number	Commodity	Import value in lakhs of Rupees				
		Sterling coastal	Sterling Non-coastal	Hard	Soft	Total
1	2	3	4	5	6	7
1	Cashewnuts ..	..	159.04	..	441.46	600.50
2	Copra ..	2.49	322.18	..	..	324.67
3	Grains (including Rice and Paddy) ..	106.97	19.61	..	..	126.59
4	Cotton and its products .	597.70	36.92	45.68	163.19	843.49
5	Mineral Oil ..	642.82	261.39	1.05	78.37	983.63
6	Metals and Ores ...	106.99	45.68	151.07	111.72	415.46
7	Machinery and Mill Work ..	1.21	39.12	29.52	291.30	361.15
8	Coal and Coke ..	189.57	..	23.34	..	212.91

Grains, cotton and its products, mineral oils and coal and coke were imported into the State mainly from other Indian States. Copra was largely imported from Ceylon, machinery and mill work and cashewnuts (raw) from soft currency area and metals, minerals and ores from hard currency area.

The regular collection of data on movements of goods by rail was started in the year 1959. The commodity-wise consolidation of the data up to August 1960 has been completed on a monthly basis. In regard to certain commodities like paddy, rice, cocoanuts, copra, oilcakes, oilseeds and their products, tabulation was also done on a State-wise basis in order to meet the needs of the Government of India. Monthly statements furnishing information on the inter-State movements of oilseeds and their products by rail were supplied to the Indian Central Oilseeds Committee regularly. Also information on the quantity of coconut and its products exported by rail from important Centres in Kerala to other States in India was furnished regularly to the Indian Central Coconut Committee in quarterly statements.

Some of the most important commodities exported to outside the State through rail during the Agricultural Year 1959-60 were Tea, cocoanuts, copra, coconut oil, wood and bamboo, coir and coir products and bricks and tiles (vide the subjoined statement).

**Import/Export of Important Commodities by Rail
through the Stations in Kerala (1959)
(Provisional)**

Serial number	Commodity	Import from places outside the State (Quantity in quintals)	Export to places outside the State (Quantity in quintals)
1	2	3	4
1	Paddy	988405	13784
2	Rice	6855677	32655
3	Wheat and Wheat flour	80135	2648
4	Miscellaneous grains and pulses	744758	9732
5	Pepper	1962	35273
6	Ginger	534	16558
7	Betelnuts	416	35409
8	Coffee	20622	7006
9	Tea	90918	78983
10	Salt	227506	1866
11	Sugar	210778	884
12	Fish	41717	32363
13	Cashewnuts	17900	17855
14	Tobacco (Manufactured and Unmanufactured)	15159	4329
15	Eggs	372	22619
16	Cocoanuts and Copra	7149	146987
17	Oilseeds	21854	703
18	Cocanut Oil	5279	197845
19	Other Vegetable Oils	86676	40251
20	Cotton	60249	105962
21	Coir and Coir Product	10197	226913
22	Rubber (Raw)	21969	25581
23	Wood	200671	2276517
24	Bamboo	1477	112678
25	Cement	1019204	24141
26	Soap	7389	30759
27	Chemical manure	175513	717489
28	Bricks and Tiles	47274	1376203

Cocoanuts were mainly exported to stations in Bombay, Madhya Pradesh, U. P. and Punjab and copra to stations in Andhra, Madras and Mysore. The important States to which Cocanut oil was exported were Madras, Mysore, Bombay, Bihar and West Bengal.

Rice, paddy, pulses, vegetable oils (other than coconut oil) Cement, Salt and Chemical Manures were some of the important commodities imported into the State through rail. During 1959-60

rice and paddy were mainly imported from Andhra (46·8 per cent), Madras (43·5 per cent), Mysore (4·6 per cent) and Bombay (1·4 per cent) in that order.

The Department also collected data on the inter-State movements of goods by road through the check posts maintained by the Sales Tax Department on the frontiers of the State. Data from the 21 check posts were being supplied every month by the Sales Tax Authorities in the duplicate copies of declaration forms received in the check posts from persons carrying goods across the frontier posts. The consolidation of the data was not taken up during the year due to paucity of staff. It is proposed to take up the work during 1961-62.

CHAPTER IV—OFFICIAL STATISTICS

I. Labour Statistics

The Director of Statistics in his capacity as the Statistics Authority collects the returns under the Industrial Statistics (Labour) Rules from registered factories which come within the purview of the Factories Act, 1948 and also from plantations within the scope of the definition in the Plantation Labour Act, 1951.

Returns under the following enactments are also received :—

- (1) Factories Act.
- (2) Payment of Wages Act.
- (3) Indian Trade Unions Act.
- (4) Workmen's Compensation Act.
- (5) Maternity Benefit Act.

1. Industrial Statistics (Labour) Rules

All factories registered under the Factories Act and which fall under the categories (i) employing 10 or more workers and using power and (ii) employing 20 or more workers and not using power and all plantations coming under the Plantation Labour Act, 1951, submit quarterly returns to this Department. These returns are scrutinised and tabulated in this Office. Consolidated statements giving information on number of workers, total number of man-days worked, basic wages, dearness allowance, etc., paid to workers, etc., are prepared and forwarded to the Labour Bureau, Simla regularly.

2. Factories Act

Under the Factories Act, it is obligatory on the part of the factories coming under the purview of the Factories Act, i.e., factories using power and employing 10 or more workers, factories not using power and employing 20 or more workers and smaller factories registered under Section 85 of Factories Act to submit annual and half-yearly returns to the Chief Inspector of Factories and Boilers. As per the Factory Rules, 1957 these factories have to submit duplicate copies of these returns to the Director of Statistics. These returns are compiled here and the consolidated statements forwarded to the Labour Bureau, Government of India.

The number of registered factories at the beginning of the year 1959 was 2146. During the year 238 factories were registered and 91 were removed from the register. The number of registered factories at the end of the year was thus 2293.

The average daily employment in 2258 registered working factories in the State during the year 1959 was estimated at 1.58 lakhs. Only 1265 factories (56%) submitted their annual returns during the year and the average daily number of workers employed in these factories was 90,612. The employment in the remaining 993 factories was estimated and the estimated number was 67,602. Of the total employment of 90,612 in factories which submitted returns 39.2 per cent were women. Average daily employment and the number of working factories in the major industrial sectors are shown below :—

Name of Industry group	Number of working factories during the year 1959	Average daily employment
Food Industries ..	705	77,877
Cotton Textiles ..	265	15,788
Other Textiles (coir, etc.) ..	187	14,039
Metals and chemicals ..	90	8,253
Other manufacturing industries ..	1,011	42,257
Total ..	2,258	158,214

Working of the Factories Act for the first half of 1960.—Two thousand one hundred and eighty-eight factories registered under the Factories Act were working in the State during the half-year ending 30th June 1960. The average daily employment in the 1116 working factories which submitted returns was 80,310 while the estimated employment for 1072 factories not submitting returns was 72,601. Details regarding the average daily employment in some important industries are shown in the sub-joined table :—

Industry	Factories submitting returns		Factories not submitting returns	
	Number	Average daily employment	Number	Average daily employment (estimated)
Rice Mill ..	59	689	34	499
Oil Mill ..	89	787	130	1224
Tea ..	85	4501	35	1365
Cashew ..	51	23710	116	39755

Industry	Factories submitting returns		Factories not submitting returns	
	Number	Average daily employment	Number	Average daily employment (estimated)
Beedi	30	755	40	1247
Textiles	155	11742	108	3905
Coir	45	5835	108	5359
Saw Mill	84	2331	60	1235
Splints and Veneers	42	2179	27	1046
Paper	1	921	..	..
Rubber	36	1149	25	1034
Artificial Manures	3	53	2	1550
Bricks and Tiles	91	8256	59	4175
Cement	..	..	1	403
General Engineering..	23	1005	19	538

3. Payment of Wages Act

All factories registered under the Factories Act except those registered under section 85 come under the purview of this Act. These factories submit an annual return giving information on average daily employment, wages paid, fines realised, etc., in respect of persons employed in the factories and drawing up to Rs. 400 per mensem. Consolidated statements prepared from the returns are forwarded to the Labour Bureau from this Department.

During the year 1959, 953 factories submitted annual returns under the said Act. Of the 83,247 persons reported as employed in these factories, 83,049 persons were earning up to Rs. 200 per mensem. The total gross wages received by these 83,049 workers was Rs. 5,86,16,212. The gross wages earned by the 198 persons in the wage group earning Rs. 200 and above but less than Rs. 400 per mensem was Rs. 70,51,116. Of the gross wages received by these two categories of workers about 70 per cent was basic wages.

Average monthly earnings of a worker during 1959 in some selected industries are shown below :—

<i>Industry</i>	<i>Average monthly earning of a worker Rs.</i>
Cashew ..	21·79
Textiles ..	72·96
Bricks and Tiles ..	60·16
Tea ..	57·67
Rubber ..	101·50
Saw Mill ..	68·98
Splints and Veneers ..	28·62

The average monthly earnings of a worker for all the industries taken together came to Rs. 59·38.

4. Indian Trade Unions Act

The Registrar of Trade Unions (Labour Commissioner, Trivandrum) is responsible for the collection of annual returns under the Trade Unions Act. These returns are forwarded to this Office by the Registrar. After the scrutiny, these returns are tabulated in this Office. Consolidated statements giving particulars regarding (i) membership, (ii) income and expenditure, (iii) assets and liabilities, etc., are furnished to the Labour Bureau, Government of India.

A summary of the financial position of the Trade Unions during the year 1959-60 is presented in the table appended.

Statistics of Trade Unions registered under the Indian Trade Unions Act for the year ending 31st March 1960

Classification of Trade Unions	Number of members						General fund					
	No. of Trade Unions at the end of the year	No. of Trade Unions which submitted returns	At the beginning of the year	Joined during the year	Left during the year	At the end of the year			Opening balance	Income	Expenditure	Closing balance
						Total	Male	Female				
I. CENTRAL UNIONS												
II. STATE UNIONS												
State Unions	1658	875	346541	33789	57261	*223069	246556	76484	3,37,666	10,59,332	9,88,206	4,08,793
1. Unions in the Private Sector	1638	861	338802	33104	56546	315360	238068	76363	2,99,097	10,21,684	9,57,612	3,63,169
(a) Employees Unions	1630	855	337033	33063	56515	313581	237243	76338	2,81,122	9,99,341	9,40,747	3,39,716
(b) Employers Unions	8	6	1769	41	31	1779	1725	25	17,975	22,343	16,865	23,453
2. Unions in the Public Sector	20	14	7739	685	715	7709	7588	121	38,569	37,648	30,593	45,624
(a) Central sphere	11	6	2685	165	216	2634	2549	85	2,151	10,549	7,008	5,692
(b) State sphere	9	8	5054	520	499	5075	5039	36	36,418	27,099	23,585	39,932
III. FEDERATIONS	5	4		27	13			40	371	11,177	8,777	2,771

* Sex-wise distribution of 29 companies is not given.

The number of Trade Unions at the beginning of the year was 1,550 while that at the end of the year was 1,663. 201 Trade Unions were newly registered during the year under review and 88 were removed from the rolls. About 53 per cent of the Trade Unions submitted the annual returns. These Trade Unions together had an income of Rs. 10.59 lakhs during the year while the expenditure of these unions was reported to be Rs. 9.88 lakhs. Out of the five federations in the State, returns were received from 4. At the end of the year, the number of unions in these federations was 40 while that at the beginning of the year was 27. No union was disaffiliated from these federations during the year under study.

5. Workmen's Compensation Act

The annual returns under the Workmen's Compensation Act are forwarded to this Office by the Commissioner of Workmen's Compensation for compilation and analysis. Statements showing the number of accidents, occupational diseases and the amount of compensation paid to the workers, are prepared and furnished to the Labour Bureau.

During the year 1959 the total number of accidents reported from the establishments covered by this Act was 402 and Rs. 31,543 was given to the workers as compensation. No occupational disease was reported during the year.

6. Maternity Benefit Act

Returns received from the Chief Inspector of Factories and Chief Inspector of Plantations are compiled in this Office. Two statements showing number of women who claimed maternity benefit, amount of maternity benefit paid, etc., are prepared and sent to the Labour Bureau. Number of women who claimed maternity benefit during 1959 was 9,417 in the factories and 8,958 in the plantations. Of these 17,654 claims were accepted and paid either fully or partially. An amount of Rs. 11,41,200 was given as maternity benefit during the year.

7. Industrial Disputes

Monthly review of work-stoppages is the main periodical regarding industrial disputes regularly forwarded to the Labour Bureau from this Department. The returns are collected from the various District Labour Offices in the State. The aim of preparing this statement is to bring out information on work-stoppages leading to loss in economic activities and consequently loss in production. The appended statement shows the details regarding work-stoppages in various industries during the year 1960.

Particulars of Work-stoppages during 1960

Serial number	Industry	By causes							Details of work-stoppages				Result			Method of settlement						No. of strikes continuing		
		Total number of disputes							Wages	Bonus	Working condition	Retrenchments	Others	No. of workers normally employed	No. of workers affected	Total number of man-days lost	Successful	Unsuccessful	Partially successful	Indefinite	Conciliation		Direct negotiation	Adjudication	Mediation	Others	No. of token strikes included in column 3
1	2	3	4	5	6	7	8	9														10						11	12	13	14	15	16	17	18	19	20	21	22
All	..	274	159	38	6	4	67	161950	159067	1057155	199	4	23	13	197	12	13	3	14	31	4			
1	Plantation	..	25	1	..	1	18	8702	8036	29907	18	1	1	3	14	2	..	..	7	1	1	
2	Textiles	..	14	1	3	..	7	3250	2926	33057	8	..	..	1	6	..	..	3	..	5	..
3	Coir	..	1	..	1	..	..	275	101	1191	..	..	1	..	1	..	..	..	..	..	..
4	Saw Mills	..	6	1	..	1	2	336	318	1763	3	..	2	..	3	..	2	..	..	..	..
5	Matches	..	4	..	..	..	4	229	127	200	1	..	..	1	1	..	..	..	1	2	..
6	Tiles	..	40	2	26	1	11	4000	3614	98067	22	..	8	1	18	3	7	..	3	8	1			
7	Cashew	..	140	133	..	2	5	139993	139046	851314	128	..	5	2	133	1	..	..	1	5	..	
8	Miscellaneous	..	44	16	7	1	20	5165	4899	41656	19	3	6	5	21	6	4	..	2	10	1			

Besides the above, fortnightly statement regarding strikes and threatened strikes prepared from the returns received from the District Labour Officers are periodically sent to the Regional Labour Commissioner, Madras. This Department is also responsible for the collection and consolidation of returns on exchange of statistical data regarding lay-offs, retrenchments, closures, etc. Statements prepared from these are sent to the State Labour Commissioner and to the Commissioners of some sister States.

II. Industrial Statistics and Plantation Statistics

The collection and consolidation of Industrial and Plantation Statistics continued to be attended by this Department.

The technical details of the scheme for the improvement of Plantation Statistics were finalised and the scheme included in the Third Five-Year Plan. Also the technical details of a study for framing norms for assessment of future man-power requirement in the Industrial Sector were finalised. This was done in collaboration with the Director, Bureau of Economic Studies.

I. Census of Manufacturing Industries, 1958

This was conducted as part of the All India Census of Manufacturing Industries and covered all registered factories in the State employing 20 or more persons with power and engaged in one or more of the 29 industries specified by the Department of Industrial Statistics, Government of India. The consolidated data (provisional) for the year 1958 are given in the subjoined table.

Census of Manufacturing Industries, 1958—Economic structure of certain selected Industries in Kerala State
(Figures are provisional)

Serial number	Industry	No. of factories covered by the census	No. of factories covered by this table	Fixed capital Rs.	Working capital Rs.	Total productive capital Rs.	Persons employed	Salaries and wages Rs.	Ex-factory purchase value of raw materials and fuels Rs.	Ex-factory net selling value of products and by-products Rs.	Depreciation Rs.	Value added by manufacture Rs.
1	Rice Mills	6	4	5,23,082	1,09,167	6,32,248	112	56,941	11,93,643	13,84,856	13,039	1,78,174
2	Oil Mills	24	21	42,95,056	2,41,83,144	2,84,78,200	776	5,02,359	2,82,04,880	3,01,16,857	89,514	18,22,463
3	Soap	4	4	42,59,860	1,05,13,403	1,47,73,263	768	14,97,529	1,70,16,639	2,39,06,621	4,49,166	64,40,816
4	Ceramics	5	4	16,13,486	12,21,587	28,35,073	403	3,93,768	1,93,102	7,36,001	54,684	4,88,215
5	Plywood and Tea chests	11	11	38,96,620	27,30,082	66,26,702	1544	14,45,290	62,67,218	1,06,05,639	5,04,717	38,33,704
6	Matches	9	5	4,98,143	2,49,862	7,48,005	385	1,17,545	3,27,665	5,28,393	25,392	1,75,336
7	Textiles	25	23	3,71,28,285	2,44,05,366	6,15,33,651	10595	1,12,92,667	3,88,26,722	5,56,84,387	23,26,112	1,45,31,553
8	Chemicals	9	8	4,30,30,993	2,46,05,274	6,76,36,267	2477	58,07,158	1,96,80,225	3,75,19,572	38,16,985	1,40,22,362
9	General Engineering	62	46	1,37,72,222	1,06,23,516	2,43,95,738	4676	57,95,810	1,02,70,478	1,91,07,914	8,44,047	79,93,399
10	Miscellaneous	10	9	2,79,25,174	3,19,96,075	5,99,21,249	4489	93,52,552	5,70,46,167	9,20,24,731	29,26,908	3,20,51,656
	State	165	135	13,69,42,920	13,06,37,476	26,75,80,396	26225	3,62,61,619	17,90,26,739	27,16,14,971	1,10,50,554	8,15,37,673

From 1959 onwards the Census of Manufacturing Industries was replaced by the Annual Survey of Manufacturing Industries and the work of collection of data in this behalf is attended to by the Field Wing of the National Sample Survey.

2. Survey for the Collection of Industrial Statistics

In the Census of Manufacturing Industries conducted by the Government of India, only industries of all-India importance were covered. Consequently industries which are peculiar to the State and which occupy an important place in the States economy happened to be excluded from the purview of the census. In order to obviate this short-coming of the Census of Manufacturing Industries and also to build up a series of industrial statistics for the State, a sample survey was initiated by the Department covering all the important industries in the State. To start with, the data for the years 1956-57 and 1958 were collected together. The scrutiny and analysis of the data are in progress. The survey for the year 1959 is in progress.

3. Framing of Norms for Assessment of Man-power Requirements in Industrial Sector

In any system of planned development of economy, it is necessary to assess the requirements of man-power of various categories for implementation of the developmental schemes. For this purpose norms for different sectors showing the interrelationship between employment on the one hand investment and output on the other, have to be found. It is proposed to conduct a man-power study in the State in order to frame norms for assessment of man-power requirements during the Third and Fourth Plan periods.

The design and other technical details of the study was finalised by the Department in consultation with the Director, Bureau of Economic Studies. The study which is for framing norms for the organised industrial sector will be confined for the present to the important manufacturing industries in the State and is to be started shortly.

4. Plantation Statistics

The technical details of the scheme for the improvement of Plantation Statistics were finalised. The main object of the scheme is to frame reliable estimates of the area under and production of rubber, coffee and tea in the State through sample surveys. The surveys are proposed to be conducted every year.

1. *Rubber*.—Statistics relating to rubber estates of 50 acres and above are collected by the Rubber Board. Details have to be collected by the Department through sample survey from estates of extent below 50 acres. The design adopted for the survey is that of stratified sampling. The stratification is done on the basis of districts

and size groups of estates. The distribution of rubber estates in the State is as follows :—

Strata/Districts	0-1 acre	1-5 acres	5-10 acres	10-25 acres	25-50 acres	Above 50 acres	Total
1	2	3	4	5	6	7	8
1. Trivandrum	11	275	157	156	38	26	663
2. Quilon	785	4388	794	437	141	88	6633
3. Alleppey	231	1216	108	40	7	2	1604
4. Kottayam	8145	22363	2156	783	171	118	33736
5. Ernakulam	740	5109	867	405	112	57	7290
6. Trichur	8	68	57	48	28	20	229
7. Palghat	1	7	8	14	10	36	76
8. Kozhikode	3	322	171	88	29	63	676
9. Cannanore	9	107	60	41	9	13	239
Total	9933	33855	4378	2012	545	423	51146

It is proposed to enumerate completely all the estates in the group 25-50. From the other strata, 804 estates in all will be sampled for enumeration. The frame for selection of units has already been got prepared through the field staff of this Department.

2. *Coffee.*—In the case of coffee also, stratified sampling is adopted. The following table shows the distribution of coffee estates in the State :—

Strata/Districts	Below 1 acre	1-5 acres	5-10 acres	10-25 acres	25-100 acres	100 and above	Total
1	2	3	4	5	6	7	8
1. Trivandrum	..	..	..	..	..	..	..
2. Quilon	101	44	2	..	3	2	152
3. Alleppey	..	..	..	..	..	..	..
4. Kottayam	1281	1520	167	49	22	24	3063
5. Ernakulam	73	53	5	4	4	2	141
6. Trichur	..	..	..	..	..	..	..
7. Palghat	5	26	1	2	6	6	46
8. Kozhikode	584	1932	686	368	91	28	3689
9. Cannanore	523	1360	380	111	30	6	2410
State	2567	4935	1241	534	156	68	9581

3. *Tea*.—It is proposed to sample 437 estates for enumeration. According to the revised procedure adopted for the collection of tea statistics in collaboration with the Directorate of Economics and Statistics, Government of India and the Tea Board, the District Statistical Officers are the District Authorities for this purpose from the year 1959. Data are to be collected both from the 1,799 registered and 4,085 unregistered estates. The registered estates are being covered by a Census enquiry. In Kottayam District where about 96 per cent of the unregistered estates are concentrated a 5 per cent sample of unregistered tea estates is selected for sample enquiry. The allocation of the total sample into different strata (size groups) is made in proportion to the area in the stratum.

The distribution of the sample of unregistered tea estates in Kottayam District over the different strata is given below :—

Strata	Total number of estates	Area	Number of estates selected for sample survey
	(acres)	(acres)	(acres)
1. Below 1 acre ..	491	316	5
2. 1—5 acres ..	2392	6237	109
3. 5—10 acres ..	398	2597	45
4. 10—25 acres ..	113	1612	28
5. 25 acres and above ..	19	743	13
Total ..	3953	11505	200

III. Education Statistics

During the year under review, this Department collected and consolidated the statistics of all the educational institutions in Kerala (except those under the University of Kerala) for the year 1958-59. The data were supplied to the Ministry of Education, Government of India in the form prescribed by them.

The form gives detailed information regarding the number of institutions—type-wise and management-wise, enrolment, expenditure, teachers, examination results, compulsory education, education in rural areas, financial assistance to students, education of scheduled castes, tribes and backward communities and the Inspectorate and Directorate of the State education.

Under the scheme of the collection of data, the Assistant Educational Officers of the Education Department were responsible for the collection of data from institutions up to the Middle School standard in the sub-district. The consolidated data for the sub-district were furnished to this Department by the Assistant Educational Officers. The returns relating to other institutions in an Educational District were collected by this Department through the District Educational Officers. Statistics of the special and professional institutions were also directly collected by this Department.

The appended statement gives the number of educational institutions, number of scholars and number of teachers for 1958-59, as per the statistics collected by this Department.

A Summary of Educational Statistics of Kerala for the year 1958-59 (School-Standard only)

Serial No.	Type of Institutions	No. of Institutions		Enrolment		No. of teachers
		Government	Private	Boys	Girls	
1	2	3	4	5	6	7
1	Nursery .. ..	..	13	400	403	38
2	Primary/Junior Basic ..	2804	3984	944010	817609	43348
3	Middle/Senior Basic ..	532	1366	385983	300614	25402
4	High/Post Basic ..	239	607	335898	240126	22822
5	Professional and Special ..	79	216	11733	4600	994
	All Types ..	3654	6186	1678024	1363352	92604

IV. Statistics relating to Transfer of Agricultural Land

This Department continued to collect the data regarding transfers of agricultural land registered in the various Sub-Registry Offices of the State. The data were furnished by parties to the documents in the form prescribed by this Department and were received through the Sub-Registrars. The analysis of the data for 1959 was done with the aid of the Mechanical Tabulation Unit installed in the Department.

During the year 1959, altogether 3,12,225 deeds pertaining to transfers of agricultural land were registered in the State. The registration of documents was more or less evenly distributed over the different quarters. During the year under review a 20 per cent sample was selected on a systematic basis for the detailed analysis. For calculating the extent of land involved in the transfers all the documents were taken.

The following particulars for a deed were collected and analysed:—

1. Area transferred by type of land,
2. Kind of deed,
3. Value of deed,
4. Cause of deed,
5. Religion of transferor and religion of transferee,
6. Occupation of transferor and occupation of transferee, and
7. Area left with the transferor and transferee after transaction.

The grouping of deeds by kind was done as follows:—

1. Lease,
2. Sale,
3. Mortgage with possession,
4. Mortgage without possession,
5. Reconveyance,
6. Gifts,
7. Bhoodan,
8. Receipt,
9. Partition, and
10. Others,

Causes of deeds were classified as follows:

1. Dowry,
2. Marriage expenses,
3. Clearance of debt,
4. Purchase of other land,
5. Building construction,
6. Education,
7. Agriculture,
8. Trade,
9. Medical,
10. Partition,
11. Security, and
12. Others.

The occupation of the parties was broadly grouped under agricultural and non-agricultural.

The following are some of the important results obtained in the analysis of the data:—

(i) The total number of deeds regarding transfers of agricultural land registered during 1959 was 3,12,225 involving 4,40,298 acres of land.

The distribution according to kind of deed is as follows:—

Serial No.	Kind of deed	Percentages of deeds to total	Total area involved	Percentage of area to total area
1	Total	100·00	4,40,298	100·0
2	Lease	6·3	29,013	6·6
3	Sales	34·7	1,02,348	23·3
4	Mortgage with possession	11·3	15,956	3·6
5	Mortgage without possession	12·8	55,489	12·6
6	Reconveyance	7·6	28,157	6·4
7	Gifts	3·0	19,101	4·3
8	Bhoodan	..	1	..
9	Receipt	3·6	13,513	3·1
10	Partition	4·1	90,262	20·5
11	Others	16·6	86,418	19·6

(ii) The total area involved in the transfer by way of sales, mortgages (with and without possession), gifts and partition was 2,83,156 acres. The distribution of this area according to type of land is as follows:—

Kind of deed	Irrigated single crop	Unirrigated single crop	Irrigated double crop	Unirrigated double crop	Garden land	Total
Total	14,880	23,836	14,264	27,608	2,02,568	2,83,156
Sales	4,210	8,323	3,990	10,322	25,503	1,02,348
Mortgage with possession	517	1,126	847	1,713	11,753	15,596
Mortgage without possession	4,100	4,202	2,190	4,919	40,078	55,489
Gifts	1,139	2,136	1,146	1,927	12,753	19,101
Partition	4,914	8,049	6,091	8,727	62,481	90,262

Garden land constituted about 70 per cent of the total area transferred by way of sales, mortgages with possession, mortgages without possession, gifts and partition, irrigated single crop, 6 per cent, unirrigated single crop about 9 per cent, irrigated double crop, 5 per cent and unirrigated double crop about 10 per cent.

(iii) The average extent of land involved in a deed of mortgage with possession was 0.36 acres and average value per acre was Rs. 988. The average area involved in a sale deed during the year was 0.83 acres and the average sale value per acre was Rs. 972. It may be noted that almost all transfers by way of mortgage with possession occurred in the former Travancore-Cochin area. This explains the higher average value for mortgage with possession when compared to sale deed.

(iv) The most important single reason for transfer of agricultural land was clearance of family debt constituting 21.7 per cent of the total. The next important reason was purchase of other land (12.2 per cent). The pattern of distribution was almost the same from quarter to quarter.

(v) The transferors were agriculturists in the case of about 78 per cent of the documents executed during the year and agriculturists were transferees in about 66 per cent of the documents as may be seen from the subjoined table :—

	Occupation of Transferee	Occupation of Transferor	
		Agriculture	Non-agriculture
All	312,225 (100.00)	243,170 (77.88)	69,055 (22.12)
Agriculture	205,505 (65.82)	173,060 (55.43)	32,445 (10.39)
Non-agriculture	106,720 (34.18)	70,110 (22.45)	36,610 (11.73)

(The figures in brackets are percentages)

(vi) During the year under review the area of sale deeds involving partition of existing holdings was about 61 per cent of the total area transferred by way of sales. For mortgage with possession the area involving partition of existing holdings was about 68 per cent and for gifts it was about 45 per cent.

Considering the number of deeds, in the case of about 64 per cent of the sales, about 66 per cent of the mortgage with possession and about 56 per cent of the gifts, the existing holdings underwent partition.

V. Public Works Department Statistics

The Department continued to attend to the collection and compilation of statistics relating to road mileage and expenditure.

The data on road mileage (extra-municipal) and expenditure in the synoptic form for 1959-60 were collected and furnished to the Government of India during the year. The data are given below :—

Serial No.	Type of road	Mileage as on 31-3-1960		Expenditure during the year 1959-60 (Rs. in lakhs)					
		Under charge of Chief Engineer		* Local roads	Original works		Maintenance		Local roads
		** Urban area	Rural area		Under charge of Chief Engineer	Rural area	Under charge of Chief Engineer	Rural area	
1	Bituminous or Tarterd	..	1629	2	..	..	..	..	..
2	Concrete	..	73	11	..	..	..	..	..
3	Water bound macadam and pavements and stones..	..	3132	178	Break up not available	..	..	..	..
4	Lower Type	..	2776	1512	..	..	..	..	..
	Total	..	7610	1703	65.38	4.23	100.01	1.03	..

NOTE :—1. National Highways included. Administration expenses, expenditure on establishment, tools and plants and loan charges, etc., ignored.

2. The mileage and expenditure for roads under N.E.S. and Community Development Blocks not given.

3. * Roads under the control of Panchayat.

4. ** Roads within the limits of a Municipality or Corporation. (The figures are provisional.)

District-wise information on roads in the State for 1958-59 and 1959-60 was also collected for supply to the Government of India and the State Government (vide the following statement for 1958-59).

More detailed information on roads and bridges were also collected for 1958-59 and 1959-60 in the proforma mentioned below :—

(i) Statement showing mileage of extra-municipal roads maintained by Public Authorities (Five-Year Plan and outside).

(ii) Statement showing mileage of extra-municipal roads maintained by the Forest Department, Irrigation Department and the Military Engineering Service.

(iii) Statement of expenditure incurred on extra-municipal roads maintained by Public Authorities (Five-Year Plan and outside).

(iv) Statement showing particulars of and expenditure on major bridges.

(v) Statement showing mileage and expenditure on public roads in urban areas.

District-wise Rural road mileage and expenditure statistics for the year 1958-59

District	I Metalled				II Non-metalled				III Motorable			IV Unmotorable		Rs.	
	Concrete	Black top	Water bound	Total	Gravel	Soil stabilised	Earth surface	Total	I and II total	All weather	Fair weather	Total	Umotorable		Total motorable and unmotorable
Trivandrum ..	12	213	362	587	459	5	45	509	1096	1034	18	1052	44	1096	8,77,456
Quilon ..	..	50	293	343	186	168	361	715	1058	622	252	874	184	1058	19,68,052
Kottayam ..	11	111	506	628	4	7	1179	1190	1818	943	63	1006	812	1818	18,81,679
Alleppey ..	19	84	167	270	337	32	743	1112	1382	990	100	1090	292	1382	7,90,032
Ernakulam ..	..	169	361	530	141	72	525	738	1268	720	233	953	315	1268	27,21,513
Trichur ..	16	188	361	565	44	5	228	277	842	829	8	837	5	842	11,37,927
Palghat ..	7	150	436	593	2	16	106	124	717	308	176	484	233	717	17,62,866
Kozhikode ..	2	208	464	674	93	53	35	181	855	552	227	779	76	855	22,28,476
Cannanore ..	..	66	264	330	51	262	537	850	1180	394	561	955	225	1180	29,69,902
Total (State)..	67	1239	3214	4520	1317	620	3759	5696	10216	6392	1638	8030	2186	10219	1,63,37,903

SOURCE: (1) Executive Engineer (PWD), (2) Community Development Block, (3) Irrigation Department, (4) Forest Department, (5) Municipalities.
(The figures are provisional)

CHAPTER V—VITAL STATISTICS AND DEMOGRAPHIC RESEARCH

I. Vital Statistics

The Department of Statistics is responsible for the compilation, analysis and publication of vital statistics in the State.

A. Source of data

1. *Birth and Death Returns.*—The data relating to the former Travancore-Cochin area continued to be supplied by the Health Services Department and that relating to Malabar Region by Revenue Officers, in the case of rural areas. The data relating to municipalities are supplied by the Municipal Commissioners.

2. *Data on Epidemic, Notified Diseases and Vaccination.*—Data relating to municipal towns continued to be supplied to this Department by the Municipal Commissioners. The data relating to other areas are supplied by the concerned officers of the Health Services Department. The Department is tabulating births and deaths by date of registration since January 1960 instead of by date of occurrence as required by the Registrar General of India. During the year under review also much difficulty was felt in the tabulation of data owing to the inordinate delay of the reporting agencies in Travancore-Cochin area to send the returns in time. The matter was taken up with the concerned officers.

B. Publications of the Section

The quarterly bulletin of the vital statistics continued to be issued from this Section. The contents of the same are mainly the following :—

- (i) The number of live births according to religion and sex.
- (ii) The number of deaths according to religion and principal diseases.
- (iii) Infant deaths and maternal deaths.
- (iv) Still births.
- (v) Incidence of small-pox
- (vi) Births, deaths, infant deaths, maternal deaths, etc., in towns with population of 30,000 and over.
- (vii) Order of birth by age of mother relating to towns having a population of one lakh and over.
- (viii) Vital rates.
- (ix) Comparison with the last quarter.
- (x) Population figures.

The following statements were also issued from this Department in the period under review:—

- (i) Daily report of epidemic diseases.
- (ii) Weekly report of epidemic diseases.

- (iii) Weekly telegrams of epidemic diseases.
- (iv) Weekly statement of deaths from communicable diseases in towns with a population of 30,000 and over.
- (v) Weekly statement of notified diseases relating to various Districts of the State.
- (vi) Monthly statements of vital statistics.
- (vii) Quarterly statements of vital statistics.
- (viii) Annual statements of vital statistics.
- (ix) Annual statements of vaccination and inoculation.

The number of registered births for the State during the year 1960 is 376,664 the birth rate working out as 23.92 per mile. The number of registered deaths is 109,243 and the death rate works out to 6.94 per mile of population. The number of infant deaths reported was 14,987 and the infant death rate per mile of live births is 39.79. The number of still births and maternal deaths reported were 4,450 and 796 their rates being 11.68 and 2.09 respectively per mile of total births (still+live).

A district-wise statement of vital events registered in 1960 is enclosed.

District-wise figures of births, deaths, infant deaths, still births and maternal deaths and their rates for the year 1960

State	Rural	Urban	Live births		Deaths		Infant deaths		Still births		Maternal deaths	
			Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State	376664	23.92	109243	6.94	14987	39.79	4450	11.68	796	2.09		
Trivandrum District	313801	22.13	92967	6.56	12988	41.39	2197	6.95	671	2.12		
	62863	40.09	16276	10.38	1999	31.80	2253	34.60	125	1.92		
	40022	25.59	9423	6.02	1156	28.88	631	15.52	61	1.50		
	2581	19.82	6434	4.94	806	31.22	55	2.13	54	2.00		
Quilon District	14203	54.42	2989	11.45	350	24.64	576	38.97	7	0.47		
	43405	24.96	9395	5.40	1137	26.20	708	16.05	88	1.90		
	38588	23.27	8718	5.26	1086	28.14	395	10.13	80	2.05		
	4817	59.47	677	8.36	51	10.59	313	61.01	8	1.56		
Alleppey District	39504	22.06	11257	6.29	1009	25.54	194	4.89	64	1.61		
	31627	20.60	9248	6.02	811	25.64	96	3.03	54	1.70		
	7877	30.77	2009	7.85	198	25.14	98	12.29	10	1.25		
Kottayam District	43935	28.07	10500	6.71	1811	41.22	383	8.64	76	1.71		
	39562	27.55	9556	6.65	1742	44.03	342	8.57	73	1.83		
	4373	33.90	944	7.32	69	15.78	41	9.29	3	0.68		
Ernakulam District	38297	21.24	9098	5.05	1148	29.98	444	11.46	72	1.86		
	27791	18.66	6748	4.53	900	32.38	175	6.26	56	2.00		
	10506	33.46	2350	7.48	248	23.61	269	24.97	16	1.48		
Trichur District	27503	17.14	7176	4.47	953	34.65	331	11.89	42	1.51		
	22276	15.03	6224	4.20	888	39.86	102	4.56	40	1.79		
	5227	42.50	952	7.74	65	12.44	229	41.97	2	0.37		
Palghat District	40705	22.92	16312	9.18	2718	66.77	424	10.31	100	2.43		
	36996	22.15	14335	8.94	2509	67.82	307	8.23	95	2.55		
	3709	34.99	1377	12.99	209	56.35	117	30.58	5	1.31		
Kozhikode District	56861	24.26	20707	8.83	2694	47.38	889	15.39	184	3.19		
	47985	22.42	16894	7.89	2045	42.62	417	8.62	133	2.75		
	8876	43.51	3813	18.60	649	73.12	472	50.49	51	5.46		
Cannanore District	46432	29.75	15375	9.85	2361	50.85	448	9.51	109	2.33		
	43137	28.42	14210	9.69	2201	51.09	308	7.09	86	1.98		
	3275	34.84	1165	12.39	160	48.85	138	40.43	23	6.74		

II. Demographic Research Unit

The Demographic Research Unit in the Department of Statistics was sanctioned by Government in G.O. (Ms.) No. 470, dated 2nd July 1958. The Unit began functioning from 14th August 1958. The Unit was started mainly for conducting investigations on fertility and mortality rates and socio-economic factors associated with them. During the year under review the following items of work were undertaken by the Centre.

1. Surveys

A. *Survey on Attitude to Family Planning.*—A pilot survey on attitude to family planning was conducted in Trivandrum City during 1958 to January 1959. The survey was intended to

- (1) estimate the percentage of persons who favour family planning;
- (2) estimate the percentage of persons who prefer known methods of contraception;
- (3) study of fertility according to income and occupation; and
- (4) study of spacing of births.

Information on demographic particulars of all the household members and fertility particulars of couples were collected. After the completion of the Pilot Survey, it was extended to all the District Headquarters and to the Municipal Town of Attingal. The field work of the survey was over in 1959-60. The number of households enumerated in each of the towns were the following:—

Town	No. of households enumerated
Trivandrum	1311
Quilon	595
Kottayam	487
Alleppey	627
Ernakulam	569
Trichur	503
Palghat	510
Kozhikode	459
Cannanore	356
Attingal	385

The data collected were tabulated and analysed. Tabulation and analysis is over for all Centres except Trichur. A preliminary report issued in May, 1960 on the survey in Trivandrum was revised and the final report approved by Government is being printed at Government Press, Trivandrum. Preparation of reports on other Centres are almost over and the reports will be finalised. The important findings of the survey are given below:—

TABLE I

Knowledge of family planning

Percentage distribution of husbands in the various Centres according to their knowledge of family planning.

Centre	Not concerned		Knowledge of family planning		
	Oldage	Refused and not recorded	Nil	Vague	Sufficiently good
1	2	3	4	5	6
Trivandrum ..	15.32	1.46	66.42	9.30	7.50
Quilon ..	0.32	1.01	43.60	20.76	34.31
Alleppey ..	1.22	1.33	86.95	3.36	7.14
Kottayam ..	0.20	1.39	44.24	29.00	25.17
Ernakulam ..	0.74	20.05	62.88	5.44	10.89
Palghat ..	..	2.71	83.16	9.30	4.83
Kozhikode ..	0.40	6.02	79.04	9.75	4.79
Cannanore ..	0.99	3.77	32.38	57.34	5.52
Attingal ..	..	5.20	20.38	23.67	50.75

TABLE II

Percentage of couples who favour family planning revealed by their view on the number of children desired
(Couples who prefer to have four or less children)

Centre	Percentage of couples	
	Husband	Wife
Trivandrum ..	72	N.A.
Quilon ..	61	56
Alleppey ..	67	70
Kottayam ..	64	68
Ernakulam ..	42	42
Palghat ..	38	38
Kozhikode ..	Only very small percentage give any information.	
Cannanore ..	54	50
Attingal ..	54	56

TABLE III
Average number of children born alive and living to all married females in the various centres

Centre	Average number of children	
	Born alive	Living
Trivandrum ..	3.82	3.12
Quilon ..	3.94	3.12
Alleppey ..	4.00	2.94
Kottayam ..	4.18	3.67
Ernakulam ..	3.83	3.12
Palghat ..	4.41	3.32
Kozhikode ..	3.46	2.78
Cannanore ..	3.49	2.66
Attingal ..	4.22	3.46

TABLE IV
Average interval (months) between effective marriage and 1st termination and between successive terminations

Centre	Interval (months) between	
	Effective marriage and first termination	Successive terminations
Trivandrum ..	35	27
Quilon ..	32	27
Alleppey ..	36	27
Kottayam ..	39	27
Ernakulam ..	37	32
Palghat ..	39	27
Kozhikode ..	36	31
Cannanore ..	40	27
Attingal ..	30	28

B. One per cent Sample Census of Population, Births, and Deaths.—The field work of the one per cent Sample Census was conducted in February 1961. The selection of sample and preparation of questionnaire and instructions to field workers were done in the Centre.

2. Statistical Analysis

Family Planning Case Cards.—A survey was conducted by Family Planning Social Workers attached to Attipra Clinic in Trivandrum on the Demographic aspects of the people around the clinic. A general survey of the people around the clinic was followed by a special survey of couples. The data collected up to the end of 1959 were taken up for analysis during 1959-60. The analysis was completed during the year and a draft report was issued in August 1960. The salient features brought out by the analysis were that the structure of the population in the village reveals that it is necessary to encourage family planning. Out of 3,004 females in the village 188 females in the village between 25

and 44 years and having 5 or more children are to be actively considered for application of family planning methods. 79 couples are at present visiting the clinic.

3. Research Studies

The Research Studies undertaken in the Centre during the year under review are the following:—

(a) *The effect of Marumakkathayam on the Fertility pattern in Kerala.*—Collection of data from the Sub-Registry Office, Trivandrum is over. During the discussions with Registrar-General of India on 16th February 1961, he suggested a household survey to find out the fertility during the transition stage (i.e., change from Marumakkathayam to Makkathayam). The Survey will be started soon.

(b) *Origin and growth of Towns.*—A study is proposed to be conducted on the origin and growth of important Towns in Kerala. The study of Trivandrum City is taken up first. The relevant data for this study are being collected.

(c) *A comparative study of the demographic characteristics of certain occupational groups.*—The data collected by various surveys of the Department were used for this study. The occupational groups considered were toddy tappers, tea plantation workers and agricultural labourers. These groups were compared with respect to size of household, age and sex composition, economic status, marital status, fertility, literacy, earnings and expenditure, debt position and elasticity of expenditure. The important findings of the study the report of which was published in December 1960, are the following:—

The average household size of toddy tappers and agricultural labourers are about 6 while that of the plantation workers is about 5. The sex ratio (females per 1,000 males) is 951 for agricultural labourers, 960 for toddy tappers and 1,038 for tea plantation workers. The percentage of self supporting persons were 26 among agricultural labourers, 21 among toddy tappers and 42 among tea plantation workers. The average monthly expenditure is Rs. 137 for toddy tappers and Rs. 139 for tea plantation workers. The average amount of loans outstanding against toddy tappers' households and tea plantation workers are Rs. 125 and Rs. 278 respectively.

Considering all aspects, tea plantation-workers can be considered to be more prosperous.

(d) *A comparative study of the Demographic Characteristics of the States in India and other Countries.*—The demographic characteristics of Kerala will be compared with those of the States of India and other countries. Data required for the study are being collected from census tables, statistical abstracts, demographic year book, etc.

(e) *A study on the Incidence of Small-pox in the Travancore-Cochin part of Kerala State.*—Data on attacks and deaths due to small-pox are available for Travancore-Cochin part of Kerala State. For the present study, date from January 1951 to December 1959 were used. The

data used were collected by the staff of the Health Department. The important inferences derived from the study are given below :—

1. The average rate of incidence of small-pox is nearly 15 per lakh persons varying from 6 to 25.
2. The average rate of death due to small-pox is 5.4 varying from 3 to 11 per lakh persons.
3. 'Death rates' among those attacked by small-pox is 0.37 varying from 0.28 to 0.43.
4. There is definite seasonality in the incidence of the disease, January to April being the peak period. Deaths also show the same seasonal nature.

A report on the study was issued on December 1960.

(f) *Mortality table for Kerala (1941—1950).*—A mortality table for Kerala State for 1941—1950 was constructed on the same lines as that constructed by Census Actuary for India for males and females separately. The mortality table was published in December 1960. Broadly the life tables for Kerala show a distinctly lower level of mortality compared to others. For Kerala, expectation of life increases from its value at birth up to age 3 and then begins to decrease. The expectations of life at various ages are given below for Kerala, South Zone and India.

Age	Expectation of life					
	Kerala		South Zone		India	
	Male	Female	Male	Female	Male	Female
	2	3	4	5	6	7
0	39.89	42.34	36.22	37.23	32.45	31.66
1	46.44	48.49	..	..	..	..
2	47.77	49.55	..	..	..	..
3	48.07	49.56	..	..	..	..
4	47.88	49.30	..	..	..	..
5	47.51	48.98	44.26	45.47	40.86	40.91
10	44.37	46.34	42.04	43.32	38.97	39.45
15	40.47	42.71	38.97	39.94	36.24	36.56
25	32.32	33.99	32.21	32.30	29.78	29.30
45	18.58	19.53	19.63	20.25	17.63	18.61
65	8.89	8.99	8.73	8.99	8.18	9.29

4. Training

Training of Gramasevaks and Health Inspectors in Collection, Compilation and analysis of data with special reference to vital statistics and Population Census.—This is done under the auspices of the Environmental Sanitation Pilot Project, Trivandrum. The Assistant Director (Demography) has taken up this work. The trainees are given an elementary course on the concepts of statistics with special reference to Vital Statistics and Population Census. 25 trainees are trained up every month.

5. Study tour

Sri R. Sivasankara Kurup, Assistant Director and Sri B. Thrivikraman Pillai, Research Officer, conducted a study tour for 6 weeks from 11th February 1961 to 28th March 1961 as sanctioned in G.O. (Rt)236/Plg., dated 2nd February 1961. They visited the Offices of the Director General of Health Services, New Delhi, Registrar General, New Delhi, Demographic Research Centre, New Delhi, All India Institute of Hygiene and Public Health, Calcutta, Demographic Research Centre, Indian Statistical Institute, Calcutta, Demographic Research and Training Centre, Bombay and Gokhale Institute of Economics and Politics, Poona. They had valuable discussions with eminent demographers in India. 65 papers on demography collected from the various centres visited have been placed in the library. The Officers have suggested the following studies which are being taken up :—

- (1) Intensive village survey in Sreekaryam Village in the model of Delhi Survey.
- (2) Study on sterilised persons as done in the Poona Institute.
- (3) Follow-up study of visitors to Family Planning Clinics as done in the Delhi Centre.
- (4) A survey on Marumakkathayam as per directions of the Registrar General.
- (5) A study on birth weight of infants as done in the Calcutta Centre.

6. Publications

During the year under review, the following publications were issued from the Centre :—

- (1) Draft report on the analysis of data collected by Family Planning Clinic, Attippra.
- (2) A comparative study of the Demographic Characteristics of various occupational groups.
- (3) Mortality tables for Kerala (1941—1950).
- (4) A note on the incidence of small-pox in Travancore-Cochin part of Kerala State.
- (5) Attitude to Family Planning—Report on the survey conducted in Trivandrum City.

7. Visitors

The following is a list of visitors to the Centre :—

1. Dr. V. K. R. V. Rao—Chairman, Demographic Advisory Committee
2. Col. B.L. Raina—Director, Family Planning
3. Mr. Ashok Mitra—Registrar-General of India
4. Dr. Anderson—World Health Organisation
5. Dr. D. V. Glass—London School of Economics
6. Mr. P. C. Mathew—Director, Central Statistical Organisation
7. Dr. Parker Mauldin—Associate Director, Population Council, New York
8. Dr. Ronald Friedman—Head of the Department of Sociology, University of Michigan
9. Mr. Rajeswar Prasad—Chief Director, National Sample Survey

CHAPTER VI—OTHER SAMPLE SURVEYS

I. National Sample Survey

During the year under review the 15th Round National Sample Survey was completed and the 16th Round was started. The programme of work for the present round envisages collection of data on :—

1. Ownership of land and details of Operational Holding ;
2. Area under crops and yield of important cereals (Rural);
3. Household indebtedness (Rural and Urban);
4. Employment and unemployment (Rural);
5. Retail prices of important commodities (Rural);
6. Consumer Expenditure (Rural and Urban);
7. Attitude towards Family Planning (Urban);
8. Urban Labour Force (Urban);
9. Population, Births and Deaths (Urban).

The schedules and instructions prepared by the Indian Statistical Institute are being canvassed for the Survey. Altogether 144 villages and 64 urban blocks were selected for enumeration in this round.

Sampling design (Rural) : In the State contiguous districts having similar crop patterns and population densities were grouped together to form regions. Within a region, contiguous tahsils fairly homogenous with respect to population densities were grouped together to form compact strata such that the rural populations of the strata were approximately equal. The number of strata formed in a region was one-eighteenth of the allocation to that region. The State was divided into eight rural strata and villages were selected from the above strata with equal probability.

Sampling design (Urban) : The whole of India was divided into two sectors—the first sector consisting of towns and cities with a population (1951 Census) of 50,000 and above and the second consisting of

the rest of the Urban areas. In the first sector, States formed the strata, whereas in the second sector Regions within States were the strata. The allocation to the States was rounded off to the nearest multiple of 16.

Field work relating to the survey is being attended to by 16 Investigators in Rural Samples and 4 Investigators in Urban Samples. There are two leave reserve Investigators also posted for the survey. Supervision of field work is done by 4 Statistical Inspectors posted at Quilon, Kottayam, Trichur and Kozhikode.

Analysis : Analysis of the data collected through the various rounds of National Sample Survey is being done in the Department. During the year under report analysis relating to the following schedules were completed :—

1. Livestock products (15th round);
2. Land Utilisation (do.);
3. Small Scale Manufacture and Handicrafts (14th round);
4. Population, Births and Deaths; (do.);
5. Income and Expenditure (13th round);
6. Income and Expenditure (14th round) (not completed);

In addition to the above the scrutiny of the filled-in schedules was also attended.

A sample check of the 1961 Population Census was also undertaken by the National Sample Survey Directorate during the close of the year under review. This Department has also participated in the check. The sampling design was the same as that adopted in the 16th Round. Altogether 23 Rural and 12 Urban Samples were selected for the survey. The following Schedules are being canvassed.—

1. Schedule L (C)—Listing of houses and sample selection;
2. „ A —Listing of members;
3. „ B —Household particulars.

The full expenditure on the scheme is met by the Government of India.

II. Fixed Point Fixed Time Survey

The survey was carried out on behalf of the Director, Bureau of Economic Studies. The Schedules, Instructions and other details of the survey were prepared in the Bureau of Economic Studies. The field work and supervision of the survey were carried out by the Department of Statistics. The purpose of the survey was to enquire into the changes in the economic variables. Four rounds of the survey were conducted during the year 1960-61. The period of the survey was the first week of May, August, November 1960 and second week of March 1961. The households surveyed for the previous two rounds during 1959-60 were enumerated during these rounds also. Analysis of the data is being done in the Office of the Director, Bureau of Economic Studies.

III. Sample Survey for the correct Estimation of Area under and yield of Coconuts and Arecanuts in the State

The first round of the Coconut and Arecanut Sample Survey was completed towards the end of June 1960 and the report on the findings of the survey was finalised towards the end of January 1961. The reports were separately prepared for the Coconut and Arecanut Crops.

The second round of the survey was started in July 1960. For this round also 200 villages were selected among which 50 were those retained from the previous round. Towards the end of March 1961, work relating to the enumeration of palms for area estimation was completed in 177 villages and that relating to the collection of data for the study of cultivation practices was completed in 102 villages, out of the 200 villages selected for the work. Collection of data relating to yield estimation, was in progress in all the selected villages.

Due to the heavy workload involved in the tabulation and analysis work four additional posts of Compilers were sanctioned towards the end of the period under reference. Tabulation of the data relating to those villages where the work was completed was in progress.

The selection of villages for the 3rd round of the survey due to start in July 1961 was completed and the list of sample villages supplied to the field.

The expenditure on the Scheme is shared equally by the Indian Central Coconut Committee and Indian Central Arecanut Committee. The expenditure for the year under report was about Rs. 64,020.

IV. Survey for the Enquiry into the Cost of Cultivation of Coconuts

The Indian Central Coconut Committee is the sponsor of the scheme and it is sanctioned by the Government of India. The over all technical supervision rests with the Indian Council of Agricultural Research.

The entire cost is met by the Indian Central Coconut Committee. The expenditure for the year under report was Rs. 52,980.

The survey is conducted in two rounds each of one year duration, corresponding to the agricultural years 1960-61 and 1961-62 respectively.

The field work with regard to the first round fell was done during the year under report. Data for the following schedules were collected by the field staff during the period : —

1. Schedule I—General particulars of the selected village.
2. " III—Demographic particulars of households.
3. " IV—Details on daily operation in the selected holdings.
4. " V—Crop Cutting Results.
5. " VI—Disposal details of the produce in the selected holdings.
6. " VII—Disease particulars.

The Office Staff attended to the scrutiny of the schedules and getting them corrected wherever necessary.

The Special Officer conducted monthly inspections on the field work and gave necessary guidance to the field staff, for the improvement of their work. The Research Officer was responsible for clearing any technical difficulty with regard to the scheme. The Assistant Director in charge of the Scheme continued to supervise the work both in the field and in the office. The advice from the Indian Council of Agricultural Research was obtained in all technical matters of importance.

V. Surveys sponsored by the Indian Council of Agricultural Research

1. *Sample Survey of Village Panchayats.*—With a view to assess the health of the Panchayat movement in the State, a Sample Survey of Panchayat was conducted during the year 1959-60. The survey was conducted at the request of the Ministry of Community Development and Co-operation and the survey was carried out under the technical supervision and Administrative Control of the Department of Statistics. The collection of data alone could be completed during the year 1959-60. The analysis of the data was completed and the report was published during the year under report.

2. *Sample Survey of Physically handicapped employment seekers.*—A sample survey of physically handicapped employment seekers was conducted by the Statistics Department during the year under report.

The object of the survey was to collect information on the number of physically handicapped persons in the State, the number of employment seekers among them, the nature of the employment they are seeking and their educational qualification and skill.

The survey covered all the nine districts of the State. The data relating to the Survey was collected by the Investigators by visiting the household. The survey began on the 1st of November 1960 and was scheduled to be completed by the end of April 1961. But it could be completed only in June 1961. The tabulation and analysis of the data is being done by the Department of Statistics and the report will be prepared and published during 1961-62.

3. *Pilot Survey on Cashew Cultivation.*—The Pilot Survey on Cashew Cultivation sponsored by the Indian Council of Agricultural Research to estimate the area under and yield of cashewnut in Kerala, to collect information on the Cultivation practices of the crop and to evolve a suitable sampling technique for collection of such data in future was started in January 1960. It was continued during the year under report and the field work was completed in February 1961.

The survey was conducted in 24 taluks, important for cashewnut cultivation in the State and the Sampling Plan adopted for the survey was one of stratified multi-stage sampling.

The field work alone was done by the staff of the Department of Statistics. The analysis of data is to be done by the Indian Council of Agricultural Research. The estimated cost of the survey was

Rs. 21,660 and the entire cost of the scheme was borne by the Indian Council of Agricultural Research.

VI. The Pilot Sample Survey of Registrants at the Employment Exchange, Trivandrum

In order to ascertain the proportion of the applicants on the Live Register of the employment exchange who are employed persons, a Pilot Sample Survey was conducted by the Department during 1960-61. The survey was confined to the registrants at the Trivandrum Employment Exchange. Though 300 households were selected for the survey only 210 households could actually be enumerated due to various reasons. The analysis of the data is in progress and the report will be issued shortly.

VII. Pilot Survey on Banana Crop

This survey was also sponsored by the Indian Council of Agricultural Research and the Planning and Organization of the Survey was done by the Department of Statistics. The field work was done by the field-men of the Agriculture Department under the Administrative Control of the Department of Agriculture.

The object of the survey was to collect reliable information on the extent of Banana Cultivation, Yield and Cultivation practices of banana crop and to evolve a suitable sampling technique for the collection of such data in future.

The survey was conducted in the four important banana growing districts namely, Kozhikode, Palghat, Trichur and Ernakulam. The survey was started in January 1960 and was expected to be completed in March 1961. The period of the survey was further extended to three months more, with a view to collect the yield data in harvest for a complete agricultural year.

As per the plan 90 villages were selected for enumeration of banana plants. Information on yield and cultivation practices was obtained from 180 banana orchards and 300 survey numbers, growing plantain crops. The analysis of the data will be done by the Indian Council of Agricultural Research. The estimated cost of the scheme was Rs. 28,500 and the entire cost of the scheme was borne by the Indian Council of Agricultural Research.

VIII. Pilot Investigation on Cardamom Cultivation

The survey was sponsored by the Indian Council of Agricultural Research and the field work was done by the Department of Statistics. The object of the survey was to obtain by the method of random sampling information on the area under and yield rate of cardamom crop in the State, to collect information on the various cultivation practices and to evolve a suitable sampling technique for the collection of such data in future.

The survey was conducted in the Kottayam and Ernakulam Districts which covers nearly 90 per cent of the area under Cardamom in the State. The survey was started on the last week of June 1960 and was completed in June 1961. There is a special officer specially posted for the survey.

The tabulation and analysis of data will be done by the Indian Council of Agricultural Research. The estimated cost of the scheme was Rs. 28,000 and the entire amount was borne by the Indian Council of Agricultural Research.

CHAPTER VII—SECOND FIVE-YEAR PLAN SCHEMES OF STATISTICS DEPARTMENT, 1960-61

There were nine Plan Schemes of the Department in the year 1960-61. They were :

1. Estimation of area under and production of minor crops.
2. Survey of Cultivable Waste Lands.
3. Analysis of data from Schemes (1) and (2) above.
4. Construction of Index number series relating to Agricultural Economy.
5. National Index of Field Experiments.
6. Planning Statistics.
7. Diagnostic Studies and Supervision.
8. National Income Unit.
9. Demographic Research Unit.

All these schemes were continuing ones having been implemented in the earlier years. The total Budget provision for these schemes for the year was Rs. 3.79 lakhs. The expenditure on these schemes during the year under review came to Rs. 3.11 lakhs or 82 per cent. The object and scope of the schemes are briefly given below :—

1. *Estimation of area under and production of Minor Crops.*—The object of the scheme was to frame reliable estimates of area under and production of minor crops in the State through Sample Surveys. As Kerala State is mainly a non-reporting area, the regular conduct of this survey is the only means to frame reliable estimates of area and production of all commercially important crops though considered to be minor in regard to area.

2. *Survey of Cultivable Waste lands.*—The object of the scheme was to assess the location, extent and size distribution of Waste Lands in the State and the reasons for leaving them uncultivated.

3. *Analysis of data from Schemes (1) and (2) above.*—The object of the scheme was to process and analyse the data obtained from the two surveys referred to above.

4. *Construction of Index Number Series relating to Agricultural Economy.*—The object of the scheme was to construct the following Index Numbers on a regular and continuing basis :—

- (1) Index of Agricultural production
- (2) Index of export of agricultural commodities
- (3) Index of wholesale and retail prices of agricultural commodities
- (4) Index of Agricultural Wages and
- (5) Index of parity between prices received and prices paid by farmers.

Monthly indices were computed in respect of items (3), (4) and (5) mentioned above and yearly indices in regard to items (1) and (2).

5. *National Index of Field Experiments.*—The object of the scheme was to render technical assistance to the Department of Agriculture in the fields of designing agricultural field experiments and analysing the results accruing therefrom. The results of the analysis were being reported to the concerned Agricultural Research Stations.

6. *Planning Statistics.*—The Statistical Cell for planning established in the Department in March 1957 was attending to the compilation and maintenance of complete and up-to-date data relating to the various individual plan schemes of the State..

7. *Diagnostic Studies and Supervision.*—The object of the scheme was to establish District Statistical Offices in all Districts of the State with a view to conduct effective supervision of the work of the field staff in order to improve the quality and timeliness of the data, to co-ordinate the statistical activities at the District Level and to conduct Diagnostic Studies and reconcile the discrepancies in the data available with different agencies.

8. *National Income Unit.*—The object of the scheme was to estimate the regional income of the State of Kerala.

9. *Demographic Research Unit.*—The object of the scheme was to undertake studies on the following :—

(i) Age specific maternity rates with special reference to income, occupation and food habits ;

(ii) Age specific death rates with reference to income, occupation and cause of death ;

(iii) Incidence of physical defects like blindness, deafness, deafmutism, etc. ;

(iv) Incidence of diseases ;

(v) The macro-economic implications of the population size, e.g., population and investment, change in income, and consumption pattern.

The unit established in August 1958 continued to function during the year under review.

CHAPTER VIII—PUBLICATIONS

The work of this section relates mainly to the collection, compilation and publication of the data relating to the more important aspects of the States Administration and Economy. The regular publications issued in this respect are (i) Annual Statistical Abstract and (ii) Quarterly Bulletin of Statistics. In addition to these periodical publications giving information of a basic nature (for the State) and charts and diagrams representing the Socio-economic aspects of the State are also

prepared for publication. The details of the publications issued by the Department during the year are given below :—

1. *Annual Statistical Abstract*.—During the period, the third issue of the Annual Statistical Abstract (for the year 1958-59) was prepared and sent to the Government Press for printing. Compared to the abstract for the year 1957-58, the coverage and scope of this issue have been widened. Details on the area and population, Agriculture, Veterinary Service, Industries, Labour and Employment, Education, Registration, Judicial, Planning and Development, Prices, etc., are presented in the various Statistical Tables included in the Publication.

2. *Quarterly Bulletin of Statistics*.—This is a publication giving data on the quarterly changes in the important sectors of economic and social activity. During the year, the third and fourth issues of the Bulletin were published. The coverage of the bulletin has been enlarged by including data on working of courts, index of agricultural wages, small savings, registration of factories, etc. Annual data on some of the important aspects of the States administration and economy have also been included in the later issues.

The sale of the publication is arranged through the Government Press, Trivandrum.

3. *Statistical Outline of Kerala, 1960*.—is a handy reference book, giving basic information about Kerala State. In order to facilitate a comparative study, data relating to the other Indian States have also been incorporated in the publication.

During the year under review, 1000 copies of the publication were printed, (700 copies for sale and 300 copies for distribution on a complimentary basis). The sale of the publications has been entrusted with the Superintendent of Government Presses, Trivandrum.

4. *Kerala in Maps, 1960*.—It contains 34 big size maps representing the important aspects of Kerala. Though prepared during last year it was got printed only during the year under review. Out of the 1000 copies already printed, about 700 copies are kept in the Government Press, Trivandrum, for sale. Some copies were distributed on a complimentary basis and few other copies on a reciprocal basis.

During the year, steps were taken to augment the sales of the various publications of the Department. Wide publicity on the contents and utility of the data included in the publications is proposed to be given by advertising in the local dailies and also in newspapers with circulation all over the country. The publication of the issues of the Annual Statistical Abstract for the years 1952-56, to 1956-57, 1957-58 and 1958-59 is held up due to the delay in printing them in the Government Presses.

The supply of statistical information required by various official and non-official agencies in the State and also out-side the State was also, attended to.

A list of the Departmental Publications is given below :—

Important Statistical Publications of the Kerala State Statistics Department

Regular						Ad-hoc publications issued during 1956-61	
Title	Periodicity	Month and year of 1st issue	Month and year of last issue	Remarks	Title	Month and year of issue	
1. Basic Statistics	2 "	3 1957	4	5	6	7	
2. Statistical Outline of Kerala	..	1960	..	..	1. Report on Survey of Cultivable Waste Land.	Four Parts 1957 1958 1959 1960 1959
3. Review of Economic Trends	Monthly	May 1958	July 1958	It has since been discontinued	2. Origin Destination Survey (T.C. State)	1959	
4. Vital Statistics Bulletin	Quarterly	1st quarter 1956	2nd quarter 1960	..	8. Report on Census of Handloom (T.C. State)	1959	
5. Prices Bulletin	"	July 1956	March 1958	..	4. Report on Prohibition Survey	1960	
6. Report on transfers of Agricultural Land	Quarterly Annual	1st quarter 1956	Last quarter 1957 1958	No issue for December 1956 and 1957	5. Report on Family Budget Survey of Toddy Tappers	1960	
				..	6. Report on Census of Land Holdings and Cultivation (T.C. State) (Parts I and II) (4 volumes) (confidential)	1958	

Important Statistical Publications of the Kerala State Statistics Department—(cont.)

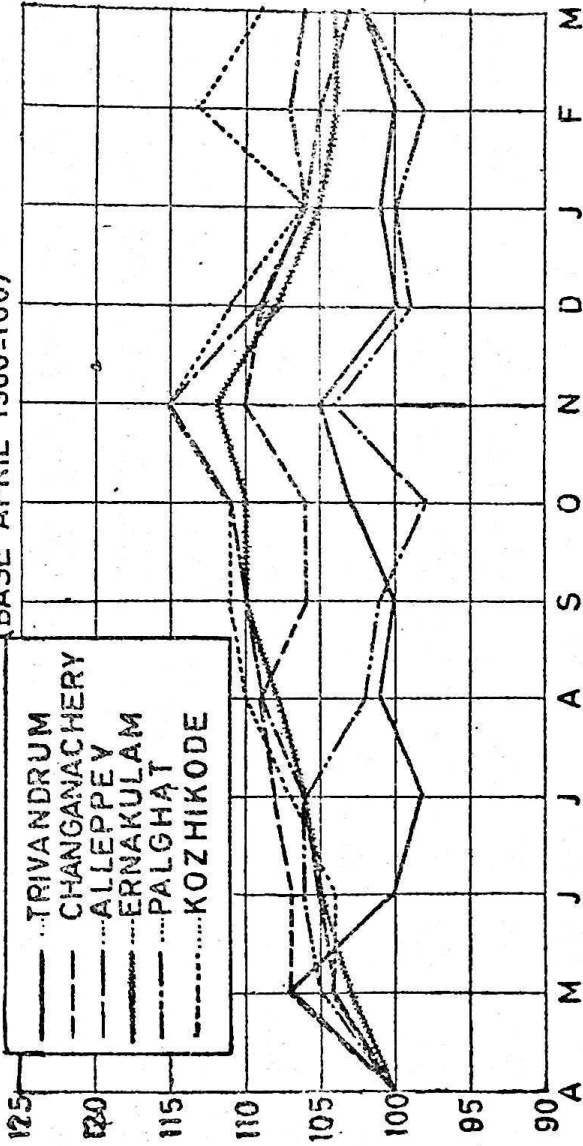
Regular					Ad-hoc publications issued during 1956—61	
Title	Periodicity	Month and year of 1st issue	Month and year of last issue	Remarks	Title	Month and year of issue
1	2	3	4	5	6	7
7. Quarterly Bulletin of Statistics on the Crop Cutting Survey on Kumbhom Crop of Paddy	Quarterly	September 1958	June 1959	..	7. Report on Nutritional Diet Survey of workers in Tea Plantations in Kerala in Maps	1960
8. (a) Report on the Crop Cutting Survey on Kanni Crop of Paddy	Half-yearly	1951	1961	..	8. Kerala in Maps	1960
(b) Report on the Crop Cutting Survey on Kanni Crop of Paddy	"	1951	1960	..	9. Pilot Survey of Beggars and destitutes in Trivandrum City	1960
9. Season and Crop Report (T.C. State)	Annual	1952-53 to 1955-56	..	..	10. A Note of Vital events in the residuary Travancore-Cochin area of Kerala	1959
10. Season and Crop Report (Kerala)	"	1956-57 1957-58 1958-59	..	..	11. Trend in Registered Births and Deaths	1959

11. Budget at a Glance	"	1958-59	1959-60	..	12. Report on the Pilot Survey on attitude to Family Planning in Trivandrum City	February, 1961
12. Review of Prices	"	1956-57	..	..	13. Mortality Tables for Kerala (1941-50)	Decembre, 1960
13. Administration Report of the Department	"	1955-56	1959-60	..	14. Note on the incidence of Smallpox in the Travancore-Cochin Part of Kerala	"
14. Statistical Abstract (T.C. State)	"	1951-52 to 1955-56 (under print)	..	..	15. A study of the Demographic Characteristic of certain Occupational groups in Kerala	December, 1960
15. Statistical Abstract (Kerala)	"	1956-57 1957-58 1958-59	(under print) (under print) (under print)	..	16. Report on the employment Survey in Malabar	1958
					17. Regional Income of Kerala at current prices—1955-56	May 1960
					18. Report on the Sample Survey of Village Panchayats in Kerala	February, 1961
					19. Report on the Sample Survey of physically handicapped Employment Seekers in Kerala	August, 1961
					20. The age at marriage, age at first delivery and age at widowhood	1961

APPENDIX
GRAPH I

RELATIVE WHOLESALE PRICES OF RICE (1960-61)

(BASE APRIL 1960=100)



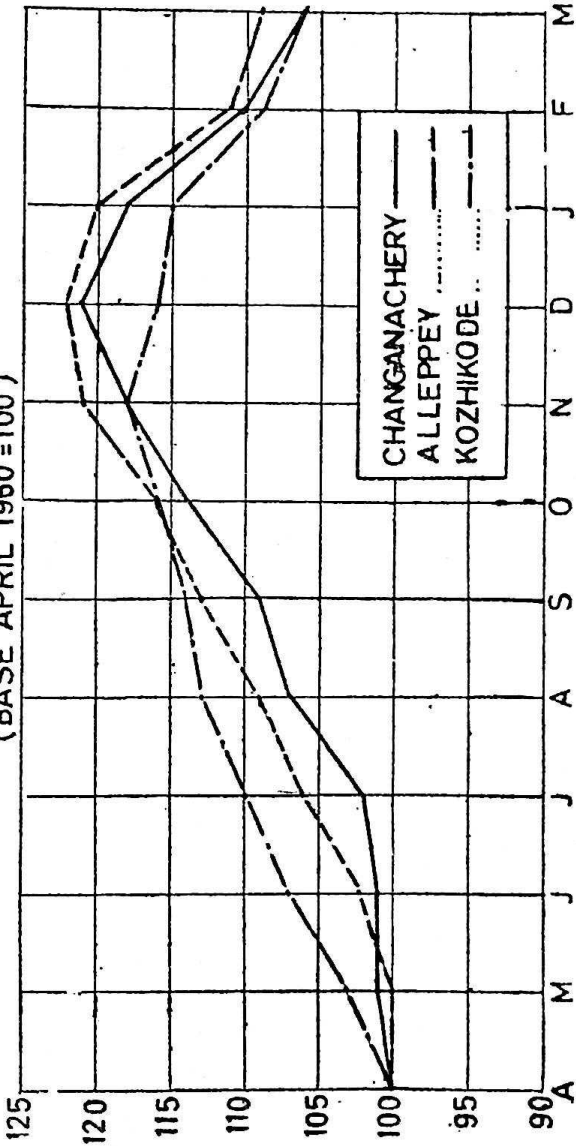
Graph-1.

1870

GRAPH 2

RELATIVE WHOLESALE PRICES OF COPRA(1960-61)

(BASE APRIL 1960 = 100)



Graph 2.

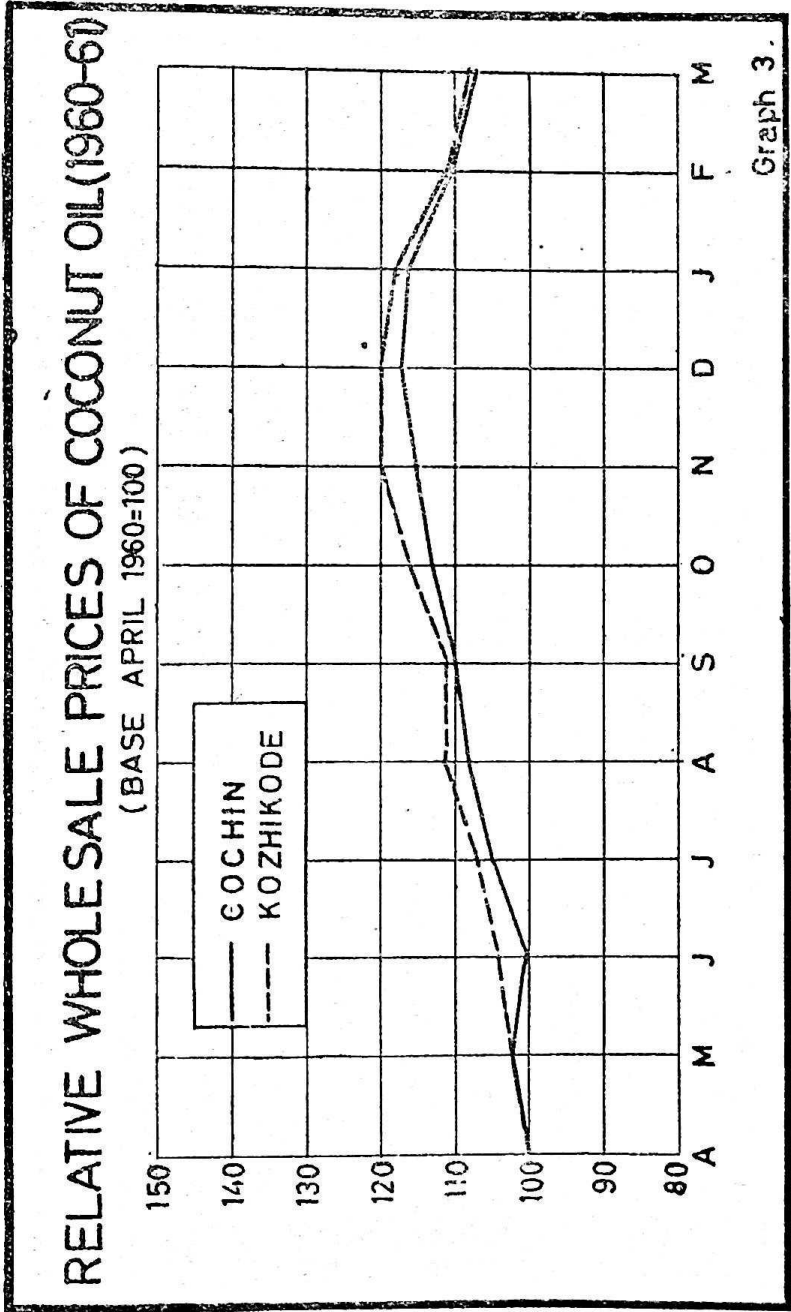
The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both primary and secondary data collection techniques. The primary data was gathered through direct observation and interviews with key stakeholders. Secondary data was obtained from existing reports and databases.

The analysis phase involved using statistical software to identify trends and correlations within the data. The results show a clear upward trend in the number of transactions over the period studied. This is attributed to several factors, including increased market activity and improved infrastructure.

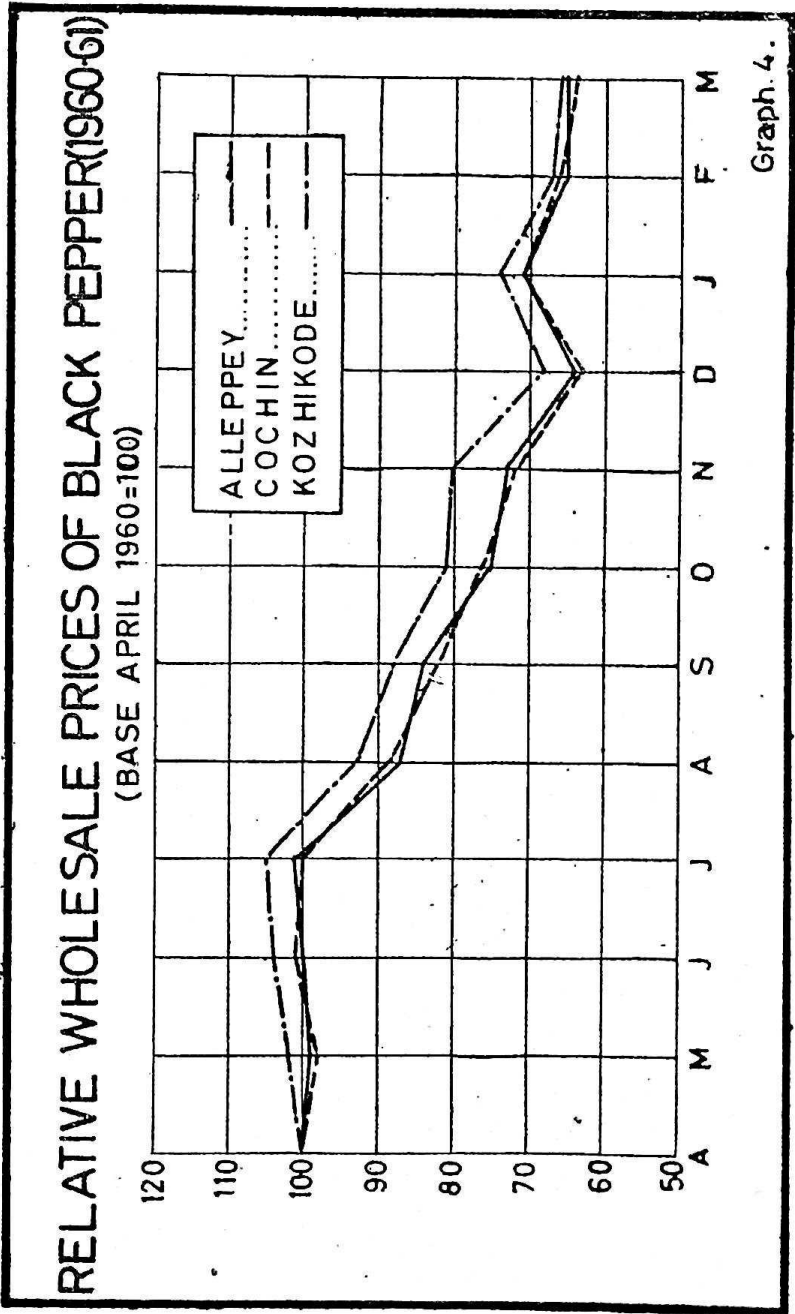
Finally, the document concludes with a series of recommendations for future research and implementation. It suggests that further studies should focus on the long-term sustainability of the current trends and the impact of external factors. The author also provides practical advice on how to optimize the data collection process for future projects.

GRAPH 3

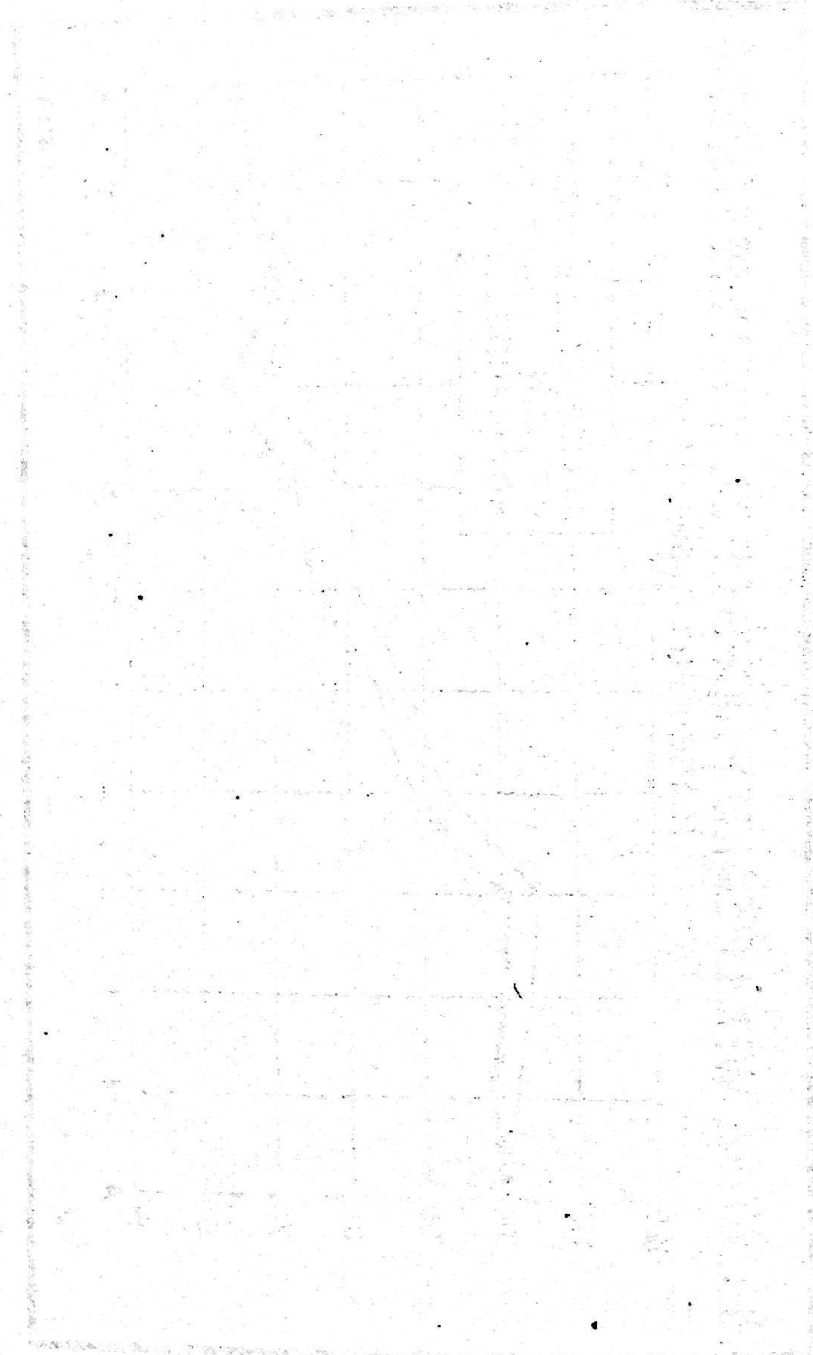


1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900

GRAPH 4



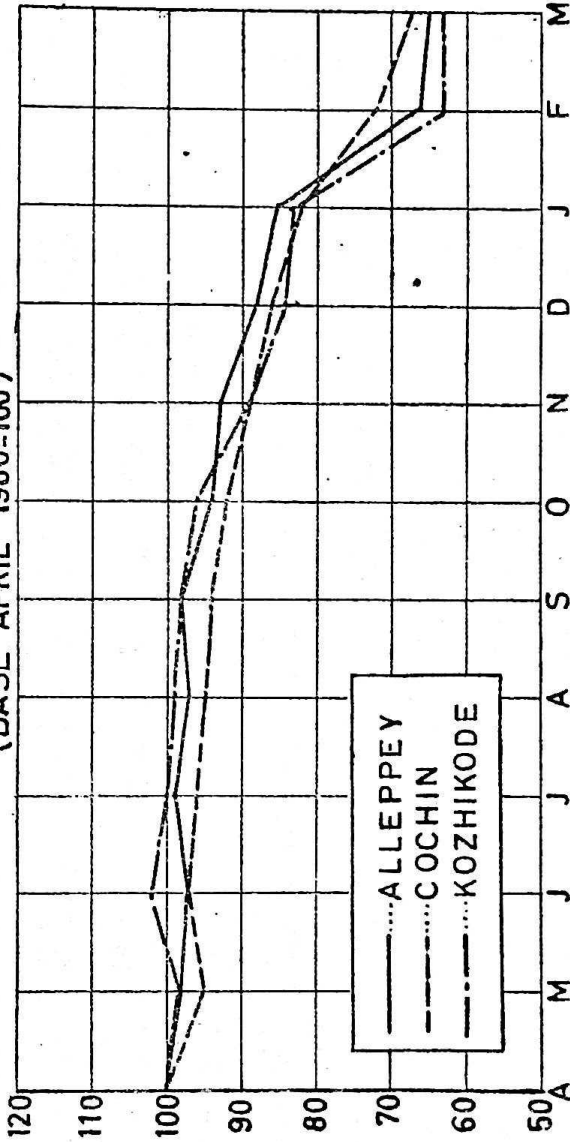
Graph. 4.



GRAPH 5

RELATIVE WHOLESALE PRICES OF GINGER (1960-61)

(BASE APRIL 1960=100)



Graph. 5.

Handwritten text, possibly a title or header, located at the top of the page.

Main body of handwritten text, consisting of several lines of cursive script.

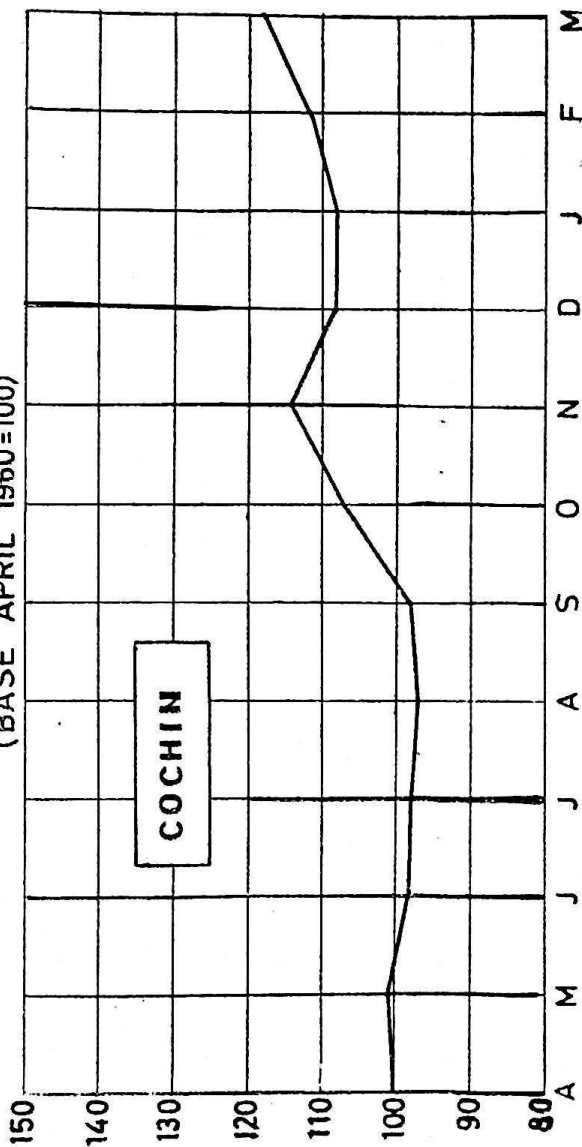
Handwritten text at the bottom of the page, possibly a signature or footer.

Small handwritten mark or signature at the bottom right corner.

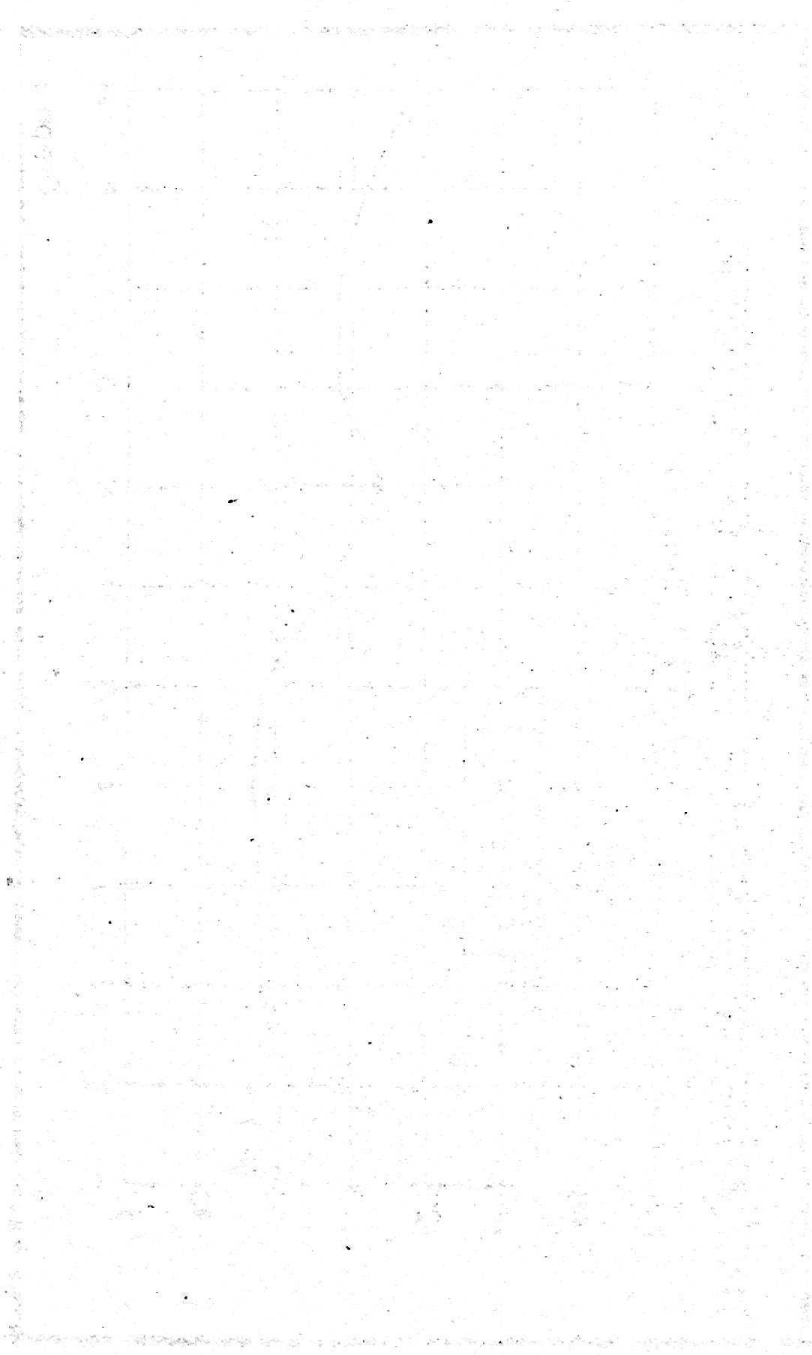
GRAPH 6

RELATIVE WHOLESALE PRICES OF TURMERIC (1960-61)

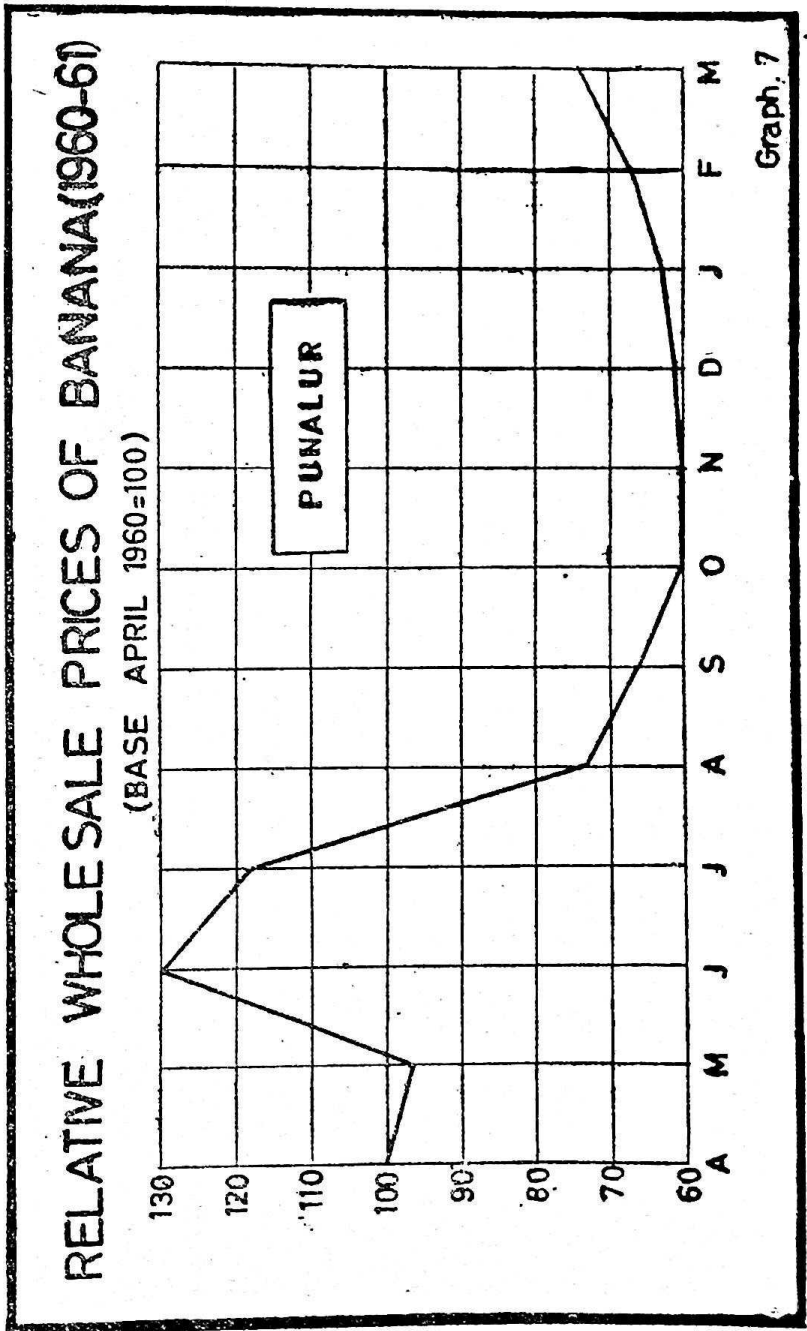
(BASE APRIL 1960=100)



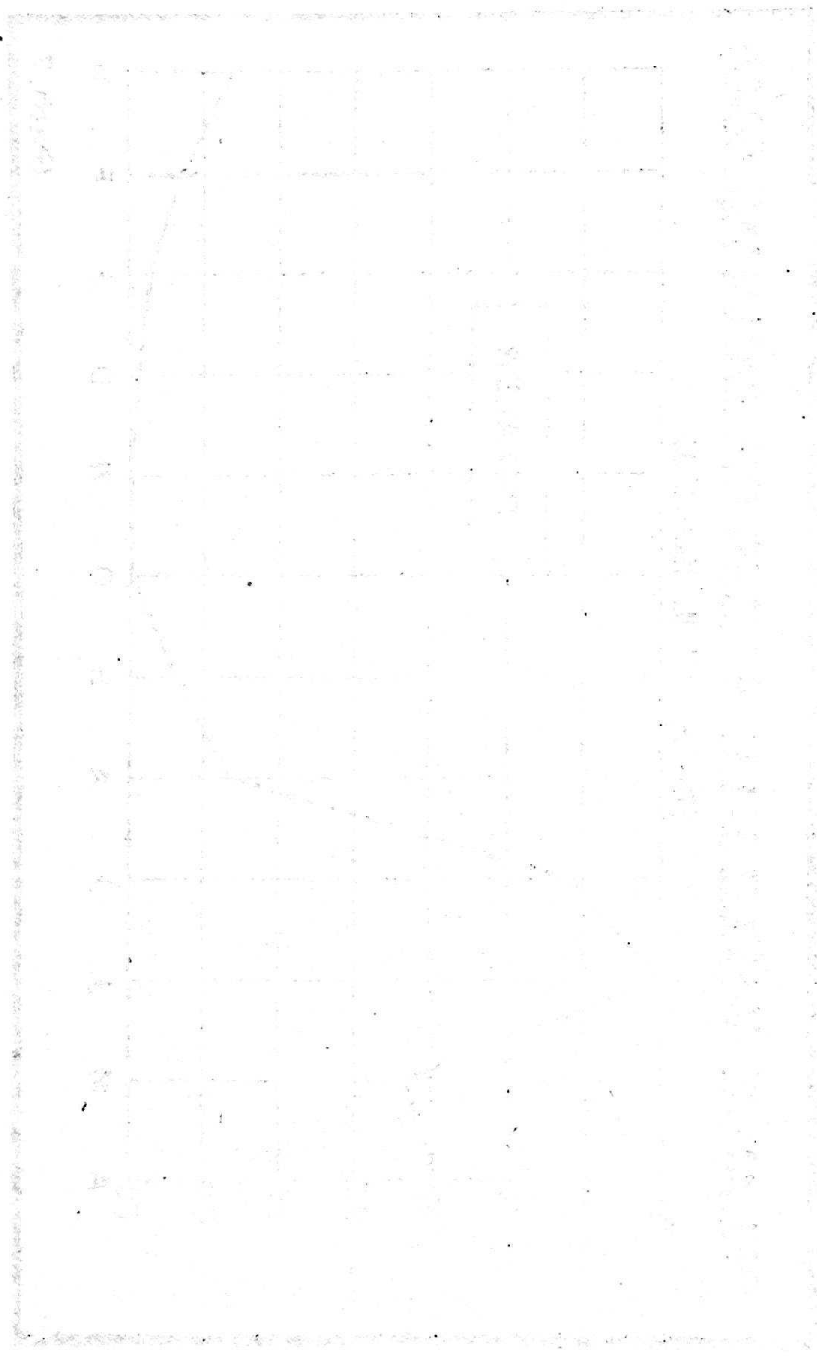
Graph. 6.



GRAPH 7

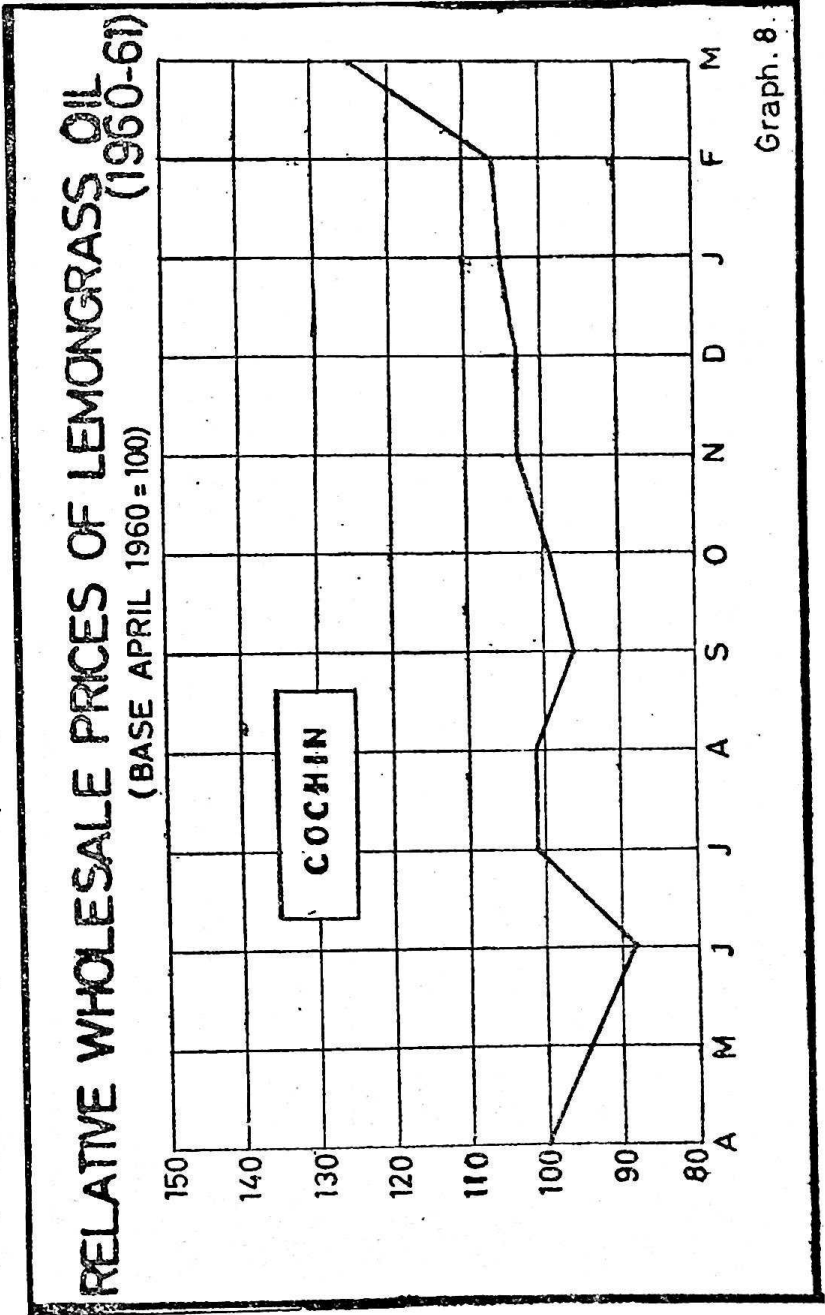


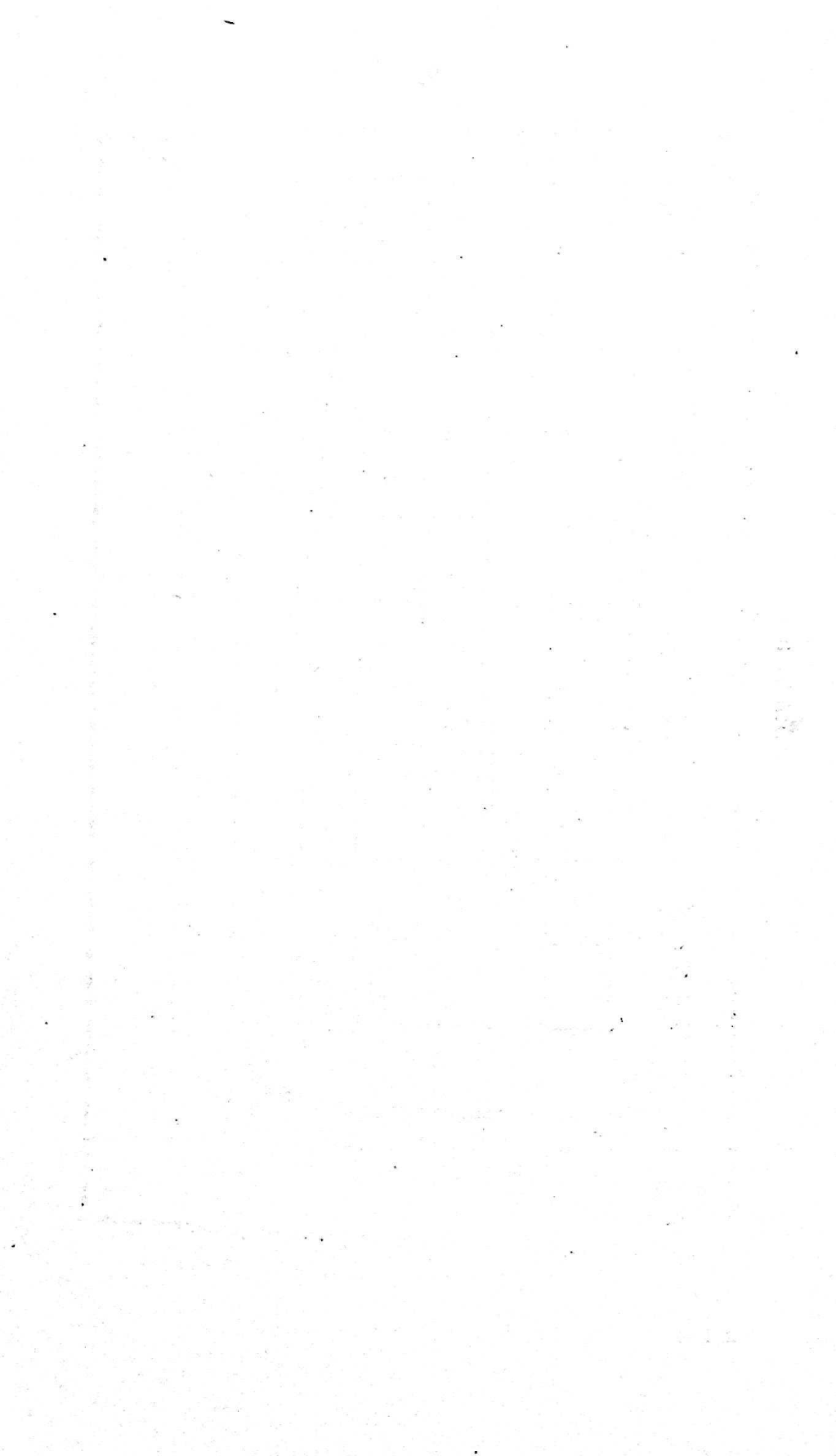
Graph. 7



1871

GRAPH 8

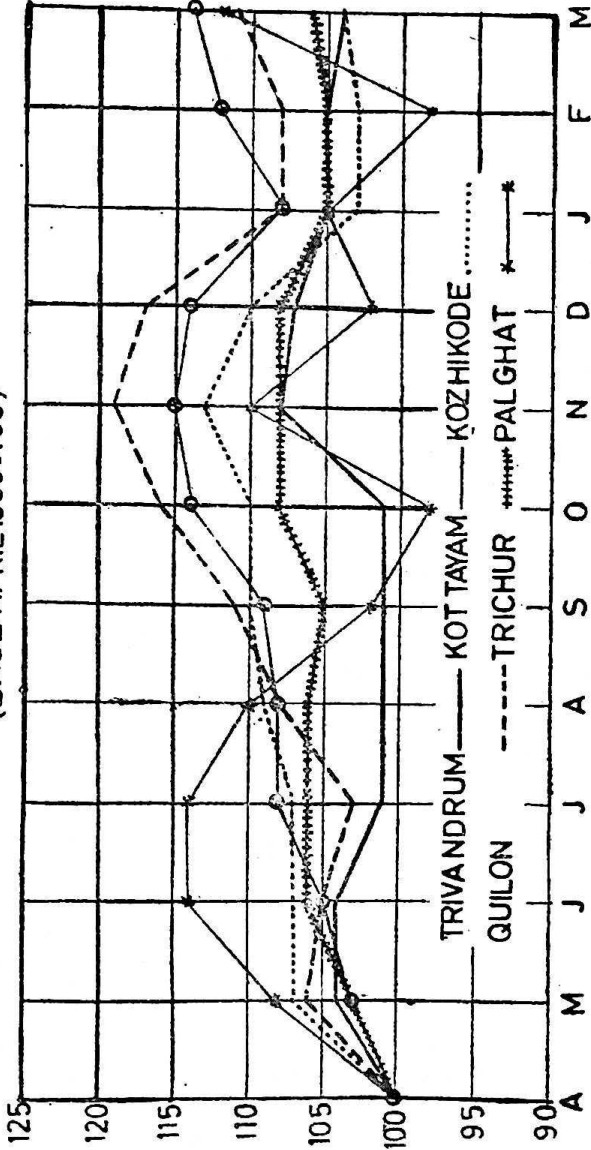




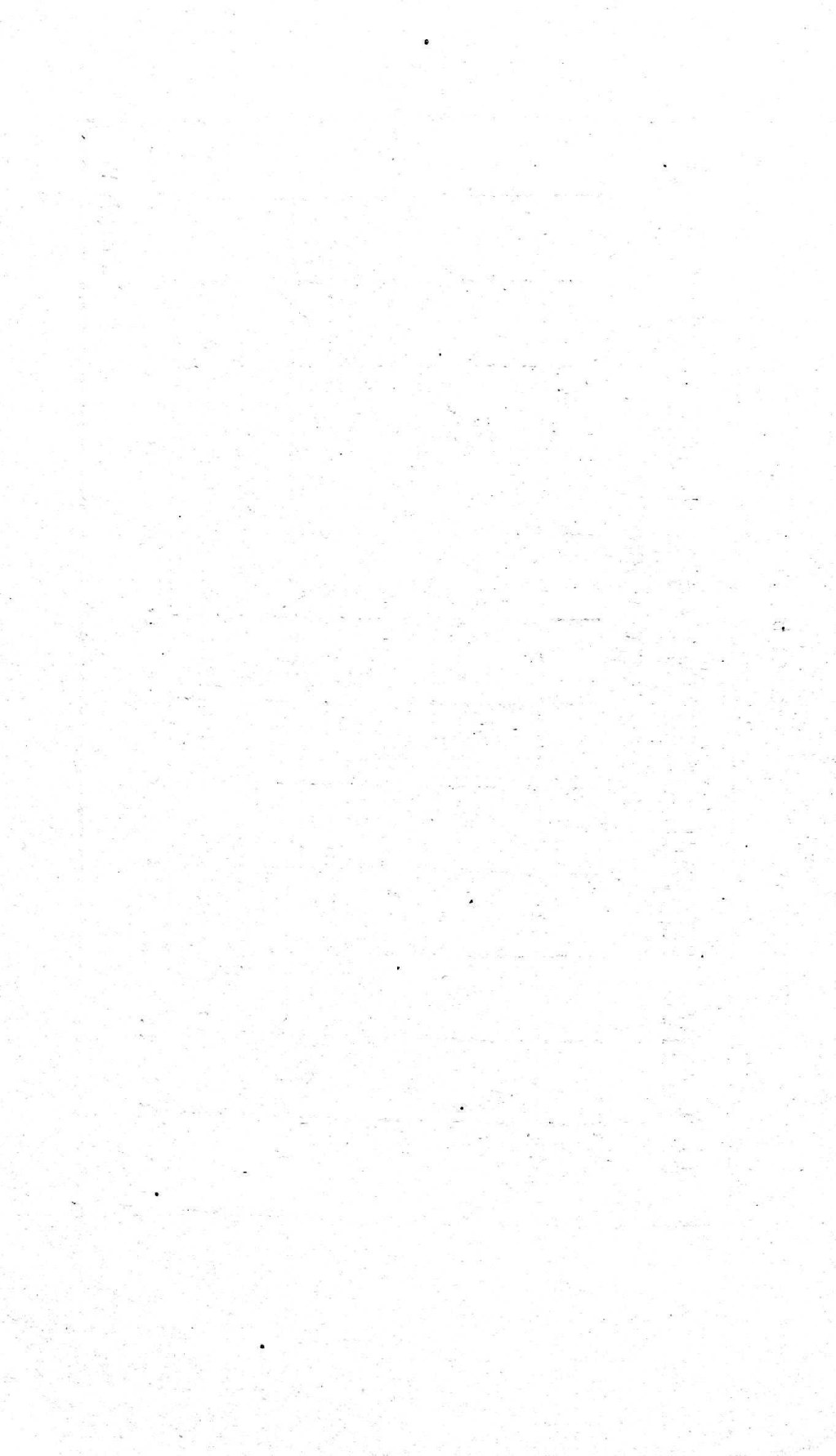
GRAPH 9

RELATIVE RETAIL PRICES OF RICE (1960-61)

(BASE APRIL 1960=100)



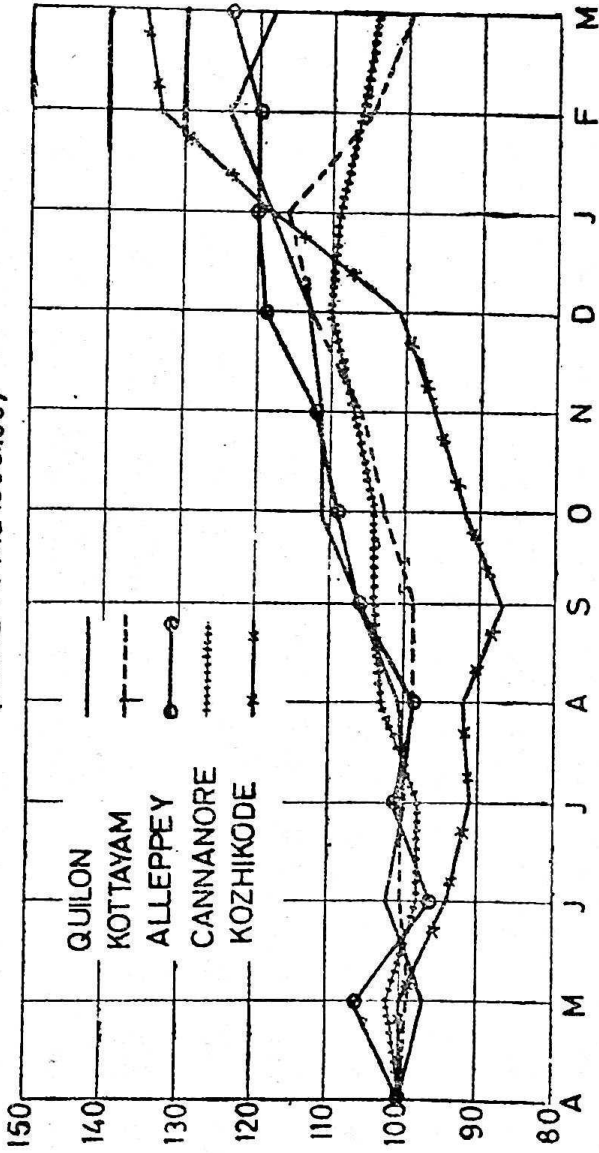
Graph 9



GRAPH 10

RELATIVE RETAIL PRICES OF COCONUT ('60-'61)

(BASE APRIL 1960:100)

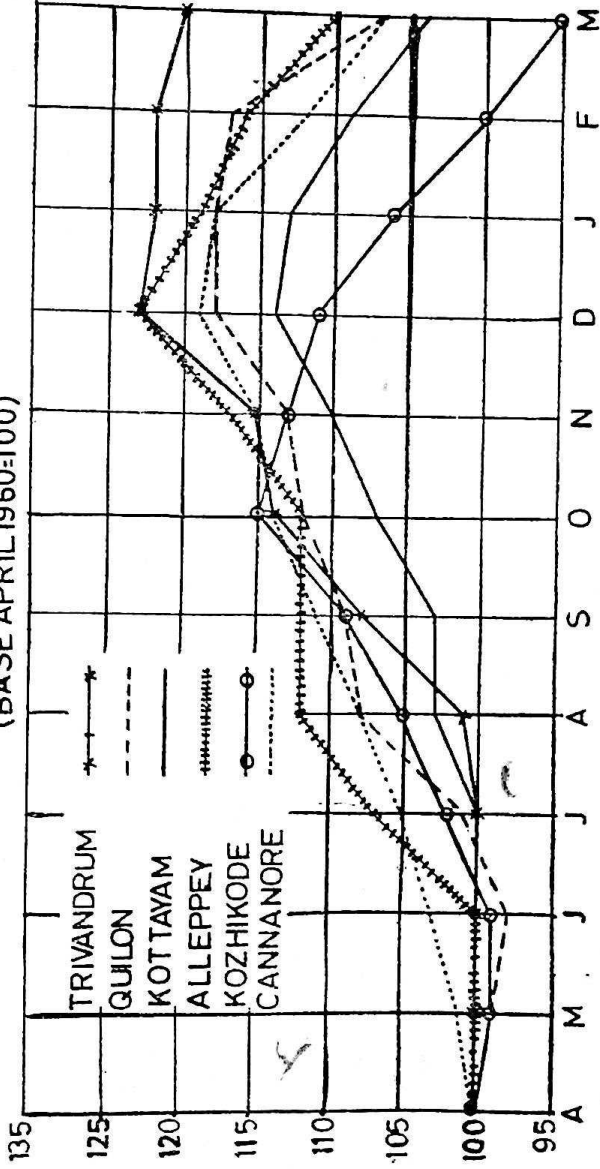


Graph 10

GRAPH II

RELATIVE RETAIL PRICES OF COCONUT_{TOIL} ('60-'61)

(BASE APRIL 1960=100)



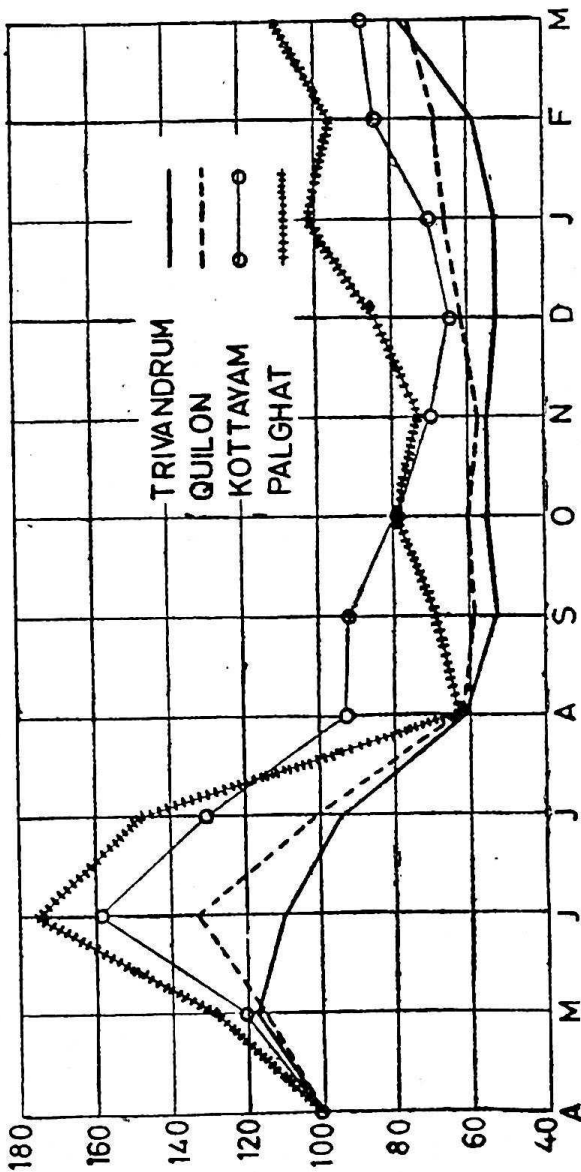
Graph II



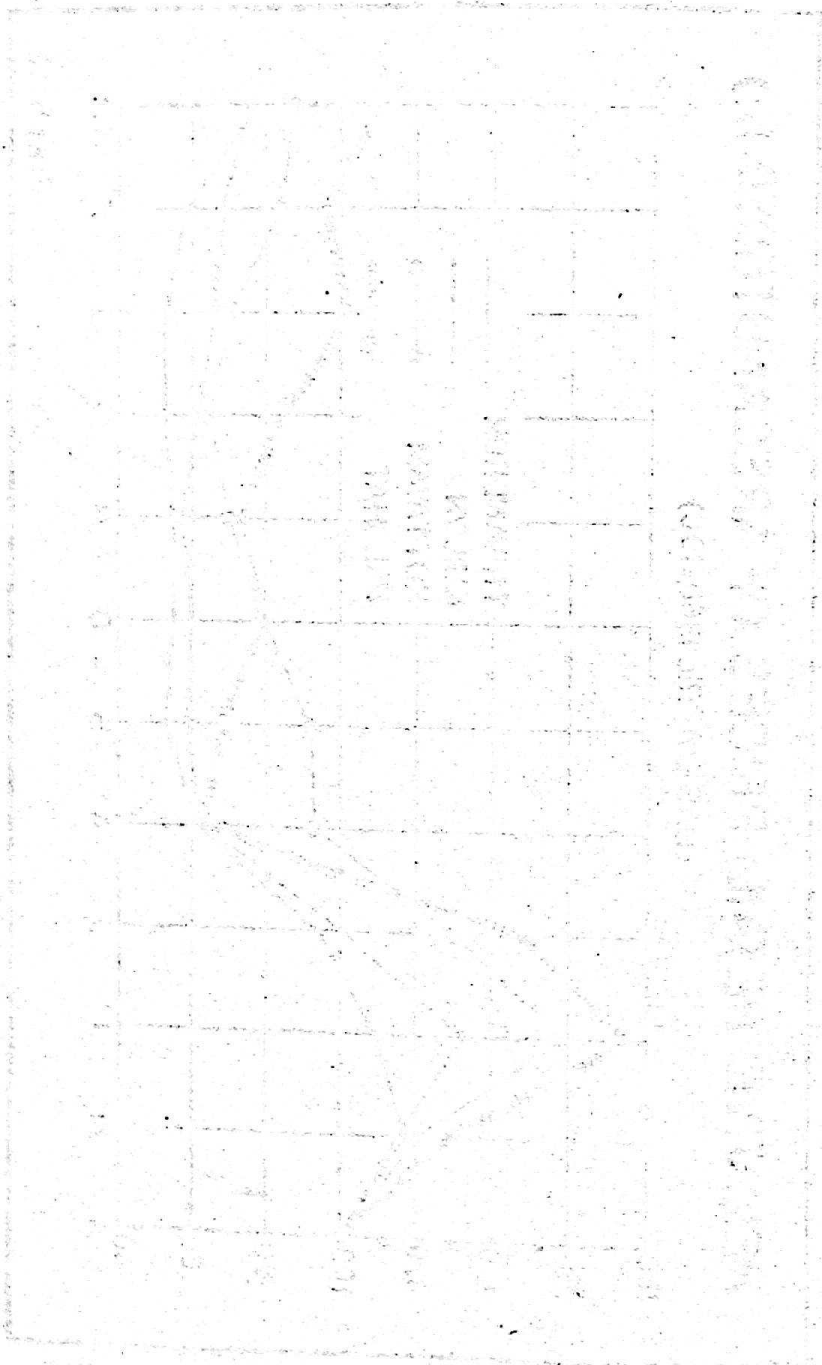
GRAPH 12

RELATIVE RETAIL PRICES OF ARECANUT (1960-61)

(BASE APRIL 1960=100)



Graph 12



Vertical text label, possibly a title or identifier, located in the center of the grid.

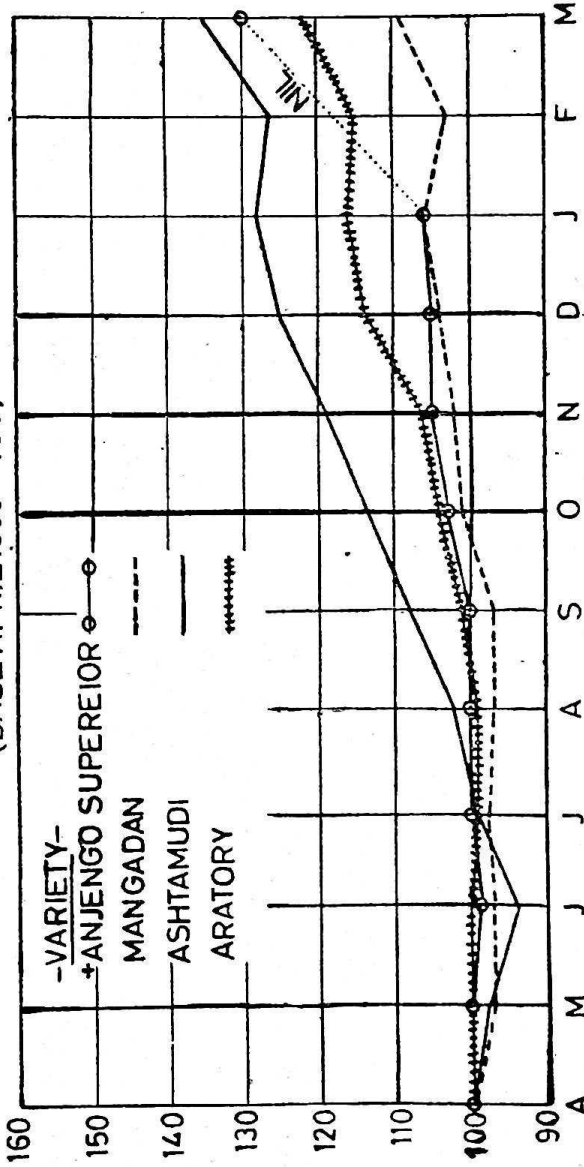
Vertical text label, possibly a title or identifier, located on the right side of the grid.

Small vertical text label located on the right side of the grid.

GRAPH 13 (i)

RELATIVE RETAIL PRICES OF COIR YARN ('60-'61)

(BASE APRIL 1960 = 100)

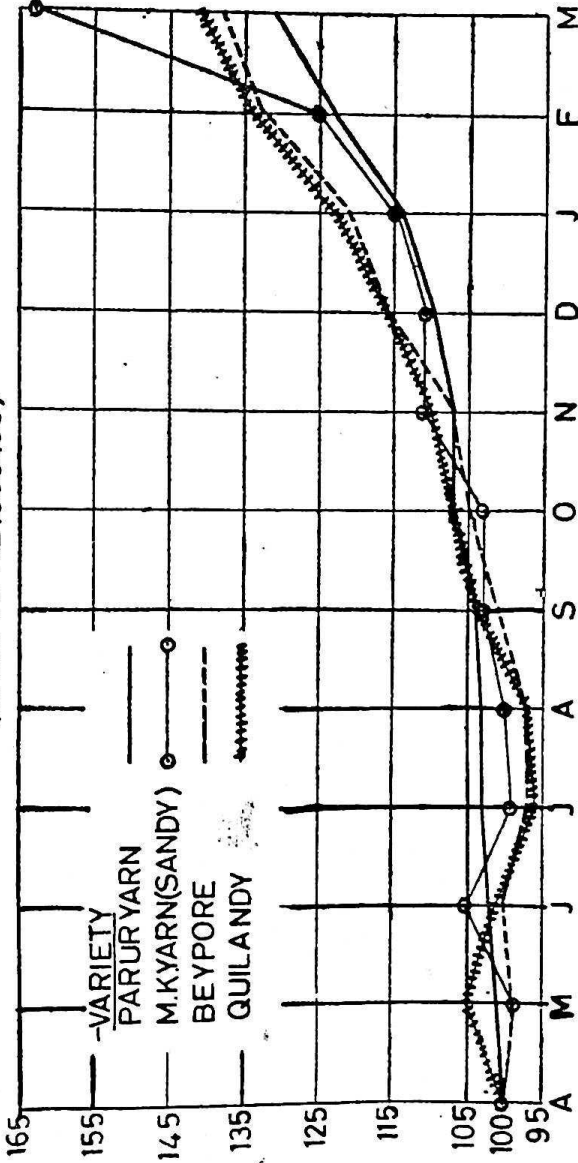


Graph 13

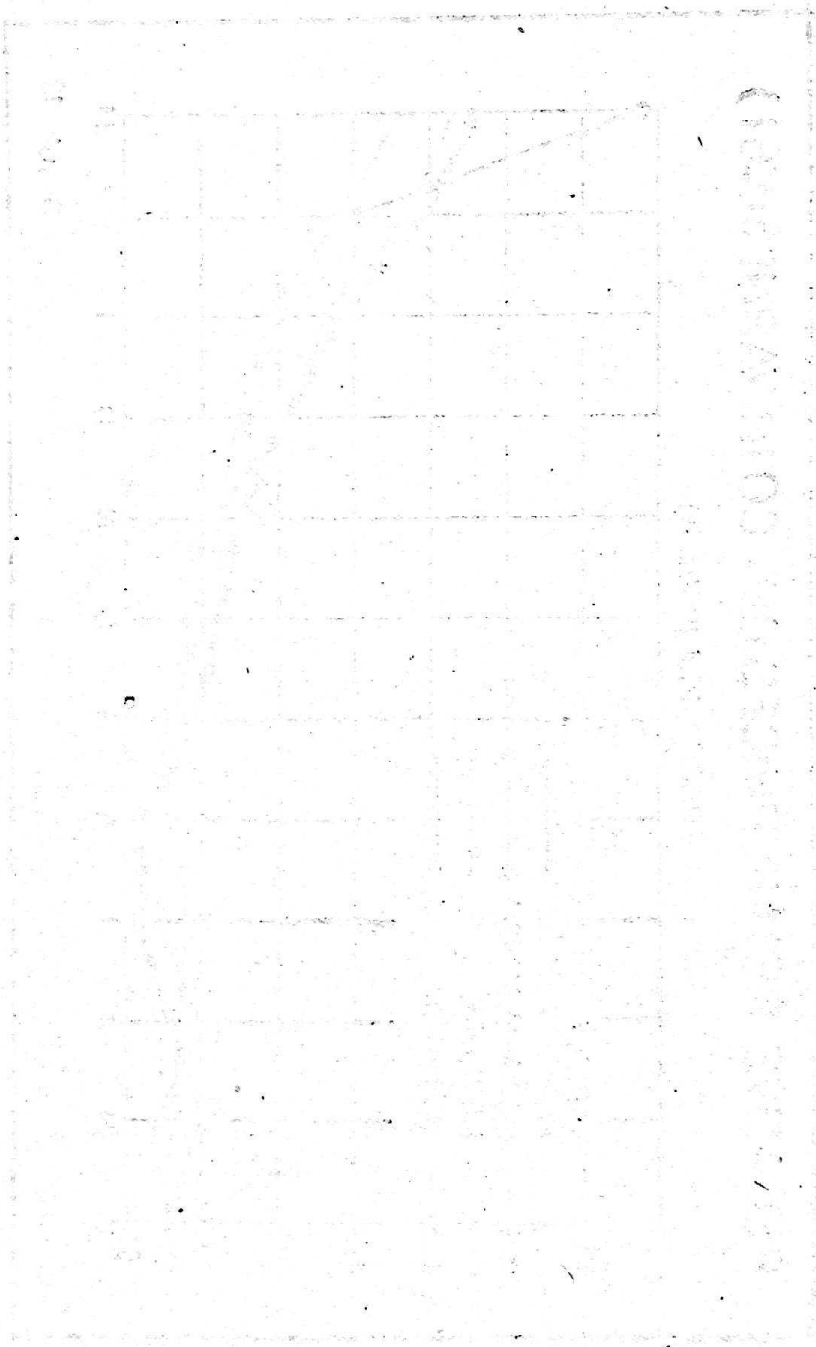
+NIL for the month of FEBRUARY.

RELATIVE RETAIL PRICES OF COIR YARN ('60-'61)

(BASE APRIL 1960=100)



Graph 13



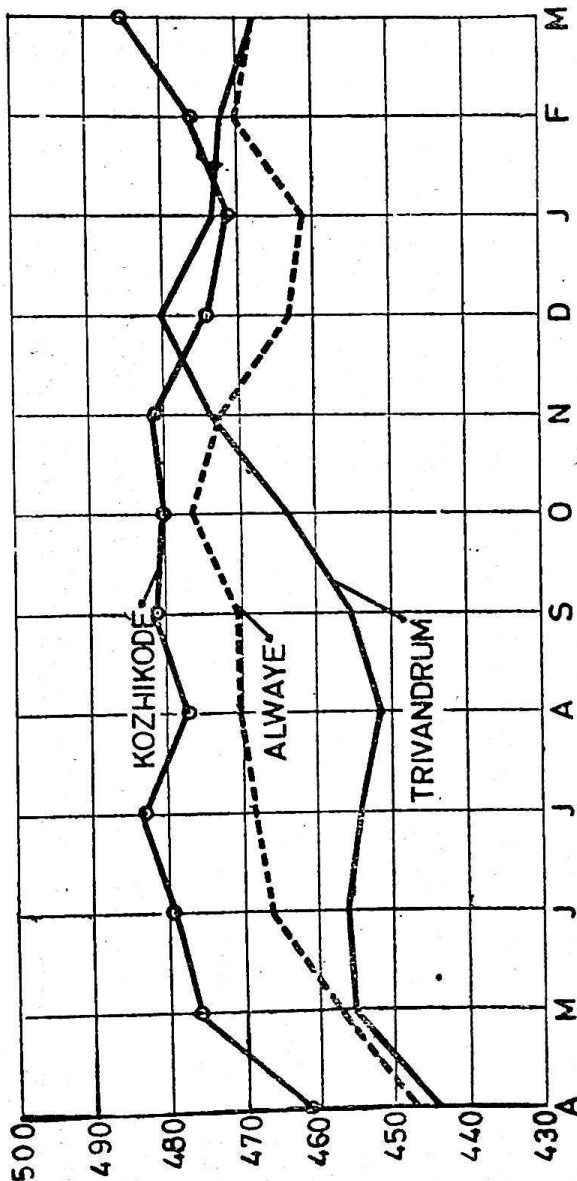
PERCENTAGE OF HUMIDITY (COMPLETION)

100

GRAPH 14

THE PRICE INDEX NUMBERS FOR (Apr '60-Mar '61)

(BASE AUG. 1939 = 100)



BASE KOZHIKODE is average prices for June 1935 to June 1936 = 100.

Graph. 14

THE UNIVERSITY OF MICHIGAN LIBRARY

ANN ARBOR, MICHIGAN



PERCENTAGE OF ...

1950

Faint, illegible text, possibly bleed-through from the reverse side of the page.

1487

**Names of Agents appointed for the sale of Government
publications in the erstwhile Malabar area**

1. Sri Justus Paul, Propretor, J. S. Paul and Sons, Book Sellers, Cannanore.
2. Messrs. Moulavi Book Depot, Book Sellers, M. A. Bazaar, Kasargode.
3. Sri G. Uithal Prabhu, News Agent, Manjeswar.
4. Messrs. Touring Book Stall, Calicut.
5. Messrs. K. R. Brothers, Calicut.
6. Messrs. K. P. Ahmed Kunhi and Bros., Camp Bazaar, Cannanore.
7. Sri Kottayi Gopalan, Book Seller and Stationery Merchant, Main Road, Tellicherry.