



GOVERNMENT OF KERALA

REPORT
ON THE
TIMELY REPORTING SURVEY
ON
AGRICULTURAL STATISTICS
KERALA

1981-1982

DEPARTMENT OF
ECONOMICS AND STATISTICS

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PREFACE

This is the seventh report on the sample survey on area and production of crops conducted in Kerala under the scheme for Establishment of an Agency for Reporting Agricultural Statistics (EARAS). It relates to the first year of the second phase of the survey started in 1981-82. The first phase of the survey which was started in the year 1975-76 was completed in 1980-81. The scheme EARAS was first launched in the State during 1975-76 as a variant of the T.R.S. carried on in the reporting States of India. Ever since the survey is continued regularly as an annual survey covering the agricultural year unistage random sampling is being adopted as sampling design with the revenue village as the unit of selection and Taluk as stratum.

Details on land use, area under seasonal, perennial and annual crops, irrigation etc., were collected from 20 percent villages covering about 1/5th of the total area of the State and the estimates for the whole area are based in this sample. Crop estimation surveys were conducted on paddy, (autumn, winter and summer) tapioca, coconut, arecanut, cashew and pepper during the year 1981-82. Besides, crop estimation surveys were also done for the four minor crops viz. cardamom, pineapple, jowar and ragi.

The estimates obtained from the survey during 1981-82 are presented in this report. I hope this report will be of use to all those who are interested in the agricultural development of the State. Any suggestion for improvement in the technical content, will be appreciated.

In this context I am glad to thank the Economic and Statistical Adviser, Ministry of Agriculture and Irrigation, Government of India for the timely advice and guidance. Sri M. Sundararaman, Deputy Economic and Statistical Advisor, Government of India has always been associated with the programme at every stage for the success of the scheme.

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REPORT ON THE TIMELY REPORTING SURVEY ON AGRICULTURAL STATISTICS IN KERALA 1981-82.

1. Introduction

This reports deals with the first year of the second phase of the Timely reporting survey of agricultural statistics in Kerala State conducted during the Agricultural year 1981-82. The first phase of the survey was started in 1975-76 and completed during the year 1980-81.

The All India scheme of Timely Reporting survey was designed to improve the conditions of reporting of Agricultural statistics. But this scheme could not be implemented as such in the non-reporting states of Orissa, West Bengal and Kerala, where proper agencies for reporting agricultural statistics were not in vogue. So a variant of the same, namely the scheme for Establishment of an Agency for reporting agricultural statistics was designed for these states for improvement in reporting agricultural statistics. Kerala being a non-reporting state the scheme has been started from 1975-76 onwards and completed the enumeration of all villages of the state in 1980-81 after 6 years. But with a view to collect the agricultural statistics on a continuing basis the High Level Co-ordination Committee for Agricultural Statistics suggested in May 1980 to continue the scheme during the sixth plan period also. As such the Central/State Governments ordered to continue the work beyond 1980-81 and to complete it within a period of 5 years i.e., 20 percent of the sample villages are to be completely enumerated each year.

The scheme EARAS as it known, is designed to collect data for estimating the various parameters under area and yield statistics for each agricultural year. At the same time it is also envisaged that the entire area of the state is to be completely enumerated by the end of the fifth year of the survey by completely enumerating in each year all the selected revenue villages, which were taken as the last stage units of sampling. Yield estimation surveys for a year is confined to the villages selected for area enumeration during the year.

2. Design of the Survey

During 1981-82 there were 58 taluks. Each of them was taken as a stratum for the survey. The revenue village which is the smallest well defined unit of revenue administration was the first stage unit of sampling for the survey. The number of sampling units in each of the district and those selected for the year are presented in the table below:

**Number of revenue villages existed in the Districts
and those selected during 1981-82.**

<i>Sl. No.</i>	<i>Name of the District</i>	<i>No. of Revenue villages</i>	
		<i>Total</i>	<i>Selected and enumerated</i>
1.	Trivandrum	94	20
2.	Quilon	99	21
3.	Alleppey	99	22
4.	Kottayam	74	15
5.	Idukki	42	8
6.	Ernakulam	100	22
7.	Trichur	234	46
8.	Palghat	152	30
9.	Malappuram	122	24
10.	Kozhikode	103	19
11.	Wynad	31	6
12.	Cannanore	177	32
		1327	265

3. Scheme of work

Eventhough revenue villages were taken as the last stage units for estimating the various parameters under area for the purpose of conducting the field work conveniently, each of the selected revenue village was further divided into a number of investigator units, on the basis of the number of investigators available, the area under wet and dry lands the number of crop cutting experiments to be conducted in each of the selected villages. The investigator units were as far as possible equal in extent, with defined non-overlapping boundaries. Where clear demarcated natural or artificial boundaries were not possible the units were formed in terms of survey numbers.

The work in each of the investigator units formed as above was assigned to an investigator. He had to conduct the area enumeration survey in all plots in the unit and crop cutting experiments allotted to that unit. In Travancore-Cochin region of the state where only litho sub-divisions are marked in the village maps, the area enumeration was conducted following these divisions. In the Malabar region where the Field Measurement Book was available in sub-division these books were followed in enumerating the details by the investigators.

The preliminary work relating to the survey was started by preparing a list of survey sub division numbers according to the basic tax register available in the village offices. The details required for area enumeration was collected by the investigators, following the above sub-division for the Travancore-Cochin area, the litho maps give only litho sub-divisions, which comprises of one or more sub divisions of the basis tax register. In such cases the details were collected according to the litho sub-divisions only.

The investigators visited the wet lands three times during agricultural year to collect data on seasonal and annual crops corresponding to Autumn, winter and summer seasons. During the last visit data on land use, irrigation and perennial crops were collected. In dry lands, it was programmed to conduct two visits, corresponding to Kharif and Rabi seasons, the first visit to collect data on seasonal and annual crops and during the second visit data on perennial crops were to be collected.

Crop cutting experiments were confined to the villages selected for EARAS, so that the investigator posted in these villages could attend to this work, also. During the year under report, experiments on the following crops were conducted.

1. Paddy — Autumn, winter, summer
2. Tapioca
3. Coconut
4. Arecanut
5. Cashew
6. Pepper
7. Pine apple
8. Jowar
9. Ragi
10. Cardamom.

The crop cutting experiments on the above crops were planned in all the taluks where the crops cover substantial area under them but where the area under a crop did not cover a sizable area experiments were not planned. The number of experiments to be conducted in each taluk for each crop was decided at the headquarters and the number of experiments in each investigator unit is decided by the Deputy Director in consultation with the District Officers and Statistical Inspectors. Table 1 gives the number of taluks in each district and the number in which experiments were planned crop-wise. Table 2 gives the number of experiments planned in each district for each crop and the number of experiments analysed under each crop. Table 3 gives the number of experiments missed in the districts and state with reason and table 4 gives the number of experiments conducted by each investigator

The number of experiments to be conducted in a taluk for each of the crops was fixed at the headquarters and for the investigator units by the

Deputy Director in each district in consultation with the District Officer and Statistical Inspectors. The maximum number of experiments in a taluk was fixed as 30 for paddy during each season and 30 for tapioca during a year subject to a minimum of 2 experiments in a village.

The Additional District Officer (TRS) and the Superintendent of N.S.S.O. undertook sample check on area enumeration and on crop cutting according to pre-determined programme. Details are furnished in table 5.

4. Staff position

The conduct of the field work on area enumeration, crop cutting experiments and analysis and reporting etc. relating to the survey were the responsibility of the Directorate of Economics and Statistics. The personnel sanctioned under EARAS scheme by the Central Government and those sanctioned under land utilisation survey attended the survey work during the period under report.

The details of staff position at headquarters and field are given below.

Staff pattern for the scheme

Sl. No.	Details	Staff sanctioned under		Total
		LUS by State Government	EARAS by Govt. of India	
A. Headquarters				
1.	Joint Director	..	1	1
2.	Assistant Director	1	..	1
3.	Research Officer	3	..	3
4.	Research Assistant	4	..	4
5.	Compilers	2	6	8
B. Field Staff				
1.	Deputy Director	..	3	3
2.	Assistant Director	..	3	3
3.	Regional Officer	..	3	3
4.	Addl Dist. Statistical Officer	..	11	11
5.	Research Assistant	..	5	5
6.	Statistical Inspectors	51	74	125
7.	Compilers	9	2	11
8.	Investigators	159	721	880

During the period under report 1981-82 crop cutting experiments on paddy were conducted in all taluks for Autumn and Winter seasons but for summer it was conducted only in 51 taluks, since in Idukki there was no summer paddy.

Besides, crop cutting experiments were conducted on Tapioca (52), Coconut (56), Arecanut (45), Cashew (37) and Pepper (45). The number of taluks out of a total of 58 in which experiments were conducted are given in brackets against the name of each crop. The minor crops selected for crop cutting experiments during the year were Jowar, Ragi, Pineapple and Cardamom and experiments were conducted in all these crops also.

As far as the crop cutting experiments on paddy are concerned 94% of the experiments planned for Autumn, 99% for winter and 97% for summer were conducted during the period under report. The percentage in the case of tapioca, coconut, arecanut, cashew, pepper, jowar, ragi, pineapple, cardamom were 99, 97, 100, 96, 98, 60, 74 and 85 respectively. The number of cuts lost reason wise are given in table 3.

5. Survey results

(a) *Land utilisation*—The variation in the utilisation for the years 1975-76 to 1981-82 and percentages under different utilisation to the total geographical area are given in table 6A and 6B.

The estimates of area under various utilisations for each districts for the year 1981-82 are given in table 7. The pattern in utilisation does not show any significant change over the years 1975-76 to 1981-82 except in the case of permanent pastures and grazing land, land under miscellaneous tree crops and cultivable waste land.

The land under non-agricultural uses has increased from 6.67% in 1975-76 to 6.96% in 1981-82 and barren and uncultivable land has also shown an upward trend from 2.02%—2.20%. The percentage of area under permanent pastures and grazing land has decreased to 0.14 in 1981-82 from 0.51 in 1975-76. Similarly and under miscellaneous tree crops has also shown a declining trend from 2.17% in 1975-76 to 1.42% in 1981-82. The sown area in the state was 55.85 per cent to the total geographical area for the year 1981-82 and reserve forest cover an area of 27.83%.

(b) *Irrigated area—Source wise and Crop-wise*

The estimates of area irrigated are given in table 20 and 21 respectively. The irrigated area was 2,39,574 hectares in 1981-82 which is 10.94 percentage of the sown area. The area under different sources in the table reveals that Govt. canal occupies the major portion of irrigated area (42.02). Minor and lift irrigation accounted 18.05% and private tanks and wells 21.58 percentage of the total irrigated area. Among districts Palghat has the largest portion of net area irrigated compared to total net sown area.

(c) *Area under crops*

The estimated area under different crops is given in table 8A, 8B, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19. The classification of area under irrigated and unirrigated high yielding and local season wise in case of paddy is furnished in table 22a, b and c. Paddy and coconut are the most important crops in the state and they together occupy 50.72% of the total cropped area.

The percentage distribution of different crops to total cropped area is also given. An analysis of the extent of area put under different crops to that of total cropped area over the period between 1975-76 to 1981-82 has shown that the area put under paddy as declined by 1.62 per cent and that of coconut by 0.29%. But in the case of cashew it has shown 1.16 per cent increase where- as tapioca declined 2.42% and rubber by 1.25 per cent increase.

(d) *Production of Important crops*

The production of important crops namely paddy, coconut, tapioca, rubber, pepper, arecanut, plantain, Banana, Cashew, Cardamom are given in table 23. The estimates of production for the following crops are based on the average productivity obtained by conducting crop cutting experiments on tapioca, coconut, arecanut, cashewnut and pepper. It is seen that the volume of production of paddy, pepper, rubber, banana and plantain has increased during the year when compared to 1975-76 whereas in the case of cashew and tapioca the decrease is to the extent of 35.54 per cent and 30.52 per cent respectively. Arecanut and coconut also registered a decline in production during the period. The district-wise details of production are furnished in table 24.

6. Estimation Procedure

The following estimates were prepared from the data collected in area enumeration.

- (1) Area under different utilisation.
- (2) Source wise area irrigated.
- (3) Area under different crops.

The estimates were prepared as follows:—

- (a) Land utilisation and irrigation.

Notations used:—

- N : No. of villages in the stratum (taluk)
 n : No. of villages selected for area enumeration in the stratum.
 A : Area of stratum.
 a : Area of selected village
 aj : Area of jth selected village

- y_{ij} : Area under i th utilisation in the j th selected village.
 y_i : estimate of the i th utilisation
 $V(y_i)$: estimate of the variance of y_i

Then y_i is given by

$$y_i = \frac{\sum_{j=1}^n y_{ij} \times A}{\sum_{j=1}^n a_j} = \frac{A}{a} \times \sum_{j=1}^n y_{ij}$$

$$V(y_i) = \frac{N(N-n)}{n(n-1)} \sum_{j=1}^n (y_{ij} - R_{iaj})^2$$

where $R_i = \frac{\sum_{j=1}^n y_{ij}}{\sum_{j=1}^n a_j}$

(b) *Area under crops*

The area under various crops are estimated as follows:—

- N : No. of villages in a stratum.
 n : no. of villages selected for area enumeration.
 w : Wet land area of the stratum.
 D : Dry land area of the stratum.
 w_j : Wet land area of the J th selected village.
 d_j : dry land area of the j th selected village
 y_{ij} : area under i th crops in the wet land of j th selected village
 x_{ij} : Area under i th crop in the dry land of j th selected village.
 y_i : estimate of the area under i th crop in wet land.
 x_i : estimate of the area under i th crop in dry land.
 z_i : $y_i + x_i$ —Total area under i th crop

$$y_i = \frac{\sum_{j=1}^n y_{ij} \times W}{\sum_{j=1}^n w_j}$$

$$x_i = \frac{\sum_{j=1}^n x_{ij} \times D}{\sum_{j=1}^n d_j}$$

$$\begin{aligned} V(z_i) &= V(y_i) + V(x_i) \\ &= \frac{N(N-n)}{n(n-1)} \left\{ \sum_{j=1}^n (y_{ij} - R_{i_1} w_j)^2 + \sum_{j=1}^n (x_{ij} - R_{i_2} d_j)^2 \right\} \end{aligned}$$

$$\text{Where } R_{i_1} = \frac{\sum_{j=1}^n y_{ij}}{\sum_{j=1}^n w_j} \text{ and}$$

$$R_{i_2} = \frac{\sum_{j=1}^n x_{ij}}{\sum_{j=1}^n d_j}$$

- (c) The estimate of average yield is obtained as the simple average of yield obtained from all the experiments in the selection.

APPENDIX PART II

TABLE I

Distribution of the number of taluks in each district and the number in which experiments were planned crop-wise

District	No. of Taluks	Paddy			No. of Taluks where experiments were planned for each crop							Minor crops	
		Autumn	Winter	Summer	Tapioca	Coconut	Arecanut	Cashewnut	Pepper	Jonor	Ragi	Pineapple	Cardamom
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Trivandrum	4	4	4	4	4	4	4	4	4	..	..	4	..
Quilon	6	6	6	5	6	6	6	3	5	..	..	6	..
Alleppey	7	7	7	7	4	7	4	3	3	..	..	7	..
Kottayam	5	5	5	4	5	5	4	1	5	..	..	5	..
Idukki	4	4	4	..	4	2	1	1	5	..	3	4	3
Ernakulam	7	7	6	6	5	7	6	3	5	..	..	7	..
Trichur	5	5	5	5	..	5	4	4	3	..	..	5	..
Palghat	5	5	5	5	5	5	2	3	2	4	5	5	1
Malappuram	4	4	4	4	4	4	3	4	3	..	..	4	..
Kozhikode	3	3+1*	3	3	3	3	3	3	3	..	..	3	..
Wynad	3	..	3	3	3	3	3	3	3	..	..	..	3
Cannanore	5	5+1*	5	5	5	5	5	5	4	..	2	5	1
State	58	57	57	51	52	56	45	37	45	4	10	55	8

* Wynad was not formed during the autumn season.

TABLE 2

No. of experiments planned in each district for each crop and number of experiments analysed (1981-82)

District	No. of experiments planned and analysed under each crop													
	Autumn		Paddy		Summer		Tapioca		Coconut		Other crops		Areca nut	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Trivandrum	114	114	114	113	96	92	126	123	50	50	25	25	25	25
Quilon	152	151	152	150	103	103	144	144	60	60	31	31	31	31
Alleppey	192	188	192	189	144	137	82	81	45	42	21	21	21	21
Kottayam	110	101	104	104	60	60	108	107	40	40	25	25	25	25
Idukki	66	41	66	65	..	..	56	56	20	20	10	10	10	10
Ernakulam	200	198	180	179	120	117	100	100	40	40	52	52	52	52
Trichur	140	137	140	140	126	125	106	104	45	44	50	50	50	50
Palghat	150	146	150	146	126	121	90	90	28	28	16	16	16	16
Malappuram	114	107	114	111	102	94	128	125	55	55	58	58	58	58
Kozhikode	108	84	84	81	80	79	90	86	75	75	40	40	40	40
Wynad	..	..	60	60	60	59	45	45	15	5	30	30	30	30
Cannanore	162	149	150	149	150	150	170	170	60	60	72	72	72	72
Slate	1508	1416	1506	1487	1167	1137	1245	1231	533	519	430	430	430	430

TABLE 2—(Contd.)

District	Cashewnut				Pepper				Minor crops							
	A		B		A		B		Jowar		Ragi		Pineapple		Cardamom	
	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)				
Trivandrum	21	21	23	21	..	..	..	..	20	20'	..	..	..	..	..	..
Quilon	25	25	30	29	..	..	..	..	30	25	..	..	..	..	..	..
Alleppey	15	15	20	20	..	..	..	..	35	35	..	..	..	..	..	..
Kottayam	5	5	35	35	..	..	..	..	25	25	..	..	..	..	..	..
Idukki	5	5	65	60	..	..	..	..	20	10	40	40	40	40	40	40
Ernakulam	18	17	27	27	..	..	..	..	35	29	..	..	..	..	..	..
Trichur	21	19	18	18	..	..	..	..	25	15	..	..	..	..	..	..
Palghat	41	40	10	10	40	24	25	19	25	14	5	5	5	5	5	5
Malappuram	75	75	20	20	..	..	..	..	20	20	..	..	..	..	..	..
Kozhikode	19	19	41	41	..	..	..	..	15	15	..	..	..	..	..	..
Wynad	18	6	30	30	..	..	..	..	..	..	..	..	..	..	..	..
Cannanore	135	135	70	70	..	..	10	7	25	25	5	5	5	5	5	5
State	398	382	389	381	40	24	35	26	275	233	80	80	80	80	80	80

A—Planned
B—Analysed

TABLE 3

No. of experiments missed in Paddy and Tapioca by reason (district-wise) (1981-82)

District	Paddy (Autumn)			Paddy (Winter)			Paddy (Summer)			Tapioca							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
Trivandrum	1	..	..	..	4	..	..	..	..	3
Quilon	1	..	..	2	..	..	..	..	..	..	..	..	..	..
Alleppey	..	2	..	2	..	..	2	1	..	..	6	..	1	..	1	..	..
Kottayam	..	3	..	6	..	..	..	..	..	..	..	..	..	..	1	..	..
Idukki	25	..	..	..	1	..	..	..	..	..	..	..	..	..
Ernakulam	..	2	..	..	..	..	1	..	..	..	1	..	2	..	..	..	..
Trichur	..	3	..	..	..	..	..	..	..	..	..	1	..	..	..	..	2
Palghat	..	4	..	..	..	..	3	1	..	..	4	..	1	..	..	..	..
Malappuram	..	7	..	..	..	..	..	3	..	..	..	8	..	..	3	..	..
Kozhikode	24	..	..	..	3	..	..	1	..	..	..	2	..	2
Wynad	1	..	..	..	..	..
Cannanore	..	1	..	12	..	..	1	..	..	..	..	..	..	..	..	..	..
State	..	22	..	70	..	..	9	..	10	..	12	..	18	..	7	..	7

1. Primary workers absence, leave, etc.
2. Prior harvest by cultivator.
3. Rejected at the analysis stage.
4. Other reasons.

TABLE 4

Number of Investigators according to number of Crop Cutting experiments on paddy conducted by them
(1981-1982)

No. of experiments	Number of Investigators			Summer
	Autumn	Winter		
(1)	(2)	(3)	(4)	(4)
4 experiments or less	571	638		576
5 to 8 experiments	53	34		42
More than 8 experiments	2	8		5
All	626	680		623

TABLE 5

No. of villages/experiments supervised by Asst. Director, Statistical Officers under the scheme I.C.S., the due date of completion and the actual date of completion (1981-82)

Seasons	Crop-cutting experiments on Paddy										
	Area enumeration				Actual date of completion			No. of experiments			Remarks
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		(11)
	No. of clusters for inspection	No. of clusters inspected	Due date of completion	Actual date of completion		No. of experiments allotted		No. of experiments supervised	Date of completion		
			Wet land	Dry land	Wet land	Dry land	Wet land	Dry land			
Autumn	130	130	15-10-1981	31-6-82	15-10-1981	31-7-1982	160	140	24-10-1981		
Winter	130	114	15-1-1982		15-1-1982		156	131	28-2-1982		
Summer	130	116	30-4-1982		30-4-1982		118	92	30-5-1982		
All	390	360					434	363			

TABLE 6 A

Land use classification 1975-76 and 1981-82

Classification	Area in Hectares ('00)			Percentage	
	1975-76 (2)	1981-82 (3)	1975-76 (4)	1981-82 (5)	
Total geographical area	38855	38855	100.00	100.00	
Forest	10815	10815	27.83	27.83	
Land under non-Agricultural uses	2592	2704	6.67	6.96	
Barren and uncultivable land	785	856	2.02	2.20	
Permanent pastures and grazing Lands	199	54	0.51	0.14	
Land under miscellaneous tree crops	842	552	2.17	1.42	
Cultivable waste land	1134	1302	2.92	3.35	
Fallow other than current fallow	230	268	0.59	0.69	
Current Fallow	356	545	0.92	1.40	
Net area sown	21892	21699	56.34	55.85	

TABLE 6 B

Land use classification 1975-76 to 1981-82

Classification	Area in Hectares ('00)							
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	
Total geographical area	38855	38855	38855	38855	38855	38855	38855	38855
Forest	10815	10815	10815	10815	10815	10815	10815	10815
Land under non Agl. uses	2592	2604	2572	2604	2635	2698	2664	2664
Barren and uncultivable land	785	788	753	746	752	858	856	856
Permanent pastures & grazing land	199	161	106	63	56	54	54	54
Land under miscellaneous Tree crops	842	727	680	664	655	639	552	552
Cultivable waste land	1134	1157	1183	1233	1250	1290	1302	1302
Fallow other than current fallow	230	223	271	266	277	269	268	268
Current fallow	356	374	461	423	434	436	445	445
Net area sown	21892	22006	22013	22041	21951	21796	21899	21899

TABLE 6 B (Contd.)

(1)	Percentage														
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
Total geographical area	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Forest	27.83	27.83	27.83	27.83	27.83	27.83	27.83	27.83	27.83	27.83	27.83	27.83	27.83	27.83	27.83
Land under non Agl. uses	6.67	6.70	6.62	6.70	6.78	6.94	6.96	6.96	6.96	6.96	6.94	6.94	6.94	6.96	6.96
Barren and uncultivable land	2.02	2.03	1.94	1.92	2.01	2.21	2.20	2.20	2.20	2.20	2.21	2.21	2.21	2.20	2.20
Permanent pastures and grazing land	0.51	0.41	0.27	0.16	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Land under miscellaneous Tree crops	2.17	1.87	1.75	1.71	1.69	1.64	1.42	1.42	1.42	1.42	1.64	1.64	1.64	1.42	1.42
Cultivable waste land	2.92	2.98	3.04	3.17	3.22	3.32	3.35	3.35	3.35	3.35	3.32	3.32	3.32	3.35	3.35
Fallow other than current fallow	0.59	0.57	0.70	0.68	0.71	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Current fallow	0.92	0.96	1.91	1.09	1.12	1.12	1.40	1.40	1.40	1.40	1.12	1.12	1.12	1.40	1.40
Net area sown	56.94	56.64	56.66	56.73	56.50	56.10	55.85	55.85	55.85	55.85	56.10	56.10	56.10	55.85	55.85

TABLE 7

Total area and classification of area in each district 1981-82 (Area in Hectares)

District	Total geographical area according to village papers	Forest	Land put to non-agricultural uses	Barren and unscrutable land	Permanent Pastures and grazing lands	Land under miscellaneous tree crops
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Trivandrum	218600	49861	16932	2280	34	276
Quilon	474290	236048	24826	2160	37	936
Alleppey	182270	518	30761	576	15	168
Kottayam	219550	8141	19376	2175	66	360
Idukki	515048	260993	15324	17336	2215	15450
Ernakulam	235319	8123	39114	2676	198	1335
Trichur	299390	103619	22107	2437	157	1425
Palghat	438980	136257	31686	13888	341	8244
Malappuram	363230	103417	18943	7706	439	3786
Kozhikode	233330	41386	16798	1754	114	3816
Wynad	232560	78787	5977	2702	337	4656
Cannanore	472930	54359	30607	29910	1429	14735
State	3985497	1081509	266451	85600	5382	55187

TABLE 7 (Contd.)

District	(1)	(8)	(9)	(10)	(11)	(12)	(13)
		Cultivable waste land	Fallow other than current fallow	Current fallow	Net area sown	Area sown more than once	Total cropped area
Trivandrum		2576	1765	1472	143404	87543	230947
Quilon		1286	1108	1891	203998	90938	296936
Alleppey		1925	1130	2131	145046	77059	222105
Kottayam		1835	2289	2737	182571	49282	231853
Idukki		39971	1310	1725	160724	8565	169289
Ernakulam		4917	2571	3771	178614	79272	257886
Trichur		5493	3090	4561	156501	83394	239895
Palghat		26071	3118	6491	212884	121371	334255
Malappuram		13965	4119	9166	201689	47701	249390
Kozhikode		3234	1549	2395	162284	27755	190039
Wynad		4435	1792	4518	129356	22754	152110
Cannanore		24496	2986	3629	310779	19773	330552
State		130204	26827	44487	2189850	715407	2905257

TABLE 8A

Area under important crops 1975-76 and 1981-82

District	Area in Hectares			Percentage to total Cropped area	
	1975-76 (2)	1981-82 (3)	1975-76 (4)	1981-82 (5)	
Paddy Autumn	375043	347098	12.91	11.95	
Winter	396392	356073	13.64	12.26	
Summer	104587	103700	3.60	3.57	
Total	876022	806871	30.15	27.77	
Coconut	692945	666618	23.85	22.95	
Arcanut	76618	61251	2.64	2.11	
Cashew	109057	139960	3.75	4.82	
Pepper	108251	108242	3.73	3.73	
Tapioca	326865	248069	11.25	8.54	
Rubber	206686	237769	7.11	8.18	
Banana & Plantain	52280	49989	1.80	1.72	

TABLE 8B
Area under important crops 1975-76 to 1981-82

Crop	Area in hectares							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	
Paddy								
Autumn	375043	363822	365111	346827	348373	349243	347098	
Winter	396392	381678	370859	345727	339608	354132	356073	
Summer	104587	108874	104404	106684	105285	98324	103700	
Total	876022	854374	840374	799238	793266	801699	806871	
Coconut	692945	694985	673479	660628	602657	651370	666618	
Areca nut	76618	68356	62427	62317	60858	61242	61251	
Cashew	109057	113326	126963	136552	139917	141277	139960	
Pepper	108251	108666	101045	106743	105817	108075	108242	
Tapioca	326865	323278	289722	273483	243763	244990	248069	
Rubber	206686	219723	212271	214415	215474	237769	237769	
Banana & Plantain	52280	51697	50100	53342	49558	49262	49989	

TABLE 8B (Contd.)

Crop	Percentage to total cropped area							
	1975-76 (9)	1976-77 (10)	1977-78 (11)	1978-79 (12)	1979-80 (13)	1980-81 (14)	1981-82 (15)	
Paddy	12.58	12.26	12.49	12.02	12.21	12.11	11.95	
Autumn								
Winter	13.30	12.87	12.68	11.98	11.90	12.28	12.26	
Summer	3.51	3.67	3.57	3.70	3.69	3.41	3.57	
Total	29.39	28.80	28.74	27.70	27.79	27.79	27.77	
Coconut	23.24	23.43	23.03	22.89	23.22	22.58	22.95	
Areca nut	2.57	2.30	2.14	2.16	2.13	2.12	2.11	
Cashew	3.66	3.82	4.34	4.73	4.90	4.90	4.82	
Pepper	3.63	3.66	3.46	3.70	3.71	3.75	3.73	
Tapioca	10.96	10.90	9.91	9.48	8.54	8.49	8.54	
Rubber	6.93	7.07	7.26	7.43	7.55	8.24	8.18	
Banana & Plantain	1.75	1.74	1.71	1.85	1.74	1.71	1.72	

TABLE 9

Area under principal crops (district wise) 1981-82 (Paddy)

District	Area under the crop (in hect.)			Total	Percentage sampling error			Total
	Autumn	Winter	Summer		Autumn	Winter	Summer	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Trivandrum	14800	14868	1107	30775	4.81	4.62	1.36	6.34
Quilon	24540	25087	779	50406	2.10	2.00	..	3.18
Alleppey	34047	26231	28328	88606	7.90	5.10	..	5.80
Kottayam	14435	12704	7289	34428	6.76	10.68	..	13.84
Idukki	3514	5138	305	8957	..	..	..	1.60
Ernakulam	40102	41379	19403	100884	5.50	5.80	..	4.99
Trichur	41794	51570	22147	115511	10.45	6.26	13.10	8.73
Palghat	90044	86815	4018	180877	3.00	2.18	..	3.57
Malappuram	37516	35830	5628	78974	10.95	8.69	1.00	8.01
Kozhikode	10086	14034	2833	26953	6.50	6.59	14.00	4.80
Wynad	68	22693	7328	30089	..	..	..	..
Canmanore	36152	19724	4535	60411	3.00	6.42	9.02	4.40
State	347098	356073	103700	806871	2.25	1.71	6.69	2.82

TABLE 10

Area Under principal crops (district wise) 1981-82 (Tapioca)

District	Area under crop (Hectares)			Percentage of sampling error			Total	
	Autumn	Winter	Summer	Autumn	Winter	Summer		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Trivandrum	26334	26827	7159	60320	6.13	12.27	11.23	9.82
Quilon	18390	40990	1071	60451	2.25	5.74	7.91	5.30
Alleppey	2663	15320	1111	19094	2.46	8.58	11.17	7.40
Kottayam	1464	22578	518	24560	1.60	10.03	8.21	6.61
Idukki	1267	8320	48	9635	2.61	..	..	..
Ernakulam	3785	7942	655	12382	8.57	1.25	1.43	3.75
Trichur	1044	4849	264	6157	32.79	10.90	18.33	20.67
Palghat	6655	5735	324	12714	14.37	13.40	12.36	13.38
Malappuram	6850	9718	1536	18104	15.16	40.38	28.00	28.67
Kozhikode	2010	1440	244	3694	7.23	9.52	7.84	8.18
Wynad	1317	1302	376	2995	4.86	18.05	30.92	17.95
Cannanore	1763	15121	1079	17963	2.87	15.05	12.75	10.26
State	73542	160142	14385	248069	2.18	2.35	4.46	8.99

TABLE 11

Area under principal Crops (District-wise) 1981-82 (Coconut)

District	No. of Trees '000		Total	Area (Hectares)	Percentage of sampling error
	Bearing	Young			
(1)	(2)	(3)	(4)	(5)	(6)
Trivandrum	9867	6821	16688	73515	11.29
Quilon	10495	7513	18008	84544	6.88
Alleppey	10189	4533	14722	62118	19.64
Kottayam	8681	2332	11013	50751	8.87
Idukki	1891	1149	3040	17371	..
Ernakulam	8601	5545	14146	62317	5.99
Trichur	8672	4911	13583	57312	7.15
Palghat	2853	2578	5431	22916	14.18
Malappuram	8234	5377	13611	57919	24.33
Kozhikode	15261	7801	23062	97308	16.48
Wynad	211	627	838	3535	..
Cannanore	10046	8360	18406	77012	20.44
State	95001	57547	152548	666618	14.62

TABLE 12

Area under Principal Crops (Districtwise) 1981-82 (Areca nut)

District	No. of trees in '000		Total	Area (Hectares)	Percentage of sampling error
	Bearing	young			
(1)	(2)	(3)	(4)	(5)	(6)
Trivandrum	5713	1345	7058	3306	10.10
Quilon	6621	3046	9667	4426	4.80
Alleppey	3823	2276	6099	2837	12.45
Kottayam	4472	1159	5631	2558	9.19
Idukki	3496	1752	5248	2389	8.40
Ernakulam	11304	2357	13661	6212	7.16
Trichur	12122	2394	14516	6601	1.41
Palghat	3662	1439	5101	2395	23.03
Malappuram	14520	4132	18652	8753	17.72
Kozhikode	9616	1954	11570	5427	14.07
Wynad	1970	932	2902	1361	2.37
Cannanore	19410	7850	27260	14986	2.18
State	96729	30636	127365	61251	7.13

TABLE 13

Area under Principal Crops (District-wise) 1981-82 (Cashew)

<i>District</i>	<i>No. of trees ('000)</i>	<i>Area in Hectares</i>	<i>Percentage of sampling error</i>
(1)	(2)	(3)	(4)
Trivandrum	1938	6460	29.08
Quilon	2625	8750	14.27
Alleppey	1119	3730	11.15
Kottayam	440	1467	14.42
Idukki	373	1243	17.44
Ernakulam	1177	3923	3.71
Trichur	2192	7307	0.40
Palghat	3957	13190	16.28
Malappuram	6143	20477	8.06
Kozhikode	1309	4363	20.41
Wynad	305	1017	10.95
Cannanore	20410	68033	6.77
State	41988	139960	4.50

TABLE 14

Area under Principal Crops (District-wise) 1981-82 (Pepper)

<i>District</i>	<i>No. of Standards ('000)</i>	<i>Area in Hectares</i>	<i>Percentage of Sampling error</i>
(1)	(2)	(3)	(4)
Trivandrum	3015	5384	15.85
Quilon	5489	9801	10.80
Alleppey	2697	4816	5.90
Kottayam	7206	12868	9.94
Idukki	6822	12182	..
Ernakulam	3814	6811	7.95
Trichur	2260	4036	2.91
Palghat	866	1546	5.29
Malappuram	2249	4016	13.79
Kozhikode	7609	13588	14.12
Wynad	4119	7355	..
Cannanore	14470	25839	14.69
State	60616	108242	4.16

TABLE 15

Area under Plantation Crops (District-wise) 1981-82
(Area in Hectares)*

<i>District</i>	<i>Rubber</i>	<i>Tea</i>	<i>Coffee</i>	<i>Cardamom</i>
(1)	(2)	(3)	(4)	(5)
Trivandrum	8735	1072	48	164
Quilon	38890	1653	378	149
Alleppey	4273	..	21	..
Kottayam	63232	2230	958	22
Idukki	17449	23967	4827	45172
Ernakulam	23334	30	247	..
Trichur	9386	447	33	..
Palghat	11084	665	2351	3407
Malappuram	19281	174	..	184
Kozhikode	6311	..	..	411
Wynad	24424	5387	49086	3741
Cannanore	11370	..	..	1206
State	237769	35625	57949	54516

* Commodity Board figures.

TABLE 16

Area under annual Crops (District-wise) 1981-82
(Area in Hectares)

<i>District</i>	<i>Banana</i>	<i>Plantain</i>	<i>Sugarcane</i>	<i>Pineapple</i>	<i>Betel leaves</i>
(1)	(2)	(3)	(4)	(5)	(6)
Trivandrum	860	6087	24	450	190
Quilon	1562	3117	307	644	190
Alleppey	774	3767	2990	354	79
Kottayam	1081	3163	242	430	75
Idukki	204	2981	2124	376	7
Ernakulam	1629	3796	55	513	90
Trichur	1432	3095	8	484	65
Palghat	1545	2010	2568	266	4
Malappuram	2159	1751	15	276	325
Kozhikode	1070	1797	3	416	42
Wynad	577	1347	21	160	2
Cannanore	1175	3010	24	1004	23
State	14068	35921	8381	5373	1092

TABLE 17

Area under seasonal crops (District-wise) 1981-82 (Area in hectares)

District	Pulses		Total	Jowar	Ragi	Other cereals & millets	Chillies	Ginger	Turmeric
	Kharif pulses	Rabi pulses							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Trivandrum	77	3058	3135	..	19	30794	..	164	51
Quilon	1057	991	2048	..	7	50413	..	1239	113
Alleppey	72	750	822	..	8	88614	..	224	28
Kottayam	308	1748	2056	..	4	34432	..	3214	808
Idukki	189	1633	1822	25	328	9535	..	1144	180
Ernakulam	868	599	1467	5	2	101071	..	2425	637
Trichur	2405	863	3288	11	36	115662	2	123	186
Palghat	3619	7088	10707	1068	975	185032	202	363	286
Malappuram	750	1178	1928	..	11	79054	84	491	104
Kozhikode	318	1137	1455	..	28	26984	75	1745	200
Wynad	6	351	357	..	1	30090	..	1065	260
Cannanore	44	4781	4825	60	16	60602	906	1250	347
State	9713	24197	33910	1169	1435	812283	1269	19447	3200

TABLE 18

Area under other seasonal crops 1981-82 (Area in Hectares)

District	Sweet potatoes	Tubers	Lemon grass	Vegetables	Seasamum	Groundnut	Cotton	Tobacco
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Trivandrum	140	2502	60	603	19	6,	..	..
Quilon	40	5849	44	329	2883	..	..	..
Alleppey	82	5293	10	908	4829	..	..	..
Kottayam	24	3510	56	879	40	..	..	..
Idukki	168	1492	1363	1112	260	..	..	..
Ernakulam	60	2905	593	2766	2057	..	..	..
Trichur	135	2482	55	1436	1595	..	..	..
Palghat	2023	1966	110	2668	1075	9618	6777	..
Malappuram	1587	2699	109	1828	1842	3	..	..
Kozhikode	65	1939	766	298	26	..	..	..
Wynad	12	957	1902	363	128	..	..	..
Cannanore	980	1386	1362	1424	283	80	..	570
State	5316	32980	6371	14614	15037	9707	6777	570

TABLE 19

Area of other Perennial Crops (District-wise) 1981-82 (Area in hectares)

District	Jack	Mango	Tamarind	Pappaya	Drumstick	Palmyrah	Cloves	Nutmeg
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Trivandrum	7320	7557	1879	724	3535	693	131	87
Quilon	5347	6516	751	492	1184	36	73	105
Alleppey	3875	4407	228	841	1191	22	27	170
Kottayam	4795	4071	482	869	1435	446	291	499
Idukki	2252	1910	190	758	309	280	42	189
Ernakulam	4031	5084	825	1126	1300	398	95	1397
Trichur	3873	4299	1474	1726	845	965	18	341
Palghat	4220	5135	2880	465	717	7538	2	63
Malappuram	5850	6109	1287	1449	918	1469	8	119
Kozhikode	6118	5565	639	988	2457	361	4	4
Wynad	6667	2799	129	137	133	320	13	8
Cannanore	6689	6729	565	1052	672	187	7	520
State	61037	60181	11329	10627	14696	12715	711	3502

TABLE 19 (Concl'd.)

District	Cinnamon	Cocoa	Other fruits crops	Other oil seeds trees	Fodder grass crops	Green manure crops	Other non-food crops
(1)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Trivandrum	13	1018	1326	271	295	224	1785
Quilon	35	1556	580	62	257	706	1416
Alleppey	15	3165	933	118	184	239	1027
Kottayam	84	6153	974	144	467	287	2200
Idukki	38	2184	1048	72	454	214	2346
Ernakulam	57	3680	646	195	121	246	3425
Trichur	60	1269	976	168	122	445	1987
Palghat	210	308	2352	598	30	1304	10945
Malappuram	..	673	716	37	31	2873	4688
Kozhikode	140	1744	876	60	25	912	2163
Wynad	9	311	1100	75	94	454	3718
Cannanore	350	1320	1796	129	258	1576	12982
State	1011	23381	13323	1929	2338	9480	48682

TABLE 20

Source wise Irrigation (Hectares) 1981-82

District	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Government canal	Private canal	Government Tanks & wells	Private Tanks & Wells	Minor & lift irrigation	Other sources	Total	
Trivandrum	6544	15	804	586	2122	1294	11365	
Quilon	176	250	134	562	497	758	2377	
Alleppey	2667	13	213	14183	3890	4493	25459	
Kottayam	134	20	553	995	387	1687	3776	
Idukki	63	84	206	114	108	1102	1677	
Ernakulam	18039	137	1240	8542	14292	5747	47997	
Trichur	20752	504	989	5960	4620	5459	38284	
Palghat	46939	315	353	7925	1407	3417	60356	
Malappuram	835	768	167	7498	4012	7150	20430	
Kozhikode	4392	151	137	746	1733	1610	8769	
Wynad	2	167	9	95	..	4899	5172	
Cannanore	144	2771	241	4500	634	5622	13912	
State	100687	5195	5046	51706	33702	43238	239574	

TABLE 21

Area under Irrigation —Crop wise 1981-82

District	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
		Paddy	Vegetable	Tubers	Coconut	Arecanut	Cloves nutmeg & cinamon	Other condiments & spices	Banana	Betlleleaves	Sugarcane	Others	Total
Trivandrum	8976	426	45	919	4	20	1	170	130	3	1250	11944	
Quilon	5777	153	6	67	1	10	..	25	126	2	1462	7629	
Alleppey	12546	140	196	19449	39	96	90	260	27	178	1518	34539	
Kottayam	4370	208	..	45	..	163	..	90	16	..	1705	6598	
Idukki	2851	10	..	30	2	25	1	5	..	..	39	2963
Ernakulam	62745	112	..	7210	600	534	32	655	5	..	2582	74475	
Trichur	59851	400	5	24873	2451	120	609	438	30	..	1603	90380	
Palghat	70041	311	5	1972	1594	34	166	645	..	750	1520	77038	
Malappuram	19492	600	114	2502	1849	..	..	738	243	..	1200	26738
Kozhikode	3855	174	51	214	50	3	7	1060	20	..	3773	9207	
Wynad	6793	90	5	6	3	..	..	80	..	..	110	7087
Cannanore	18149	840	15	5895	7715	..	93	702	12	1408	34829
State	275416	3464	442	63183	14303	1005	999	4869	597	945	18170	383427	

TABLE 22(a)
Irrigated and Unirrigated area under High Yielding and other Varieties (Autumn Paddy)
(in Hectares) 1981-82

District	High Yielding				Other Varieties				Total	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(9)
Trivandrum	75	1012	1087	3607	10106	13713	3682	11118		
Qulon	531	10897	11428	878	12234	13112	1409	23131		
Alleppey	..	17108	17108	..	16939	16939	..	34047		
Kottayam	6	11717	11723	15	2697	2712	21	14414		
Idukki	142	2984	3126	16	372	388	158	3356		
Ernakulam	8131	8580	16711	5422	17969	23391	13553	26549		
Trichur	140	6429	6569	1387	33838	35225	1527	40267		
Palghat	274	57795	58069	125	31850	31975	399	89645		
Malappuram	95	6877	6972	447	30097	30544	542	36974		
Kozhikode	..	1331	1331	13	8789	8802	13	10120		
Wynad	..	..	..	..	..	..	..	Nil	Nil	Nil
Cannanore	94	4723	4817	317	31018	31335	411	35741		
	9488	129453	136941	12227	195909	208136	21715	325362		

State

TABLE 22(b)

Irrigated and Unirrigated area under high yielding and other Varieties (winter paddy)
1981-82 (in Hectares)

District	High Yielding		Other Varieties			Total	
	Irrigated (2)	Unirrigated (3)	Total (4)	Irrigated (5)	Unirrigated (6)	Total (7)	Unirrigated (9)
(1)							
Trivandrum	39	261	300	4402	10166	14568	10427
Quilon	146	1043	1189	3654	20244	23898	21287
Alleppey	939	2639	3578	1032	21561	22653	24200
Kottayam	3551	6586	10137	701	1866	2567	8452
Idukki	442	789	1231	1946	1961	3907	2750
Prnakulam	2006	269	2275	27831	11273	39104	11542
Trichur	7883	2257	10140	28294	13136	41430	15393
Palghat	31677	3183	34860	34154	17802	51956	20985
Malappuram	2419	1540	3959	11115	20756	31871	22296
Kozhikode	104	1303	1407	1095	11532	12627	12835
Wynad	..	1973	1973	2	20718	20720	22691
Cannanore	2305	225	2530	10929	6265	17194	6490
State	51511	22068	73579	125215	157280	282495	179348

Irrigated and unirrigated area under high yielding and other varieties (summer paddy)
1981-82 (in hectares)

District	High yielding				Other varieties				Total		
	Irrigated	Unirrigated	Total	Irrigated	Unirrigated	Total	Irrigated	Unirrigated	Total	Irrigated	Unirrigated
(1)											
Trivandrum	646	105	751	207	149	356	853	254			
Quilon	126	48	174	442	163	605	568	211			
Alleppy	8810	8018	16828	1705	9795	11500	10515	17813			
Kottayam	72	4054	4126	25	3138	3163	97	7192			
Idukki	297	Nil	297	4	4	8	301	4			
Ernakulam	3893	3	3896	15462	45	15507	19355	48			
Trichur	10708	Nil	10708	11439	Nil	11439	22147	Nil			
Palghat	1308	13	1321	2503	194	20697	3811	207			
Malappuram	2934	91	3025	2482	121	2603	5416	212			
Kozhikode	1799	184	1983	844	6	850	2643	190			
Wynad	2479	15	2494	4312	522	4834	6791	537			
Cannanore	1568	12	1580	2936	19	2955	4504	31			
State	34640	12543	47183	42361	14156	56517	77001	26699			

TABLE 23

Production of important crops 1975-76 and 1981-82

	Production in tonnes (00)		Percentage increase or decrease
	1975-76	1981-82	
(1)	(2)	(3)	(4)
Rice			
Autumn	5523	5569	+0.83
Winter	5980	5892	-1.47
Summer	1809	1933	+6.85
Total	13312	13394	+0.62
Coconut (million nuts)	3439	3006	-12.59
Areca nut (million nuts)	11387	10702	-6.02
Cashew	1224	789	-35.54
Pepper	246	275	+11.79
Tapioca	53902	37451	-30.52
* Rubber	1288	1395	+8.31
Banana & Plantain	2510	3275	+30.48
* Cardamom	21	28	+33.33

* Commodity Board estimates.

Production of important crops—1975-76 to 1981-82

(1)	Production in tonnes (00)							
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	
Rice	5523	4877	5518	5448	5677	5537	5569	
Autumn								
Winter	5980	5877	5592	5300	5265	5485	5892	
Summer	1809	1786	1836	1986	2055	1697	1933	
Total	13312	12540	12946	12734	12997	12720	13394	
Coconut (Million nuts)	3439	3348	3053	3211	3032	3008	3006	
Areca nut (")	11387	11303	10548	10919	10829	10805	10702	
Cashew	1224	873	847	842	828	819	789	
Pepper	246	245	201	263	289	285	275	
Tapioca	53902	51253	41886	40440	40889	40609	37451	
* Rubber	1288	1393	1359	1237	1366	1403	1395	
Banana & Plantain	2510	2157	2720	3229	3059	3174	3275	
* Cardamom	21	14	29	29	33	32	28	

* Commodity Board estimates.

TABLE 23 A (Concid.)

Production of important crops—1975-76 to 1981-82

(1)	Percentage of increase or decrease to previous year						
	1976-77 (9)	1977-78 (10)	1978-79 (11)	1979-80 (12)	1980-81 (13)	1981-82 (14)	
Rice	-11.70	+13.40	-1.27	+4.20	-2.47	+0.83	
Autumn							
Winter	-1.72	-4.85	-5.22	-1.04	+4.18	-1.47	
Summer	-1.27	+2.80	+8.17	+3.47	-17.42	+6.85	
Total	-5.80	+3.24	-1.64	+2.07	-2.13	+0.62	
Coconut (Million nuts)	-2.63	-8.81	+5.18	-5.57	-0.79	-12.59	
Areca nut (")	-0.74	-6.08	+3.52	-0.82	-0.22	-6.02	
Caulow	-29.82	-2.89	-0.59	-1.06	-1.09	-35.54	
Pepper	-0.41	-17.96	+30.85	+9.89	-1.38	+11.79	
Tapioca	-4.91	-18.28	-3.45	+1.11	-0.68	-30.52	
Rubber	+8.15	-2.44	-8.95	+10.43	+2.71	+8.31	
Banana & Plantain	-14.06	+26.10	+18.71	-5.26	+3.76	+30.48	
Cardamom	-33.33	+107.14	..	+13.7	-3.03	-12.50	

TABLE 24

District-wise production of important crops (in Tonnes)

	Rice				Total	Jowar	Ragi	Other cereals millets	Pulses
	Autumn	Winter	Summer						
	(2)	(3)	(4)	(5)					
(1)					(6)	(7)	(8)	(9)	
Trivandrum	20707	22897	1233	44837	..	16	..	749	
Quilon	39102	43371	896	83869	..	6	..	1628	
Alleppey	53748	44917	74497	173162	..	7	..	670	
Kottayam	28138	21180	15285	64603	..	3	..	1472	
Idukki	6114	9682	312	16108	11	282	144	1479	
Ernakulam	57138	62974	28883	148995	2	2	115	1050	
Trichur	47193	74310	33970	155473	4	40	67	2348	
Palghat	203506	175043	6840	385389	481	683	1352	6006	
Malappuram	44860	52248	8082	105190	..	10	44	1431	
Kozhikode	9136	14427	3941	27504	..	26	2	1107	
Wynad	58	42109	12915	55082	..	1	..	272	
Cannanore	47218	25996	6467	79681	27	24	74	3474	
State	556918	589154	193321	1339393	525	1100	1798	22286	

TABLE 24 (Contd.)

District	Sugar cane (gur)	Black Pepper	Dry chillies	Dry Ginger	Card Turmeric	Processed Cardamom	Betel nuts (Nos. in million)	Banana	Other Plantain	Jack (No. in thousand)
(1)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
Trivandrum	118	1734	..	400	99	5	314	9856	32687	24193
Quilon	1351	2784	..	3368	213	8	669	15647	11561	19853
Alleppey	15518	968	..	552	55	..	325	9395	11399	16205
Kottayam	1271	1686	..	9215	1508	1	362	17072	16660	18681
Idukki	13020	2010	..	2733	319	2300	412	2341	15695	7350
Ernakulam	340	1117	..	6140	1180	..	1175	18646	14759	18490
Trichur	33	537	2	128	291	..	1394	22683	8332	6057
Palghat	17771	187	180	607	459	171	344	21034	4046	18162
Malappuram	94	1072	74	873	157	9	1496	29568	5617	28881
Kozhikode	19	4701	60	4328	461	13	1616	14477	6126	27959
Wynad	131	3067	..	2641	599	213	189	7807	4592	30468
Cannanore	83	7648	843	3394	686	80	2406	13889	13638	31933
State	49749	27511	1159	34379	6027	2800	10702	182415	145112	248232

* Commodity Board estimates

TABLE 24 (Contd.)

District	Mango	Raw cashew-nuts	Tapioca	Sweet Potatoe	Ground-nut	Sesamum	Coconut (Million nuts)	Cotton bales of 170 kg.	Tobacco	Tea*	Coffee*	Rubber*
(1)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)
Trivandrum	24409	4018	904800	845	5	5	355	..	..	906	45	5906
Quilon	28716	6011	826970	241	..	721	356	..	..	797	355	25984
Alleppey	8814	2029	266934	495	..	869	265	..	..	..	20	2767
Kottayam	22785	1448	405240	145	..	9	200	..	..	283	901	36842
Idukki	2966	1444	203588	1050	..	57	44	..	..	34871	4537	11487
Ernakulam	31404	2346	243059	362	..	761	344	..	..	..	232	13934
Trichur	26555	1659	76655	815	..	431	381	..	..	912	30	6083
Palghat	14378	3113	191346	12745	8493	312	77	10724	..	1187	1083	4380
Malappuram	52971	8682	235352	10787	3	626	247	..	..	84	..	9931
Kozhikode	21389	4359	49426	414	..	8	443	..	..	..	..	1321
Wynad	9785	1472	66938	76	..	40	4	..	..	6427	26450	12842
Cannanore	33845	42317	274834	6699	71	161	260	..	1050	..	..	5978
State	280017	78898	3745142	34674	8572	4000	3006	10724	1050	45457	33655	139455

* Commodity Board estimates

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