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GOVERNMENT OF KERALA

REPORT OF CROP CUTTING SURVEY ON PADDY 1982-83



DEPARTMENT OF
ECONOMICS & STATISTICS
TRIVANDRUM



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FOREWORD

Crop estimation surveys on paddy are being conducted by the Department regularly since 1950, separately for each season viz., Autumn (virippu) Winter (Mundakan) and Summer (Puncha). This report gives the results of the crop estimation surveys conducted during the 3 crop seasons of 1982-83 viz., autumn 82, winter 83 and summer 83. Besides it deals with the objective of the survey, sampling technique adopted and analysis of ancillary data obtained from the surveys.

This report was prepared by Smt. M. S. Valsala, Assistant Director under the guidance of Shri K. Achuthan, Joint Director, Agricultural Statistics Division of Department of Economics and Statistics.

Suggestions for the improvement of this publication are welcome.

Trivandrum,
19-6-1986.

N. GEORGE JOHN,
Director.

FORWORD

Over a hundred surveys on parks are being conducted by the Department of the Interior, Bureau of Land Management, and the National Park Service. The first of these surveys was conducted in 1930, and the last in 1962. The surveys have been conducted in a systematic and orderly manner, and the results are being published in a series of reports. The first report, "Parks of the United States," was published in 1930, and the last, "Parks of the United States, 1962," was published in 1962. The reports are being published in a series of volumes, and the first volume, "Parks of the United States, 1930-1962," is now being published.

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John C. ...

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1. Introduction

The Department of Economics and Statistics is regularly conducting annual crop estimation surveys on two important food crops viz., paddy and tapioca. In the case of paddy experiments are conducted separately for each of the three seasons namely autumn, winter and summer. With the introduction of EARAS scheme during 1975-76 crop cutting experiments were extended to coconut, arecanut, cashew, pepper and cocoa. During the year under report crop cutting experiments were also conducted in four minor crops viz., tubers, betel leaves, sugarcane and drumstick. The main objectives of these sample surveys were to estimate productivity as well as the total production of the crop in the state.

The present report relates to the yield estimation survey on paddy during the three crop seasons namely Autumn (virippu), winter (Mundakan) and summer (Punja) of 1982-83.

2. Objectives of the survey

The main objectives of the survey were:

1. To estimate the average yield of paddy per hectare for taluks, districts and state.
2. To estimate the total production of rice in the state during each crop season.
3. To estimate the productivity of high yielding and other varieties of paddy separately in each district.
4. To estimate the productivity of the crop according to the different cultivation practices like application of chemical fertilizers, adoption of irrigation etc.

3. Period of the survey

The harvesting period of the Autumn paddy crop was from August 1982 to October 1982, winter from December 1982 to February 1983 and for summer from March 1983 to May 1983.

4. Coverage and sample size

The survey was conducted during Autumn 82 in all taluks of the state except Peermade, Udumbanchola and taluks of Wynad District. However during winter, the crop cutting survey was not conducted in Cochin taluk as also in nine other taluks of the state during summer 83.

5. Sampling design

For the conduct of the survey, a stratified multistage random sampling design was adopted. Each taluk was treated as the stratum, revenue village as the first stage unit, a survey sub division as the second stage unit and a square plot of side 5 metres as the ultimate sampling unit. The number of experiments to be conducted in each season is fixed, considering the area of the crop (and availability of investigators). However, the number of experiments in a taluk is limited to 30 subject to a minimum of two experiments in a village. The sample villages were selected for EARAS survey at the headquarters of the Directorate at the beginning of the agricultural year.

Three samples of the harvested produce each weighing 250 gms of the wet paddy were collected at the time of harvest from a taluk, for conducting driage experiments. The first sample was taken at the beginning, the second towards the middle and the third towards the end of the harvest season.

6. Sample selection

The selection of plots in each investigator unit was done by the Taluk Statistical Inspector. The selection of kandom, if the number of kandoms in the selected survey sub division was more than one, and the location of square plots of side five metres were done by the investigator.

7. Field work

The investigators under the immediate supervision of the statistical Inspectors and Additional Statistical Inspectors conducted the field work of the survey. The District Officers were responsible for the proper conduct and supervision of the field work of the survey. The Additional District Officers were also instructed to conduct supervision of the field work.

The total number of crop cutting experiments planned in the state during Autumn, Winter and Summer of 1982-83 were 1550, 1550 and 974 respectively while the percentage response was found to be 96.2 for Autumn, 96.4 for winter and 97.2 for the summer season.

8. Supervision

The field work of the survey was inspected at three stages viz. preharvest, harvest and post harvest by the Additional Statistical Inspectors, Statistical Inspectors, Additional District Officers and District Officers. The officers at the district level have to conduct harvest stage inspection at the rate of one experiment in each taluk. The Statistical Inspectors and Additional Statistical Inspectors have to conduct at least one harvest stage inspection in each investigator unit, subject to a minimum of six experiments in a taluk. During Autumn, winter and summer 1982-83 about 41.4%, 42.1% and 40.1% respectively of the experiments analysed were inspected at the harvest stage.

During Autumn 1982, about 12.4% of the experiments analysed were inspected at the preharvest stage and the corresponding figures for winter and summer are 15.1 and 12.3 respectively.

9. Analysis

The tabulation and analysis of the data collected through the survey was done at the Agricultural Statistics Division of the Directorate.

10. Procedure of estimation

The taluk-wise mean and yield of dry paddy and its standard error were estimated using the following formula.

1. Taluk mean yield:

$$\bar{X} = \frac{\sum_{i=1}^K \sum_{j=1}^{n_i} x_{ij}}{\sum_{i=1}^k n_i}$$

Where n_i = number of experiments conducted in the i th revenue village

k = number of revenue village selected in the taluk

x_{ij} = weight of paddy obtained from the j th experiment in the i th village

Each experiment is taken from 5 metres square ie 1/400 th of a hectare

Mean yield of dry paddy in kg. per hectare = $\bar{X} \times 400 \times d$

Where d is the drirage ratio.

2. Standard error of taluk mean yield:—

Variance of Taluk Mean yield =

$$\frac{A}{N} + \frac{B-A}{m} \times \frac{\sum_{i=1}^k n_i^2}{N^2}$$

Where A = Mean square within revenue villages

B = Mean square between villages

N = Total number of experiments conducted in the taluk ie.

$$\sum_{i=1}^k n_i$$

n_i = No. of experiments conducted in the i th village

$$m = \frac{N^2 - \sum_{i=1}^K n_i^2}{N(K-1)}$$

K = Number of villages selected in the taluk

The standard error (S.E.) is the square root of this variance

The standard error in kg. per hectare is obtained by multiplying this square root of variance by 400.

(3) Standard error of the state mean yield

The formula adopted for the computation of standard error of the state mean yield is indicated below.

$$\text{SE of the state mean yield} = \frac{\sqrt{\sum (a_i s_i)^2}}{\sqrt{\sum a_i}^2}$$

Where a_i = Area under the crop in the i th taluk

s_i = The standard error of the estimate of mean yield in the i th taluk.

The area under paddy in each taluk estimated through the TRS has been utilized to compute the production of rice.

The weight of clean rice is reckoned as 65.7% of dry paddy.

11. Results of the survey

(1) General

The estimated production of rice in the state during the three seasons of the year 1982-83 is given below:—

Autumn 1982	—	578828	(tonnes)
„ 1981	—	556918	„
Winter 1983	—	565704	„
„ 1982	—	589154	„
Summer 1983	—	161665	„
1982	—	193321	„
Total 1982-1983	—	1306197	„
1981-1982	—	1339393	„

The percentage reduction in production during winter 1982 and summer 1983 when compared with the corresponding period of last year was 3.98 and 16.88 respectively. However in autumn 1983, it has registered an increase of 3.93 per cent over the last year.

The production of rice in the state has declined to the tune of 33196 tonnes (2.48%) during the year when compared to the production of previous year.

The estimates of area, mean yield and its standard error together with the number of crop cutting experiments analysed season-wise in each taluk are given in appendix 1.1, 2.1 and 3.1.

An yield rate of over 2500 kg. of wet paddy each per hectare was obtained from about 42% of the experimental plots in autumn 1982, 45% in winter 1983 and 48% in summer 1983. During autumn 1982, about 11% of the experimental plots had yield rate over 4500 kg. per hectare while in winter and summer 1983 this percentage was about 9 and 18 respectively. The lowest yield rate of less than 500 kg. of wet paddy per hectare was obtained from about 4% of the experimental plots during autumn 1982, about 6% in winter 1983 and about 12% in summer 1983.

To determine the driage ratio of dry paddy to wet paddy during autumn 1982 winter 1983 and summer 1983, 123, 170 and 145 driage experiments respectively were conducted. The driage ratio varied from 84 in Idukki district to .91 in Cannanore district during autumn 82 and during winter it varied from .88 in Trichur District to .96 in Kozhikode District. In summer 1983, it varied from .90 in Palghat District to .94 in Kottayam district. The driage ratio for the state was estimated as .87 or Autumn 1982, .91 for winter 1983 and .92 for summer 1983.

The estimated taluk-wise and district-wise mean yield of dry paddy relating to autumn, winter and summer 1982-83 for the state for the last six years are given in tables 1.2, 2.2 and 3.2.

12. High yielding varieties

The estimated area, mean yield and production of high yielding varieties and other varieties of paddy in each district and the state during the three seasons of 1982-83 are furnished in tables 1.3, 2.3 and 3.3 respectively in the appendix. While during autumn and summer seasons High Yielding Varieties were cultivated in about 33% and 38% of the total area under paddy cultivation, in winter 15% of the area only was brought under High Yielding Varieties.

It is estimated that about 42% and 44% respectively of the total outturn of rice in the state during autumn and summer seasons of 1982-83 were from High Yielding Varieties. But the state level productivity of high yielding varieties was higher than that of local varieties by 60% in autumn, 35% in winter and 18% in summer

The Productivity of High Yielding Variety was found higher in all the districts except Trivandrum. During winter 1983, the productivity of High Yielding Variety was higher in all the taluks except Trivandrum, and Malappuram while in summer 1983 the productivity of High Yielding Variety was lower only in Ernakulam District.

The district-wise yield rate of High Yielding Variety varied from 1689 kg/hect. in Kozhikode district to 4237 kg./hect. in Palghat district during autumn 1982, from 1702 kg./hect. in Malappuram District to 3665 kg./hect. in Idukki District during winter 1983 and from 1086 kg./hect. in Ernakulam District to 5325 kg./hect. in Kottayam district during summer 1983.

The distribution of experimental plots with high yielding varieties of paddy according to the variety raised in each district during autumn, winter and summer 1982-83 showed that about 37%, 19% and 47% of the experimental plots covered by the survey were grown with high yielding strains of paddy during autumn, winter and summer respectively. The High Yielding Variety of paddy in the order of cultivators preference was Jyothi, Jaya and Mashoori during Autumn 1982, Jyothi, Mashoori and H4 during winter 1983 and Jyothi, Triveni and cul. 28 during summer. The highest state average yield of 7394 kg./hect. during Autumn 1982 was obtained from Ponni cultivated only in Palghat District. This was followed by 4058 kg./hect. from vijaya and 3513 kg./hect. from Jaya. During winter the highest state average of 4829 kg./hect. was obtained from manila cultivated only in Cannanore District; followed by Thaichung and Bhavani, while IR8, Mashoori and Bharathy had yielded maximum during summer 1983.

The names of high yielding strains of paddy which corresponds to the highest district average yield together with the highest mean yield and the number of experimental plots where the crop was raised in each district during autumn 1982 are indicated in the table given below.

District-wise high yielding variety with highest average yield Autumn 1982

<i>S^o.</i> <i>No.</i>	<i>District</i>	<i>HYV correspond- ing to the high- est district average</i>	<i>Highest aver- age yield of dry paddy (kg./hect.)</i>	<i>No. of experi- mental plots where HYV in Col. 3 is raised</i>
(1)	(2)	(3)	(4)	(5)
1.	Trivandrum	Jyothi	4073	2
2.	Quilon	Jaya	3400	19
3.	Alleppey	Vijaya	4058	1
4.	Kottayam	Jaya	3756	3
5.	Idukky	Cul 28	4843	7

(1)	(2)	(3)	(4)	(5)
6.	Ernakulam	Bharathy	3947	2
7.	Trichur	Jyothi	2746	14
8.	Palghat	Ponni	7394	1
9.	Malappuram	Jaya	3074	3
10.	Kozhikode	IR 8	2303	6
11.	Cannanore	H4	3021	13

The highest district average was obtained for Ponni in Palghat District followed by cul.28 in Idukki district and vijaya in Alleppey district. Jaya attained the highest district average yield in three districts and jyothi in two districts.

The names of high yielding varieties of paddy corresponding to the highest average yield in each district together with the highest average yield and the number of experimental plots where the crop was raised during winter 1983 are indicated below:—

District-wise high yielding variety with highest average yield—winter 1983

Sl. No.	District	HYV corresponding to the highest district average yield	Highest average yield of dry paddy	No. of experimental plots where HYV in col. 3 is raised
(1)	(2)	(3)	(4)	(5)
1.	Trivandrum	Jyothi	3041	1
2.	Quilon	Sabari	2785	10
3.	Alleppey	Jyothi	2823	16
4.	Kottayam	Triveni	3896	2
5.	Idukki	H4	3520	10
6.	Ernakulam	H4	1501	4
7.	Trichur	Triveni	3658	2
8.	Palghat	Triveni	4229	2
9.	Malappuram	Jyothi	2034	2
10.	Kozhikode	Mashoori	3798	1
11.	Wynad	Thaichung	4177	1
12.	Cannanore	Manila	4829	1

Manila recorded the highest district average yield in Cannanore followed by Triveni in Palghat and Thaichung in Wynad. Triveni and Jyothi attained the highest average yield in three districts each while H4 attained the highest average yield in two districts.

The names of high yielding varieties which correspond to the highest average yield in each district together with the highest average yield and the number of experimental plots where the crop was raised during summer 1983 are indicated below:—

District wise HYV with highest average yield—summer 1983

<i>Sl. No.</i>	<i>District</i>	<i>HYV corresponding to the highest district average yield</i>	<i>highest average yield of dry paddy (kg./hect.)</i>	<i>No. of experimental plots where HYV in col. 3 is raised</i>
1.	Trivandrum	Sabari	2291	1
2.	Quilon	Bharathy	3749	5
3.	Alleppey	Bharathy	4710	1
4.	Kottayam	Bharathy	6241	7
5.	Ernakulam	Jaya	2923	1
6.	Trichur	Jyothi	3334	17
7.	Palghat	Mashoori	3645	16
8.	Malappuram	Mashoori	4750	2
9.	Kozhikode	H4	2444	1
10.	Wynad	IR 8	4154	7
11.	Cannanore	Jaya	3280	14

The highest district average yield was from Bharathy in Kottayam district followed by Mashoori in Malappuram district and Bharathy in Alleppey district. Bharathy recorded the highest district average in three districts while jaya and mashoori recorded the highest average yield in two districts only.

13. Cultivation practices

It was found that about 11% in autumn, 49% in winter and 90% in summer of the experimental plots covered by the survey received irrigation. The corresponding figures during the previous year were 9.43 and 82 respectively. All the irrigated plots were applied with chemical fertilizers in autumn 1982. During winter and summer chemical fertilizers were applied only in 89% and 87% of the irrigated plots. About 9% and 11% of the irrigated plots respectively were applied with other manures like farmyard manure, green manure, cowdung etc., during winter and summer 1983.

As far as unirrigated plots are concerned, 72% of the plots were found to have been applied with chemical fertilizers and 18% with other types of manures during autumn 1982. These percentages were 73 and 21 for winter and 96 and 3 for summer 1983.

It was reported that crops in 44% of the experimental plots during autumn 1982, 43% during winter 1983 and 63% in summer 83 were treated with insecticides and pesticides.

In the case of experimental plots where High Yielding Varieties were raised, it was found that only 20% of them received irrigation during autumn 1982 while the corresponding percentages during winter 1983 and summer 1983 were 62 and 95 respectively. Chemical fertilizers were found to have been applied in all the irrigated plots with High Yielding Varieties during autumn, while about 96% and 92% of the irrigated plots with High Yielding Varieties respectively have been applied with chemical fertilizers during winter and summer 1982-83. Insecticides and pesticides were found to have been applied to 44%, 61% and 68% of the experimental plots with High Yielding Varieties during autumn 1982, winter 1983 and summer 1983 respectively.

The estimated average yield of dry paddy per hect. for the high yielding and other varieties under various cultivation practices during autumn, winter and summer 1982-83 are given in tables 4.1, 4.2 and 4.3 in the appendix.

TABLE 1.1

ESTIMATES OF AREA MEAN YIELD, PRODUCTION OF RICE FOR
AUTUMN 1982 (All varieties)

Sl. No.	Taluk and District	No. of Experiments		Area	Mean yield of dry paddy kg./hect.	Stand-ard error	Pro-duction of rice (tonnes)	% stand-ard error
		Planned	Analysed					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1.	Neyyattinkara	30	30	3694	2640	155	6406	..
2.	Trivandrum	30	29	2843	2500	173	4669	..
3.	Nedumangad	30	30	4127	2093	132	5674	..
4.	Chirayinkil	30	30	3917	2497	184	6425	..
	Trivandrum District	120	119	14581	2419	81	23174	3.35
5.	Quilon	30	30	4514	1858	134	5510	..
6.	Kottarakkara	30	30	6403	2883	158	12128	..
7.	Kunnathur	30	30	4545	2659	191	7941	..
8.	Pathanapuram	30	30	3922	3525	146	9083	..
9.	Pathanamthitta	20	20	1372	2820	217	2542	..
10.	Karunagappally	30	29	3679	2643	219	6388	..
	Quilon District	170	169	24435	2715	73	43592	2.67
11.	Karthigappally	30	29	3614	1971	334	4681	..
12.	Mavelikara	30	24	5579	2090	197	7661	..
13.	Chengannur	24	22	3207	2872	129	6051	..
14.	Thiruvalla	24	23	1873	2577	258	3171	..
15.	Kuttanad	30	27	10245	2902	226	19534	..
16.	Ambalapuzha	30	30	3234	630	51	1339	..
17.	Shertallay	30	28	4793	1140	123	3589	..
	Alleppey District	198	183	32545	2153	91	46026	4.23
18.	Changanacherry	20	20	1536	3443	191	3474	..
19.	Kanjirappally	6	6	16	2854	291	30	..
20.	Kottayam	30	28	5859	3361	288	12936	..
21.	Vaikom	30	27	4338	3401	230	9693	..
22.	Meenachil	24	24	2432	2888	216	4615	..

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Kottayam District	110	105	14181	3300	145	30748	4.39
23.	Peermade	..	..	4	3044	0	88	..
24.	Devicolam	12	9	1302	4498	144	3848	..
25.	Udumbanchola	..	..	155	2995	0	305	..
26.	Thodupuzha	24	20	2393	3157	238	4963	..
	Idukki District	36	29	3854	3603	156	9124	4.53
27.	Kothamangalam	30	30	4039	2621	175	6955	..
28.	Muvattupuzha	30	30	4886	3258	173	10459	..
29.	Cochin	20	19	2533	2453	172	4082	..
30.	Kanayannur	30	30	3876	1593	200	4056	..
31.	Kunnathunad	30+10	30+10	11311	2371	172	17618	..
32.	Alwaye	30	30	9870	2620	261	16992	..
33.	Parur	30	30	3538	2248	211	5226	..
	Ernakulam District	200+10	199+10	40053	2485	90	5388	3.62
34.	Cranganore	12	12	1069	1420	224	997	..
35.	Mukundapuram	30+10	29+10	13244	2135	163	18576	..
36.	Trichur	30	29	6326	2359	212	9804	..
37.	Thalappally	30	27	16367	1913	180	20571	..
38.	Chowghat	30	30	3655	1066	144	2561	..
	Trichur District	132+10	127+10	40661	1966	97	52509	4.93
39.	Chittur	30	28	21029	4549	215	62851	..
40.	Alathur	30	30	20169	4150	252	54993	..
41.	Palghat	30+10	28+10	21031	3933	324	54338	..
42.	Ottappalam	30+10	30+10	20561	2079	136	28088	..
43.	Mannarghat	30	30	6648	2035	88	8889	:
	Palghat District	150+20	146+20	89438	3560	112	209159	3.15
44.	Perinthalmanna	30	30	8063	1909	107	10111	..
45.	Ponnani	30	30	3861	2053	147	5207	..
46.	Tirur	30	30	10065	1444	124	9549	..
47.	Ernad	30+10	29+10	14742	1636	153	15850	*

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Malappuram District	120+10	119+10	36731	1687	75	40717	4.45
48.	Kozhikode	30	28	4466	1380	132	4048	..
49.	Quilandy	30	28	3321	1315	124	2869	..
50.	Badagara	24	20	2299	1584	152	2393	..
	Kozhikode District	84	76	10086	1405	79	9310	5.62
51.	Vythiri	..	..	50	1377	0	45	..
52.	Sultan's Battery	..	..	..	..	..	..	..
53.	Mananthavady	..	..	21	1377	..	19	..
	Wynad District	..	..	71	1377	0	64	0
54.	Tellicherry	30	30	5786	1954	203	7428	..
55.	Cannanore	30	30	6533	2191	130	9405	..
56.	Taliparamba	30+10	30+10	8167	1800	104	9660	..
57.	Hosdurg	30	30	6782	2326	179	10364	..
58.	Kasaragode	30+10	30+9	8765	2112	183	12160	..
	Cannanore District	150+20	150+19	30633	2071	78	49017	3.77
	STATE	1550	1491	342669	2571	54	578828	2.10

TABLE 2.1

ESTIMATES OF AREA MEAN YIELD, PRODUCTION OF RICE FOR
WINTER 1983 (All Varieties)

Sl. No.	Taluk and District	No. of experiments		Area	Mean yield of dry paddy kg. (/hect.)	Standard error	Production of rice (tonnes)	% Standard error
		Planned	Analysed					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1.	Neyyattinkara	30	29	3395	2577	128	5748	..
2.	Trivandrum	30	30	2634	1933	184	3345	..
3.	Nedumangad	30	30	3762	2534	131	6263	..
4.	Chirayinkil	30	28	4584	2242	160	6752	..
	Trivandrum District	120	117	14375	2341	67	22108	2.86
5.	Quilon	30	30	3788	2224	153	5534	..
6.	Kottarakkara	30	30	5939	2502	278	9764	..
7.	Kunnathur	30	30	4595	2672	224	8067	..
8.	Pathanapuram	30	30	3960	3338	141	8684	..
9.	Pathanamthitta	20	19	1867	2787	177	3419	..
10.	Karunagappally	30	30	4309	2056	189	5820	..
	Quilon District	170	169	24458	2569	93	41288	3.62
11.	Karthigappally	30	30	4746	1582	104	4932	..
12.	Mavelikara	30	28	5569	1975	249	7226	..
13.	Chengannur	24	20	2483	2934	292	4787	..
14.	Thiruvalla	12	12	1139	2522	328	1887	..
15.	Kuttanad	30	29	7129	4619	136	21635	..
16.	Ambalapuzha	30	30	3075	537	63	1085	..
17.	Shertallay	30	30	2660	901	88	1575	..
	Alleppey District	186	179	26801	2449	73	43127	2.98
18.	Changanacherry	12	12	827	4270	186	2320	..
19.	Kanjirappally	6	6	79	2273	173	118	..
20.	Kottayam	24	24	3821	3146	211	7898	..
21.	Vaikom	30	30	6134	3463	309	13958	..
22.	Meenachil	24	24	2400	2761	158	4353	..
	Kottayam District	96	96	13261	3288	158	28647	4.81

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
23.	Peermade	6	6	53	2125	432	74	..
24.	Devicolam	12	12	1295	3772	295	3209	..
25.	Udumbanchola	6	6	1170	3413	416	2624	..
26.	Thodupuzha	24	23	2718	3043	174	5434	..
	Idukki District	48	47	5236	3297	147	11341	4.46
27.	Kothamangalam	30	30	4263	2403	164	6730	..
28.	Muvattupuzha	30	29	6343	2378	135	9909	..
29.	Cochin	..	..	..	..	..	..	..
30.	Kanayannur	30	30	3970	1949	116	5083	..
31.	Kunnathunad	36	36	13296	2439	154	21308	..
32.	Alwaye	30	29	9889	2532	107	16452	..
33.	Parur	30	30	3116	1824	191	3734	..
	Ernakulam District	186	184	40877	2354	65	63216	2.76
34.	Cranganore	20	20	2354	1527	2167	2362	..
35.	Mukundapuram	30	29	15645	1896	167	19490	..
36.	Trichur	30	30	13561	2507	166	22338	..
37.	Thalappally	30	30	14249	2216	117	20745	..
38.	Chowghat	30	29	3907	1343	136	3447	..
	Trichur District	140	138	49716	2094	78	68382	3.72
39.	Chittur	40	30	17641	3322	336	38505	..
40.	Alathur	30	29	19695	3692	175	47776	..
41.	Palghat	36	25	19239	2443	374	30883	..
42.	Ottappalam	30	30	18171	2036	168	24310	..
43.	Mannarghat	30	26	6298	2466	88	10205	..
	Palghat District	166	140	81044	2849	139	151679	4.88
44.	Perinthalmanna	30	30	6531	2310	67	9913	..
45.	Ponnani	30	26	4631	1899	147	5778	..
46.	Tirur	30	26	11197	1820	136	13389	..
47.	Ernad	30	29	15091	2136	131	21180	..
	Malappuram District	120	111	37450	2043	74	50260	3.62

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
48.	Kozhikode	30	30	6823	2029	173	9095	..
49.	Quilandy	30	30	4434	1734	114	5050	..
50.	Badagara	24	24	2971	1339	85	2613	..
	Kozhikode District	84	84	14228	1793	92	16758	5.13
51.	Vythiri	30	27	6903	2574	198	11672	..
52.	Sultan's Battery	30	300	8116	2702	208	14405	..
53.	Mananthavady	30	29	9236	2361	146	14329	..
	Wynad District	90	86	24255	2536	106	40406	4.18
54.	Tellicherry	30	30	4389	1786	130	5150	..
55.	Cannanore	24	24	2905	1877	349	3583	..
56.	Taliparamba	30	30	4328	2274	122	6467	..
57.	Hosdurg	30	29	3231	2034	121	4318	..
58.	Kasargode	30	30	5719	2388	120	8974	..
	Cannanore District	144	143	20572	2108	73	28492	3.46
	STATE	1550	1494	352273	2444	38	565704	1.55

TABLE 3.1

ESTIMATES OF AREA MEAN YIELD, PRODUCTION OF RICE FOR
SUMMER 1983 (All varieties)

Sl. No.	Taluk and District	No. of experiments		Area	Mean yield of dry paddy kg./ (hect.)	Standard error	Production of rice (tonnes)	%Standard error
		Planned	Analysed					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1.	Neyyattinkara	12	12	165	1587	541	172	..
2.	Trivandrum	12	9	244	2196	194	352	..
3.	Nedumangad	12	11	11	2214	654	16	..
4.	Chirayinkil	10	10	15	710	477	7	..
	Trivandrum District	46	42	435	1914	233	547	12.17
5.	Quilon	12	12	75	961	260	47	..
6.	Kottarakkara	6	6	84	1450	233	80	..
7.	Kunnathur	6	6	84	895	296	49	..
8.	Pathanapuram	..	..	27	3213	0	57	..
9.	Pathanamthitta	12	11	183	3460	245	416	..
10.	Karunagappally	12	12	255	1893	116	317	..
	Quilon District	48	47	708	2077	92	966	4.43
11.	Karthigappally	30	29	2993	3242	292	6375	..
12.	Mavelikara	24	21	2496	3466	302	5684	..
13.	Chengannur	20	20	850	3737	640	2087	..
14.	Thiruvalla	24	24	2922	4213	316	8088	..
15.	Kuttanad	30	28	14305	3856	189	36241	..
16.	Ambalapuzha	12	11	950	3429	275	2140	..
17.	Shertallay	..	..	..	..	..	..	..
	Alleppey District	140	133	24516	3763	126	60615	3.35
18.	Changanacherry	30	30	2954	5725	176	11111	..
19.	Kanjirappally	..	..	..	..	..	..	..
20.	Kottayam	30	30	3939	4805	402	12434	..
21.	Vaikom	6	6	60	2506	348	99	..
22.	Meenachil	6	6	201	3825	108	505	..

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Kottayam District	72	72	7154	5138	233	24149	4.53
23.	Peermade	..	..	..	..	..	..	..
24.	Devicolam	..	..	53	1558	..	54	..
25.	Udumbanchola	..	..	72	1530	..	72	..
26.	Thodupuzha	..	..	34	1530	..	34	..
	Idukky District	..	..	159	1532	..	160	..
27.	Kothamangalam	20	20	306	1567	190	315	..
28.	Muvattupuzha	24	24	895	2199	180	1293	..
29.	Cochin	..	..	..	..	..	..	..
30.	Kanayannur	20	20	162	556	70	59	..
31.	Kunnathunad	30	30	5346	1675	185	5884	..
32.	Alwaye	20	20	6653	2700	160	11802	..
33.	Parur	20	20	1718	1649	216	1861	..
	Ernakulam District	134	134	15080	2141	100	21214	4.67
34.	Cranganore	10	10	77	2352	408	119	..
35.	Mukundapuram	30	30	5142	2321	211	7842	..
36.	Trichur	30	26	8865	2622	286	15269	..
37.	Thalappally	24	23	1632	2181	268	2339	..
38.	Chowghat	20	20	1618	2759	320	2933	..
	Trichur District	114	109	17334	2503	164	28502	6.55
39.	Chittur	24	20	871	3298	275	1887	..
40.	Alathur	..	..	67	1593	0	70	..
41.	Palghat	12	12	180	1640	1321	194	..
42.	Ottappalam	12	12	639	2556	456	1073	..
43.	Mannarghat	20	20	919	1903	192	1149	..
	Palghat District	68	64	2676	2487	179	4373	7.19
44.	Perinthalmanna	20	19	710	1972	394	920	..
45.	Ponnani	24	23	1306	3673	196	3152	..
46.	Tirur	24	23	1818	2750	364	3285	..
47.	Ernad	12	10	487	1219	394	390	..

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Malappuram District	80	75	4321	2729	182	7747	6.67
48.	Kozhikode	20	20	779	1424	173	729	..
49.	Quilandy	30	29	1178	1756	127	1359	..
50.	Badagara	12	12	217	1627	415	232	..
	Kozhikode District	62	61	2174	1624	102	2320	6.28
51.	Vythiri	24	24	806	1518	236	804	..
52.	Sultan's Battery	24	24	2375	2085	293	3253	..
53.	Mananthavady	30	30	2975	1900	240	3714	..
	Wynad District	78	78	6156	1921	165	7771	8.59
54.	Tellicherry	24	24	361	991	119	235	..
55.	Cannanore	24	24	56	1032	82	39	..
56.	Taliparamba	24	24	226	1852	206	275	..
57.	Hosdurg	30	30	931	1534	260	938	..
58.	Kasargode	30	30	1261	2190	143	1814	..
	Cannanore District	132	132	2835	1772	109	3301	6.15
	STATE	974	947	83548	2945	102	161665	3.46

TABLE 1.2

ESTIMATES OF MEAN YIELD OF DRY PADDY (KG./HECT.) DURING
AUTUMN SEASON FROM 1977 TO 1982

Sl. No.	Taluk and District	1977	1978	1979	1980	1981	1982
1.	Neyyattinkara	2622	2759	2594	2172	2312	2640
2.	Trivandrum	2320	2466	2409	2385	2075	2500
3.	Nedumangad	1614	2042	1938	2150	2123	2093
4.	Chirayinkil	1960	2668	2839	2318	2005	2497
	Trivandrum District	2112	2481	2269	2248	2129	2419
5.	Quilon	1343	2206	2742	1982	1680	1858
6.	Kottarakkara	2256	2835	2367	2496	2844	2883
7.	Kunnathur	1948	2100	2478	2062	2743	2659
8.	Pathanapuram	2879	2627	2436	2960	2888	3525
9.	Pathanamthitta	2458	2765	3032	3029	2600	2820
10.	Karunagappally	1444	2033	1546	2792	1612	2643
	Quilon District	2051	2424	2224	2506	2423	2715
11.	Karthigappally	1894	1735	2634	2414	2236	1971
12.	Mavelikara	1553	2012	2205	2261	1669	2090
13.	Chengannur	2243	2434	2591	2640	1903	2872
14.	Thiruvalla	2158	1625	1805	1695	1817	2577
15.	Kuttanad	3330	2136	3838	4199	3543	2902
16.	Ambalapuzha	1116	1221	400	699	1988	630
17.	Shertallay	690	1627	806	1010	1695	1140
	Alleppey District	2049	1954	2481	2589	2403	2153
18.	Changanacherry	2572	2348	2591	2103	2108	3443
19.	Kanjirappally	2726	2701	4001	3643	3475	2854
20.	Kottayam	2312	2913	3137	2447	3421	3361
21.	Vaikom	1939	2605	2293	3042	3075	3401
22.	Meenachil	2729	2573	2864	2794	2205	2888
	Kottayam District	2286	2678	2808	2630	2967	3300
23.	Peermade	2285	..	..	2304	2664	304+

<i>Sl. No.</i>	<i>Taluk and District</i>	1977	1978	1979	1980	1981	1982
24.	Devicolam	2284	2791	3434	2389	2916	4498
25.	Udumbanchola	2285	2588	3434	2304	2828	2995
26.	Thodupuzha	2286	2588	2811	2276	2532	3157
	Idukki District	2285	2599	2899	2304	2649	3603
27.	Kothamangalam	2318	2189	2348	2218	2308	2621
28.	Muvattupuzha	2838	2434	2696	2738	2319	3258
29.	Cochin	2972	2397	1830	1676	2262	2453
30.	Kanayannur	1668	1882	1883	1863	1553	1593
31.	Kunnathunad	2147	2476	2139	1946	2089	2371
32.	Alwaye	2576	2673	2307	2039	2148	2620
33.	Parur	1671	2796	1899	2288	2041	2248
	Ernakulam District	2312	2437	2204	2107	2169	2485
34.	Cranganore	959	678	597	826	825	1420
35.	Mukundapuram	1446	1907	1924	1613	1356	2135
36.	Trichur	1878	2205	1804	1673	1992	2359
37.	Thalappally	1683	2007	1956	2220	2000	1913
38.	Chowghat	832	1040	1604	1880	1517	1066
	Trichur District	1526	1903	1860	1855	1719	1966
	Chittur	4726	3893	4246	3922	4572	4549
40.	Alathur	3552	3585	4036	3426	3841	4150
41.	Palghat	3856	3779	3971	3749	3503	3933
42.	Ottappalam	2120	2046	2152	2069	2135	2079
43.	Mannarghat	2111	2508	2348	2447	2157	2035
	Palghat District	3435	3235	3481	3232	3440	3560
44.	Perinthalmanna	2171	2585	1997	1935	2101	1909
45.	Ponnani	1740	1931	2217	2128	1694	2053
46.	Tirur	2028	1687	1598	1715	1563	1444
47.	Ernad	1818	2159	2295	1941	1871	1636

<i>Sl. No</i>	<i>Taluk and District</i>	1977	1978	1979	1980	1981	1982
	Malappuram District	1939	2103	2041	1898	1820	1687
48.	Kozhikode	1085	1174	1438	1222	1574	1380
49.	Quilandy	1058	1094	1270	1299	1270	1315
50.	Badagara	1565	1145	1167	1465	1157	1584
	S. Wynad	1156	..	1167	1297	1286	..
	Kozhikode District	1156	1142	1329	1297	1378	1405
51.	Vythiri	..	..	..	..	..	1377
52.	Sultan's Battery	..	..	..	..	..	..
53.	Mananthavady	..	..	..	..	..	1377
	N. Wynad	1894	..	1823	1619	1286	..
	Wynad District	..	..	..	..	..	1377
54.	Tellicherry	1695	1549	1823	1619	1887	1954
55.	Cannanore	1944	1981	1737	1768	2179	2191
56.	Taliparamba	1812	1429	2001	1991	1508	1800
57.	Hosdurg	1944	1635	1916	2116	2339	2326
58.	Kasargode	2028	2085	2251	2427	2100	2112
	Cannanore District	1894	1744	1970	2020	1989	2071
	STATE	2300	2391	2481	2413	2442	2571

TABLE 2.2

ESTIMATES OF MEAN YIELD OF DRY PADDY (KG./HECT) DURING WINTER SEASON FROM 1978 TO 1983

Sl. No.	Taluk and District	1978	1979	1980	1981	1982	1983
1.	Neyyattinkara	2052	1981	1816	2162	2148	2577
2.	Trivandrum	2044	2257	1804	1941	2156	1933
3.	Nedumangad	2027	2238	2207	2078	2568	2534
4.	Chirayinkil	2524	2569	2552	2208	2433	2242
	Trivandrum District	2167	2266	2115	2111	2433	2341
5.	Quilon	2288	2509	2649	2098	1965	2224
6.	Kottarakkara	2482	2859	3419	2888	3079	2502
7.	Kunnathur	2369	2289	2633	2456	3043	2672
8.	Pathanapuram	2924	2678	2998	2976	3141	3338
9.	Pathanamthitta	2485	2103	2794	2401	2816	2787
10.	Karunagappally	1570	2302	1775	2229	1562	2056
	Quilon District	2334	2504	2741	2539	2631	2569
11.	Karthigappally	1207	2012	2086	1843	1799	1582
12.	Mavelikkara	2101	1761	2004	2181	1994	1975
13.	Chengannur	2244	1795	2615	3018	3157	2934
14.	Thiruvalla	2839	2951	2576	2483	3196	2522
15.	Kuttanad	3874	3496	3506	3298	4384	4619
16.	Ambalapuzha	1943	732	630	824	2502	537
17.	Shertally	979	808	621	1169	741	901
	Alleppey District	2458	1851	1808	2204	2606	2449
18.	Changanacherry	2670	2583	2123	2525	4037	4270
19.	Kanjirappally	2372	2247	2554	2848	2772	2273
20.	Kottayam	2529	2081	2801	3108	2419	3146
21.	Vaikom	1921	2039	2050	2558	2272	3463
22.	Meenachil	2675	2545	2647	2692	2575	2761
	Kottayam District	2323	2176	2373	2724	2507	3288

<i>Sl. No.</i>	<i>Taluk and District</i>	1978	1979	1980	1981	1982	1983
23.	Peermade	3107	2263	3392	3865	3962	..
24.	Devicolum	3943	2712	3427	3370	2971	..
25.	Udumbanchola	2382	3297	3072	3302	3279	..
26.	Thodupuzha	2428	2681	2772	2265	2612	..
	Idukky District	2803	2837	2974	2791	2868	..
27.	Kothamangalam	2118	2147	2263	2310	2402	..
28.	Muvattupuzha	2215	2575	2541	2775	2735	..
29.	Cochin	..	..	..	..	..	..
30.	Kanayannur	1826	1750	1763	1839	1585	..
31.	Kunnathunad	1962	2258	2335	2132	2413	..
32.	Alwaye	1781	2344	1750	2172	2081	..
33.	Parur	2218	2357	1686	1600	2511	..
	Ernakulam District	1986	2289	2102	2190	2316	..
34.	Cranganore	1213	1470	1142	823	1663	..
35.	Mukundapuram	1742	2048	2064	2117	1859	..
36.	Trichur	2033	2227	2176	1795	2452	..
37.	Thalappally	1992	2179	2143	2245	2390	..
38.	Chowghat	1211	911	1942	1063	2098	..
	Trichur District	1822	2018	2070	1931	2193	..
39.	Chittur	3090	3043	3453	3081	3286	..
40.	Alathur	3476	3163	3061	2959	3883	..
41.	Palghat	3451	3481	3754	3465	2862	..
42.	Ottappalam	2322	2114	2242	2136	2274	..
43.	Mannarghat	2129	2252	2228	3798	2031	..
	Palghat District	2994	2887	3038	2994	3069	..
44.	Perinthalmanna	2286	2135	1998	2158	2372	..
45.	Ponnani	1732	1902	1471	1891	1831	..
46.	Tirur	1879	1595	1565	2070	2019	..
47.	Ernad	1958	2222	2217	2227	2401	..
	Malappuram District	1961	2010	1921	2136	2219	..

<i>Sl. No.</i>	<i>Taluk and District</i>	1978	1979	1980	1981	1982	1983
48.	Kozhikode	1784	1762	1511	1683	1653	..
49.	Quilandy	1163	1490	1062	1383	1585	..
50.	Badagara	1506	1151	1219	1365	1333	..
	S. Wynad	2762	2886	2621	2300	..	..
	Kozhikode District	2083	2208	1931	1901	1563	..
51.	Vythiri	..	..	..	..	2864	..
52.	Sultan's Battery	..	..	..	..	2642	..
53.	Mananthavady	..	..	..	..	2963	..
	Wynad District	..	..	..	..	2324	2556
	North Wynad	2526	1905	2617	2132	..	..
54.	Tellicherry	1718	1643	1688	1927	1446	1786
55.	Cannanore	1653	1194	1710	1783	1839	1877
56.	Taliparamba	1981	1551	2290	1688	1977	2274
57.	Hosdurg	2025	1896	1828	1916	2384	2034
58.	Kasargode	2148	2298	2312	2059	2348	2388
	Cannanore District	2088	2038	2213	1962	2006	2108
	STATE	2295	2333	2359	2357	2518	2444

TABLE 3.2

ESTIMATES OF MEAN YIELD OF DRY PADDY (KG./HECT.)
DURING SUMMER SEASON FROM 1978 TO 1983.

Sl.No.	Taluk and District	1978	1979	1980	1981	1982	1983
1.	Neyyattinkara	874	1184	1636	1428	1872	1587
2.	Trivandrum	458	1565	1422	1552	1319	2196
3.	Nedumangad	894	1186	1048	1074	1770	2214
4.	Chirayinkil	854	945	777	1147	1660	710
	Trivandrum District	791	1251	1296	1305	1695	1914
5.	Quilon	1070	1387	1447	1174	1716	961
6.	Kottarakkara	827	1524	788	1894	1740	1450
7.	Kunnathur	434	1432	736	1360	1944	895
8.	Pathanapuram	683	2087	1214	1011	1331	3213
9.	Pathanamthitta	683	2087	2777	1011	1772	3460
10.	Karunagappally	923	304	1162	750	1711	1893
	Quilon District	896	1035	1505	1078	1751	2077
11.	Karthikappally	4357	4655	3089	3005	4296	3242
12.	Mavelikara	3619	3623	4166	3618	3650	3466
13.	Chengannur	2893	4041	4014	3895	3213	3737
14.	Thiruvalla	4350	3899	3025	3188	4423	4213
15.	Kuttanad	3650	3250	1328	3268	4050	3856
16.	Ambalapuzha	4173	4116	3494	2858	3267	3429
17.	Sherthallay	3662	4031	4014	3284	4003	3763
	Alleppey District	3662	4031	4014	3284	4003	3763
18.	Changanacherry	2930	5140	3800	3420	3372	5725
19.	Kanjirappally	..	..	..	..	..	..
20.	Kottayam	2601	2719	3349	3096	3084	4805
21.	Vaikom	2106	..	2616	2389	2207	2506
22.	Meenachil	3670	..	3078	2388	3144	3825
	Kottayam District	2660	3297	3439	3148	3192	5138

Sl.No.	Taluk and District	1978	1979	1980	1981	1982	1983
23.	Peermade	1315	1806	2215	..	..	..
24.	Devicolam	1315	1806	2215	1536	1558	1558
25.	Udumbanchola	..	..	..	1536	1558	1530
26.	Thodupuzha	1315	..	..	1536	1558	1530
	Idukky District	1315	1806	2215	1536	1557	1532
27.	Kothamangalam	1548	1805	2244	1565	2258	1567
28.	Muvattupuzha	1315	1806	2215	1536	1892	2199
29.	Cochin	..	..	..	..	..	..
30.	Kanayannur	2090	2048	1886	2548	2397	556
31.	Kunnathunad	1881	1809	2092	2198	2429	1675
32.	Alwaye	2421	2003	2708	2103	1966	2700
33.	Parur	2853	2201	2816	2594	2657	1649
	Ernakulam District	2236	1952	2414	2148	2266	2141
34.	Cranganore	2096	1496	1692	2754	893	2352
35.	Mukundapuram	2380	2176	2795	2725	2014	2321
36.	Trichur	2987	2262	2810	2432	2223	2622
37.	Thalappally	2309	2133	2367	3021	2901	2181
38.	Chowghat	2067	2369	3050	2607	3702	2759
	Trichur District	2577	2207	2763	2694	2335	2503
39.	Chittur	2196	2542	3041	2542	2925	3298
40.	Alathur	2337	2327	2827	1852	3611	1593
41.	Palghat	2872	3040	2958	3192	3670	1640
42.	Ottappalam	2450	2014	2302	2243	1826	2556
43.	Mannarghat	1436	1164	2053	2337	2257	1903
	Palghat District	2166	2206	2611	2470	2591	2487
44.	Perinthalmanna	2335	2528	2153	1949	1990	1972
45.	Ponnani	2408	2669	3650	2891	2511	3673
46.	Tirur	2516	3097	2755	2554	2178	2750
47.	Ernad	1582	1611	1880	2024	1938	1219
	Malappuram District	2295	2731	2775	2481	2186	2729

<i>Sl.No.</i>	<i>Taluk and District</i>	1978	1979	1980	1981	1982	1983
48.	Kozhikode	1602	1872	2577	1985	1831	1424
49.	Quilandy	1475	1441	1336	2106	2205	1756
50.	Badagara	1377	2020	1285	1681	2425	1627
	South Wayanad	2057	2522	1557	2252	..	..
	Kozhikode District	1856	2208	1626	2172	1117	1624
51.	Vythiri	..	..	..	..	3058	1518
52.	Sultan's Battery	..	..	..	..	2032	2035
53.	Mananthavady	..	..	..	..	3085	1900
	Wynad District	..	..	..	..	2683	1921
	North Wynad	3292	3395	2712	2507	..	..
54.	Tellicherry	1636	1650	1403	2007	2029	991
55.	Cannanore	1476	1608	1584	2374	1590	1032
56.	Taliparamba	2129	2193	2011	1643	1628	1852
57.	Hosdurg	2211	2962	2334	1835	2121	1534
58.	Kasargode	2243	2666	2608	2382	2515	2190
	Cannanore District	2476	3182	2440	2220	2171	1772
	STATE	2677	2832	2971	2627	2837	2945

TABLE 1.3

ESTIMATED AREA, MEAN YIELD AND PRODUCTION OF HIGH YIELDING VARIETY AND OTHER VARIETIES OF PADDY AUTUMN 1982

District/State	High Yielding Varieties				Other varieties			All varieties	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Area (hect.)	Mean yield (dry paddy kg./hect.)	Production of rice (M.T.)	Area (hect.)	Mean yield (dry paddy kg./hect.)	Production of rice (M.T.)	Area (hect.)	Mean yield (dry paddy kg./hect.)	Production of rice (M.T.)
Trivandrum	1020	2261	1515	13561	2431	21659	14581	2419	23174
Quilon	14870	3159	30859	9695	2026	12733	24435	2715	43592
Alleppey	9509	2155	13465	23036	2151	32561	32545	2153	46026
Kottayam	7839	3391	17463	6342	3188	13285	14181	3300	30748
Idukki	2437	3887	6224	1417	3115	2900	3854	3603	9124
Ernakulam	15750	2760	28556	24303	2307	36832	40053	2485	65888
Trichur	3437	2469	5576	37224	1919	46933	40661	1966	52509
Palghat	48995	4237	136376	40443	2739	72783	89438	3560	209159
Malappuram	3651	2324	5575	33080	1617	35142	36731	1687	40717
Kozhikode	893	1689	991	9193	1377	8319	10086	1405	9310
Wayanad	..	..	..	71	1377	64	71	1377	64
Cananore	4687	2553	7861	31346	1998	41156	36033	2071	49017
State	113088	3425	254461	229581	2150	324367	342669	2571	578828

TABLE 2.3
ESTIMATED AREA, MEAN YIELD AND PRODUCTION OF HIGH YIELDING VARIETY AND
OTHER VARIETIES OF PADDY WINTER 1983

District/State	High Yielding Varieties			Other varieties			All varieties		
	Area (2)	Mean yield (dry paddy kg/hect.) (3)	Production of rice (M.T.) (4)	Area (5)	Mean yield (dry paddy kg./hect.) (6)	Production of rice (M.T.) (7)	Area (8)	Mean yield of dry paddy (kg./hect.) (9)	Production of rice (M.T.) (10)
Trivandrum	238	2130	333	14137	2344	21775	14375	2341	22108
Quilon	1607	2592	2737	22851	2568	38551	24458	2569	41288
Alleppey	2070	3144	4276	24731	2391	38851	26801	2449	43127
Kottayam	7136	3512	16466	6125	3027	12181	13261	3288	28647
Idukki	1631	3665	3927	3605	3130	7414	5296	3297	11341
Ernakulam	1628	2924	3127	39249	2330	60089	40877	2354	63216
Trichur	3850	2601	6579	45866	2051	61803	49716	2094	68382
Palghat	25833	3343	56739	55211	2617	94940	81044	2849	151679
Malappuram	2120	1702	2370	35330	2063	47890	37450	2043	50260
Kozhikode	502	2298	758	13726	1774	16000	14228	1793	16758
Wayanad	1858	3272	3994	22397	2475	36412	24255	2536	40406
Cannanore	3394	2785	6210	17178	1974	22282	20572	2108	28492
State	51867	3155	107516	300406	2322	458188	352273	2444	565704

TABLE 3.3

ESTIMATED AREA, MEAN YIELD AND PRODUCTION OF HIGH YIELDING VARIETIES AND OTHER VARIETIES OF PADDY—SUMMER 1983

District/State	High Yielding Varieties			Other Varieties			All Varieties		
	Area (2)	Mean yield dry paddy (kg/hect.) (3)	Production of Rice (M.T.) (4)	Area (5)	Mean yield dry paddy (kg./hect.) (6)	Production of rice (M.T.) (7)	Area (8)	Mean yield (dry paddy kg./hect.) (9)	Production of rice (M.T.) (10)
Trivandrum	306	2059	414	129	1569	133	435	1914	547
Quilon	262	3073	529	446	1491	437	708	2077	966
Alleppey	8777	3765	21711	15739	3762	38904	24516	3763	60615
Kottayam	3728	5325	13042	3426	4933	11107	7154	5138	24149
Idukki	53	1558	54	106	1530	106	159	1532	160
Ernakulam	1430	1086	1020	13650	2252	20194	15080	2141	21214
Trichur	8992	2917	17231	8342	2056	11271	17334	2503	28502
Palghat	1036	3131	2131	1640	2081	2242	2676	2487	4373
Malappuram	2585	3062	5201	1736	2232	2546	4321	2729	7747
Kozhikode	1217	1895	1515	957	1280	805	2174	1624	2320
Wayanad	2405	2185	3453	3751	1752	4318	6156	1921	7771
Cannanore	649	2566	1094	2186	1537	2207	2833	1772	3301
	31440	3263	67395	52108	2754	94270	83348	2945	161665

TABLE 4.1

DISTRICT-WISE YIELD FOR HIGH YIELDING VARIETY AND OTHER VARIETIES OF PADDY ACCORDING TO CULTURAL PRACTICES—AUTUMN 1982-83

District	Irrigated						Unirrigated					
	Chemically manured			other manured			Not manured			Total		
	No. of experiments	yield	Mean yield	No. of experiments	Mean yield	No. of experiments	Mean yield	No. of experiments	Mean yield	No. of experiments	Mean yield	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Trivandrum	HYV	8	49.75	2179	..	..	..	..	..	8	49.75	2179
	Local	20	154.30	2703	..	..	..	..	..	20	154.30	2703
	Total	28	204.05	2553	..	..	..	..	..	28	204.05	2553
Quilon	HYV	6	65.10	3853	..	..	..	..	..	6	65.10	3853
	Local	2	18.84	3346	..	..	..	..	..	2	18.84	3346
	Total	8	83.94	3727	..	..	..	..	..	8	83.94	3727
Alleppey	HYV	1	2.55	903	..	..	..	..	..	1	2.55	903
	Local	..	..	..	..	..	..	..	..	..	..	..
	Total	1	2.55	903	..	..	..	..	..	1	2.55	903
Kottayam	HYV	4	31.50	2836	..	..	..	..	..	4	31.50	2836
	Local	3	16.80	2023	..	..	..	..	..	3	16.80	2023
	Total	7	48.30	2492	..	..	..	..	..	7	48.30	2492
Idukki	HYV	9	109.57	4088	..	..	..	..	..	7	109.57	4088
	Local	7	86.87	4169	..	..	..	..	..	9	86.87	4169
	Total	16	196.44	4125	..	..	..	..	..	16	196.44	4125
Ernakulam	HYV	40	337.21	2996	..	..	..	..	..	40	331.21	2996
	Local	22	151.50	2452	..	..	..	..	..	22	151.50	2452
	Total	62	488.71	2804	..	..	..	..	..	62	488.71	2804

TABLE 4.1 (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Trichur	HYV	3	21.63	2456	..	..	..	..	..	3	21.63	2456
	Local	7	39.81	1936	..	..	..	..	..	7	39.81	1936
	Total	10	61.44	2092	..	..	..	..	..	10	61.44	2092
Palghat	HYV	17	245.70	5040	..	..	..	..	..	17	245.70	5040
	Local	4	50.57	4412	..	..	..	..	..	4	50.57	4412
	Total	21	296.27	4920	..	..	..	..	..	21	296.27	4920
Malappuram	HYV	1	9.75	3456	..	..	..	..	..	1	9.75	3456
	Local	1	2.65	940	..	..	..	..	..	1	2.65	940
	Total	2	12.40	2196	..	..	..	..	..	2	12.40	2196
Kozhikode	HYV	..	..	..	..	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..	..	..	..
Cannanore	HYV	3	81.45	3816	..	..	..	..	..	3	81.45	3816
	Local	1	6.14	2236	..	..	..	..	..	1	6.14	2236
	Total	4	87.59	3420	..	..	..	..	..	4	87.59	3420
State	HYV	92	904.21	3484	..	..	..	..	..	92	904.21	3484
	Local	67	527.48	2788	..	..	..	..	..	67	527.48	2788
	Total	159	1431.69	3188	..	..	..	..	..	159	1431.69	3188

TABLE 4.1
DISTRICT-WISE YIELD FOR HIGH YIELDING VARIETY AND OTHER VARIETIES OF PADDY
ACCORDING TO CULTURAL PRACTICES AUTUMN 1982-83

District	Unirrigated (Contd.)															
	Chemically manured					Other manured					Not manured					Total
	No. of expen- diture	Yield	Mean yield	No. of expen- diture	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	
(1)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)				
Trivandrum	HYV	15	113.46	2650	..	..	..	..	..	..	..	..	15	113.46	2650
	Local	74	507.02	2401	1	2.35	..	824	..	1	3.60	1261	76	512.97	2364	
	Total	89	620.48	2443	1	2.35	..	824	..	1	3.60	1261	91	625.43	2412	
Quilon	HYV	112	956.58	3033	6	43.49	..	2576	..	..	..	..	118	1000.07	3010
	Local	35	213.29	2164	8	38.10	..	1692	..	..	..	..	43	251.39	2077
	Total	147	1169.87	2827	14	81.59	..	2070	..	..	..	..	161	1251.46	2752
Alleppey	HYV	50	350.55	2484	1	3.24	..	1148	..	2	8.00	1416	53	361.79	2420	
	Local	102	590.09	2052	20	56.72	..	1008	..	7	33.41	1692	129	680.23	1868	
	Total	152	940.64	2192	21	59.96	..	1012	..	9	41.41	1632	182	1042.02	2032	
Kottayam	HYV	60	542.82	3268	..	..	..	..	..	..	..	..	60	542.82	3268
	Local	38	330.64	3144	..	..	..	..	..	..	..	..	38	330.64	3144
	Total	98	873.46	3220	..	..	..	..	..	..	..	..	98	873.46	3220
Idukki	HYV	6	64.25	3598	..	..	..	..	..	..	..	..	6	64.25	3598
	Local	7	62.44	2997	..	..	..	..	..	..	..	..	7	62.44	2997
	Total	13	126.69	3276	..	..	..	..	..	..	..	..	13	126.69	3276
Ernakulam	HYV	39	283.38	2584	..	..	..	..	..	..	..	..	39	283.38	2584
	Local	55	410.82	2656	3	21.21	..	2514	..	50	243.19	1728	108	675.22	2224	
	Total	94	694.20	2628	3	21.21	..	2514	..	50	243.19	1728	147	958.60	2320	

TABLE 4.1 (Contd.)

Unirrigated (Contd.)

(1)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
Trichur	HYV	21	154.06	2500	12	63.70	1808	..	..	33	217.76	2248
	Local	43	293.37	2320	29	116.48	1368	..	74.57	94	484.42	1752
	Total	64	447.43	2380	41	180.18	1496	22	74.57	127	702.18	1884
Palghat	HYV	48	517.48	3760	4	27.70	2416	..	..	52	545.18	3656
	Local	73	566.96	2712	9	64.77	2512	..	66.76	93	698.49	2620
	Total	121	1084.44	3124	13	92.47	2480	11	66.76	145	1243.67	2992
Malappuram	HYV	20	132.31	2348	5	28.28	2004	..	..	25	160.59	2276
	Local	66	318.92	1712	30	130.76	1544	6	29.50	102	479.18	1664
	Total	86	451.23	1860	35	159.04	1608	6	29.50	127	639.77	1788
Kozhikode	HYV	10	63.27	2286	4	15.44	1364	..	..	14	78.71	1984
	Local	1	9.31	3288	44	179.83	1444	17	52.80	62	241.94	1376
	Total	11	72.58	2332	48	195.27	1436	17	52.80	76	320.65	1492
Cannanore	HYV	31	180.72	2124	5	36.72	2672	5	31.98	41	249.42	2212
	Local	53	300.12	2060	58	312.11	1960	13	62.33	124	674.58	1980
	Total	84	480.84	2084	63	348.83	2012	18	94.33	165	924.00	2044
State	HYV	412	3358.86	2888	37	218.57	2096	7	39.98	456	3617.43	2812
	Local	547	3602.98	2336	202	922.93	1620	127	566.18	876	5091.49	2060
	Total	959	6961.86	2904	239	1140.90	1692	134	606.16	1332	8708.92	2316

TABLE 4.1 (Contd.)
 DISTRICT-WISE YIELD FOR HIGH YIELDING VARIETIES AND OTHER VARIETIES OF PADDY
 ACCORDING TO CULTURAL PRACTICES—AUTUMN 1982-83

District	Treated with pesticides			Not treated with pesticides		
	No. of Experiments	Yield	Mean yield	No. of Experiments	Yield	Mean yield
(1)	(26)	(27)	(28)	(29)	(30)	(31)
Trivandrum	HYV	118.36	2962	9	44.85	1746
	Local	87.55	2045	81	579.72	2508
	Total	205.91	2488	90	624.57	2432
Quilon	HYV	320.19	2843	84	744.98	3152
	Local	41.15	2436	39	229.08	2084
	Total	361.34	2790	123	974.06	2812
Alleppey	HYV	248.93	2672	21	115.41	1948
	Local	245.98	3004	100	434.24	1540
	Total	494.91	2828	121	549.65	1608
Kottayam	HYV	427.78	3030	14	146.54	3780
	Local	178.06	2915	18	169.38	3400
	Total	605.84	2998	32	315.92	3564
Idukki	HYV	41.65	2798	10	132.17	4440
	Local	109.33	3061	2	39.98	6716
	Total	150.98	2984	12	172.15	4820
Ernakulam	HYV	390.91	3092	34	229.68	2404
	Local	262.36	2332	90	564.36	2228
	Total	653.27	2736	124	794.04	2276

Unirrigated (Contd.)

TABLE 4.1 (Contd.)
Unirrigated (Contd.)

(1)	(26)	(27)	(28)	(29)	(30)	(31)	
Trichur	HYV	23	150.79	2232	13	88.60	2320
	Local	29	204.76	2404	72	319.47	1512
	Total	52	355.55	2328	85	408.07	1632
Palghat	HYV	9	96.55	3744	60	694.33	4036
	Local	3	28.85	3356	94	720.21	2672
	Total	12	125.40	3644	154	1414.54	3204
Malappuram	HYV	15	91.44	2160	11	78.90	2540
	Local	38	275.40	2568	65	206.43	1128
	Total	53	366.84	2460	76	285.33	1328
Kozhikode	HYV	8	34.64	1732	14	78.71	1804
	Local	8	34.64	1732	54	207.30	1232
	Total	8	34.64	1732	68	286.01	1352
Cannanore	HYV	6	46.60	2828	38	234.27	2244
	Local	10	36.70	1336	115	644.02	2040
	Total	16	83.30	1896	153	878.29	2088
State	HYV	240	1933.20	2856	308	2588.44	2976
	Local	213	1504.78	2504	730	4114.19	2000
	Total	453	3437.98	2688	1038	6702.63	2288

TABLE 4.2
DISTRICT-WISE YIELD FOR HIGH YIELDING AND OTHER VARIETIES OF PADDY ACCORDING
TO CULTURAL PRACTICES—WINTER 1962-83

District	Irrigated												
	Chemically manured						Not manured						Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		(13)
	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	
Trivandrum	HYV	10	44.05	1616	..	..	..	..	..	..	10	44.05	1616
	Local	48	305.30	2332	..	..	..	..	..	..	48	305.30	2332
	Total	58	349.35	2204	..	..	..	..	..	..	58	349.35	2204
Quilon	HYV	14	101.80	2576	1	4.75	1684	..	..	..	15	106.55	2516
	Local	25	237.48	3368	..	..	..	..	..	..	25	237.48	3368
	Total	39	339.28	3084	1	4.75	1684	..	..	..	40	344.03	3048
Alleppey	HYV	13	99.53	2760	..	..	..	..	..	..	13	99.53	2760
	Local	13	110.53	3064	..	..	..	..	..	..	13	110.53	3064
	Total	26	210.06	2912	..	..	..	..	..	..	26	210.06	2912
Kottayam	HYV	18	143.69	2882	1	3.10	1120	..	..	..	19	146.79	2791
	Local	24	197.88	2980	..	..	..	..	..	..	24	197.88	2980
	Total	42	341.57	2937	1	3.10	1120	..	..	..	43	344.67	2897
Idukki	HYV	14	143.70	3685	..	..	..	..	..	..	14	143.70	3685
	Local	23	176.99	2766	1	3.21	1153	..	..	..	24	180.20	2698
	Total	37	320.69	3132	1	3.21	1153	..	..	..	38	323.90	3060
Ernakulam	HYV	3	16.27	1951	..	..	1818	..	..	..	3	16.27	1951
	Local	116	758.82	2354	6	30.30	1818	3	19.60	2352	125	808.72	2329
	Total	119	75.097	2344	6	30.30	1818	3	19.60	2352	128	824.99	2322

TABLE 4.2 (Contd.)
IRRIGATED (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Trichur	HYV	8	56.86	2505	..	24.79	2184	..	..	8	56.86	2506
	Local	61	369.30	2133	4	24.79	2184	3	14.27	68	408.36	2116
	Total	69	426.16	2177	4	24.79	2184	3	14.27	76	465.22	2157
Palghat	HYV	39	365.69	3392	..	47.60	2459	..	..	39	365.69	3392
	Local	65	513.01	2853	7	47.60	2459	..	..	72	560.61	2817
	Total	104	878.70	3056	7	47.60	2459	..	..	111	926.30	3019
Malappuram	HYV	7	36.20	1894	..	60.98	2235	..	7.15	7	36.20	1894
	Local	29	170.93	2158	10	60.98	2235	2	7.15	41	239.06	2136
	Total	36	207.13	2107	10	60.98	2233	2	7.15	48	275.26	2099
Kozhikode	HYV	4	21.06	1897	..	14.23	2563	..	4.61	4	21.06	1897
	Local	5	30.80	2218	2	14.23	2563	1	4.61	8	49.64	2236
	Total	9	51.86	2074	2	14.23	2563	1	4.61	12	70.70	2121
Wayanad	HYV	4	42.71	4092	2	12.18	2334	..	..	6	54.89	3506
	Local	10	70.19	2690	8	47.49	2276	5	20.41	23	138.09	2300
	Total	14	112.90	3089	10	59.67	2288	5	20.41	29	192.98	2548
Cannanore	HYV	29	232.29	3004	2	10.60	1988	1	2.45	32	245.34	2876
	Local	63	370.65	2208	23	118.69	1936	1	2.25	87	491.59	2120
	Total	92	602.94	2456	25	129.29	1940	2	4.70	119	736.93	2324
Total	HYV	163	1303.85	2900	6	30.63	1852	1	2.45	170	1336.93	2848
	Local	482	3311.88	2488	61	347.29	2064	15	68.29	558	3727.46	2420
	Total	645	4615.73	2596	67	377.92	2044	16	70.74	728	5064.39	2524

TABLE 4.2. [Contd.]
 DISTRICT-WISE YIELD FOR HIGH YIELDING AND OTHER VARIETIES OF PADDY
 ACCORDING TO CULTURAL PRACTICES WINTER 1982-83

District	Unirrigated												Total
	Chemically manured						Not manured						
	other manured		other manured		other manured		other manured		other manured		other manured		
(1)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	
	No. of experiments	mean yield	No. of experiments	mean yield	No. of experiments	mean yield	No. of experiments	mean yield	No. of experiments	mean yield	No. of experiments	mean yield	
Trivandrum	HYV	3	23.78	2904	2	5.70	1044	..	..	..	3	23.78
	Local	54	341.32	2316	2	5.70	1044	..	..	..	56	347.02
	Total	57	365.10	2348	2	5.70	1044	..	..	..	59	370.80
Quilon	HYV	27	178.24	2340	2	19.90	3528	..	..	..	29	198.14
	Local	93	633.31	2412	7	31.37	1588	..	..	..	100	664.68
	Total	120	811.55	2396	9	51.27	2020	..	..	..	129	862.82
Alleppey	HYV	4	31.69	2856	18	52.70	3092	27	51.85	692	4	31.69	
	Local	104	669.35	2320	18	52.70	3092	27	51.85	692	149	773.90	
	Total	108	701.04	2340	18	52.70	3092	27	51.85	692	153	805.59	
Kottayam	HYV	33	313.10	3428	..	..	..	..	..	..	33	313.10
	Local	20	162.91	2942	..	..	..	..	..	..	20	162.91
	Total	53	476.01	3244	..	..	..	..	..	..	53	476.01
Idukki	HYV	3	22.05	2460	1	11.10	3987	4	32.12	2884	3	22.05	
	Local	1	13.80	4957	1	11.10	3987	4	32.12	2884	6	57.02	
	Total	4	35.85	3218	1	11.10	3987	4	32.12	2884	9	79.07	
Ernakulam	HYV	3	32.94	3953	7	37.53	1930	..	..	..	3	32.94
	Local	46	262.53	2056	7	37.53	1930	..	..	..	53	300.06
	Total	49	295.47	2170	7	37.53	1930	..	..	..	56	333.00

TABLE 4.2 (Contd.)
UNIRRIGATED (Contd.)

(1)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
Trichur	HYV	4	30.95	2727	..	..	..	..	..	4	30.95	2727
	Local	26	152.22	2063	32	115.35	1269	..	..	58	267.57	1626
	Total	30	183.17	2152	32	115.35	1269	..	..	62	298.52	1695
Palghat	HYV	1	6.16	2227	..	..	..	..	..	1	6.16	2227
	Local	20	112.90	2043	8	49.32	2231	..	..	28	162.22	2094
	Total	21	119.06	2050	8	49.32	2231	..	..	29	168.38	2101
Malappuram	HYV	3	17.54	2143	2	3.08	1129	..	..	5	20.62	1510
	Local	40	218.85	2005	17	94.88	2045	1	4.20	58	317.93	2008
	Total	43	236.39	2015	19	97.96	1891	1	4.20	63	338.55	2345
Kozhikode	HYV	5	28.84	2077	2	12.85	2315	..	..	7	41.69	2146
	Local	29	121.44	1508	30	140.74	1688	6	33.82	65	296.00	1638
	Total	34	150.28	1591	32	153.59	1728	6	33.82	72	337.69	1688
Wayanad	HYV	6	47.17	3012	2	14.50	2780	..	..	8	61.67	2956
	Local	19	144.44	2912	20	124.61	2388	10	54.76	49	323.81	2532
	Total	25	191.61	2936	22	139.11	2420	10	54.76	57	385.48	2592
Cannanore	HYV	5	43.95	3300	..	..	..	..	..	5	43.95	3300
	Local	8	52.08	2444	9	56.62	2360	2	8.45	19	117.15	2316
	Total	13	96.03	2772	9	56.62	2360	2	8.45	24	161.10	2516
State	HYV	97	776.41	2900	8	50.33	2280	..	..	105	826.74	2852
	Local	460	2885.15	2272	151	719.92	1728	50	185.20	661	3790.27	2076
	Total	557	3661.56	2380	159	770.25	1756	50	185.20	766	4617.01	2184

TABLE 4.2 (Contd.)

UNIRRIGATED (Contd.)

District	Treated with pesticides/insecticides			Not treated with pesticides/insecticides		
	No. of Experiments (26)	Yield (27)	Mean yield (28)	No. of Experiments (29)	Yield (30)	Mean yield (31)
(1)						
Trivandrum	HVV	57.98	2360	4	9.85	900
	Local	232.24	2072	63	420.08	2444
	Total	290.22	2124	67	429.92	2352
Quilon	HVV	165.19	2928	24	139.50	2060
	Local	227.48	2520	93	674.68	2568
	Total	392.67	2676	117	814.18	2468
Alleppey	HVV	101.90	2624	3	29.32	3520
	Local	324.25	4172	134	560.18	1508
	Total	426.15	3660	137	589.50	1548
Kottayam	HVV	343.42	3101	12	116.47	3497
	Local	340.39	2998	3	20.40	2456
	Total	683.81	3049	15	136.87	3284
Idukki	HVV	55.72	3337	11	110.03	3592
	Local	160.70	3039	11	76.52	2499
	Total	216.42	3111	22	186.55	3046
Ernakulam	HVV	12.75	2295	4	36.46	3281
	Local	694.10	2335	71	414.68	2103
	Total	706.85	2335	75	451.14	2165

TABLE 4.2 (Contd.)
UNIRRIGATED (Contd.)

(1)	(26)	(27)	(28)	(29)	(30)	(31)
Trichur	HVV	67.46	2643	3	20.35	2389
	Local	361.08	1988	62	314.85	1790
	Total	428.54	2069	65	335.20	1818
Palghat	HVV	178.20	3580	22	193.65	3183
	Local	147.70	2969	32	575.13	2336
	Total	325.90	3272	104	768.78	2672
Malappuram	HVV	38.50	2015	5	18.32	1341
	Local	250.85	2242	58	306.14	1934
	Total	289.35	2209	63	325.46	1894
Kozhikode	HVV	43.42	1955	3	19.33	2318
	Local	60.52	2421	64	285.12	1606
	Total	103.94	2200	67	304.45	1634
Wayanad	HVV	48.76	2672	7	67.80	3712
	Local	84.58	2496	59	377.32	2432
	Total	133.34	2556	66	445.12	2584
Cannanore	HVV	209.62	2912	10	79.67	2988
	Local	345.87	2128	45	262.87	2192
	Total	555.49	2368	55	342.54	2336
State	HVV	1322.92	2872	108	840.75	2820
	Local	3229.76	2468	745	4287.97	2088
	Total	4552.68	2572	853	5128.72	2180

TABLE 4.3 (Contd.)

IRRIGATED (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Palghat	HYV	32	259.78	2932	4	23.82	2152	..	..	36	283.60	2848
	Local	19	102.64	1952	9	58.80	2860	..	..	38	161.44	2084
	Total	51	362.42	2518	13	82.62	2296	..	..	64	445.04	2512
Malappuram	HYV	49	439.74	3264	2	13.20	2404	..	..	51	452.94	3232
	Local	22	126.06	2084	2	6.05	1104	..	..	24	132.11	2004
	Total	71	565.80	2900	4	16.25	1972	..	..	75	585.05	2640
Kozhikode	HYV	26	148.97	2076	3	12.75	1540	2	5.95	1080	167.67	1960
	Local	18	57.61	1160	6	18.79	1132	1	8.00	2896	84.40	1224
	Total	44	206.58	1700	9	31.54	1268	3	13.95	1684	252.07	1628
Wayanad	HYV	36	231.12	2416	3	31.27	3924	8	35.82	1688	298.21	2388
	Local	15	77.87	1952	11	35.25	1204	3	7.00	876	29.12	1560
	Total	51	308.99	2280	14	66.52	1788	11	42.82	1464	76.418.33	2072
Cannanore	HYV	48	299.99	2352	1	6.75	2484	1	2.60	956	309.34	2276
	Local	51	202.63	1496	24	81.16	1244	..	..	75	283.79	1392
	Total	99	502.62	2008	25	87.91	1296	1	2.60	956	125.389.13	1748
Total	HYV	404	3188.87	2888	23	151.12	2404	12	49.37	1504	439.3389.36	2824
	Local	334	1850.38	2028	71	265.87	1368	4	15.00	1352	409.2131.25	1908
	Total	738	5039.25	2500	94	416.99	1640	16	64.37	1420	848.5520.61	2384

TABLE 4.3 (Contd.)

District	UNIRRIGATED															
	Chemically manured					Other manured					Not manured				Total	
	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(23)	(24)	(25)		
Trivandrum	HYV	5.07	1848	..	..	..	..	..	..	..	..	1	5.07	1846
	Local	3.93	1432	..	..	..	..	..	..	..	..	1	3.93	1432
	Total	2	9.00	1640	..	..	..	..	..	..	..	2	9.00	1640
Quilon	HYV	4	28.64	2608	..	..	..	..	..	..	..	4	28.64	2608
	Local	15	39.15	952	..	..	..	..	..	..	..	15	39.15	952
	Total	19	67.79	1300	..	..	..	..	..	..	..	19	67.79	1300
Alleppey	HYV	..	..	..	..	..	..	..	..	..	..	..	..	..
	Local	28	293.37	3856	..	..	..	..	..	..	..	28	293.37	3856
	Total	28	293.37	3856	..	..	..	..	..	..	..	28	293.37	3856
Kottayam	HYV	16	230.99	5440	..	..	..	..	..	..	..	17	244.14	5412
	Local	16	196.75	4636	..	..	..	..	..	..	..	46	196.75	4636
	Total	32	427.74	5036	..	..	..	..	..	..	..	33	440.89	5036
Ernakulam	HYV	3	16.20	1960	..	..	..	..	..	..	..	3	16.20	1960
	Local	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	3	16.20	1960	..	..	..	..	..	..	..	3	16.20	1960
Trichur	HYV	..	..	..	..	..	..	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..	..	..	..	..	..

TABLE 4.3 (Contd.)

UNIRRIGATED (Contd.)

(1)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
Palghat	HYV	..	..	..	..	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..	..	..	..
Malappuram	HYV	..	..	..	..	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..	..	..	..
Kozhikode	HYV	..	3.93	712	3 17.00	2076	..	..	..	..	2093	1516
	Local	2	3.93	712	3 17.00	2076	..	..	..	5	2093	1516
	Total	2	3.93	712	3 17.00	2076	..	..	..	5	2093	1516
Wayanad	HYV	..	7.76	1460	..	..	..	..	..	..	7.76	1460
	Local	2	7.76	1460	..	..	..	..	..	2	7.76	1460
	Total	2	7.76	1460	..	..	..	..	..	2	7.76	1460
Cannanore	HYV	..	9.66	508	..	..	..	..	..	..	9.66	508
	Local	7	9.66	508	..	..	..	..	..	7	9.66	508
	Total	7	9.66	508	..	..	..	..	..	7	9.66	508
State	HYV	24	280.90	4284	..	13.15	4956	25	294.05	4304	865.60	3200
	Local	71	554.53	2860	3 17.00	2076	..	74	581.55	2824	..	..
	Total	95	835.45	3216	3 17.00	2076	1 13.15	4956	99	865.60	3200	..

TABLE 4.3 (Contd.)
UNIRRIGATED (Contd.)

District	Treated with pesticides			Not treated with pesticides		
	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield
(1)	(26)	(27)	(28)	(29)	(30)	(31)
Trivandrum	HYV	68.97	1936	12	23.36	712
	Local	62.48	2072	6	23.73	1444
	Total	131.45	2000	18	47.09	956
Quilon	HYV	85.64	3116	4	28.64	2608
	Local	75.48	1524	15	39.15	952
	Total	161.12	2092	19	67.79	1300
Alleppey	HYV	801.76	3736	1	7.60	2796
	Local	506.58	3520	..	..	..
	Total	1308.34	3648	1	7.60	2796
Kottayam	HYV	470.21	4544	1	13.15	4956
	Local	196.06	3888	13	231.68	6716
	Total	666.27	4328	14	244.83	6592
Ernakulam	HYV	132.87	2192	13	29.63	828
	Local	309.97	2164	47	188.87	1460
	Total	442.84	2172	60	218.52	1324
Trichur	HYV	326.27	3024	16	117.82	2660
	Local	249.57	2204	13	64.73	1800
	Total	575.84	2604	29	182.55	2276

TABLE 4.3 (Contd.)
UNIRRIGATED (Contd.)

(1)	(26)	(27)	(28)	(29)	(30)	(31)
Palghat	HYV	168.57	2768	14	115.23	2972
	Local	50.39	2024	19	110.85	2104
	Total	218.96	2552	33	226.08	2476
Malappuram	HYV	393.83	3416	9	59.12	2392
	Local	125.70	2288	4	6.40	580
	Total	519.53	3052	13	65.52	1836
Kozhikode	HYV	129.26	2128	9	38.88	1544
	Local	59.80	1444	15	45.56	1100
	Total	189.06	1848	24	83.94	1268
Wayanad	HYV	66.10	2764	38	232.10	2300
	Local	25.09	2360	27	102.80	1436
	Total	91.19	2640	65	334.90	1940
Cannanore	HYV	166.55	3064	30	140.78	1724
	Local	95.68	1100	50	199.78	1472
	Total	262.23	1856	80	340.56	1568
State	HYV	2810.02	3244	147	805.83	2004
	Local	1759.80	2344	208	1010.55	1780
	Total	4569.82	2824	355	1816.38	1872

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Errata

Page	Col.	Line	Printed as	Read as	Page	Col.	Line	Printed as	Read as
23	last	1	omission	2125	23	last	21	"	3692
"	"	2	"	3772			22	"	2443
		3	"	3413			23	"	2036
		4	"	3043			24	"	2466
		5	"	3297			25	"	2849
		6	"	2403			26	"	2310
		7	"	2378			27	"	1899
		8	"	---			28	"	1820
		9	"	1949			29	"	2136
		10	"	2439			30	"	2043
		11	"	2532	24	last	1	"	2029
		12	"	1824	"	"	2	"	1734
		13	"	2354			3	"	1339
		14	"	1527			4	"	---
		15	"	1896			5	"	1793
		16	"	2507			6	"	2574
		17	"	2216			8	"	2702
		18	"	1343			8	"	2361
		19	"	2094			9	2556	2536
		20	"	3322					

Note: 1. Column Nos. 3, 6, 9, 12, 15, 18, 21, 24, 27 and 30 in table 4.1, 4.2 and 4.3 are deleted.

2. The unit of mean yield gives in tables 4.1, 4.2 and 4.3 are in Kg./hectare.

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