



GOVERNMENT OF KERALA

REPORT

ON

THE CROP CUTTING SURVEY

ON

**AUTUMN, WINTER AND
SUMMER, CROP OF PADDY 1985-86**

36

DEPARTMENT OF
ECONOMICS AND STATISTICS
TRIVANDRUM

1987

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FORWARD

Crop Estimation Surveys on Paddy are being conducted regularly by the Department of Economics and Statistics since 1950, separately for each season viz. Autumn (Virippu), Winter (Mundakan) and Summer (Puncha). This report gives the result of the crop estimation surveys conducted during the three seasons of 1985-86.

The report was prepared by the Agriculture Statistics Division of the Department of Economics and Statistics.

Suggestions for the improvement of the future publications are welcome.

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Trivandrum,
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REPORT ON THE CROP CUTTING SURVEY ON PADDY—1985-86.

Introduction

The crop estimation surveys on paddy are regularly being conducted by this department for the three crop seasons viz. Autumn (virippu), Winter (Mundakan) and Summer (punja). The present report deals with the results of surveys conducted during the three crop seasons of the year 1985-86.

2. *Objectives of the survey*

The main objectives of the survey were:

- (i) to estimate the average yield of harvested paddy per hectare at the taluk, district and state level for each season;
- (ii) to estimate the average yield of high yielding variety of paddy at the district level;
- (iii) to study the cultivation practices of paddy.

3. *Period of the survey*

The period of the crop cutting survey on Autumn paddy was from August 1985 to October 1985, for winter from December 1985 to February 1986 and for summer from March 1986 to May 1986.

4. *Coverage*

The Survey was designed to cover the whole state except the forest area during all the three seasons of 1985-86.

5. *Sampling Design*

For the conduct of the survey, a stratified multistage random sampling design was adopted. Taluk was treated as the stratum and revenue village selected for the EARAS Survey as the first stage unit. Paddy growing survey sub-division in the village form the 2nd stage unit. In each village list of survey sub-division numbers of wet and dry land plots growing paddy under high yielding irrigated, high yielding un-irrigated, local irrigated and local un-irrigated are prepared separately. In each taluk allocation of the number of experiments to be conducted in each season under each classification is made

roughly in proportion to the area under the crop. From this list, the required number of second stage samples, (survey sub-division numbers) are selected by the simple random sampling method. The selected kandoms one in each selected survey sub-division from the third stage unit and a square plot of side five meters is taken as the ultimate sample unit. Though the number of experiments to be conducted in each season is fixed considering the area of the crop and the availability of Investigators, the total number of experiments to be conducted in a taluk is limited to 30, subject to a minimum of two experiments per village.

Three samples each weighing 250 gms. of harvested 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. For the selection of kandom if the number of kandoms in the slected survey sub-division is more than one, the kandoms are serially numbered anti-clockwise direction from the south-west corner and select one kandom on simple random sampling method to locate a square plot of side 5 meters. The Investigators in the field are attending to this work.

7. *Field work*

The field work of the survey was attended to by the Investigators under the immediate supervision of the Taluk Statistical Inspectors. The District Statistical officers were also made responsible for the proper conduct and supervision of the field work of the survey. The Additional District Statistical officers also conducted supervision of the field work.

The total number of crop cutting experiments planned in the State during Autumn, Winter and Summer 1985-86 were 1554, 1634 and 1190 respectively. The percentage response was 1484 for Autumn, 1583 for Winter and 1079 for summer seasons.

8. *Supervision*

The inspection on the field work of the survey was done at three stages viz. pre-harvest, harvest and post-harvest stages by the Additional Statistical Inspectors, Statistical Inspectors, Additional District Statistical Officers, District Statistical Officers and Deputy Directors. The Officers at the district-level had to conduct harvest stage inspection at the rate of one experiment in each taluk. The Statistical Inspectors/Additional Inspectors had to conduct atleast one harvest stage inspection in each investigator unit, subject to a minimum of six experiments in a taluk. Harvest stage inspections were conducted during Autumn, Winter and Summer seasons of 1985-86 to the extend

of 45%, 40% and 60% respectively of the experiments analysed. The percentage of inspection at the pre-harvest stage during the three seasons were respectively 18, 14 and 26.

9. Analysis

The tabulation and analysis of data collected through the survey were attended to by the Agricultural Statistics Division of the Directorate.

10. Procedure of Estimation

(1) *Mean yield*: The taluk-wise mean yield of dry paddy and its standard error were estimated using the following formula. Taluk-wise mean yield of dry paddy under fourfold classification

$$\bar{X}_p = \sum_{i=1}^K \sum_{j=1}^{n_i} x_{ij} \bigg| \sum_{i=1}^K n_i$$

where n_i = number of experiments conducted in the i th village ($i=1,2,\dots,k$)
 k = number of villages selected in the taluk.

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

$p=1, 2, 3, 4$ and $\bar{X}_1, \bar{X}_2, \bar{X}_3$ and \bar{X}_4 respectively denote the taluk-wise mean yield of dry paddy under HYV irrigated, HYV un-irrigated, local irrigated and local un-irrigated.

Each experiment is taken from a 5 metre square i.e. 1/400th of a hectare. Mean yield of dry paddy in Kg. per hectare = $\bar{X}_p \times 400 \times d$ where d is the driage ratio.

The taluk-wise mean yield of dry paddy (for all varieties together) is obtained as the weighted average of the yield of paddy under each classification the weights being the proportionate area under each classification in the taluk.

(ii) Standard error of taluk mean yield.

Standard error of mean yield per hectare under i th classification for the k th taluk is calculated by using the formula

$$s.e.p = \sqrt{\frac{M.S.S. \times d \times 400}{N}}$$

Where N is the number of experiments conducted in the plots under the p th classification d is the driage ratio

M. S. S.—Mean sum of squares i.e. $\frac{TSS}{N-1}$

$$T. S. S. = \sum xip^2 - \frac{(\sum xip)^2}{N}$$

where xip is the plot yield under pth classification in the ith taluk

$$P=1, 2, 3, 4$$

si1, si2, si3 and si4 are the standard error of the ith taluk mean yield under HYV Irrigated, HYV un-Irrigated, local Irrigated and Local Un-irrigated.

Then Standard Error of the ith taluk mean yield is

$$Si = \sqrt{\frac{\sum_{P=1}^4 (aipsip)^2}{(\sum_{P=1}^4 aip)^2}} = \frac{1}{\sum aip} \sqrt{\sum (aisip)^2}$$

Where aip is the area under paddy in the pth classification of the ith taluk.

(iii) *Standard Error of the district and State Mean yield.*

The formula adopted for the computation of the district mean yield and State mean yield is similar to the one used for the taluk mean yield and is given by

$$SE = \sqrt{\frac{\sum (aisi)^2}{\sum aiai}}$$

ai is the area of the ith taluk and si is the S.E. of the ith taluk mean yield in the case of computation of standard error of district mean yield and ai is the area of the ith district and si, S.E. of the ith district mean yield in the case of computation of standard error of the State mean yield.

To compute the production of rice the area under paddy in each taluk estimated through timely reporting survey have been utilised.

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

11. Results of the survey.

General

The estimated mean yield and production of paddy as well as rice for the different seasons in the year 1984-85 and the previous year 1983-84 are given below:—

Season & year		Estimated mean yield (Kg hect.)	Estimated production of dry paddy (tonnes)	Estimated production of rice (tonnes)
Autumn	1984-85	2623	835657	549027
	1985-86	2514	703184	461992
Winter	1984-85	2514	821703	539859
	1985-86	2559	802102	526981
Summer	1984-85	2993	254262	167050
	1985-86	3290	280180	184078

During the Autumn season of 1985-86 the mean yield of paddy showed a significant decrease from that of 1984-85. Though the mean yields during Winter 1985-86 and Summer 1985-86 were more than those of 1984-85, the difference in the summer season only was significant.

The estimates of area, mean yield and its standard error together with the number of crop cutting experiments analysed seasonwise in each taluk are given in appendix 1-1, 2-1, and 3-1.

It is observed that an yield rate of and over 2500 Kg. of wet paddy per hectare was obtained from 48% of the experimental plots in Autumn 1985 from 52% of the experimental plots in winter 1986 and from 54% of the experimental plots in Summer 1986. During Autumn 1985, about 11% of the experimental plots had yield rate of over 4000 Kg. per hectare while this percentage was 7 and 21 during winter and summer respectively. The lowest yield rate of and below 500 Kg. of wet paddy per hectare was obtained from about 8% of the experimental plots during Autumn 1985, about 3% in winter 1986 and about 7% in summer 1986.

To determine the driage ratio of wet paddy to dry paddy during Autumn winter and summer seasons 1985-86, 170, 186 and 162 driage experiments respectively were conducted. The driage ratio varied from 0.85 in Palghat

district to 0.92 in Kozhikode district during Autumn; from 0.88 in Palghat district to 0.95 in Wayanad district during winter and from 0.89 in Trivandrum district to 0.96 in Wayanad district during summer 1986. The driage ratio for the State was estimated as 0.88 for Autumn 1985, 0.91 for winter and 0.92 for summer.

The taluk-wise and district-wise estimated mean yield of dry paddy relating to Autumn, Winter and Summer 1985-86 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 (Autumn, Winter and Summer) of 1985-86 are furnished in 1.3, 2.3 and 3.3 respectively in the appendix. During Autumn and Summer seasons, High Yielding Varieties were cultivated respectively in 30% and 46% of the total area under paddy while this percentage was only 13% during Winter season.

It is estimated that about 34% and 56% respectively of the total out-turn of rice in the State during Autumn and Summer seasons were from high yielding varieties. The State level productivity of HYV was higher than that of local varieties by 21% in Autumn, 26% in winter and 50% in Summer.

The productivity of HYV was found higher in all the districts except Idukki during Autumn 1985. During Winter 1986, the productivity of HYV was higher than local varieties in all the districts while during summer it was lower in Trivandrum, Pathanamthitta and Idukki districts.

The District-wise yield rate of HYV varied from 1595Kg./hect. in Alleppey district to 3455 Kg./hect. in Autumn 86 in Trivandrum district, from 2443 Kg./hect in Quilon district to 4049 Kg./hect. in Alleppey district during Winter 1986 and from 1305 Kg./hect. in Trivandrum district to 4692 Kg./hect. in Alleppey district, during Summer 1986.

The distribution of experimental plots with high yielding varieties of paddy according to the variety raised in each district during Autumn, Winter and Summer 1986 showed that 36%, 22% and 41% of the experimental plots covered by the survey were grown with HYV of paddy during Autumn, Winter and Summer seasons respectively. The High Yielding Variety of Paddy in the order of cultivators preference were Jyothi, Jaya and Pavizham during Autumn 1985, Jyothi, H4 and Jaya during Winter 1986 and Jyothi, Jaya and Triveni during Summer 1986. It is seen that Jyothi was highly preferred during 1985-86. The highest average yield of 5914/Kg. per hectare during Autumn 1985 was obtained from Santhosh cultivated in Quilon district. This was followed by 4258 Kg./hect. from Pankajam and 3338 Kg./hect. from

culture 3. During Winter 1986, the highest average yield of 4132 Kg./hect. was obtained from Pankajam followed by 3452 Kg./hect. from M05 and Vijaya, while the maximum yield during Summer 1986 was 4529 Kg./hect. from Pavizham followed by 4000 Kg./hect. from M05 and 3877 Kg./hect. from Jyothi.

The names of High Yielding Varieties of paddy corresponding to the highest district average together with the highest mean yield and the number of experimental plots where the crop was raised in each district during Autumn 1985 are indicated in the table given below:-

District wise High yielding variety with highest average yield-Autumn 1985

Sl. No.	District	HYV corresponding to the highest district average	Highest average yield of dry paddy (Kg./Hect)	No. of experimental plots where HYV in col. 3 is raised
(1)	(2)	(3)	(4)	(5)
1.	Trivandrum	H4	4029	1
2.	Quilon	Santhosh	5893	1
3.	Pathanamthitta	Culture	2903	1
4.	Alleppey	Annapoorna	4737	1
5.	Kottayam	Jaya	3089	2
6.	Idukki	Jaya	5118	1
7.	Ernakulam	Pankajam	4258	1
8.	Trichur	Jaya	3793	3
9.	Palghat	Masoori	3327	15
10.	Malappuram	Pavizham	3985	1
11.	Kozhikode	Pavizham	3610	1
12.	Wayanad	..	..	..
13.	Cannanore	I.R. 8	3652	9

The highest district average was obtained from Santhosh in Quilon district followed by Jaya in Idukki and Annapoorna in Alleppey districts. Jaya attained the highest average yield in 3 districts and Pavizham in 2 districts.

The names of high yielding varieties of paddy corresponding to the highest district average together with the highest mean yield and the number of experimental plots where the crop was raised in each district during winter 1986 are indicated below:—

District-wise High Yielding Variety with highest average yield—Winter 1986

<i>Sl. No.</i>	<i>District</i>	<i>HYV corresponding to the highest district average</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)	(2)	(3)	(4)	(5)
1	Trivandrum	H4	3276	3
2	Quilon	IR-8	4338	1
3	Pathanamthitta	H4	3577	3
4	Alleppey	Jaya	4425	11
5	Kottayam	MO 5	3933	2
6	Idukki	Jaya	3820	3
7	Ernakulam	Pankajam	3680	3
8	Trichur	Pankajam	4587	1
9	Palghat	Pankajam	5021	1
10	Malappuram	Vijaya	3452	1
11	Kozhikode	Culture 28	4355	1
12	Wayanad	IR-8	3792	1
13	Cannanore	IR-20	3807	4

The highest district average was obtained from Pankajam both in Palghat and Trichur districts followed by Jaya in Alleppey district. Pankajam obtained the highest average yield in three districts while IR. 8, H4 and Jaya attained the highest average in two districts each.

The names of high yielding strains of paddy corresponding to the highest district average together with the highest mean yield and number of experimental plots where the crop was raised in each district during Summer 1986— are furnished in the table given below:

District-wise high yielding variety with highest average yield—Summer 1986

<i>Sl. No.</i>	<i>District</i>	<i>HYV corresponding to the highest district average</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)	(2)	(3)	(4)	(5)
1	Trivandrum	Bharathi	1856	4
2	Quilon	Bharathi	4983	1
3	Pathanamthitta	do.	4343	6
4	Alleppey	Pavizham	5040	7
5	Kottayam	do.	4895	17
6	Idukki	H4	2932	4
7	Ernakulam	IR-8	3519	8
8	Trichur	Jaya	4868	8
9	Palghat	Jyothi	3411	1
10	Malappuram	Jaya	3983	2
11	Kozhikode	Jyothi	3042	10
12	Wayanad	Jaya	3939	13
13	Cannanore	Jyothi	3199	9

Cultural practices

It was found that about 11% in Autumn, 55% in Winter and 79% in Summer of the experimental plots covered by the Survey received irrigation. The corresponding figures during the previous year were 14, 55 and 83 respectively. About 99% of the irrigated plots were applied with chemical fertilisers during Autumn 1985. During Winter and Summer chemical fertilisers applied were 88% and 91% of the irrigated plots respectively. About 1%, 8% and 6% of the irrigated plots were respectively applied with other manures like farm yard manure, green manure, cowdung, etc. during Autumn, Winter and Summer.

As far as the unirrigated plots are concerned 57% of the plots were found to have been applied with chemical fertilizers and 13% with other types of manures during Autumn 1985. These percentages were 75 and 18 for winter and 87 and 9 for summer 1986.

It was reported that crops in 41% of the experimental plots during Autumn 1985, 52% during Winter 1986 and 73% in Summer 1986 were treated with insecticides and pesticides.

In the case of experimental plots where HYV was raised, it was found that only 13% of them received irrigation during Autumn 1985 while the corresponding percentages during Winter and Summer 1986 were 66 and 79 respectively. Chemical fertilizers were found to have been applied in 99% of the irrigated plots with HYV during Autumn while about 94% and 95% of the irrigated plots with HYV have been applied with chemical fertilizers during winter and summer 1986. Insecticides and pesticides were found to have been applied to 56%, 75% and 83% of the experimental plots with HYV during Autumn 1985, Winter 1986 and Summer 1986 respectively.

The estimated average yield of dry paddy per hectare for the HYV and other varieties under various cultivation practices during Autumn, Winter and Summer 1985-86 are given in tables 1.4, 2.4 and 3.4 respectively.

TABLE 1.1

Taluk-wise Estimates of Area Mean Yield Production of Rice-Autumn 1985
(All varieties)

Sl. No.	Taluk and District	No. of Experiments		Area (in hecst)	Mean yield of dry paddy kg./hect.	Standard error	Production (in tonnes)
		Planned	Analysed				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1.	Neyyattinkara	30	27	3256	3430	185	7337
2.	Trivandrum	30	28	2645	3293	133	5722
3.	Nedumangad	30	29	3146	2541	273	5252
4.	Chirayinkil	30	29	3828	3441	127	8654
	Trivandrum District	120	113	12875	3188	94	26965
5.	Quilon	30	28	2975	1884	187	3682
6.	Kottarakkara	35	35	5654	3490	204	12963
7.	Kunnathur	20	..	1370	2172	..	1955
8.	Pathanapuram	30	30	3678	3452	247	8341
9.	Karunagappally	30	30	2990	2078	186	4083
	Quilon District	145	123	16667	2833	100	31024
10.	Kozhencherry	15	15	1082	2663	386	1893
11.	Ranni	8	7	179	2781	223	327
12.	Adoor	20	18	2231	2132	201	3125
13.	Thiruvalla	5	4	1058	1841	323	1280
14.	Mallappally	20	20	540	1756	367	6230
	Pathanamthitta District	68	64	5090	2167	144	7248
15.	Karthigappally	30	21	1142	806	344	605
16.	Mavelikara	20	18	5142	1575	177	5322
17.	Chengannur	24	20	1065	2310	393	1616
18.	Kuttanad	30	27	1364	2525	223	2263
19.	Ambalapuzha	30	29	1246	2143	361	1754
20.	Shertallay	30	30	3572	725	96	1701
	Alleppey District	164	144	13531	1492	93	13261

(1)	(2)	(3)	(4)	(5)	(7)	(8)
21. Changanacherry	20	20	1221	2044	231	1640
22. Kanjirappally	6	5	47	2558	510	79
23. Kottayam	30	30	3184	2178	30	4556
24. Vaikom	30	30	4308	1298	158	3673
25. Meenachil	24	24	1624	2702	244	2883
Kottayam District	110	109	10384	1881	81	12831
26. Peermade	...	...	...	...	...	...
27. Devicolum	12	11	1013	3062	274	2038
28. Udumbanchola	..	..	78	3064	...	157
29. Todupu hza	24	23	2340	3042	221	4677
Idukki District	36	34	3431	3049	231	6872
30. Kothamangalam	35	35	3325	2539	1081	5547
31. Muvattupuzha	30	30	3994	2931	188	7691
32. Cochin	20	20	1598	2199	153	2309
33. Kanayannur	30	30	3679	2128	133	5144
34. Kunnathunad	40	40	10040	2583	82	17038
35. Alwaye	35	35	8638	2939	161	16682
36. Parur	30	30	3146	2391	152	4941
Ernakulam District	220	220	34420	2625	57	59352
37. Cranganore	12	11	582	657	56	251
38. Mukundapuram	35	33	9240	2112	157	12281
39. Trichur	30	30	6809	1787	189	7993
40. Thalappally	30	30	15069	1992	133	19721
41. Chowghat	30	26	662	1600	167	696
Trichur District	137	130	32362	1951	86	41482

(1)	(2)	(3)	(4)	(5)	(6)	(7)
42. Chittur	30	29	21778	3601	268	51528
43. Alathur	30	30	18035	3878	160	45949
44. Palghat	30	30	20343	2956	120	39507
45. Ottappalam	35	35	19156	2146	179	27003
46. Mannarghat	35	34	5645	1810	81	6714
Palghat District	160	158	84957	3058	96	170701
47. Perinthalmanna	36	35	6488	1798	141	7665
48. Ponnani	30	30	2987	2063	163	4049
49. Tirur	30	30	6157	1595	134	6452
50. Ernad	40	40	12949	2072	90	17630
Malappuram District	135	134	28581	1906	61	35796
51. Kozhikode	30	28	2578	1882	196	3188
52. Quilandy	30	28	1808	1110	123	1319
53. Badagara	24	24	1118	2039	208	1498
Kozhikode District	84	80	5504	1661	109	6005
54. Vythiri	..	..	..	..	..	..
55. Sultan's Battery	..	..	7	1377	..	6
56. Mananthavady	..	..	..	..	..	..
Waynad District	..	..	7	1377	..	6
57. Tellicherry	35	35	3850	2401	151	6073
58. Cannanore	30	30	7757	2409	143	12279
59. Taliparamba	35	35	6803	2251	178	10061
60. Hosdurg	40	40	6888	2120	173	9592
61. Kasargode	35	35	6592	2873	161	12444
Cannanore District	175	175	31890	2408	74	50449
State	1554	1484	279699	2514	35	461992

TABLE 2.1

Taluk-wise Estimates of Area Mean Yield and Production of Rice—Winter 1986
(All Varieties)

St. No.	Taluk and District	No. of Experiments		Area (in hectares)	Mean yield of dry paddy (kg./hect.)	Standard error	Production (in tonnes)
		Planned	Analysed				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Neyyattinkara	30	27	3319	2108	59	4596
2.	Trivandrum	30	28	2654	2101	105	3663
3.	Nedumangad	30	29	3227	2323	159	4925
4.	Chirayinkil	30	28	3967	2541	125	6622
	Trivandrum District	120	112	13167	2290	60	19806
5.	Quilon	30	28	3197	2000	48	4201
6.	Kottarakkara	30	30	5577	2893	165	10601
7.	Kunnathur	20	20	1708	2429	170	2726
8.	Pathanapuram	30	30	3658	3140	128	7546
9.	Karunagappally	30	30	3780	1803	122	4477
	Quilon District	140	138	17920	2510	66	29551
10.	Kozhuncherry	16	16	2047	3079	283	4141
11.	Ranni	16	16	368	2415	175	584
12.	Adoor	18	18	3081	3554	349	5170
13.	Thiruvalla	2	2	549	3776	310	1362
14.	Mallappally	18	18	462	3209	206	974
	Pathanamthitta District	70	70	6507	2861	183	12231
15.	Karthigappally	30	29	3613	2627	340	6236
16.	Mavelikara	20	19	5214	1945	172	6663
17.	Chengannur	24	20	2017	3668	167	4861
18.	Kuttanad	30	23	3524	4355	204	10083
19.	Ambalapuzha	30	30	984	1329	216	859
20.	Shertallay	30	30	1723	606	45	686
	Alleppey District	164	151	17075	2620	88	29383

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
21.	Changanacherry	16	16	1574	2608	134	2697
22.	Kanjirappally	16	16	84	2917	222	161
23.	Kottayam	24	23	5205	3211	197	10979
24.	Vaikom	30	30	5775	2081	137	7984
25.	Meeenchil	24	23	2602	3200	129	5470
	Kottayam District	110	108	15240	2717	89	27201
26.	Peermade	16	16	44	2629	84	76
27.	Devicolam	16	16	260	2968	130	507
28.	Udumbanchola	21	21	1899	3451	214	4306
29.	Thodupuzha	24	24	2244	2970	106	4378
	Idukky District	77	77	4447	3172	86	9267
30.	Kothamangalam	35	35	3438	2509	124	5667
31.	Muvattupuzha	30	30	5223	2998	100	10288
32.	Cochin	..	..	..	..	..	..
33.	Kanayannur	30	30	3611	1885	131	4471
34.	Kunnathunad	40	40	11796	2625	112	20341
35.	Alwaye	35	35	8551	2529	124	14207
36.	Parur	30	30	2864	2557	145	4811
	Ernakulam District	200	200	35483	2565	53	59785
37.	Cranganore	20	16	1974	944	15	1224
38.	Mukundapuram	35	32	12954	2906	165	24732
39.	Trichur	30	29	12710	2857	130	23854
40.	Thalappally	30	39	15275	2290	126	22981
41.	Chowghat	30	26	2758	1926	175	3490
	Trichur District	145	133	45671	2542	73	76281

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
42.	Chittur	30	30	17092	3458	247	38835
43.	Alathur	30	30	16370	2730	216	29366
44.	Palghat	30	30	16618	2461	309	26864
45.	Ottappalam	35	35	16715	2352	141	25829
46.	Mannarghat	35	33	7155	2708	194	12728
	Palghat District	160	158	73950	2750	108	133622
47.	Perinthalmanna	30	29	5850	2459	154	9452
48.	Ponnani	30	29	3937	1673	140	4327
49.	Tirur	30	29	9695	1970	130	12548
50.	Ernad	30	28	12607	2542	158	21057
	Malappuram District	120	115	32089	2248	81	47384
51.	Kozhikode	30	30	5168	2090	155	7097
52.	Quilandy	30	26	3871	1810	155	4603
53.	Badagara	24	24	1854	1477	111	1799
	Kozhikode District	84	80	10893	1886	30	13499
54.	Vythiri	30	29	6453	2589	189	10976
55.	Sultan's Battery	30	30	9226	2872	192	17407
56.	Manathavady	30	30	8996	2663	239	15694
	Wynad District	90	89	24648	2722	123	4407
57.	Tellicherry	35	35	2948	2043	143	3947
58.	Cannanore	24	24	2440	1933	137	3098
59.	Tajiparamba	35	35	3800	2820	184	7041
60.	Hosdurg	30	30	3290	2189	141	4731
61.	Kasargode	30	28	3855	2393	155	6062
	Cannanore District	154	152	16333	2319	71	24889
	State	1634	1583	313423	2559	33	526981

TABLE 3.1

Taluk wise Estimates of Area and Mean Yield Production of Rice Summer—1986
(All varieties)

Sl. No.	Taluk and District	No. of Experiments		Area (in hectares)	Mean yield of paddy (kg./hectare)	Standard error	Production in (tonnes)
		Planned	Analyse				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Neyyattinkara	16	13	167	1513	193	166
2.	Trivandrum	16	16	116	2047	276	156
3.	Nedumangad	16	15	14	978	204	9
4.	Chirayinkil	16	16	13	468	188	4
TRIVANDRUM DISTRICT		64	60	310	1645	147	335
5.	Quilon	16	3	98	1444	265	93
6.	Kottarakara	16	10	30	1686	323	33
7.	Kunnathur	16	16	65	2529	194	108
8.	Pathanapuram	..	..	11	2906	..	21
9.	Karunagappally	16	16	3	2450	413	5
QUILON DISTRICT		64	45	207	1912	147	260
10.	Kozhencherry	16	15	221	4332	79	629
11.	Ranni	16	4	121	3259	292	259
12.	Adoor	16	16	25	3531	285	58
13.	Thiruvalla	15	15	2428	4373	215	6976
14.	Mallappally	20	19	106	4509	322	314
PATHANAMTHITTA DISTRICT		84	69	2901	4321	181	8236
15.	Karthigappally	30	29	3330	3640	234	7963
16.	Mavelikara	18	17	2440	4596	88	7368
17.	Chengannur	20	20	1289	4690	191	3972
18.	Kuttanad	30	21	17149	4211	331	47443
19.	Ampalapuzha	16	16	1231	3185	250	2576
20.	Sherthallay	..	..	..	..	..	..
ALLEPPEY DISTRICT		114	103	25439	4148	150	69322

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
21.	Chenganacherry	30	30	2028	4440	187	5916
22.	Kanjirappally	..	--	1	4019	...	3
23.	Kottayam	30	28	4101	4393	239	11836
24.	Vaikom	16	16	77	3301	437	167
25.	Meenachil	16	16	53	4308	261	150
KOTTAYAM DISTRICT		92	90	6260	4394	168	18072
26.	Peermade	..	--	..	..	...	..
27.	Devicolam	16	5	113	1940	208	144
28.	Udumbanchola	16	5	242	3422	738	544
29.	Thodupuzha	16	5	18	1547	432	18
IDUKKI DISTRICT		48	15	373	2881	483	706
30.	Kothamangalam	20	20	563	1952	128	722
31.	Muvattupuzha	24	24	1223	2255	125	1812
32.	Cochin	..	--	..	..	..	..
33.	Kanayannur	20	19	417	2621	170	718
34.	Kunnathunad	30	30	5549	2467	90	8993
35.	Alwaye	30	30	5440	2410	113	8612
36.	Parur	24	24	1709	2460	80	2762
ERNAKULM DISTRICT		148	147	14901	2413	55	23619
37.	Cranganore	16	9	55	3736	174	135
38.	Mukundapuram	30	28	7094	3113	262	14507
39.	Trichur	30	30	7203	2780	190	13156
40.	Thalappally	24	24	1558	3549	348	3633
41.	Chowghat	20	20	1272	3281	213	2742
TRICHUR DISTRICT		120	111	17182	3027	139	34173

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
42.	Chittur	24	16	519	2174	324	741
43.	Alathur	16	16	85	1247	423	68
44.	Palghat	16	16	137	2111	366	190
45.	Ottappalam	16	16	525	2279	339	786
46.	Mannarghat	20	20	684	1940	379	872
PALGHAT DISTRICT		92	84	1948	2076	186	2657
47.	Perinthalmanna	20	20	421	2111	184	584
48.	Ponnani	24	24	1782	3687	232	4317
49.	Tirur	24	24	1864	3254	320	3985
50.	Ernad	16	16	725	2078	284	990
MALAPPURAM DISTRICT		84	84	4792	3137	158	9876
51.	Kozhikode	20	18	807	1763	225	935
52.	Quilandy	30	28	1355	1794	146	1597
53.	Badagara	16	11	191	2853	569	358
KOZHIKODE DISTRICT		66	57	2353	1869	123	2890
54.	Vythiri	24	24	1167	2800	343	2147
55.	Sultan' Battery	24	24	2262	1939	330	2881
56.	Mananthavady	24	24	2683	3227	251	5689
WYNAD DISTRICT		72	72	6112	2669	177	10717
57.	Tellicherry	29	29	475	1182	85	369
58.	Cannanore	24	24	35	1609	251	37
59.	Taliparamba	29	29	160	1779	139	187
60.	Hosdurg	30	30	767	2276	104	1147
61.	Kasargode	30	30	944	2378	109	1475
CANNANORE DISTRICT		142	142	2381	2055	58	3215
STATE		1190	1079	85159	3290	63	184078

TABLE 1.2

Taluk-wise Estimates of Mean yield of dry paddy (kg/hect) during Autumn Season from 1980 to 1985

Sl. No.	Taluk and District	1980	1981	1982	1983	1984	1985
1.	Neyyattinkara	2172	2312	2640	2671	2987	3430
2.	Trivandrum	2385	2075	2500	2214	3084	3293
3.	Nedumangad	2150	2123	2093	2201	2705	2541
4.	Chirayinkil	2318	2005	2497	2255	2516	3441
Trivandrum District		2248	2129	2419	2338	2761	3188
5.	Quilon	1982	1680	1858	1768	2003	1884
6.	Kottarakara	2496	2844	2883	2387	2394	3490
7.	Kunnathur	2062	2743	2659	1681	1716	2172
8.	Pathanapuram	2960	2888	3525	3239	2945	3452
9.	Pathanamthitta	3029	2600	2820	3174		
10.	Karunagappally	2792	1612	2643	2410	1754	2078
Quilon District		2506	2425	2715	2344	2219	2833
11.	Kozhencherry	..	..	..	..	2859	2662
12.	Ranni	..	..	..	..	3224	2781
13.	Adoor	..	..	..	..	3031	2132
14.	Thiruvalla	..	..	..	..	2336	1841
15.	Malappally	..	..	..	..	2464	1756
Pathanamthitta District		..	..	..	..	2801	2167
16.	Karthikappally	2414	2236	1971	2822	1967	806
17.	Mavelikkara	2261	1669	2090	2522	1742	1575
18.	Chengannur	2640	1903	2872	2927	2090	2310
19.	Thiruvalla	1695	1817	2577	2550		
20.	Kuttanad	4199	3543	2902	2238	4297	2525
21.	Ambalapuzha	699	1988	630	3593	1999	2143
22.	Shertallay	1010	1695	1140	1214	1544	725
Alleppey District		2589	2403	2153	2464	2866	1492

Sl.No.	Tabuk and District	1980	1981	1982	1983	1984	1985
23.	Changnacherry	2103	2108	3443	2708	2749	2044
24.	Kanjirappally	3643	3475	2854	3905	2202	2558
25.	Kottayam	2447	3421	3361	3980	3287	2178
26.	Vaikom	3042	3075	3401	3314	3768	1298
27.	Meenachil	2794	2205	2888	2488	2784	2702
Kottayam District		2630	2967	3300	3391	3295	1881
28.	Peerumade	2304	2664	3044	...	..	..
29.	Devicolam	2389	2916	4498	2180	2526	3062
30.	Udumbanchola	2304	2828	2995	...	2516	3064
31.	Thodupuzha	2276	2532	3157	2712	3327	3042
Idukky District		2304	2649	3603	2529	3071	3049
32.	Kothamangalam	2218	2308	2621	2619	2881	2539
33.	Muvattupuzha	2738	2819	3258	2998	2894	2931
34.	Cochin	1676	2262	2453	1844	1755	2199
35.	Kanayannur	1863	1553	1593	2235	1995	2128
36.	Kunnathunad	1946	2089	2371	1885	2517	2583
37.	Alwaye	2039	2148	2620	2404	2892	2939
38.	Parur	2288	2041	2248	1169	2276	2391
Ernakulam District		2107	2169	2485	2172	2573	2625
39.	Cranganore	826	825	1420	905	358	657
40.	Mukundapuram	1613	1356	2135	2174	2002	2112
41.	Trichur	1673	1992	2359	2392	1893	1787
42.	Thalappally	2220	2000	1913	2173	1849	1992
43.	Chowghat	1880	1517	1066	1811	1010	1600
Trichur District		1855	1719	1966	2144	1823	1951

<i>Taluk and District</i>	1980	1981	1982	1983	1984	1985
44. Chittur	3922	4572	4549	3791	4648	3601
45. Alathur	3426	3841	4150	3748	4006	3878
46. Palghat	3749	3503	3933	2956	3474	2956
47. Ottapalam	2069	2135	2079	1989	2137	2146
48. Manarghat	2447	2157	2035	1836	1887	1810
Palghat District	3232	3440	3560	3040	3455	3058
49. Perinthalamanna	1935	2101	1909	1883	2143	1798
50. Ponnani	2128	1694	2053	1912	1841	2063
51. Tirur	1715	1563	1444	1729	1816	1595
52. Ernad	1941	1871	1636	1619	1938	2072
Malappuram District	1898	1820	1687	1726	1945	1906
53. Kozhikode	1222	1574	1380	1490	1329	1882
54. Quilandy	1299	1270	1315	1393	1421	1110
55. Badagara	1465	1157	1584	1242	863	2039
56. South Wayanad	1297	1286	..	..	..	..
Kozhikode District	1297	1378	1405	1406	1259	1661
57. Vythiri	..	..	1377	..	..	..
58. Sultan's Battery	..	..	..	..	1377	1377
59. Mananthody	..	..	1377	..	..	..
Wayanad District	..	..	1377	..	1377	1377
60. North Wayanad	1619	1286	1377	..	..	..
61. Tellicherry	1619	1887	1954	1634	1478	2401
62. Cannanore	1768	2179	2191	1926	1952	2409
63. Taliparamba	1991	1508	1800	2041	1693	2251
64. Hosdurg	2116	2339	2326	2205	1969	2120
65. Kasargode	2427	2100	2112	2213	2376	2873
Cannanore District	2020	1989	2071	2027	1935	2408
State	2413	2442	2571	2417	2623	2514

TABLE 2.2

**Taluk-wise Estimates of Mean Yield of dry paddy (kg./hect.)
during Winter Season from 1981-1986**

<i>Sl. No.</i>	<i>Taluk and District</i>	1981	1982	1983	1984	1985	1986
1.	Neyyattinkara	2162	2148	2577	1861	2451	2108
2.	Trivandrum	1941	2156	1933	1818	2300	2101
3.	Nedumangad	2078	2568	2534	1536	2235	2323
4.	Chirayinkil	2208	2433	2242	2056	2460	2541
	Trivandrum District	2111	2344	2341	1783	2368	2290
5.	Quilon	2098	1965	2224	1917	2482	2000
6.	Kottarakkara	2888	3079	2502	2267	2753	2893
7.	Kunnathur	2456	3043	2672	2030	2610	2429
8.	Pathanapuram	2976	3141	3338	1863	2791	3140
9.	Pathanamthitta	2401	2816	2787	2486	..	..
10.	Karunagappally	2229	1562	2056	2173	2168	1803
	Quilon District	2539	2631	2569	2115	2574	2510
11.	Kozhencherry	..	..	..	..	2797	3079
12.	Ranni	..	..	..	..	1557	2415
13.	Adoor	..	..	..	..	3033	2554
14.	Thiruvalla	..	..	..	..	3972	3776
15.	Mallappally	..	..	..	..	1425	3209
	Pathanamthitta	..	..	..	..	2842	2861
16.	Karthikappally	1843	1799	1582	3561	1522	2627
17.	Mavelikara	2181	1994	1975	1826	1997	1945
18.	Chengannur	3018	3157	2934	2838	2688	3668
19.	Thiruvalla	2483	3196	2522	2725	..	..
20.	Kuttanad	3298	3484	4619	3128	3050	4355
21.	Ambalapuzha	824	2502	537	1841	1310	1329
22.	Shertalloy	1169	741	901	919	867	606
	Alleppey District	2204	2606	2449	2501	2057	2620

<i>Sl. No. Taluk and District</i>	1981	1982	1983	1984	1985	1986
23. Changanacherry	2525	4037	4270	3729	2222	2608
24. Kanjirappally	2848	2771	2273	2650	2616	2917
25. Kottayam	3108	2419	3146	3097	3338	3211
26. Vaikom	2538	2272	3463	2408	2549	2081
27. Meenachil	2692	2575	2761	3045	2760	3200
Kottayam District	2724	2507	3288	2884	2818	2717
28. Peermade	3865	3962	2125	2113	2392	2629
29. Devicolam	3370	2971	3772	2395	3227	2968
30. Udumbanchola	3302	3279	3413	3313	3631	3451
31. Thodupuzha	2265	2612	3043	2552	2796	2970
Idukky District	2791	2868	3297	2775	3160	3172
32. Kothamangalam	2310	2402	2408	2006	2535	2509
33. Muvattupuzha	2775	2735	2378	2617	2847	2998
34. Cochin	..	..	..	..	..	..
35. Kartayannur	1839	1585	1949	2300	2330	1885
36. Kunnathunad	2132	2413	2439	1619	2491	2625
37. Alwaye	2172	2081	2532	2137	2552	2529
38. Parur	1600	2511	1824	1089	2636	2557
Ernakulam District	2190	2316	2354	1973	2554	2565
39. Cranganore	823	1663	1527	833	1330	944
40. Mukundapuram	2117	1859	1896	2406	2346	2906
41. Trichur	1795	2452	2507	2415	2382	2857
42. Thalappally	2245	2390	2216	2261	2381	2290
43. Chowghat	1063	2098	1343	1795	1234	1926
Trichur District	1931	2193	2094	2255	2261	2542

Sl. No.	Taluk and District	1981	1982	1983	1984	1985	1986
44.	Chittur	3081	3286	3322	3877	3581	3458
45.	Alathur	2959	3883	3692	3646	3553	2730
46.	Palghat	3465	2862	2443	3210	2733	2461
47.	Ortappalam	2136	2274	2036	2165	2147	2352
48.	Mannarghat	3798	2031	2466	1968	2250	2708
	Palghat District	2994	3069	2849	3150	2957	2750
49.	Perinthalmanna	2158	2372	2310	2042	2568	2459
50.	Ponnani	1891	1831	1899	1919	1913	1673
51.	Tirur	2070	2019	1820	1913	1772	1970
52.	Ernad	2227	2401	2136	2012	2388	2542
	Malappuram District	2136	2219	2043	1975	2164	2248
53.	Kozhikode	1683	1653	2019	1578	2154	2090
54.	Quilandy	1383	1585	1734	1356	1766	1810
55.	Badagara	1365	1333	1339	1459	1188	1477
56.	South Wynad	2300	..	..	..	..	..
	Kozhikode District	1901	1565	1793	1479	1861	1886
57.	Vythiri	..	2864	2574	3150	2897	2589
58.	Sultan's Battery	..	2642	2702	2865	3231	2872
59.	Mananthody	..	2963	2361	3128	2150	2663
	Wayanad District	..	2824	2536	3068	2758	2722
60.	North Wayanad	2132	-	-	-	..	..
61.	Tellicherry	1927	1446	1786	1495	1647	2043
62.	Cannanore	1783	1839	1877	1347	1754	1933
63.	Taliparamba	1688	1977	2274	2305	2057	2820
64.	Hosdurg	1916	2384	2034	2304	1722	2189
65.	Kasaragode	2059	2348	2388	2274	2191	2393
	Cannanore District	1962	2006	2108	1956	1900	2319
	STATE	2357	2518	2444	2442	2514	2559

TABLE 3.2

Taluk-wise Estimates of Mean Yield of dry paddy (kg./hect.) during Summer Season from 1981 to 1986

Sl. No.	Taluk and District	1981	1982	1983	1984	1985	1986
1.	Neyyattinkara	1423	1872	1587	1900	1863	1513
2.	Trivandrum	1552	1319	2196	1261	1031	2047
3.	Nedumangad	1074	1770	2214	935	1015	978
4.	Chirayinkil	1147	1660	710	1535	870	468
	Trivandrum District	1305	1695	1914	1539	1419	1645
5.	Quilon	1174	1716	961	713	1354	1444
6.	Kottarakara	1894	1740	1450	1034	602	1686
7.	Kunnathur	1360	1944	895	651	2323	2529
8.	Pathanamparam	1011	1331	3213	1034	..	1906
9.	Pathanamthitta	1011	1772	3460	1040	..	..
10.	Karunagappally	750	1711	1893	1361	2985	2450
	Quilon District	1078	1571	2077	906	1547	1912
11.	Kozhencherry	..	..	..	..	1974	4332
12.	Ranni	..	..	..	..	..	3259
13.	Adoor	..	..	..	..	4405	3531
14.	Thiruvalla	..	..	..	..	4487	4373
15.	Mallappally	..	..	..	..	1728	4509
	Pathanamthitta District	..	..	..	..	4391	4321
16.	Karthigappally	3005	4296	3242	3748	4729	3640
17.	Mavelikara	3618	3650	3466	4199	3382	4599
18.	Chengannur	3985	3213	3737	3136	3559	4690
19.	Thiruvalla	3188	4423	4213	4303	..	..
20.	Kuttanad	3268	4050	3856	3581	3280	4211
21.	Ambalapuzha	2858	3267	3429	3794	3072	3185
22.	Sherthallay	..	..	..	..	..	..
	Alleppey District	3284	4003	3763	3759	3502	4148

<i>Sl. No. Taluk and District</i>	1981	1982	1983	1984	1985	1986
23. Changanacherry	3420	3572	5725	3061	3830	4440
24. Kanjirappally	..	..	..	..	4019	4019
25. Kottayam	3096	3084	4805	2716	3787	4393
26. Vaikom	2389	2207	2506	1748	1522	3301
27. Meenachil	2388	3144	3825	3745	3169	4308
Kottayam District	3148	3192	5138	2840	3793	4394
28. Peermade	..	..	..	..	..	..
29. Devicolam	1536	1558	1158	1530	3628	1940
30. Udumbanchola	1536	1558	1530	1534	3115	3422
31. Thodupuzha	1536	1558	1530	1522	4122	1547
Idukky District	1536	1557	1532	1533	3553	2881
32. Kothamangalam	1565	2258	1567	2229	2099	1952
33. Muvattupuzha	1536	1892	2199	2758	2203	2255
34. Cochin	..	..	..	..	..	..
35. Kanayannur	2448	2397	556	2771	2721	2621
36. Kunnathunad	2198	2429	1675	1833	2539	2467
37. Alwaye	2103	1966	2700	2224	2307	2410
38. Parur	2594	2657	1649	2654	2950	2460
Ernakulam District	2148	2266	2141	2184	2456	2413
39. Cranganore	2754	893	2352	1417	2429	3736
40. Mukundapuram	2725	2014	2321	2167	2458	3113
41. Trichur	2432	2223	2622	3138	2605	2780
42. Thalappally	3021	2901	2181	2316	4231	3549
43. Chowghat	2607	3702	2759	2727	2390	3181
Trichur District	2694	2335	2503	2671	2729	3027

<i>Sl. No. Taluk and District</i>	1981	1982	1983	1984	1985	1986
44. Chittur	2542	2925	3298	1889	3266	2174
45. Alathur	1852	3611	1593	1605	2352	1247
46. Palghat	3192	3670	1640	1746	1506	2411
47. Ottappalam	2243	1826	2556	1994	1596	2279
48. Mannarghat	2337	2257	1903	1819	2099	1940
Palghat District	2470	2591	2487	1878	2275	2076
49. Perinthalmanna	1949	1990	1972	4657	1947	2111
50. Ponnani	2891	2511	3673	2447	2888	3687
51. Tirur	2554	2178	2750	2191	2778	3254
52. Ernad	2024	1938	1219	1589	1394	2078
Malappuram District	2431	2186	2729	2467	2557	3137
53. Kozhikode	1985	1831	1424	1180	1961	1763
54. Quilandy	2106	2205	1756	1466	2302	1794
55. Badagara	1681	2425	1627	1373	3788	2853
56. South Wynad	2252					
Ko zhikode District	2172	2117	1624	1355	2319	1869
57. Vayathiri		3058	1518	3390	2486	2800
58. Sultan's Battery		2032	2085	3028	3328	1939
59. Mananthavady		3085	1900	3058	2240	3227
Wayanad District		2683	1921	3099	2704	2669
60. North Wayanad	2507					
61. Tellicherry	2007	2029	991	1363	1738	1182
62. Cannanore	2374	1590	1060	1197	976	1609
63. Taliparamba	1643	1628	1852	1628	2295	1779
64. Hosdurg	1835	2121	1534	2203	2230	2276
65. Kasargode	2382	2515	2190	2345	2252	2378
Cannanore District	2220	2171	1772	2066	2113	2055
STATE	2627	2837	2945	2894	2993	3290

Estimated Area Mean yield and production of High yielding and other varieties of paddy—Autumn 1986

District /State	High yielding varieties				Other varieties				All varieties	
	Area (Hects.)	Mean yield of dry paddy (kg./hect.)	Production of rice in tonnes	Area (Hects.)	Mean yield of dry paddy (kg./hect.)	Production of rice (in tonnes)	Area (Hects.)	Mean yield of dry paddy (kg./hect.)	Mean yield of dry paddy (kg./hect.)	Production of rice (in tonnes)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
Trivandrum	2906	3455	6596	9969	3110	20369	12875	3188	26965	
Quilon	10386	3260	22670	6081	2091	8334	16667	2833	31024	
Pathanamthitta	2654	2228	3885	2436	2101	3363	5050	2167	7248	
Allerpey	4155	1595	4355	9376	1446	8906	13531	1492	13261	
Kottayan	6029	2202	8721	4355	1436	4110	10384	1881	12831	
Idukki	535	2842	999	2896	3087	5873	3431	3049	6872	
Ernakulam	13160	2702	23360	21260	2577	35992	84420	2625	59352	
Trichur	5627	2357	8713	26735	1866	32769	32362	1951	31482	
Palghat	26221	3273	56378	58736	2963	114323	84957	3058	170701	
Malappuram	3558	2438	5698	25023	1831	30098	28581	1906	35796	
Wayanad	..	..	..	7	1377	6	7	1377	45
Kozhikode	912	2503	1500	4592	1493	4505	5504	1661	6005	
Cannanore	7439	2936	14350	24451	2247	36099	31890	2408	50449	
STATE	83782	2856	157225	195917	2368	304767	279699	2514	461992	

TABLE 2.9

Estimated Area Mean yield and production of High yielding and other varieties of paddy — Winter 1986

District /State	High yielding varieties				Other varieties						All varieties	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
	Area (Hects.)	Mean yield of dry paddy (kg./hect.)	Production of rice (in tonnes)	Area (Hects.)	Mean yield of dry paddy (kg./hects.)	Production of rice (in tonnes)	Area (Hects.)	Mean yield of dry paddy (kg./hects.)	Production of rice (in tonnes)	Area (Hects.)	Mean yield of dry paddy (kg./hects.)	Production of rice (in tonnes)
Trivandrum	1418	2662	2480	11749	2245	17226	19167	2290	19806			
Quilon	1939	2443	3112	15981	2518	26439	17920	2510	29551			
Pathanamthitta	1636	3121	3355	4871	2774	8876	6507	2861	12231			
Alleppey	3870	4049	10294	13205	2201	19094	17075	2620	29388			
Kottayam	10053	3019	19938	5187	2131	7263	15240	2717	27201			
Idukki	1356	3521	3137	3091	3019	6130	4447	3172	9267			
Ernakulam	4132	3061	8310	31351	2499	51475	35483	2565	59785			
Trichur	5713	3351	12579	39958	2427	63702	45671	2542	76281			
Palghat	4819	2928	9271	69131	2738	124351	73950	2750	133622			
Malappuram	1482	2533	2466	36607	2234	44918	32089	2248	47394			
Wayanad	1368	3081	2961	23280	2695	41216	24648	2722	44077			
Kozhikode	834	3061	1677	10059	1789	11822	10893	1886	13499			
Cannanore	2030	3006	4009	14303	2222	20880	16333	2319	24689			
STATE	50650	3126	83489	272773	2475	443492	313423	2559	52698			

Estimated Area Mean yield and production of High yielding and other varieties of paddy—Summer 1986)

District /State	High yielding varieties				Other varieties				All varieties	
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	Area (Hects.)	Mean yield of dry paddy (Kg./hect.)	Production of rice (in tonnes)	Area (Hects.)	Mean yield of dry paddy (kg./hect.)	Production of rice (in tonnes)	Area (Hects.)	Mean yield of dry paddy (kg./hect.)	Production of rice (in tonnes)	
Trivandrum	56	1305	48	254	1720	287	310	1645	335	
Quilon	3	4059	8	204	1880	252	207	1912	260	
Pathanamthitta	2786	4317	7901	115	4434	335	2901	4321	8236	
Alleppey	16392	4692	50536	9047	3161	18786	25439	4148	69322	
Kottayam	4798	4466	14077	1462	4159	3995	6260	4394	18072	
Idukki	131	2521	217	242	3076	489	373	2881	706	
Ernakulam	1891	2571	3194	13010	2390	20425	14901	2413	23619	
Trichur	6158	3199	12943	11024	2931	21230	17182	3027	34173	
Palghat	436	2964	849	1512	1820	1808	1948	2076	2657	
Malappuram	2386	3634	5697	2406	2644	4799	4792	3137	9876	
Wayanad	2114	3365	4674	3998	2301	6043	6112	2669	10717	
Kozhikode	1461	2061	1978	892	1556	912	2353	1869	2890	
Cannanore	234	2322	357	2147	2026	2858	2381	2055	3215	
STATE	38846	4015	102479	46313	2682	81599	85159	3290	184078	

Table 1.4

DISTRICT WISE YIELD FOR HIGH YIELDING AND OTHER VARIETIES OF PADDY
ACCORDING TO CULTURAL PRACTICES—AUTUMN 1985

Districts	Variety	Chemically manured			Other manured			Irrigated	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean Yield		
Trivandrum	HYV	8	86.98	3958	..	..	..	..
	Local	26	240.52	3367	..	..	..	..
	Total	34	327.50	3506	..	..	..	..
Quilon	HYV	1	6.50	2280	..	..	..	..
	Local	..	..	..	..	..	..	..
	Total	1	6.50	2280	..	..	..	..
Pathanamthitta	HYV	1	6.50	2280	..	..	..	..
	Local	1	8.05	2850	..	..	..	..
	Total	1	8.05	2850	..	..	..	..
Alleppey	HYV	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..
Kottayam	HYV	2	13.13	2306	..	..	..	..
	Local	2	20.94	3677	..	..	..	..
	Total	4	34.07	2991	..	..	..	..

37/2337/MC.

Idukki	HYV	..	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..
Ernakulam	HYV	42	280.17	2281	..	..	..	..	..
	Local	38	267.85	2411	..	..	1.66	..	568
	Total	80	548.02	2343	1	..	1.66	..	568
Trichur	HYV	3	22.60	2679	..	..	..	..	..
	Local	3	15.85	1879	..	..	..	..	..
	Total	6	38.45	2279	..	..	..	..	..
Palghat	HYV	8	80.84	3452	..	..	..	..	..
	Local	15	147.76	3365	..	..	..	..	..
	Total	23	228.60	3395	..	..	..	..	..
Malappuram	HYV	3	29.88	3661	1	..	5.2	..	1912
	Local	3	14.00	1715	..	..	..	..	..
	Total	6	43.88	2688	1	..	5.2	..	1912
Kozhikode	HYV	..	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..
Wayanad	HYV	..	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..
Cannanore	HYV	..	..	..	..	..	..	..	..
	Local	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..
STATE	HYV	68	528.15	2734	1	..	5.20	..	1830
	Local	87	706.92	2860	1	..	1.66	..	584
	Total	155	1235.07	2805	2	..	6.86	..	1207

Table 1.4

AUTUM 1985

Unirrigated

District	variety	Chemically manured			Other manured			Not manured		
		No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Trivandrum	HYV	27	239.07	3223	..	..	..	..	..	..
	Local	51	418.27	2985	..	..	..	..	5.80	2111
	Total	78	657.34	3068	..	..	..	..	5.80	2111
Quilon	HYV	74	662.78	3142	4	18.94	1661	..	..	..
	Local	35	222.89	2234	7	38.75	1942	..	7.80	1968
	Total	109	885.67	2850	11	57.69	1840	..	7.80	1968
Pathanamthitta	HYV	44	283.19	2278	1	2.60	920	..	..	..
	Local	18	73.20	1440	..	..	..	..	..	..
	Total	62	356.39	2035	1	2.60	920	..	..	..
Alleppey	HYV	42	174.94	1456	1	0.75	262	..	2.39	836
	Local	61	478.10	2740	27	39.05	506	..	39.07	1138
	Total	103	653.04	2217	28	39.80	497	..	41.46	1115
Kottayam	HYV	65	399.67	2159	..	..	..	..	..	..
	Local	39	192.68	1735	..	..	..	..	1.25	439
	Total	104	592.35	2000	..	..	..	..	1.25	439
Idukki	HYV	8	67.30	2907	..	..	..	..	..	..
	Local	25	222.87	3081	1	9.53	3294	..	..	..
	Total	33	290.17	3039	1	9.53	3294	..	..	..

Ernakulam	HVV	33	236.97	2450	10	73.21	2504	35	237.45	2320
	Local	61	481.88	2702	10	73.21	2504	35	237.45	2320
	Total	94	718.85	2615						
Trichur	HVV	26	176.97	2420	1	10.00	3556	2	15.75	2800
	Local	65	396.07	2167	23	84.70	1310	7	9.91	503
	Total	91	573.04	2239	24	94.70	1403	9	25.66	1014
Palghat	HVV	29	243.66	2870	3	13.57	1545	..	..	..
	Local	69	629.45	3116	22	102.34	1589	12	75.08	2137
	Total	98	873.11	3043	25	115.91	1584	12	75.08	2137
Malappuram	HVV	25	180.44	2653	2	11.85	2178	1	2.20	809
	Local	48	271.68	2081	37	202.18	2009	14	54.49	1431
	Total	73	452.12	2277	39	214.03	2017	15	56.69	1389
Kozhikode	HVV	8	51.44	2366	6	35.89	2201	2	6.50	1196
	Local	31	145.71	1730	24	99.95	1533	9	18.77	767
	Total	39	197.15	1860	30	135.84	1666	11	25.27	845
Wayanad	HVV								No Autumn Paddy	
	Local									
	Local									
Cannanore	HVV	47	396.61	2943	16	124.22	2708	2	13.67	2384
	Local	63	409.02	2265	36	225.32	2183	11	60.66	1923
	Total	110	805.63	2555	52	349.54	2345	13	74.33	1994
STATE	HVV	428	3113.04	2560	34	217.82	2255	8	40.51	1782
	Local	566	3941.82	2451	187	875.03	1647	104	510.28	1727
	Total	994	7054.86	2498	221	1092.85	1741	112	550.79	1731

(1)	(2)	(12)	Total			Treated with pesticides			Not treated with pesticides		
			Yield (13)	Mean yield (14)	No. of experiments (15)	Yield (16)	Mean yield (17)	No. of experiments (18)	Yield (19)	Mean yield (20)	
Trivandrum	HYV	27	239.07	3223	27	246.85	3328	8	79.20	3604	
	Local	52	424.07	2968	22	187.81	3107	56	476.78	3099	
	Total	79	663.14	3055	49	434.66	3229	64	555.98	3162	
Quilon	HYV	78	681.72	3066	27	262.76	4314	52	425.46	2870	
	Local	44	269.44	2148	12	66.92	1956	32	202.52	2220	
	Total	122	951.16	2735	39	329.68	2965	84	627.98	2623	
Pathanamthitta	HYV	43	285.79	2248	34	222.25	2314	12	71.59	2112	
	Local	18	73.20	1440	7	7.70	389	11	65.50	2108	
	Total	63	358.99	2017	41	229.95	1985	23	137.09	2110	
Alleppey	HYV	44	178.08	1415	32	142.39	1556	12	35.69	1040	
	Local	100	556.22	1945	51	424.93	2913	49	131.29	937	
	Total	144	734.30	1783	83	567.32	2390	61	166.98	957	
Kottayam	HYC	65	399.67	2159	51	314.53	2166	16	98.27	2157	
	Local	40	193.93	1703	34	182.01	1880	8	32.86	1443	
	Total	105	593.60	1985	85	496.54	2052	24	131.13	1919	
Idukki	HYV	8	67.30	2907	4	28.23	2439	4	39.07	3376	
	Local	26	232.40	3089	16	143.21	3093	10	89.19	3082	
	Total	34	299.70	3046	20	171.44	2962	14	128.26	3166	

Ernakulam	HYV	33	236.97	2456	54	378.28	2396	21	138.86	2261
	Local	106	792.54	2557	63	512.66	2783	82	549.39	2291
	Total	139	1029.51	2533	117	890.94	2604	103	688.25	2285
Trichur	HYV	29	202.72	2486	21	160.32	2715	11	65.00	2101
	Local	95	490.68	1837	38	246.96	2311	60	259.57	1538
	Total	124	693.40	1988	59	407.28	2455	71	324.57	1626
Palghat	HYV	32	257.23	2746	14	125.50	3062	26	212.57	2793
	Local	103	806.87	2676	18	174.85	3318	100	779.78	2664
	Total	135	1064.10	2963	32	300.35	3206	126	992.35	2690
Malappuram	HYV	28	194.49	2553	19	144.18	2790	13	85.39	2415
	Local	99	528.35	1692	21	109.93	1924	81	432.42	1962
	Total	127	722.84	2092	40	254.11	2335	94	517.81	2025
Kozhikode	HYV	16	93.83	2158	6	32.50	1993	10	61.33	2257
	Local	64	264.43	1520	8	31.30	1440	56	233.13	1532
	Total	80	358.26	1648	14	63.80	1677	66	294.46	1642
Wyanad	HYV									
	Local									
	Total									
Cannanore	HYV	65	594.50	2868	14	115.48	2877	51	419.02	2866
	Local	110	695.00	2204	13	74.38	1996	97	620.62	2232
	Total	175	1229.50	2451	27	189.86	2453	148	1039.64	2450
STATE	HYV	470	3371.37	2525	303	2173.27	2525	236	1731.45	2583
	Local	857	5327.13	2188	303	2162.66	2512	642	3873.05	2124
	Total	1327	8698.50	2307	606	4335.93	2519	879	5604.50	2247

TABLE 2.4

**District-wise yield for High Yielding and other varieties of paddy according to cultural practices
Winter 1985**

District	Irrigated												
	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	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
Trivandrum	H Y V	5	37.32	2717	..	..	..	..	..	..	5	37.32	2717
	Local	32	183.78	2090	..	..	..	..	..	..	32	183.78	2890
	Total	37	221.10	2175	..	..	..	..	..	..	37	221.10	2175
Quilon	HYV	7	59.70	3033	..	..	..	..	..	..	7	59.70	3033
	Local	25	222.85	3170	..	..	..	..	..	..	25	222.85	3170
	Total	32	282.55	3140	..	..	..	..	..	..	32	282.55	3140
Pathanam-thitta	HYV	28	216.17	2847	..	..	..	..	..	..	28	216.17	2847
	Local	9	81.29	3331	..	..	1	7.31	2696	..	10	88.60	3268
	Total	37	297.46	2965	..	..	1	7.31	2696	..	38	304.77	3958
Alleppey	HYV	5	62.30	4496	..	..	..	..	..	..	5	62.30	4496
	Local	15	130.27	3133	..	..	..	..	..	..	15	130.27	3133
	Total	20	192.57	3474	..	..	..	..	..	..	20	192.57	3474
Kottayam	HYV	41	416.96	3653	..	..	..	..	..	..	41	416.96	3653
	Local	29	213.25	2641	..	..	4	16.80	1509	..	33	230.05	2504
	Total	70	630.21	3234	..	..	4	16.80	1509	..	74	647.01	3141

Idukki	HYV	15	131.70	3140	..	..	..	2	16.10	2879	17	147.80	3109
	Local	22	178.13	2895	1	5.03	1799	..	..	..	23	183.16	2848
	Total	37	309.83	2994	1	5.03	1799	2	16.10	2879	40	330.96	2959
Ernakulam	HYV	19	162.54	3066	..	..	..	..	..	..	19	162.54	3066
	Local	141	962.95	2494	5	32.92	2404	3	20.62	2510	149	1016.49	2491
	Total	160	1125.49	2569	5	32.92	2404	3	20.62	2510	168	117.03	2564
Trichur	HYV	18	151.14	3066	..	..	..	..	..	..	18	151.14	3066
	Local	88	578.95	2403	14	58.91	1537	8	31.77	1450	110	669.63	2223
	Total	106	730.09	2515	14	58.91	1537	8	31.77	1450	128	720.77	2342
Palghat	HYV	25	236.04	3339	3	25.75	3035	4	11.25	995	32	273.04	3017
	Local	85	717.32	2984	6	38.70	2281	1	0.00	0	92	756.02	2906
	Total	110	953.36	3065	9	64.45	2332	5	11.25	796	124	1029.06	2934
Malappuram	HYV	7	46.30	2429	1	6.10	2240	..	..	..	8	52.40	2405
	Local	37	230.93	2292	19	110.49	2135	1	7.09	2603	57	348.51	2245
	Total	44	277.23	2314	20	116.59	2141	1	7.09	2603	65	400.91	2265
Kozhikode	HYV	..	..	..	..	..	..	..	..	..	..	..	..
	Local	1	2.89	1061	..	..	..	..	..	..	..	..	..
	Total	1	2.89	1061	..	..	..	..	..	..	..	..	..
Wynad	HYV	13	111.04	3236	..	..	..	..	..	..	14	116.89	3163
	Local	9	70.53	2969	7	40.24	2178	..	..	..	16	110.77	2622
	Total	22	181.57	3126	7	40.24	2178	..	..	..	30	227.66	2875
Cannanore	HYV	38	302.00	2874	3	25.45	3068	..	..	..	41	327.45	2888
	Local	59	392.52	2406	15	67.00	1615	4	26.74	2417	78	486.26	2254
	Total	97	694.52	2589	18	92.45	1857	4	26.74	2417	119	813.71	5511
STATE	HYV	221	1933.21	3226	7	57.30	3019	7	33.20	1749	235	2023.71	3176
	Local	552	3965.66	2649	67	353.29	1945	23	112.98	1812	642	4431.93	2545
	Total	773	5898.87	2814	74	410.59	2046	30	146.17	1797	877	6455.64	2715

TABLE 2.4—(Contd.)

District	Un Irrigated												
	Chemically manured						Other manured					Not manured	
	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	
(1)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)				
Trivandrum	HYV	12	84.94	2377	..	..	..	..	..	..	..
	Local	63	396.71	2292	..	..	..	..	..	..	..
	Total	75	481.65	2338	..	..	..	..	..	..	..
Quilon	HYV	7	60.79	3088	..	..	..	..	..	..	..
	Local	91	548.46	2143	5	32.84	2336	3	14.20	1683	1683		
	Total	98	609.25	2211	5	32.84	2336	3	14.20	1683	1683		
Pathanamthitta	HYV	8	59.93	2348	..	..	..	..	..	..	..
	Local	23	174.88	2804	..	..	..	..	..	..	..
	Total	31	225.81	2686	..	..	..	..	..	..	..
Alleppey	HYV	27	289.47	3868	..	..	..	..	..	..	..
	Local	57	380.37	2408	35	67.14	692	12	23.06	693	693		
	Total	84	669.84	2877	35	67.14	692	12	23.06	693	693		
Kottayam	HYV	30	267.97	3208	..	..	..	..	..	..	..
	Local	4	30.85	2770	..	..	..	..	..	..	..
	Total	34	298.82	3157	..	..	..	..	..	..	..
Idukki	HYV	1	11.25	4023	1	12.45	4452	2	15.35	2745	2745		
	Local	14	118.28	3021	13	136.94	3767	6	49.38	2943	2943		
	Total	15	129.53	3088	14	149.39	3816	8	64.73	2993	2993		

Ernakulam	HVV	5	42.46	3101	..	..	..	..	..	..	..	..	..
	Local	22	132.45	2199	4	21.10	1926	1	3.10	1132	..	..	..
	Total	27	174.91	2366	4	21.10	1926	1	3.10	1132	..	..	..
Trichur	HVV	2	12.85	2346	1	5.60	2045	..	..	..	..	..	..
	Local	1	3.70	1351	..	..	..	1	5.00	1826	..	..	..
	Total	3	16.55	2015	1	5.60	2045	1	5.00	1826	..	..	..
Palghat	HVV	2	14.20	2510	..	..	..	3	20.40	2404	..	..	..
	Local	24	139.02	2049	5	25.82	1826	..	..	..	..	..	..
	Total	26	153.22	2084	5	25.82	1826	3	20.40	2404	..	..	..
Malappuram	HVV	2	12.33	2337	..	..	..	..	..	..	..	..	..
	Local	36	194.37	1983	12	64.26	1966	..	..	..	..	..	..
	Total	38	207.10	2001	12	64.26	1966	..	..	..	..	..	..
Kozhikode	HVV	3	31.21	3820	1	10.20	3745	..	..	..	..	..	..
	Local	45	223.24	1822	21	99.37	1738	8	28.17	1293	..	..	..
	Total	48	254.45	1947	22	109.57	1829	8	28.17	1293	..	..	..
Cannanore	HVV	4	22.50	2034	3	8.04	1454	1	0.38	137	..	..	..
	Local	17	96.62	2055	8	27.77	1255	1	7.20	2601	..	..	..
	Total	21	119.12	2051	10	35.81	1295	2	7.58	1370	..	..	..
Wynad	HVV	3	26.13	3219	2	16.41	3108	1	7.57	2868	..	..	..
	Local	30	236.50	2986	17	105.83	2358	6	36.07	2277	..	..	..
	Total	33	262.63	3015	19	122.24	2437	7	43.64	2362	..	..	..
State	HVV	106	927.43	e227	7	52.70	2777	7	43.70	2302	..	..	..
	Local	427	2675.45	2266	120	581.07	1786	39	174.93	1654	..	..	..
	Total	533	3602.88	2444	127	633.77	1840	46	218.63	1753	..	..	..

Un Irrigated

District	Total			Treated with pesticides			Not treated with pesticides			
	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	No. of experiments	Yield	Mean yield	
(1)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	
Trivandrum	HYV	12	84.94	2577	12	81.31	2466	5	49.95	2981
	Local	63	396.71	2292	47	273.83	2121	49	306.66	2326
	Total	75	481.65	2338	59	355.14	2191	53	347.61	2387
Quilon	HYV	7	60.79	3088	3	25.90	3070	11	94.59	3058
	Local	99	595.50	2139	23	154.40	2387	101	663.95	2338
	Total	106	656.29	2203	26	180.30	2466	112	758.54	2408
Pathanamthitta	HYV	8	50.93	2348	33	238.90	2670	3	28.20	3467
	Total	24	183.63	2822	10	86.45	3188	24	185.78	2855
	Total	32	234.56	2703	43	325.35	2790	27	213.98	2923
Alleppey	HYV	27	289.47	3868	30	329.10	3958	2	22.77	4090
	Local	104	470.57	1633	43	340.67	2858	76	260.17	1235
	Total	131	760.04	2093	73	669.77	3310	78	282.84	1308
Kottayam	HYV	30	267.97	3208	6	611.06	3598	10	73.87	2653
	Local	4	30.95	2770	34	229.23	2422	3	31.67	3792
	Total	34	298.82	3157	95	840.29	3177	13	105.54	2916
Idukki	HYV	4	39.05	3491	17	148.76	3129	4	38.09	3405
	Local	33	304.60	3301	37	306.87	2966	19	180.89	2405
	Total	37	343.65	3321	54	455.63	3017	23	218.98	3405

Ernakulam	YHV	5	42.46	4	3101	19	158.59	3042	5	46.41	3382
	Local	27	156.65		2119	101	681.65	2459	75	491.49	2388
	Total	32	199.11		2272	120	840.24	2552	80	537.90	2450
Trichur	HYV	3	18.45		2246	19	159.67	3069	2	9.92	1811
	Local	2	8.70		1589	76	503.42	2419	36	174.91	1774
	Total	5	27.15		1983	95	663.09	2549	38	174.83	1776
Palghat	HYV	5	34.60		2447	20	175.08	3095	17	132.56	2757
	Local	29	164.84		2010	56	468.71	2960	65	452.15	2460
	Total	34	199.44		2074	76	643.79	2995	82	584.71	2521
Malappuram	HYV	2	12.73		2337	7	47.13	2472	3	18.00	1983
	Local	48	258.63		1979	15	304.15	2190	54	302.99	2060
	Total	50	371.36		1993	58	351.28	2224	57	320.99	2068
Kozhikode	HYV	4	41.41		3801	2	25.37	4658	2	16.04	2945
	Local	74	350.78		1741	15	78.71	1927	61	277.61	1671
	Total	78	392.19		1846	17	104.08	2248	63	293.65	1712
Cannanore	HYV	7	30.92		1597	36	273.50	2747	12	84.87	2557
	Local	26	131.59		1830	50	318.52	2304	54	299.33	2004
	Total	33	162.51		1781	86	592.02	2489	66	384.20	2105
Wynad	HYV	6	50.11		3164	6	53.92	3404	14	113.08	3060
	Local	53	378.40		2704	13	100.77	2936	56	388.40	2627
	Total	59	428.51		2751	19	154.69	3084	70	501.48	2714
State	HYV	120	1023.83		3145	265	2328.29	3240	90	719.25	2947
	Local	386	3431.45		2169	556	3847.38	2652	672	4016.00	2204
	Total	706	4455.28		2327	821	6175.67	2774	762	4735.25	2292

TABLE 3.4

**District-wise yield for High Yielding and other varieties of Paddy according to Cultural practices—
Summer 1985-86**

District	Irrigated									
	Chemically manured			Other manured			Not manured			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	No. of experiments	Yield	Mean Yield	No. of experiments	Yield	Mean Yield	No. of experiments	Yield	Mean Yield	
Trivandrum	HYV	10	24.36	866						
	Local	15	62.33	1478						
	Total	25	86.69	1233						
Quilon	HYV	12	60.05	1787	2	14.50	2590	3	15.84	1886
	Local	12	60.05	1787	2	14.50	2590	3	15.84	1886
	Total	24	60.05	1787	4	14.50	2590	6	15.84	1886
Pathanamthitta	HYV	40	468.15	4284						
	Local	23	250.94	3993						
	Total	63	719.09	4178						
Alleppey	HYV	34	353.15	3764						
	Local	12	120.58	3642						
	Total	46	474.73	3732						
Kottayam	HYV	33	365.26	4051						
	Local	25	282.71	4139						
	Total	58	647.97	4089						
Idukki	HYV	1	4.80	1747	1	4.85	1667	1	6.85	2493
	Local	5	21.27	1548						
	Total	6	26.07	1582	1	4.85	1667	1	6.85	2493

Ernakulam	HYV	32	247.12	2811	1	7.50	2697	1	3.20	1151
	Local	107	711.91	2393	1	3.70	1331	1	5.42	1949
	Total	139	959.03	2481	2	11.20	2014	2	8.12	1550
Trichur	HYV	54	519.54	3529	..	..	..	..	..	..
	Local	57	450.52	2899	..	..	..	..	..	..
	Total	111	970.06	3206	..	..	..	..	..	..
Palghat	HYV	12	95.15	2826	1	7.77	2769	2	4.26	759
	Local	55	296.30	1920	4	16.78	1495	4	16.74	1492
	Total	67	391.45	2082	5	24.55	1750	6	21.00	1247
Malappuram	HYV	35	330.07	3516	..	..	..	..	..	..
	Local	40	273.91	2553	6	29.70	1845	2	6.55	1220
	Total	75	603.98	3002	6	29.70	1845	2	6.55	1220
Kozhikode	HYV	30	181.10	2236	3	14.32	1768	1	0.92	340
	Local	11	50.53	1701	8	23.45	1086	..	..	..
	Total	41	231.63	2093	11	37.77	1272	1	0.92	340
Wayanad	HYV	17	145.37	3287	3	22.71	2910	2	17.69	3400
	Local	15	109.03	2794	6	41.37	2650	4	21.56	2072
	Total	32	254.40	3056	9	64.08	2737	6	39.25	2515
Cannanore	HYV	32	214.87	2530	1	1.95	735	..	..	..
	Local	69	358.81	1959	11	43.82	1501	4	14.31	1348
	Total	101	573.68	2140	12	45.77	1437	4	14.31	1348
State	HYV	330	2948.94	3271	10	59.10	2163	7	32.92	1721
	Local	446	3048.89	2502	38	173.32	1669	18	80.42	1635
	Total	776	5997.83	2829	48	232.42	1772	25	113.34	1659

Ernakulam	HYV	..	..	..	1	3.63	1305	25	195.51	2812	10	65.94	2371	
	Local	..	..	..	3	13.14	1575	89	584.30	2361	23	149.87	2343	
	Total	..	..	..	4	16.77	1508	114	779.81	2460	33	215.81	2332	
Trichur	HYV	..	..	..	..	..	..	..	52	504.94	3562	2	14.60	2678
	Local	..	..	..	..	..	..	..	44	380.87	3175	13	69.65	1955
	Total	..	..	..	..	..	..	..	96	885.81	3385	15	84.25	2030
Palghat	HYV	..	..	..	..	..	..	..	10	99.18	35.35	5	8.00	570
	Local	4	6.77	603	..	..	13.58	807	32	179.23	1985	37	165.17	1590	
	Total	4	6.77	603	..	..	13.58	807	42	277.41	2354	42	173.17	1469	
Malappuram	HYV	..	..	..	..	..	..	..	34	322.57	3337	1	7.50	2796
	Local	..	..	..	1	4.22	1573	35	257.85	2746	14	56.53	1505	
	Total	..	..	..	1	4.22	1573	69	580.42	3136	15	64.03	1591	
Kozhikode	HYV	1	15.16	5615	18	127.80	2630	17	83.70	1824
	Local	1	7.60	2815	3	12.95	1599	6	34.22	2113	16	52.71	1246		
	Total	1	7.60	2815	4	28.11	2603	24	162.02	2501	33	136.41	1608		
Wayanad	HYV	2	15.95	3066	4	33.94	3262	8	69.53	3341	18	150.18	3207		
	Local	7	19.92	3829	3	10.83	1388	21	109.73	2009	2	83.49	1605	44	198.20	1732	
	Total	9	35.87	1532	3	10.83	1388	25	143.67	2209	10	153.02	5882	62	348.38	2160	
Cannanore	HYV
	Local	3	2.71	940	1	4.39	1687	25	83.18	1253	42	175.96	1578	67	324.16	1823	
	Total	3	2.71	940	1	4.39	1687	25	83.18	1253	62	327.66	1991	80	389.28	1834	
STATE	HYV	3	18.70	2281
	Local	17	43.42	935	9	58.25	2369	140	713.50	1865	426	2993.49	2522	216	1022.64	1733	
	Total	20	62.12	1137	9	58.25	2369	230	1643.80	2616	791	6521.01	3017	288	1466.38	1864	

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