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GOVERNMENT OF KERALA

REPORT
ON
THE CROP CUTTING SURVEY
OF
PADDY
DURING 1981-82

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**REPORT ON THE CROP CUTTING
SURVEY OF PADDY
DURING 1981-82**

5158

PREFACE

The crop estimation surveys on paddy are conducted in the State by this department regularly during Autumn, Winter & Summer seasons. This report deals with the object of the survey, the coverage, the sampling technique adopted, the result of the analysis of the data relating to the three seasons of 1981-82.

The report was prepared by the crop cutting unit of the Agricultural Statistics Division of the Directorate.

Trivandrum,
10-12-1984.

N. GEORGE JOHN,
Director.

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REPORT ON THE CROP CUTTING SURVEY OF PADDY DURING 1981-82

1. 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 seasons of the year 1981-82.

2. Objectives of the Survey

The main objectives of the survey were:

- (i) To estimate the average yield of paddy per hectare for taluks, districts and state for each season
- (ii) To estimate the total production of rice in the state during each crop season
- (iii) To estimate the productivity of the high yielding varieties of paddy at the district level.
- (iv) To estimate the productivity of the crop according to the different cultivation practices like application of chemical fertilisers adoption of irrigation etc.

3. Period of the Survey

The period of the crop cutting survey on autumn paddy was from August 1981 to October 1981, for winter from December 1981 to February 1982 and for summer from March 1982 to May 1982.

4. Coverage and Sample size

The survey was conducted during autumn 1981 in all the taluks in the state except Peermade, Udumbanchola, South Wynad and North Wynad when the area under autumn paddy was reported to be negligible. While the survey was conducted in all the taluks except Cochin during winter 1981-82 and in 50 out of 58 taluks during summer 1982.

5. Sampling Design

For the conduct of the survey, a stratified multistage sampling design was adopted. Each taluk was treated as the stratum, revenue village as the first stage unit, a survey subdivision as the second stage unit, a kandam as the third stage unit and square plot of sides 5 meters as the ultimate sampling unit. The number of experiments to be conducted in each season is fixed considering the area of the crop land 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 villages for survey was the same as the sample villages which were selected from Timely Reporting Survey at the headquarters of the Directorate at the beginning of the agricultural year. The required number of experimental plots were selected by simple random sampling method from the frame consisting of that of wet lands survey subdivision growing the crop.

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

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 subdivision was more than one and the location of square plots of side five metres were done by the investigators.

7. Field work

The Investigators under the immediate supervision of the Statistical Inspectors and Additional Statistical Inspectors conducted the field work of survey. The District Statistical Officers were responsible for the proper conduct and supervision of the field work of the survey. The Additional District Statistical 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 seasons of 1981-82 were respectively 1508, 1506 and 1167, while the percentage response was found to be about 93.9% for autumn season, 98.8% for winter season and 97.4% for the summer season.

8. Supervision

The field work of the survey was inspected at three stages viz. preharvest, harvest and post harvest stages by the Additional Statistical Inspectors, Statistical Inspectors, Additional District Statistical Officers and District Statistical 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/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 seasons of 1981-82, about 47%, 45% and 45% respectively of the experiments analysed were inspected at the harvest stage. During Autumn 1981, about 18% of the experiments analysed were inspected at the preharvest stage, and during winter and summer 1982, about 15% and 11% were inspected at the preharvest stage.

9. Analysis

The tabulation and analysis of the data collected through the survey was done by the Agricultural statistics division of the Directorate.

10. Procedure of Estimation

(i) *Mean Yield*.—The Taluk-wise mean yield of dry paddy and its standard error were estimated using the following formula. Taluk mean

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

Where n_i = number of experiments conducted in the i th village ($i=1, 2, 3, \dots, K$)

K = number of villages selected in the taluk x_{ij} = weight of paddy obtained from the j th experiment in the i th village ($j=1, 2, \dots, n_i$) each experiment is taken from 5 metre square (1/400th of a hectare) Mean yield of dry paddy in Kg. per hectare = $\bar{X} \times 400 \times d$ Where d is the driage ratio.

(ii) Standard error of Taluk Mean Yield

$$\text{Variance of taluk mean yield} = \frac{A}{N} + \frac{B-A}{n} \times \sum_{i=1}^K \frac{n_i^2}{N^2}$$

Where A = mean square within village

B = mean square between villages

N = Total number of experiments conducted in the taluk $\left(\sum_{i=1}^K n_i \right)$

n_i = No of experiments conducted in the i th village

$m = N^2 - \sum n_i^2$

$$\frac{m}{N(k-1)}$$

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.

(iii) Standard error of the state mean yield

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

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

Where a_i = Area under the crop in the i th taluk and
 S_i = The standard error of the estimate of mean yield in the i th taluk.

The data on area under paddy each taluk estimated through the T.R.S. have been utilised to compute the production of rice.

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

11. Results of the Survey

(i) General

The estimated production of rice in the state during the three seasons of the year 1981-82 is given in below.

| | |
|-------------|---------------|
| | <i>Tonnes</i> |
| Autumn 1981 | 556918 |
| Winter 1982 | 589154 |
| Summer 1982 | 193321 |
| | <hr/> |
| Total | 1339393 |
| | <hr/> |

When compared with the production figures of the previous year 1980-81 there was a steady increase in the production figures during all the three seasons of 1981-82. The production of rice in the state has increased by about 67400 tonnes from last years production.

(ii) The estimated area, mean yield and its standard error, production of rice together with the number of crop cutting experiments analysed in each taluk during autumn, winter and summer 1981-82 are given in table 1.1, 2.1 and 3.1 respectively in the appendix.

(iii) The yield rate obtained from about 47% in autumn 81, 56% in winter 82 and 50% in summer 82 of the experimental plots was over 2500 kg. wet paddy per hectare. About 11% of the experimental plots in autumn 81 had yield rate over 4000 Kg. per hectare while in winter and summer 82 this percentage was about 9 and 11 respectively. The lowest yield rate of less than 500 kg. of wet paddy per hectare was obtained from about 5% of the experimental plots in autumn about 2% in winter 82 and about 4% in summer 82.

159 driage experiments were conducted during autumn 81 to determine the driage ratio of dry paddy to wet paddy. The corresponding figures for winter and summer 82 were respectively 171 and 146. It was found that during autumn the driage ratio varied from 0.83 in Idukki District to 0.90 in Kottayam District, during winter from 0.87 in Trivandrum District to 92 in Cannanore District and during summer from 88 in Trivandrum District to 94 in Wynad District. The driage ratio for the state was estimated as 0.87 in autumn, 0.90 in winter and 0.91 in summer.

The estimated mean yield of dry paddy relating to Autumn, winter and Summer seasons of 1981-82 for taluks, districts and the state during the last six years are given in tables 1.2, 2.2 and 3.2 respectively in the appendix.

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 1981-82 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 40% and 46% of the area under paddy cultivation about 21% of the area only was brought under high yielding varieties during the winter season.

It is estimated that about 52% of the total outturn of rice in the state during Autumn & Summer Seasons of 1981-82 was from High yielding varieties. But the state level productivity of high yielding varieties was higher in and that of local varieties during all the seasons—by 61% in Autumn 21% in winter and 31% in summer.

The productivity of High Yielding Varieties was found higher than local varieties in all the districts except Idukki in Autumn 1981. During Winter 1982, the productivity of high yielding varieties was higher in all the districts except Quilon and Palghat, while in Summer 1982 the productivity of high yielding varieties was lower only in Kottayam District. The district wise yield rate of high yielding varieties varied from 1777 Kg./hec. in Trichur district to 3888 Kg./hec. in Palghat district, during Autumn 1981, from 2217kg./hec. in Quilon District to 3792 Kg./hec. in Alleppey District during winter 82 and from 1558 Kg./hec. in Idukki district to 4355 Kg./hec. in Alleppey District.

The distribution of experimental plots with high yielding varieties of paddy according to the variety raised in each district during Autumn, Winter and Summer seasons of 1981-82 showed that about 37%, 22% and 48% of the experimental plots covered by the survey were grown with high yielding strains of paddy during winter and summer respectively. The High Yielding Varieties of paddy in the order of cultivators preference were Jyothi, Jaya, Mashoori during Autumn, Jyothi, Mashoori and H 4 during winter and Jyothi, Triveni and cul-28 during summer. During Autumn 1981 the highest state average yield of 3179 Kg./hec. was obtained from Rohini which was cultivated in Cannanore district only. This was followed by 3132 Kg./hec. from Mh. 1650 and 3103 Kg./hec. from I.R.5. During Winter, the highest state average, of 3278 Kg./hec. was obtained from I.R.20 followed by Bharathy and Aswathy while Rohini (which was cultivated only in Kozhikode District) I.R.5 and Jaya respectively had yielded maximum during summer.

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 1981 are indicated in the table given below.

District wise High Yielding Varieties with highest average yield—Autumn 81

| <i>Sl. No.</i> | <i>District</i> | <i>H.Y.V. Corresponding to the highest district average yield</i> | <i>Highest average yield experiment of dry paddy plots (Kg./hec.)</i> | <i>No. of experiment plots where H.Y.V. in col. 3</i> |
|----------------|-----------------|---|---|---|
| 1. | Trivandrum | I.R.5. | 3376 | 1 |
| 2. | Quilon | I.R.8 | 3288 | 1 |
| 3. | Alleppey | Jyothi | 2637 | 59 |
| 4. | Kottayam | Sabari | 3636 | 1 |
| 5. | Idukki | Sabari | 3610 | 1 |
| 6. | Ernakulam | Sabari | 2957 | 1 |
| 7. | Trichur | Bharathy | 3108 | 1 |
| 8. | Palghat | Jaya | 4442 | 25 |
| 9. | Malappuram | Jaya | 2922 | 5 |
| 10. | Kozhikode | Mashoori | 2496 | 5 |
| 11. | Cannanore | Rohini | 3179 | 1 |

The highest district average yield was obtained for Jaya in Palghat District, closely followed by Sabari in Kottayam and Idukki Districts and I.R. 5 in Trivandrum District. Sabari attained the highest district average yield in three districts and Jaya, in two districts.

The names of high yielding varieties of paddy 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 Winter 1982 are indicated below.

District wise High Yielding Variety with highest average Yield—Winter 1982

| <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> |
|-----------------|--|--|--|
| Trivandrum | I.R. 20 | 4077 | 1 |
| Quilon | Jyothi | 2876 | 3 |
| Alleppey | Bharathi | 3481 | 8 |
| Kottayam | H.4 | 3112 | 7 |
| Idukki | H.4 | 3507 | 15 |
| Ernakulam | Jyothi | 2473 | 7 |
| Trichur | Bharathi | 4082 | 3 |
| Palghat | H4 | 3340 | 1 |
| Malappuram | Jaya | 3680 | 2 |
| Kozhikode | Jyothi | 3711 | 1 |
| Wynad | I.R. 8 | 3993 | 3 |
| Cannanore | I.R.20 | 4246 | 2 |

I.R. 20 recorded the highest district average in Cannanore District followed by Bharathi in Trichur District, I.R.20 in Trivandrum District and I.R. 8 in Wynad District. H4 and Jyothi attained the highest average yield in three districts each while Bharathi and I.R. 20 attained the highest average yield in two districts each.

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 1982 are indicated below.

District wise H.Y.V. with highest average Yield—Summer 1982

| <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> |
|-----------------|--|--|--|
| Trivandrum | Cul. 28 | 2263 | 3 |
| Quilon | Jyothi | 2073 | 18 |
| Alleppey | Cul.28 | 4973 | 1 |
| Kottayam | H4 | 4343 | 2 |
| Idukki | .. | .. | .. |
| Ernakulam | Bharathy | 2969 | 2 |
| Trichur | Jaya | 6192 | 5 |
| Palghat | Jaya | 4330 | 3 |
| Malappuram | I.R. 20 | 3238 | 1 |
| Kozhikode | Rohini | 5759 | 1 |
| Wynad | Jyothi | 3516 | 1 |
| Cannanore | Jaya | 3619 | 6 |

The highest District average was from Jaya in Trichur district followed by Rohini in Kozhikode District and culture-28 in Alleppey District.

13. Cultivation Practices

It was found that about 9% in Autumn, 43% in Winter and 82% in Summer of the experimental plots covered by the Survey received irrigation. These percentages were 12, 34 and 83 during the corresponding seasons of the previous year. Out of the irrigated plots, about 93% during Autumn, 88% during winter and 89% during summer were applied with chemical fertilizers while 6%, 10% and 7% during Autumn, Winter and summer 1981-82 respectively were found to have been applied with other manures like farm yard manure, green manure, cow dung etc. In the case of high yielding varieties, the experimental plots irrigated during Autumn, Winter and Summer seasons were 10%, 55% and 86% respectively of the total experimental plots cultivated with high yielding varieties. Of the irrigated plots in Autumn, nearly cent per cent were applied with chemical fertilisers. During both Winter and Summer seasons chemical fertilisers were applied to 94% of the irrigated plots.

31% of the total experimental plots in Autumn 48% in Winter and 70% in Summer were treated with pesticides. In the case of high yielding varieties, the percentage of plots applied with pesticides were 45% in Autumn 77% in Winter and 75% in Summer.

The District yield for high yielding and other varieties according to cultural practices are given in table 1.4, 2.4 & 3.4 of appendix.

TABLE 1.1

Estimates of Area Mean Yield Production of Rice for the year Autumn 81 (All varieties)

| Sl. No. | Taluk and District | No. of Expts. | | Area | Mean yields of drypaddy Kg. (Hect.) | Standard error | Production | % standard error |
|---------|----------------------------|---------------|----------|-------|-------------------------------------|----------------|------------|------------------|
| | | Planned | Analysed | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1. | Neyyattinkara | 30 | 30 | 3695 | 2312 | 140 | 5614 | |
| 2. | Trivandrum | 24 | 24 | 3179 | 2075 | 120 | 4334 | |
| 3. | Nedumangad | 30 | 30 | 4096 | 2123 | 132 | 5714 | |
| 4. | Chirayinkil | 30 | 30 | 3830 | 2005 | 96 | 5045 | |
| | TRIVANDRUM DISTRICT | 114 | 114 | 14800 | 2129 | 62 | 20707 | 2.91 |
| 5. | Quilon | 24 | 23 | 3898 | 1680 | 112 | 4302 | |
| 6. | Kottarakkara | 30 | 30 | 6259 | 2844 | 168 | 11695 | |
| 7. | Kunnathur | 30 | 30 | 4590 | 2743 | 104 | 8273 | |
| 8. | Pathanapuram | 24 | 24 | 3904 | 2888 | 180 | 7409 | |
| 9. | Pathanamthitta | 20 | 20 | 1829 | 2600 | 188 | 3125 | |
| 10. | Karunagappally | 24 | 24 | 4060 | 1612 | 160 | 4299 | |
| | QUILON DISTRICT | 152 | 151 | 24540 | 2425 | 65 | 39102 | 2.68 |
| 11. | Karthigappally | 24 | 24 | 4043 | 2236 | 200 | 5939 | |
| 12. | Mavelikara | 30 | 30 | 5931 | 1669 | 148 | 6502 | |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|--------------------------|----------------|-----|-----|-------|------|-----|-------|------|
| 13. | Chengannur | 24 | 24 | 3000 | 1903 | 244 | 3751 | |
| 14. | Thiruvalla | 24 | 24 | 1873 | 1817 | 212 | 2236 | |
| 15. | Kuttanad | 30 | 28 | 10909 | 3543 | 160 | 25392 | |
| 16. | Ambalapuzha | 30 | 30 | 3615 | 1988 | 276 | 4722 | |
| 17. | Sheermalay | 30 | 28 | 4676 | 1695 | 216 | 5206 | |
| ALLEPPEY DISTRICT | | | | | | | | |
| | | 192 | 188 | 34047 | 2403 | 79 | 53748 | 3.29 |
| 18. | Changanacherry | 20 | 18 | 1885 | 2108 | 228 | 2611 | |
| 19. | Kanjirappally | 12 | 6 | 58 | 3475 | 264 | 121 | |
| 20. | Kottayam | 30 | 30 | 5879 | 3421 | 272 | 13216 | |
| 21. | Vaikom | 24 | 23 | 4554 | 3075 | 364 | 9200 | |
| 22. | Meenachil | 24 | 24 | 2064 | 2205 | 248 | 2990 | |
| KOTTAYAM DISTRICT | | | | | | | | |
| | | 110 | 101 | 14435 | 2967 | 166 | 28138 | 5.59 |
| 23. | Pernnade | 12 | .. | 4 | 2664 | .. | 7 | |
| 24. | Devicollam | 12 | 12 | 941 | 2916 | 132 | 1803 | |
| 25. | Udumbanchola | 12 | .. | 155 | 2828 | .. | 238 | |
| 26. | Thodupuzha | 30 | 29 | 2414 | 2532 | 180 | 4016 | |

IDUKKI DISTRICT

| | | | | | | | | |
|-----|---------------|-----|-----|-------|------|-----|-------|------|
| 27. | Kothamangalam | 66 | 41 | 3514 | 2649 | 129 | 6114 | 4.87 |
| 28. | Muvattupuzha | 30 | 30 | 4435 | 2308 | 140 | 6724 | |
| 29. | Cochin | 30 | 30 | 5486 | 2819 | 204 | 10160 | |
| 30. | Kanayannur | 20 | 19 | 1671 | 2262 | 240 | 2483 | |
| 31. | Kunnathunad | 30 | 30 | 4630 | 1553 | 140 | 4725 | |
| 32. | Alwaye | 30 | 30 | 10810 | 2089 | 140 | 14837 | |
| 33. | Parur | 30 | 29 | 9759 | 2148 | 144 | 13770 | |
| | | 30 | 30 | 3311 | 2041 | 216 | 4439 | |
| | | 200 | 198 | 40102 | 2169 | 66 | 57138 | 3.04 |

ERNAKULAM DISTRICT

| | | | | | | | | |
|-----|--------------|----|----|-------|------|-----|-------|--|
| 34. | Cranganore | 20 | 20 | 817 | 825 | 160 | 443 | |
| 35. | Mukundapuram | 30 | 30 | 13931 | 1356 | 148 | 12408 | |
| 36. | Trichur | 30 | 28 | 7245 | 1992 | 120 | 9482 | |
| 37. | Thalappally | 30 | 30 | 16148 | 2000 | 88 | 21220 | |
| 38. | Chowghat | 30 | 29 | 3653 | 1517 | 212 | 3640 | |

TRICHUR DISTRICT

| | | | | | | | | |
|-----|------------|-----|-----|-------|------|-----|-------|------|
| 39. | Glittrur | 140 | 137 | 41794 | 1719 | 66 | 47193 | 3.84 |
| 40. | Alathur | 30 | 30 | 23086 | 4572 | 224 | 69350 | |
| 41. | Palghat | 30 | 30 | 19886 | 3841 | 188 | 50180 | |
| 42. | Outappalam | 30 | 26 | 19863 | 3503 | 284 | 45711 | |
| 43. | Mannarghat | 30 | 30 | 20561 | 2135 | 104 | 28845 | |
| | | 30 | 30 | 6648 | 2157 | 141 | 9420 | |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|-----|----------------------------|------|------|--------|------|-----|--------|------|
| | PALGHAT DISTRICT | | | | | | | |
| 44. | Perinthalmanna | 150 | 146 | 90044 | 3440 | 98 | 203506 | 2.85 |
| 45. | Ponnani | 30 | 29 | 8321 | 2101 | 148 | 11485 | |
| 46. | Tiur | 24 | 23 | 4156 | 1694 | 144 | 4625 | |
| 47. | Ernad | 30 | 28 | 10065 | 1363 | 164 | 10338 | |
| | | 30 | 27 | 14974 | 1871 | 168 | 18412 | |
| | MALAPPURAM DISTRICT | | | | | | | |
| | | 114 | 107 | 37516 | 1820 | 88 | 44860 | 4.84 |
| 48. | Kozhikode | 30 | 30 | 4466 | 1574 | 148 | 4618 | |
| 49. | Quilandy | 30 | 30 | 3321 | 1270 | 80 | 2771 | |
| 50. | Badagara | 24 | 24 | 2299 | 1157 | 88 | 1747 | |
| | S. Wynaad | 24 | ** | 47 | 1286 | ** | 40 | |
| | KOZHIKODE DISTRICT | | | | | | | |
| | | 108 | 84 | 10133 | 1378 | 73 | 9176 | 5.30 |
| 51. | Vythiri | ** | ** | ** | ** | ** | ** | |
| 52. | Sultan's Battery | ** | ** | ** | ** | ** | ** | |
| 53. | Mananthavady | ** | ** | ** | ** | ** | ** | |
| | N. WYNAD | | | | | | | |
| | | 12 | ** | 21 | 1286 | ** | 18 | |
| 54. | Tellicherry | 30 | 30 | 5656 | 1887 | 164 | 7012 | |
| 55. | Cannanore | 30 | 30 | 6857 | 2179 | 156 | 9817 | |
| 56. | Taliparamba | 30 | 30 | 8167 | 1508 | 140 | 8094 | |
| 57. | Hosdurg | 30 | 29 | 6216 | 2339 | 88 | 9553 | |
| 58. | Kasargode | 30 | 30 | 9235 | 2100 | 160 | 12742 | |
| | CANNANORE DISTRICT | | | | | | | |
| | | 162 | 149 | 36152 | 1989 | 67 | 47236 | 3.37 |
| | STATE | 1508 | 1416 | 347077 | 2442 | 32 | 556918 | 1.31 |

TABLE 1.2

Estimates of Area Mean Yield of Dry paddy (Kg./hect.) during Autumn
Season from 1976 to 1981

| Sl. No. | Taluk and District | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |
|----------------------------|--------------------|------|------|------|------|------|------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Neyyattinkara | 3214 | 2622 | 2759 | 2594 | 2172 | 2312 |
| 2. | Trivandrum | 2199 | 2320 | 2466 | 2409 | 2385 | 2075 |
| 3. | Nedumangad | 1914 | 1614 | 2042 | 1938 | 2150 | 2123 |
| 4. | Chirayinkil | 1246 | 1960 | 2668 | 2839 | 2318 | 2005 |
| TRIVANDRUM DISTRICT | | | | | | | |
| 5. | Quilon | 2139 | 2112 | 2481 | 2269 | 2248 | 2129 |
| 6. | Kottarakkara | 1239 | 1343 | 2206 | 2742 | 1982 | 1680 |
| 7. | Kunnathur | 1540 | 2236 | 2835 | 2367 | 2496 | 2844 |
| 8. | Pathanapuram | 1632 | 1948 | 2100 | 2478 | 2062 | 2743 |
| 9. | Pathanamthitta | 1753 | 2879 | 2627 | 2436 | 2960 | 2888 |
| 10. | Karunagappally | 2304 | 2458 | 2765 | 3032 | 3029 | 2600 |
| | | 558 | 1444 | 2033 | 1546 | 2792 | 1612 |
| QUILON DISTRICT | | | | | | | |
| 11. | Karthigappally | 1458 | 2051 | 2424 | 2224 | 2506 | 2425 |
| 12. | Mavelikara | 2112 | 1894 | 1735 | 2634 | 2414 | 2236 |
| | | 1275 | 1553 | 2012 | 2205 | 2261 | 1663 |

| <i>Sl. No. Taluk and District</i> | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |
|-----------------------------------|------|------|------|-------|------|------|
| (1) (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 13. Ghengannur | 2094 | 2243 | 2434 | 2591 | 2640 | 1903 |
| 14. Thiruvalla | 1707 | 2158 | 1625 | 1805 | 1695 | 1817 |
| 15. Kuttanad | 3435 | 3330 | 2136 | 3838 | 4199 | 3543 |
| 16. Ambalapuzha | 2662 | 1116 | 1221 | 400 | 639 | 1988 |
| 17. Shertallay | 1642 | 630 | 1627 | 806 | 1010 | 1695 |
| ALLEPPEY DISTRICT | | | | | | |
| 18. Changanacherry | 2265 | 2049 | 1954 | 2481 | 2589 | 2403 |
| 19. Kanjirappally | 2611 | 2572 | 2348 | 2591 | 2103 | 2108 |
| 20. Kottayam | 2156 | 2726 | 2701 | 5,001 | 3043 | 3475 |
| 21. Vaikom | 2391 | 2312 | 2913 | 3137 | 2447 | 3421 |
| 22. Meeanchil | 1993 | 1939 | 2605 | 2293 | 3042 | 3075 |
| | 2293 | 2729 | 2573 | 2864 | 2794 | 2205 |
| | 2303 | 2286 | 2678 | 2808 | 2630 | 2967 |
| KOTTAYAM DISTRICT | | | | | | |
| 23. Permade | .. | 2285 | .. | .. | 2304 | 2604 |
| 24. Devikolam | .. | 2284 | 2791 | 3434 | 2389 | 2916 |
| 25. Udumbanchola | .. | 2285 | 2588 | 3434 | 2304 | 2828 |
| 26. Theodupuzha | 2300 | 2286 | 2588 | 2811 | 2276 | 2532 |

IDUKKY DISTRICT

| | | | | | | |
|-------------------|------|------|------|------|------|------|
| 27. Kothamangalam | 2300 | 2285 | 2399 | 2899 | 2304 | 2649 |
| 28. Muvattupuzha | 2218 | 2318 | 2189 | 2348 | 2218 | 2368 |
| 29. Cochin | 2204 | 2338 | 2434 | 2636 | 2738 | 2819 |
| 30. Kanyakumari | 2149 | 2972 | 2397 | 1830 | 1676 | 2262 |
| 31. Kunnathunad | 1705 | 1668 | 1882 | 1883 | 1863 | 1553 |
| 32. Alwaye | 2294 | 2147 | 2476 | 2139 | 1946 | 2069 |
| 33. Perur | 2140 | 2576 | 2673 | 2307 | 2039 | 2148 |
| | 2077 | 1671 | 2796 | 1899 | 2288 | 2041 |
| | 2127 | 2312 | 2437 | 2204 | 2107 | 2169 |
| | 1130 | 959 | 678 | 597 | 826 | 825 |
| | 1498 | 1446 | 1907 | 1924 | 1613 | 1356 |
| | 1314 | 1878 | 2205 | 1804 | 1673 | 1992 |
| | 1803 | 1683 | 2007 | 1956 | 2220 | 2000 |
| | 846 | 832 | 1040 | 1604 | 1880 | 1517 |
| | 1479 | 1526 | 1903 | 1860 | 1855 | 1719 |
| | 3065 | 4726 | 3893 | 4246 | 3922 | 4572 |
| | 2634 | 3552 | 3585 | 4036 | 3426 | 3841 |
| | 3170 | 3856 | 3779 | 3971 | 3749 | 3503 |
| | 1802 | 2120 | 2046 | 2152 | 2069 | 2135 |
| | 2185 | 2111 | 2308 | 2348 | 2447 | 2157 |

ERNAKULAM DISTRICT

| | | | | | | |
|------------------|--|--|--|--|--|--|
| 34. Cranganore | | | | | | |
| 35. Mukundapuram | | | | | | |
| 36. Trichur | | | | | | |
| 37. Thalappally | | | | | | |
| 38. Chowghat | | | | | | |

TRICHUR DISTRICT

| | | | | | | |
|----------------|--|--|--|--|--|--|
| 39. Chittur | | | | | | |
| 40. Alathur | | | | | | |
| 41. Palghat | | | | | | |
| 42. Ottappalam | | | | | | |
| 43. Mannarghat | | | | | | |

| <i>Sl. No. Tahsil and District</i> | | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |
|------------------------------------|------------------|------|------|------|------|------|------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| PALGHAT DISTRICT | | | | | | | |
| 41. | Perinthalmanna | 2617 | 3435 | 3235 | 3481 | 3232 | 3440 |
| 42. | Perinthalmanna | 2291 | 2171 | 2585 | 1997 | 1935 | 2101 |
| 43. | Ponnani | 1281 | 1740 | 1931 | 2217 | 2128 | 1694 |
| 44. | Tirur | 1209 | 2028 | 1687 | 1598 | 1715 | 1563 |
| 45. | Ernad | 1425 | 1818 | 2159 | 2295 | 1941 | 1874 |
| MALAPPURAM DISTRICT | | | | | | | |
| 46. | Kozhikode | 1516 | 1939 | 2103 | 2041 | 1898 | 1820 |
| 47. | Quilandy | 818 | 1035 | 1174 | 1438 | 1222 | 1574 |
| 48. | Badagara | 1050 | 1058 | 1094 | 1270 | 1299 | 1270 |
| 49. | S. Wynad | 1236 | 1565 | 1145 | 1167 | 1465 | 1157 |
| 50. | S. Wynad | .. | 1156 | .. | 1167 | 1297 | 1286 |
| KOZHIKODE DISTRICT | | | | | | | |
| 51. | Vythiri | 987 | 1156 | 1142 | 1329 | 1297 | 1378 |
| 52. | Sultan's Battery | .. | .. | .. | .. | .. | .. |
| 53. | Mannanthavady | .. | .. | .. | .. | .. | .. |
| N. WYNAD | | | | | | | |
| 54. | Tellicherry | .. | 1894 | .. | 1823 | 1619 | 1286 |
| 55. | Cannanore | 1936 | 1695 | 1549 | 1823 | 1619 | 1887 |
| 56. | Taliparamba | 2189 | 1944 | 1981 | 1737 | 1768 | 2179 |
| 57. | Hosdurg | 1924 | 1812 | 1429 | 2001 | 1991 | 1508 |
| 58. | Kasargode | 2182 | 1944 | 1635 | 1916 | 2116 | 2339 |
| 59. | Kasargode | 2555 | 2028 | 2085 | 2251 | 2427 | 2100 |
| CANNANORE DISTRICT | | | | | | | |
| 60. | Cannanore | 2168 | 1894 | 1744 | 1970 | 2020 | 1989 |
| 61. | Cannanore | 2040 | 2300 | 2391 | 2481 | 2413 | 2442 |

TABLE 1.3

Estimated area under Mean Yield & Production of HYV & other varieties of paddy Autumn 1981

| District/State | High Yielding Varieties | | | | | Other varieties | | | | | All Varieties | |
|----------------|-------------------------|--|---------------------------------|--------|--------------------------------------|---|--------|--------------------------------------|---------------------------------|------|---------------|--|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | | |
| | Area | Mean yield (dry paddy) Kg./Hect. | Production of rice (M.T.) | Area | Mean yield dry paddy Kg./Hect. | Production of rice (M.R.) M.T. | Area | Mean yield dry paddy Kg./Hect. | Production of rice (M.T.) | | | |
| Trivandrum | 1087 | 2461 | 1758 | 13713 | 2103 | 18949 | 14800 | 2129 | 20707 | | | |
| Quilon | 11428 | 2998 | 22512 | 13112 | 1926 | 16590 | 24540 | 2425 | 39102 | | | |
| Alleppey | 17108 | 2978 | 33460 | 16989 | 1822 | 20279 | 34047 | 2403 | 53748 | | | |
| Kottayam | 11723 | 3123 | 24054 | 2712 | 2292 | 4084 | 14435 | 2967 | 28138 | | | |
| Idukki | 3126 | 2627 | 5395 | 368 | 2820 | 719 | 3514 | 2649 | 6114 | | | |
| Ernakulam | 16711 | 2339 | 25686 | 23391 | 2047 | 31452 | 40102 | 2169 | 57138 | | | |
| Trichur | 6569 | 1777 | 7671 | 35225 | 1708 | 39522 | 41794 | 1719 | 47193 | | | |
| Palghat | 58069 | 3888 | 148357 | 31975 | 2625 | 55149 | 90044 | 3440 | 203506 | | | |
| Malappuram | 6972 | 2244 | 10281 | 30544 | 1723 | 34579 | 37516 | 1820 | 44860 | | | |
| Kozhikode | 1331 | 1982 | 1733 | 8802 | 1288 | 7443 | 10133 | 1378 | 9176 | | | |
| Cannanore | 4817 | 2392 | 7570 | 31335 | 1927 | 39666 | 36152 | 1989 | 47236 | | | |
| State | 136941 | 3160 | 268486 | 208136 | 1963 | 268432 | 347077 | 2442 | 556918 | | | |

TABLE 1.4

District-wise yield rate for High Yielding and other varieties of paddy according to Cultural Practices during Autumn 1981

| District | Variety | Irrigated | | | | | | | | | | | |
|------------|---------|--------------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|
| | | Chemically manured | | | Other manured | | | Not manured | | | Total | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| | | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. |
| Trivandrum | H | 1 | 2993 | .. | .. | .. | .. | 1 | 2993 | 10 | 2276 | .. | .. |
| | O | 26 | 2283 | .. | .. | .. | .. | 26 | 2283 | 72 | 2060 | .. | .. |
| | T | 27 | 2311 | .. | .. | .. | .. | 27 | 2311 | 82 | 2088 | .. | .. |
| Quilon | H | 7 | 3249 | .. | .. | .. | .. | 7 | 3249 | 63 | 2925 | .. | .. |
| | O | 3 | 2052 | 1 | 1222 | .. | .. | 4 | 1846 | 56 | 2132 | .. | .. |
| | T | 10 | 2890 | 1 | 1222 | .. | .. | 11 | 2736 | 119 | 2551 | .. | .. |
| Alleppey | H | .. | .. | .. | .. | .. | .. | .. | .. | 66 | 2746 | .. | .. |
| | O | .. | .. | .. | .. | .. | .. | .. | .. | 88 | 1881 | .. | .. |
| | T | .. | .. | .. | .. | .. | .. | .. | .. | 154 | 2251 | .. | .. |
| Kottayam | H | —1 | 810 | .. | .. | .. | .. | 1 | —810 | 56 | 2923 | .. | .. |
| | O | 2 | 3254 | .. | .. | .. | .. | 2 | 3254 | 36 | 2383 | .. | .. |
| | T | 3 | 2437 | .. | .. | .. | .. | 3 | 2437 | 92 | 2711 | .. | .. |
| Idukki | H | 4 | 1590 | .. | .. | .. | .. | 4 | 1590 | 26 | 2600 | .. | .. |
| | O | 2 | 2699 | .. | .. | .. | .. | 2 | 2699 | 9 | 2659 | .. | .. |
| | T | 6 | 1959 | .. | .. | .. | .. | 6 | 1959 | 35 | 2616 | .. | .. |

TABLE 1.4—(Contd.)

| District | Variety | Unirrigated | | | | | | | | | | | | | | | | | | | | |
|------------|---------|---------------|------------------------------------|---------------|-------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|-------------------------|------------------------------------|-----------------------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|----|
| | | Other manured | | | Not manured | | | Total | | | | Treated with pesticides | | Not treated with pesticides | | | | | | | | |
| (1) | (2) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | |
| | | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in k.g./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | |
| Trivandrum | H | .. | .. | .. | .. | 10 | 2276 | 7 | 2088 | 4 | 2784 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | O | 5 | 1611 | .. | .. | 77 | 2032 | 31 | 2252 | 62 | 2029 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | T | 5 | 1611 | .. | .. | 87 | 2060 | 38 | 2220 | 76 | 2067 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Quilon | H | 5 | 1923 | .. | .. | 68 | 2851 | 13 | 2527 | 62 | 2963 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | O | 16 | 1494 | .. | .. | 72 | 1989 | 8 | 1846 | 68 | 2000 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | T | 21 | 1595 | .. | .. | 140 | 2408 | 21 | 2265 | 190 | 2460 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Alleppey | H | 2 | 156 | 2 | 586 | 70 | 2610 | 25 | 2600 | 45 | 2614 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | O | 20 | 1319 | 10 | 2474 | 118 | 1834 | 46 | 2220 | 72 | 1590 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | T | 22 | 1210 | 12 | 2159 | 188 | 2122 | 71 | 2353 | 117 | 1983 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Kottayam | H | 2 | 3035 | 3 | 583 | 61 | 2812 | 39 | 2725 | 23 | 2873 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | O | .. | .. | 1 | 234 | 37 | 2322 | 23 | 2758 | 16 | 1814 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | T | 2 | 3035 | 4 | 497 | 98 | 2628 | 62 | 2740 | 99 | 2437 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Idukki | JH | .. | .. | .. | .. | 26 | 2600 | 23 | 2417 | 7 | 2626 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | O | .. | .. | .. | .. | 9 | 2659 | 9 | 2610 | 2 | 2922 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | T | .. | .. | .. | .. | 35 | 2616 | 32 | 2470 | 9 | 2693 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |

TABLE 1.4—(Contd.)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
|------------|-----|-----|------|-----|------|-----|------|-----|------|------|------|
| Ernakulam | H | 31 | 2429 | 1 | 1478 | .. | .. | 32 | 2401 | 47 | 2369 |
| | O | 24 | 1964 | .. | .. | 1 | 1338 | 25 | 1940 | 48 | 2404 |
| | T | 55 | 2225 | 1 | 1478 | 1 | 1333 | 57 | 2196 | 95 | 2387 |
| Trichur | H | 3 | 2133 | .. | .. | .. | .. | 3 | 2133 | 20 | 2171 |
| | O | 3 | 2391 | 2 | 2120 | .. | .. | -5 | 2281 | 42 | 1602 |
| | T | 6 | 2264 | 2 | 2120 | .. | .. | 8 | 2226 | 62 | 1784 |
| Palghat | H | 1 | 3493 | 1 | 0.00 | .. | .. | 2 | 1747 | 65 | 3836 |
| | O | 4 | 3689 | .. | .. | .. | .. | 4 | 3689 | 43 | 2877 |
| | T | 5 | 3651 | 1 | 0.00 | .. | .. | 6 | 3042 | 108 | 3455 |
| Malappuram | H | .. | .. | .. | .. | .. | .. | .. | .. | 23 | 2260 |
| | O | 1 | 769 | 1 | 659 | .. | .. | 2 | 714 | 34 | 1691 |
| | T | 1 | 769 | 1 | 659 | .. | .. | 2 | 714 | 57 | 1918 |
| Kozhikode | H | .. | .. | .. | .. | .. | .. | .. | .. | 17 | 1954 |
| | O | 1 | 1674 | 1 | 1635 | .. | .. | 2 | 1657 | 10 | 1473 |
| | T | 1 | 1674 | 1 | 1635 | .. | .. | 2 | 1657 | 27 | 1777 |
| Cannanore | H | 1 | 2149 | 1 | 1044 | .. | .. | 2 | 1598 | 33 | 2480 |
| | O | 2 | 2189 | .. | .. | .. | .. | 2 | 2189 | 43 | 1976 |
| | T | 3 | 2174 | 1 | 1044 | .. | .. | 4 | 1894 | 76 | 2196 |
| State | H | 49 | 2446 | 3 | 827 | .. | .. | 52 | 2356 | 426 | 2795 |
| | O | 68 | 2251 | 5 | 1564 | 1 | 1326 | 74 | 2192 | 481 | 2094 |
| | T | 117 | 2335 | 8 | 1288 | 1 | 1326 | 126 | 2253 | 907 | 2426 |

TABLE 1.4—(Contd.)

| (1) | (2) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) |
|------------|-----|------|------|------|------|------|------|------|------|------|------|
| Ernakulam | H | .. | .. | 1 | 739 | 48 | 2337 | 58 | 2503 | 22 | 1992 |
| | O | 14 | 1306 | 31 | 1799 | 93 | 2038 | 34 | 2415 | 84 | 1855 |
| | T | 14 | 1306 | 32 | 1767 | 141 | 2140 | 92 | 2471 | 106 | 1883 |
| Trichur | H | 3 | 713 | 2 | 2614 | 25 | 2031 | 19 | 2137 | 9 | 1845 |
| | O | 52 | 1458 | 10 | 1413 | 104 | 1513 | 32 | 1660 | 77 | 1499 |
| | T | 55 | 1417 | 12 | 1612 | 129 | 1612 | 51 | 1835 | 86 | 1537 |
| Palghat | H | 4 | 2660 | 1 | 1033 | 70 | 3731 | 16 | 3287 | 56 | 3784 |
| | O | 23 | 1904 | 4 | 2625 | 70 | 2541 | 15 | 3010 | 59 | 2499 |
| | T | 27 | 2016 | 5 | 2307 | 140 | 3136 | 31 | 3154 | 115 | 3126 |
| Malappuram | H | 5 | 2387 | 1 | 4785 | 29 | 2367 | 14 | 2084 | 15 | 2632 |
| | O | 36 | 1746 | 6 | 1266 | 76 | 1684 | 9 | 2042 | 69 | 1608 |
| | T | 41 | 1825 | 7 | 1770 | 105 | 1873 | 23 | 2067 | 84 | 1791 |
| Kozhikode | H | 2 | 2414 | 3 | 1883 | 22 | 1986 | 12 | 1982 | 10 | 1993 |
| | O | 45 | 1235 | 5 | 966 | 60 | 1252 | 2 | 1083 | 60 | 1271 |
| | T | 47 | 1285 | 8 | 1309 | 82 | 1448 | 14 | 1851 | 70 | 1374 |
| Cannanore | H | 9 | 2592 | 1 | 792 | 43 | 2462 | 9 | 2700 | 36 | 2358 |
| | O | 55 | 1962 | 4 | 1156 | 102 | 1937 | 9 | 2196 | 95 | 1915 |
| | T | 64 | 2048 | 5 | 1084 | 145 | 2092 | 18 | 2488 | 131 | 2038 |
| State | H | 32 | 2125 | 14 | 1511 | 472 | 2712 | 235 | 2509 | 289 | 2813 |
| | O | 266 | 1581 | 71 | 1728 | 818 | 1899 | 218 | 2275 | 674 | 1808 |
| | T | 298 | 1640 | 85 | 1693 | 1290 | 2195 | 453 | 2398 | 963 | 2108 |

TABLE 2.1

Estimates of Area Mean Yield Production of rice winter Paddy for the year 1982 (All varieties)

| Sl. No. | Taluk and District | No. of exhibits Planned | Analyse | Area (Hect.) | Mean yield of dry paddy Kg./hect | Std. error | Production of rice (Tonnes) | % sample error |
|---------|----------------------------|-------------------------|---------|--------------|----------------------------------|------------|-----------------------------|----------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1. | Neyyattinkara | 30 | 30 | 3699 | 2148 | 107 | 5221 | .. |
| 2. | Trivandrum | 21 | 23 | 2908 | 2156 | 219 | 4119 | .. |
| 3. | Nedumangad | 30 | 30 | 3968 | 2568 | 108 | 6694 | .. |
| 4. | Chirayinkil | 30 | 30 | 4293 | 2433 | 95 | 6863 | .. |
| | TRIVANDRUM DISTRICT | 114 | 113 | 14868 | 2844 | 64 | 22897 | 2.73 |
| 5. | Coilun | 24 | 24 | 3858 | 1965 | 136 | 4981 | .. |
| 6. | Kottarakkara | 30 | 30 | 6001 | 3079 | 132 | 12141 | .. |
| 7. | Kunnathur | 30 | 30 | 4903 | 3043 | 99 | 9814 | .. |
| 8. | Pathanamparam | 24 | 24 | 3861 | 3141 | 154 | 7969 | .. |
| 9. | Pathanamthitta | 20 | 20 | 2232 | 2816 | 217 | 4129 | .. |
| 10. | Kannagappally | 24 | 22 | 4227 | 1562 | 96 | 4339 | .. |
| | QUILON DISTRICT | 152 | 150 | 25087 | 2631 | 57 | 43371 | 2.17 |
| 11. | Karthigappally | 24 | 24 | 4806 | 1799 | 156 | 5799 | .. |
| 12. | Mavelikara | 30 | 29 | 5922 | 1994 | 110 | 7758 | .. |
| 13. | Chengannur | 24 | 23 | 2783 | 3157 | 203 | 5773 | .. |

| | | | | | | | |
|--------------------------|-----|-----|-------|-------|-----|-------|------|
| 14. Thiruvalla | 24 | 24 | 1051 | 3196 | 180 | 2207 | .. |
| 15. Kuttanad | 30 | 30 | 5928 | 4304 | 117 | 17076 | .. |
| 16. Ambalapuzha | 30 | 30 | 3075 | 2502 | 305 | 5055 | .. |
| 17. Shertalay | 30 | 29 | 2566 | 741 | 94 | 1249 | .. |
| ALLEPPEY DISTRICT | 192 | 189 | 26231 | 26806 | 64 | 44917 | 2.46 |
| 18. Changanacherry | 20 | 20 | 1108 | 4037 | 364 | 2939 | .. |
| 19. Kanjirappally | 6 | 6 | 145 | 2771 | 290 | 264 | .. |
| 20. Kottayam | 30 | 30 | 3821 | 2419 | 138 | 6072 | .. |
| 21. Vaikom | 24 | 24 | 5039 | 2272 | 197 | 7522 | .. |
| 22. Meezechil | 24 | 24 | 2591 | 2575 | 175 | 4383 | .. |
| KOTTAYAM DISTRICT | 104 | 104 | 12704 | 2507 | 101 | 21180 | 4.03 |
| 23. Peermade | 12 | 12 | 63 | 3962 | 220 | 165 | .. |
| 24. Devicolum | 12 | 12 | 1250 | 2971 | 131 | 2440 | .. |
| 25. Udumbanchola | 12 | 12 | 1170 | 3279 | 144 | 2521 | .. |
| 26. Thodupuzha | 30 | 29 | 2635 | 2612 | 70 | 4556 | .. |
| IDUKKI DISTRICT | 66 | 65 | 5138 | 2868 | 82 | 9682 | 2.86 |
| 27. Kothamangalam | 30 | 30 | 4086 | 2402 | 91 | 6448 | .. |
| 28. Muvaattupuzha | 30 | 30 | 6103 | 2735 | 137 | 10967 | .. |
| 29. Cochin | .. | .. | .. | .. | .. | .. | .. |
| 30. Kanayannur | 30 | 29 | 3773 | 1585 | 128 | 3930 | .. |
| 31. Kunnathunad | 30 | 30 | 13813 | 2413 | 90 | 21896 | .. |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|-----|---------------------------|-----|-----|-------|------|-----|--------|------|
| 32. | Alwaye | 30 | 30 | 9598 | 2081 | 96 | 13123 | .. |
| 33. | Parur | 30 | 30 | 4006 | 2511 | 162 | 6610 | .. |
| | ERNAKULAM DISTRICT | 180 | 179 | 41379 | 2316 | 48 | 62974 | 2.07 |
| 34. | Caanganore | 20 | 20 | 2286 | 1663 | 124 | 2498 | .. |
| 35. | Mukundapuram | 30 | 30 | 16515 | 1859 | 181 | 20175 | .. |
| 36. | Trichur | 30 | 30 | 15811 | 2452 | 165 | 25475 | .. |
| 37. | Thalappally | 30 | 30 | 14509 | 2330 | 130 | 22786 | .. |
| 38. | Chowghat | 30 | 30 | 2449 | 2098 | 167 | 3376 | .. |
| | TRICHUR DISTRICT | 140 | 140 | 51570 | 2193 | 87 | 74310 | 3.96 |
| 39. | Chittur | 30 | 29 | 17130 | 3286 | 211 | 36983 | .. |
| 40. | Alathur | 30 | 29 | 26448 | 3883 | 122 | 67482 | .. |
| 41. | Palghat | 30 | 30 | 18425 | 2862 | 155 | 34648 | .. |
| 42. | Ottappalam | 30 | 28 | 17664 | 2274 | 94 | 26391 | .. |
| 43. | Mannarghat | 30 | 30 | 7149 | 2031 | 144 | 9539 | .. |
| | PALGHAT DISTRICT | 150 | 146 | 86816 | 3069 | 69 | 175043 | 2.25 |
| 44. | Perinthalmanna | 30 | 30 | 6810 | 2372 | 121 | 10613 | .. |
| 45. | Ponnani | 24 | 24 | 4171 | 1831 | 83 | 5017 | .. |
| 46. | Tirur | 30 | 29 | 10285 | 2019 | 145 | 18645 | .. |
| 47. | Ernad | 30 | 28 | 14564 | 2401 | 118 | 22973 | .. |

| | | | | | | | | | |
|----------------------------|------------------|------|------|--------|------|-----|--------|------|--|
| MALAPPURAM DISTRICT | | | | | | | | | |
| 48. | Kozhikode. | 114 | 111 | 35830 | 2219 | 68 | 52248 | 3.06 | |
| 49. | Quilandy | 30 | 30 | 6406 | 1653 | 189 | 6958 | .. | |
| 50. | Badagara | 30 | 30 | 4756 | 1585 | 163 | 4953 | .. | |
| | | 24 | 21 | 2872 | 1333 | 123 | 2516 | .. | |
| KOZHIKODE DISTRICT | | | | | | | | | |
| | | 84 | 81 | 14034 | 1565 | 105 | 15427 | 6.71 | |
| 51. | Vythiri | 20 | 20 | 5424 | 2864 | 148 | 10206 | .. | |
| 52. | Sultan's Battery | 20 | 20 | 8116 | 2642 | 240 | 14088 | .. | |
| 53. | Mananthavady | 20 | 20 | 9153 | 2963 | 218 | 17815 | .. | |
| WYNAD DISTRICT | | | | | | | | | |
| | | 60 | 60 | 22693 | 2824 | 127 | 42109 | 4.50 | |
| 54. | Tellicherry | 30 | 30 | 4197 | 1446 | 178 | 3988 | .. | |
| 55. | Cannanore | 30 | 30 | 3040 | 1839 | 183 | 3673 | .. | |
| 56. | Taliparamba | 30 | 30 | 4117 | 1977 | 143 | 5347 | .. | |
| 57. | Hosdurg | 30 | 30 | 3124 | 2384 | 170 | 4894 | .. | |
| 58. | Kasargode | 30 | 29 | 5246 | 2348 | 78 | 8094 | .. | |
| CANNANORE DISTRICT | | | | | | | | | |
| | | 150 | 149 | 19724 | 2006 | 65 | 25996 | 3.24 | |
| STATE | | | | | | | | | |
| | | 1506 | 1487 | 356074 | 2518 | 26 | 589154 | 1.03 | |

TABLE 2.2

Estimates of Mean Yield of Dry Paddy (Kg/hect.) during Winter season from 1977 to 1982

| Sl. No. | Taluk and District | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---------|----------------------------|------|------|------|------|------|------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Neyyattinkara | 2453 | 2052 | 1981 | 1816 | 2162 | 2148 |
| 2. | Trivandrum | 2086 | 2044 | 2257 | 1804 | 1941 | 2156 |
| 3. | Nedumangad | 2156 | 2027 | 2238 | 2207 | 2078 | 2568 |
| 4. | Chirayinkil | 2434 | 2524 | 2569 | 2552 | 2208 | 2433 |
| | TRIVANDRUM DISTRICT | 2280 | 2167 | 2466 | 2115 | 2111 | 2344 |
| 5. | Quilon | 2571 | 2288 | 2509 | 2649 | 2098 | 1965 |
| 6. | Kottarakkara | 2837 | 2482 | 2859 | 3419 | 2888 | 3079 |
| 7. | Kunnathur | 2669 | 2369 | 2289 | 2633 | 2456 | 3043 |
| 8. | Fathanapuram | 2842 | 2924 | 2678 | 2998 | 2976 | 3141 |
| 9. | Pathanamthitta | 2858 | 2485 | 2103 | 2794 | 2401 | 2816 |
| 10. | Karunagappally | 2080 | 1570 | 2302 | 1775 | 2229 | 1562 |
| | QUILON DISTRICT | 2628 | 2334 | 2504 | 2741 | 2539 | 2631 |
| 11. | Karthigappally | 1803 | 1207 | 2012 | 2086 | 1843 | 1799 |
| 12. | Mavelikara | 2096 | 2101 | 1761 | 2004 | 2181 | 1994 |
| 13. | Chengannur | 3008 | 2244 | 1795 | 2615 | 3018 | 3157 |
| 14. | Thiruvalla | 2840 | 2839 | 2951 | 2576 | 2483 | 3196 |

| | | | | | | | |
|--------------------------|----------------|------|------|------|------|------|------|
| 15. | Kuttanad | 3782 | 3874 | 3496 | 3506 | 3298 | 4384 |
| 16. | Ambalapuzha | 2151 | 1943 | 732 | 630 | 824 | 2502 |
| 17. | Sertalayi | 785 | 979 | 808 | 621 | 1169 | 741 |
| ALLEPPEY DISTRICT | | | | | | | |
| 18. | Changanacherry | 2820 | 2458 | 1851 | 1808 | 2204 | 2606 |
| 16. | Kanjirappally | 3191 | 2670 | 2583 | 2123 | 2525 | 4037 |
| 20. | Kottayam | 1911 | 2372 | 2247 | 2554 | 2848 | 2771 |
| 21. | Vaikom | 2590 | 2529 | 2081 | 2801 | 3108 | 2419 |
| 22. | Meenachil | 1916 | 1921 | 2099 | 2050 | 2558 | 2272 |
| | | 2547 | 2675 | 2545 | 2647 | 2692 | 2575 |
| KOTTAYAM DISTRICT | | | | | | | |
| 23. | Peerimadé | 2344 | 2323 | 2176 | 2373 | 2724 | 2507 |
| 24. | Devicolam | 3196 | 3107 | 2263 | 3392 | 3865 | 3962 |
| 25. | Udumbanchola | 2362 | 3943 | 2712 | 3427 | 3370 | 2971 |
| 26. | Thodupuzha | 2077 | 2382 | 3297 | 3072 | 3302 | 3279 |
| | | 2403 | 2428 | 2681 | 2772 | 2265 | 2612 |
| | | 2338 | 2803 | 2837 | 2974 | 2791 | 2868 |
| 27. | Kothamangalam | 2697 | 2118 | 2147 | 2263 | 2310 | 2402 |
| 28. | Muvattupuzha | 2100 | 2215 | 2575 | 2541 | 2775 | 2735 |
| 29. | Cochin | .. | .. | .. | .. | .. | .. |
| 30. | Kanayannur | 1088 | 1826 | 1750 | 1763 | 1839 | 1585 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-----|---------------------------|------|------|------|------|------|------|
| 31. | Kunnathunad | 2009 | 1962 | 2258 | 2335 | 2132 | 2413 |
| 32. | Alwaye | 2227 | 1781 | 2344 | 1750 | 2172 | 2081 |
| 33. | Parur | 2204 | 2218 | 2357 | 1686 | 1600 | 2511 |
| | ERNAKULAM DISTRICT | | | | | | |
| 34. | Cranganore | 2102 | 1986 | 2289 | 2102 | 2190 | 2316 |
| 35. | Mukundapuram | 1309 | 1213 | 1470 | 1142 | 823 | 1663 |
| 36. | Trichur | 1853 | 1742 | 2048 | 2064 | 2117 | 1859 |
| 37. | Thalappally | 2363 | 2033 | 2227 | 2176 | 1795 | 2452 |
| 38. | Chowghat | 2248 | 1992 | 2179 | 2143 | 2245 | 2390 |
| 39. | Chittur | 1330 | 1211 | 911 | 1942 | 1063 | 2098 |
| | TRICHUR DISTRICT | | | | | | |
| 40. | Alathur | 2037 | 1822 | 2018 | 2070 | 1931 | 2193 |
| 41. | Palghat | 3188 | 3090 | 3043 | 3453 | 3081 | 3286 |
| 42. | Ottappalam | 3035 | 3476 | 3163 | 3061 | 2959 | 3883 |
| 43. | Mannarghat | 2894 | 3451 | 3481 | 3754 | 3465 | 2862 |
| 44. | Perinthalmanna | 2226 | 2322 | 2114 | 2242 | 2136 | 2274 |
| 45. | Ponnani | 2481 | 2129 | 2252 | 2228 | 3798 | 2031 |
| 46. | Tirur | 2783 | 2994 | 2887 | 3038 | 2994 | 3069 |
| 47. | Ernad | 2285 | 2286 | 2185 | 1998 | 2158 | 2372 |
| | PALGHAT DISTRICT | | | | | | |
| 48. | Ponnani | 2135 | 1732 | 1902 | 1471 | 1891 | 1831 |
| 49. | Tirur | 1960 | 1879 | 1595 | 1565 | 2070 | 2019 |
| 50. | Ernad | 1890 | 1958 | 2222 | 2217 | 2227 | 2401 |

MALAPPURAM DISTRICT

| | | | | | | |
|---------------|------|------|------|------|------|------|
| 48. Kozhikode | 2006 | 1961 | 2010 | 1921 | 2136 | 2219 |
| 49. Quilandy | 1639 | 1784 | 1762 | 1511 | 1683 | 1653 |
| 50. Badagara | 1349 | 1163 | 1490 | 1062 | 1383 | 1585 |
| South Wynad | 1356 | 1505 | 1151 | 1219 | 1365 | 1333 |
| | 2296 | 2762 | 2886 | 2621 | 2300 | .. |
| | 1847 | 2083 | 2208 | 1931 | 1901 | 1565 |

KOZHIKODE DISTRICT

| | | | | | | |
|----------------------|----|----|----|----|----|------|
| 51. Vythiri | .. | .. | .. | .. | .. | 2864 |
| 52. Sultan's Battery | .. | .. | .. | .. | .. | 2642 |
| 53. Mananthavady | .. | .. | .. | .. | .. | 2963 |
| | .. | .. | .. | .. | .. | 2824 |

WYNAD DISTRICT

| | | | | | | |
|-----------------|------|------|------|------|------|------|
| North Wynad | 2474 | 2526 | 1905 | 2617 | 2132 | .. |
| 54. Tellicherry | 1902 | 1718 | 1643 | 1688 | 1927 | 1446 |
| 55. Gannanore | 1608 | 1653 | 1194 | 1710 | 1783 | 4839 |
| 56. Taliparamba | 1981 | 1981 | 1551 | 2290 | 1688 | 1977 |
| 57. Hosdurg | 2239 | 2025 | 1896 | 1828 | 1916 | 2284 |
| 58. Kasargode | 2649 | 2148 | 2298 | 2312 | 2059 | 2348 |

CANNANORE DISTRICT

| | | | | | | |
|-------|------|------|------|------|------|------|
| | 2243 | 2088 | 2038 | 2213 | 1962 | 2006 |
| STATE | 2944 | 2295 | 2333 | 2359 | 2357 | 2518 |

TABLE 2.3

Estimated Area, Mean yield and production of high yielding and other varieties of paddy Winter—1982

| District | High yielding varieties | | | Other varieties | | | All varieties | | |
|------------|-------------------------|-----------------------------------|-------------------|-----------------|-----------------------------------|-------------------|---------------|-----------------------------------|-------------------|
| | Area in (Hect.) | Mean yield of dry paddy Kg./hect. | Production tonnes | Area (Hect.) | Mean yield of dry paddy Kg./hect. | Production tonnes | Area (Hect.) | Mean yield of dry paddy Kg./hect. | Production tonnes |
| Trivandrum | 300 | 2668 | 526 | 14568 | 2337 | 22371 | 14868 | 2344 | 22897 |
| Quilon | 1189 | 2217 | 1732 | 23898 | 2652 | 41639 | 25087 | 2631 | 43371 |
| Alleppey | 3578 | 3792 | 8915 | 22653 | 2419 | 36002 | 26231 | 2606 | 44917 |
| Kottayam | 10137 | 2619 | 17445 | 2567 | 2215 | 3735 | 12704 | 2507 | 21180 |
| Idukki | 1231 | 3006 | 2431 | 3907 | 2825 | 7251 | 5138 | 2868 | 9682 |
| Ernakulam | 2275 | 2565 | 3834 | 39104 | 2302 | 59140 | 41379 | 2316 | 62974 |
| Trichur | 10140 | 2905 | 19351 | 41430 | 2019 | 54959 | 51570 | 2193 | 74310 |
| Palghat | 34860 | 3054 | 69960 | 51956 | 3078 | 105083 | 86816 | 3069 | 175043 |
| Malappuram | 3959 | 2546 | 6622 | 31871 | 2179 | 45626 | 35830 | 2219 | 52248 |
| Kozhikode | 1407 | 2398 | 2217 | 12627 | 1472 | 12210 | 14034 | 1565 | 14427 |
| Wynad | 1973 | 3167 | 4105 | 20720 | 2792 | 38004 | 22693 | 2824 | 42109 |
| Cannanore | 2530 | 2662 | 4425 | 17194 | 1909 | 21571 | 19724 | 2006 | 25996 |
| State | 73579 | 2928 | 141563 | 282495 | 2411 | 447591 | 356074 | 2518 | 589154 |

TABLE 2.4

District-wise yield rate for high yielding and other varieties of paddy according to cultural practices: Winter—1982

| District | Varieties | Irrigated | | | | | | | | | | | | | | |
|------------|-----------|--------------------|------------------------------------|-----|---------------|------------------------------------|-----|---------------|------------------------------------|-----|---------------|------------------------------------|--------------------|---------------|------------------------------------|------|
| | | Chemically manured | | | Other manured | | | Not manured | | | Total | | Chemically manured | | | |
| | | No. of expts. | Mean yield of dry paddy in kg./ht. | (4) | No. of expts. | Mean yield of dry paddy in kg./ht. | (6) | No. of expts. | Mean yield of dry paddy in kg./ht. | (8) | No. of expts. | Mean yield of dry paddy in kg./ht. | (10) | No. of expts. | Mean yield of dry paddy in kg./ht. | (11) |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | | | |
| Trivandrum | H | 2 | 2575 | 1 | 874 | .. | .. | .. | .. | 3 | 2009 | 5 | 2436 | | | |
| | O | 38 | 2152 | .. | .. | .. | .. | .. | .. | 38 | 2152 | 67 | 2420 | | | |
| | T | 40 | 2174 | 1 | 874 | .. | .. | .. | .. | 41 | 2142 | 72 | 2421 | | | |
| Quilon | H | 4 | 3040 | .. | .. | .. | .. | .. | .. | 4 | 3040 | 7 | 2286 | | | |
| | O | 22 | 3113 | 1 | 1851 | .. | .. | .. | .. | 23 | 3058 | 95 | 2665 | | | |
| | T | 26 | 3102 | 1 | 1851 | .. | .. | .. | .. | 27 | 3056 | 102 | 2639 | | | |
| Alleppey | H | 15 | 3985 | 1 | 810 | .. | .. | .. | .. | 16 | 3784 | 21 | 3182 | | | |
| | O | 11 | 2953 | 1 | 1996 | .. | .. | .. | .. | 12 | 2873 | 96 | 2876 | | | |
| | T | 26 | 3549 | 2 | 1403 | .. | .. | .. | .. | 28 | 3395 | 117 | 2931 | | | |
| Kottayam | H | 17 | 2448 | .. | .. | .. | .. | .. | .. | 18 | 2471 | 52 | 2984 | | | |
| | O | 13 | 2518 | .. | .. | .. | .. | .. | .. | 13 | 2518 | 20 | 2141 | | | |
| | T | 30 | 2478 | .. | .. | .. | .. | .. | .. | 31 | 2490 | 72 | 2750 | | | |
| Idukki | H | 7 | 2672 | .. | .. | .. | .. | .. | .. | 7 | 2672 | 13 | 3445 | | | |
| | O | 18 | 2671 | 1 | 3507 | .. | .. | .. | .. | 19 | 2715 | 19 | 3117 | | | |
| | T | 25 | 2671 | 1 | 3507 | .. | .. | .. | .. | 26 | 2703 | 32 | 3250 | | | |

TABLE 2.4. (Contd.)

| | | Un Irrigated | | | | | | | | | | | | | | | |
|------------|-----------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|-------------------------|------------------------------------|-----------------------------|------------------------------------|
| | | Other manured | | | | Not manured | | | | Total | | | | Treated with Pesticides | | Not treated with Pesticides | |
| District | Varieties | No of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. | No. of expts. | Mean yield of dry paddy in kg./ht. |
| (1) | (2) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | (24) | (25) | (26) | (27) | (28) |
| Trivandrum | H | .. | .. | .. | .. | 5 | 2436 | 7 | 2273 | 1 | 2294 | | | | | | |
| | O | .. | .. | .. | .. | 67 | 2420 | 45 | 2277 | 60 | 2357 | | | | | | |
| | T | .. | .. | .. | .. | 72 | 2421 | 52 | 2277 | 61 | 2356 | | | | | | |
| | H | 1 | 1246 | .. | .. | 8 | 2154 | 6 | 2620 | 6 | 2278 | | | | | | |
| Quilon | O | 20 | 2114 | .. | .. | 115 | 2569 | 31 | 2585 | 107 | 2669 | | | | | | |
| | T | 21 | 2072 | .. | .. | 123 | 2542 | 37 | 2591 | 113 | 2649 | | | | | | |
| | H | .. | .. | 1 | 458 | 22 | 3058 | 34 | 3353 | 4 | 1782 | | | | | | |
| Alleppey | O | 30 | 1081 | 13 | 692 | 139 | 2285 | 69 | 3353 | 82 | 1472 | | | | | | |
| | T | 30 | 1081 | 14 | 675 | 161 | 2390 | 103 | 3418 | 86 | 1486 | | | | | | |
| | H | .. | .. | .. | .. | 52 | 2984 | 61 | 2848 | 9 | 2880 | | | | | | |
| Kottayam | O | 1 | 2202 | .. | .. | 21 | 2144 | 28 | 2329 | 6 | 2090 | | | | | | |
| | T | 1 | 2202 | .. | .. | 73 | 2742 | 89 | 2684 | 15 | 2564 | | | | | | |
| | H | 1 | 4058 | .. | .. | 14 | 3489 | 17 | 3229 | 4 | 3160 | | | | | | |
| Idukki | O | 5 | 3004 | 1 | 5055 | 25 | 3172 | 30 | 3019 | 14 | 2881 | | | | | | |
| | T | 6 | 3180 | 1 | 5055 | 39 | 3286 | 47 | 3095 | 18 | 2943 | | | | | | |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
|------------|-----|-----|------|-----|------|-----|------|-----|------|------|------|
| Ernakulam | H | 11 | 2320 | .. | .. | .. | .. | 11 | 2320 | 1 | 1895 |
| | O | 102 | 2389 | 3 | 2892 | 5 | 2426 | 110 | 2405 | 46 | 2228 |
| | T | 113 | 2383 | 3 | 2892 | 5 | 2426 | 121 | 2397 | 47 | 2221 |
| Trichur | H | 22 | 3279 | 2 | 2828 | 1 | 719 | 25 | 3140 | 3 | 2065 |
| | O | 45 | 2117 | 7 | 2162 | 7 | 2617 | 59 | 2182 | 25 | 1933 |
| | T | 67 | 2499 | 9 | 2310 | 8 | 2380 | 84 | 2467 | 28 | 1947 |
| Palghat | H | 49 | 3245 | 3 | 1532 | .. | .. | 52 | 3146 | 6 | 1583 |
| | O | 50 | 3383 | 10 | 1947 | .. | .. | 60 | 3144 | 18 | 2325 |
| | T | 99 | 3315 | 13 | 1861 | .. | .. | 112 | 3145 | 24 | 2139 |
| Malappuram | H | 12 | 2698 | .. | .. | .. | .. | 12 | 2698 | 7 | 1867 |
| | O | 22 | 2295 | 13 | 2233 | .. | .. | 35 | 2272 | 37 | 2214 |
| | T | 34 | 2437 | 13 | 2233 | .. | .. | 47 | 2381 | 44 | 2159 |
| Kozhikode | H | 3 | 3382 | .. | .. | .. | .. | 3 | 3382 | 7 | 2421 |
| | O | 7 | 1481 | 4 | 1432 | .. | .. | 11 | 1463 | 17 | 1735 |
| | T | 10 | 2051 | 4 | 1432 | .. | .. | 14 | 1874 | 24 | 1935 |
| Wynad | H | .. | .. | .. | .. | .. | .. | .. | .. | 7 | 3171 |
| | O | 1 | 1237 | .. | .. | .. | .. | 1 | 2237 | 39 | 2943 |
| | T | 1 | 2237 | .. | .. | .. | .. | 1 | 2237 | 46 | 2978 |
| Cannanore | H | 31 | 2756 | 2 | 1766 | .. | .. | 33 | 2696 | 13 | 2839 |
| | O | 56 | 2225 | 14 | 1853 | 1 | 860 | 71 | 2132 | 20 | 1858 |
| | T | 87 | 2414 | 16 | 1842 | 1 | 860 | 104 | 2311 | 33 | 2008 |
| State | H | 173 | 3008 | 9 | 1790 | 2 | 1782 | 184 | 2932 | 142 | 2773 |
| | O | 385 | 2490 | 54 | 2045 | 13 | 2422 | 452 | 2735 | 499 | 2520 |
| | T | 558 | 2651 | 63 | 1998 | 15 | 2337 | 636 | 2579 | 641 | 2576 |

| (1) | (2) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) |
|------------|-----|------|------|------|------|------|------|------|------|------|------|
| Ernakulam | H | .. | .. | .. | .. | 1 | 1895 | 10 | 2082 | 2 | 3298 |
| | O | 6 | 1513 | 5 | 1506 | 57 | 2089 | 79 | 2537 | 83 | 2081 |
| | T | 6 | 1513 | 5 | 1606 | 58 | 2086 | 89 | 2486 | 90 | 2108 |
| Trichur | H | .. | .. | .. | .. | 3 | 2065 | 23 | 3262 | 5 | 1933 |
| | O | 22 | 1302 | 6 | 414 | 53 | 1499 | 50 | 2047 | 62 | 1707 |
| | T | 22 | 1302 | 6 | 414 | 56 | 1530 | 73 | 2430 | 67 | 1724 |
| Palghat | H | 1 | 2178 | .. | .. | 7 | 1668 | 27 | 3354 | 32 | 2648 |
| | O | 9 | 2195 | .. | .. | 27 | 2282 | 14 | 3087 | 73 | 2836 |
| | T | 10 | 2193 | .. | .. | 34 | 2155 | 41 | 3263 | 105 | 2779 |
| Malappuram | H | 1 | 2748 | .. | .. | 8 | 1977 | 17 | 2369 | 3 | 2640 |
| | O | 15 | 1877 | 4 | 1299 | 56 | 2058 | 30 | 2265 | 61 | 2079 |
| | T | 16 | 1931 | 4 | 1299 | 64 | 2048 | 47 | 3303 | 64 | 2106 |
| Kozhikode | H | 1 | 1853 | .. | .. | 8 | 2350 | 9 | 2750 | 2 | 2098 |
| | O | 33 | 1442 | 9 | 1325 | 59 | 1509 | 18 | 1821 | 52 | 1391 |
| | T | 34 | 1454 | 9 | 1325 | 67 | 1609 | 27 | 2131 | 54 | 1417 |
| Wynad | H | .. | .. | .. | .. | 7 | 3171 | 4 | 3564 | 3 | 2647 |
| | O | 12 | 2596 | 1 | 2399 | 52 | 2853 | 9 | 3149 | 44 | 2778 |
| | T | 12 | 2596 | 1 | 2399 | 59 | 2490 | 13 | 3277 | 47 | 2770 |
| Cannanore | H | .. | .. | .. | .. | 13 | 2239 | 40 | 2836 | 6 | 2111 |
| | O | 10 | 1338 | 2 | 778 | 32 | 1628 | 60 | 2033 | 43 | 1896 |
| | T | 10 | 1338 | 2 | 778 | 45 | 1804 | 100 | 2274 | 49 | 1922 |
| State | H | 5 | 2401 | 1 | 467 | 148 | 2745 | 255 | 2947 | 77 | 2523 |
| | O | 163 | 1651 | 41 | 1100 | 703 | 2236 | 463 | 2631 | 692 | 2169 |
| | T | 168 | 1674 | 42 | 1085 | 851 | 2325 | 718 | 2679 | 769 | 2204 |

Estimates of Area Mean Yield Production of Rice—Summer Paddy for the year 1982

| Sl. No. | Taluk and District | No. of Planned | Expts. Analysed | Area (Hect.) | Mean yield of dry paddy Kg./hect. | Std. error | Production of rice (tonnes) | Percentage Sample error |
|----------------------------|--------------------|----------------|-----------------|--------------|-----------------------------------|------------|-----------------------------|-------------------------|
| | | | | | | | | |
| 1. | Neyyattinkara | 24 | 22 | 365 | 1872 | 151 | 449 | |
| 2. | Trivandrum | 24 | 23 | 240 | 1319 | 75 | 208 | |
| 3. | Nedumangad | 24 | 23 | 392 | 1770 | 211 | 456 | |
| 4. | Chirayinkil | 24 | 24 | 110 | 1660 | 93 | 120 | |
| TRIVANDRUM DISTRICT | | | | | | | | |
| 5. | Qulion | 96 | 92 | 1107 | 1695 | 91 | 1233 | 5.37 |
| 6. | Kottarakkara | 24 | 24 | 165 | 1716 | 173 | 186 | |
| 7. | Kunnathur | 24 | 24 | 84 | 1740 | 182 | 96 | |
| 8. | Pathanapuram | 24 | 24 | 84 | 1944 | 91 | 107 | |
| 9. | Pathanamthitta | 11 | 11 | 8 | 1331 | 320 | 7 | |
| 10. | Karunagappally | .. | .. | 183 | 1772 | 0 | 213 | |
| QULION DISTRICT | | | | | | | | |
| 11. | Karthigappally | 20 | 20 | 255 | 1711 | 86 | 287 | |
| 12. | Mavelikara | 103 | 103 | 779 | 1751 | 52 | 896 | 2.97 |
| 13. | Chengannur | 24 | 23 | 2993 | 4296 | 276 | 8447 | |
| | | 24 | 23 | 2226 | 3650 | 259 | 5338 | |
| | | 24 | 22 | 1994 | 3213 | 164 | 4209 | |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|-----|---------------------------|-----|-----|-------|------|-----|-------|------|
| 14. | Thiruvalla | 24 | 23 | 3305 | 4423 | 215 | 9602 | |
| 15. | Kuttanad | 24 | 22 | 16860 | 4050 | 294 | 44862 | |
| 16. | Ambalapuzha | 24 | 24 | 950 | 3267 | 223 | 2037 | |
| 17. | Sherthallay | .. | .. | .. | .. | .. | .. | |
| | ALLEPPEY DISTRICT | 144 | 137 | 28328 | 4003 | 180 | 74497 | 4.50 |
| 18. | Ghanganacherry | 24 | 24 | 2325 | 3572 | 381 | 5457 | |
| 19. | Kanjirappally | .. | .. | .. | .. | .. | .. | |
| 20. | Kottayam | 24 | 24 | 4352 | 3034 | 285 | 8817 | |
| 21. | Vaikom | 6 | 6 | 411 | 2207 | 351 | 596 | |
| 22. | Mecnachil | 6 | 6 | 201 | 3144 | 129 | 415 | |
| | KOTTAYAM DISTRICT | 60 | 60 | 7289 | 3192 | 210 | 15285 | 6.58 |
| 23. | Permade | .. | .. | .. | .. | .. | .. | |
| 24. | Devicodam | .. | .. | 199 | 1558 | .. | 203 | |
| 25. | Udumbancholu | .. | .. | 72 | 1558 | .. | 74 | |
| 26. | Thiathupuzha | .. | .. | 34 | 1533 | .. | 35 | |
| | IDUKKY DISTRICT | .. | .. | 305 | 1557 | .. | 32 | |
| 27. | Kothamangalam | 20 | 20 | 753 | 2258 | 125 | 1117 | |
| 28. | Muvattupuzha | 20 | 20 | 1207 | 1892 | 121 | 1501 | |
| 29. | Cochin | .. | .. | .. | .. | .. | .. | |
| 30. | Kanayannur | 20 | 20 | 441 | 2397 | 150 | 695 | |
| 31. | Kumathunad | 20 | 20 | 7839 | 2429 | 117 | 12512 | |
| 32. | Alwaye | 20 | 20 | 6465 | 1966 | 198 | 8349 | |
| 33. | Parur | 20 | 17 | 2698 | 2657 | 261 | 4709 | |
| | ERNAKULAM DISTRICT | 120 | 117 | 19403 | 2266 | 90 | 28883 | 3.97 |
| 34. | Cranganore | 24 | 24 | 117 | 693 | 230 | 69 | |

| | | | | | | |
|----------------------------|-----|-----|-------|------|-----|-------|
| 35. Mukundapuram | 30 | 29 | 9532 | 2014 | 177 | 12615 |
| 36. Trichur | 24 | 24 | 8082 | 2223 | 252 | 11803 |
| 37. Thalappally | 24 | 24 | 2390 | 2901 | 575 | 4555 |
| 38. Chowghat | 24 | 24 | 2026 | 3702 | 279 | 4928 |
| TRICHUR DISTRICT | | | | | | |
| 39. Ghittur | 126 | 125 | 22147 | 2335 | 137 | 33970 |
| 40. Alathur | 24 | 24 | 1466 | 2925 | 268 | 2817 |
| 41. Palghat | 24 | 24 | 137 | 3611 | 266 | 325 |
| 42. Ottappalam | 30 | 26 | 912 | 1826 | 204 | 974 |
| 43. Mannarghat | 24 | 24 | 1099 | 2257 | 208 | 1630 |
| PALGHAT DISTRICT | | | | | | |
| 44. Perinthalmanna | 126 | 121 | 4018 | 2591 | 122 | 6840 |
| 45. Ponnani | 24 | 23 | 1006 | 1990 | 180 | 1315 |
| 46. Tirur | 24 | 24 | 1458 | 2511 | 168 | 2405 |
| 47. Ernad | 30 | 18 | 2114 | 2178 | 264 | 3025 |
| MALAPPURAM DISTRICT | | | | | | |
| 48. Kozhikode | 102 | 94 | 5628 | 2186 | 118 | 8082 |
| 49. Quilandy | 30 | 30 | 838 | 1831 | 153 | 1008 |
| 50. Badagara | 20 | 20 | 1700 | 2205 | 230 | 2463 |
| | 30 | 29 | 295 | 2425 | 135 | 470 |
| | | | | | | 5.40 |
| | | | | | | 4.71 |
| | | | | | | 3.87 |

TABLE 3.1

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|-----|---------------------------|------|------|--------|------|-----|--------|------|
| | KOZHIKODE DISTRICT | | | | | | | |
| 51. | Vythiri | 80 | 79 | 2833 | 2117 | 146 | 3941 | 6.90 |
| 52. | Sultan's Battery | 20 | 19 | 1593 | 3058 | 89 | 3200 | |
| 53. | Mananthavady | 20 | 20 | 2760 | 2032 | 204 | 3685 | |
| | | 20 | 20 | 2975 | 3085 | 311 | 6030 | |
| | WYNAD DISTRICT | | | | | | | |
| | | 60 | 59 | 7328 | 2683 | 149 | 12915 | 5.55 |
| 54. | Tellicherry | 30 | 30 | 462 | 2029 | 203 | 616 | |
| 55. | Cannanore | 30 | 30 | 135 | 1590 | 77 | 141 | |
| 56. | Taliparamba | 30 | 30 | 662 | 1628 | 142 | 708 | |
| 57. | Hosdurg | 30 | 30 | 1587 | 2121 | 131 | 2211 | |
| 58. | Kasargode | 30 | 30 | 1689 | 2515 | 176 | 2791 | |
| | CANNANORE DISTRICT | 150 | 150 | 4535 | 2171 | 85 | 6467 | 3.92 |
| | STATE | 1167 | 1137 | 103700 | 2837 | 63 | 193321 | |

TABLE 3.2

Estimate of mean yield of dry paddy (Kg./ Hect.) during Summer Season for each Taluk for Six year from 1977-82

| Sl. No. | Taluk and District | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---------|----------------------------|------|------|------|------|------|------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Neyyattinkara | 1581 | 874 | 1184 | 1636 | 1423 | 1872 |
| 2. | Trivandrum | 1273 | 458 | 1565 | 1422 | 1552 | 1319 |
| 3. | Nedumangad | 1158 | 894 | 1186 | 1048 | 1074 | 1770 |
| 4. | Chirayinkil | 738 | 854 | 945 | 777 | 1147 | 1660 |
| | TRIVANDRUM DISTRICT | 1262 | 791 | 1251 | 1296 | 1305 | 1695 |
| 5. | Quilon | 1322 | 1070 | 1387 | 1447 | 1174 | 1716 |
| 6. | Kottarakkara | 1147 | 827 | 1524 | 788 | 1894 | 1740 |
| 7. | Kunnathur | 1521 | 434 | 1432 | 736 | 1360 | 1944 |
| 8. | Pathanapuram | 929 | 683 | 2087 | 1214 | 1011 | 1331 |
| 9. | Pathanamthitta | 1316 | 683 | 2087 | 2777 | 1011 | 1772 |
| 10. | Karunagappally | 1018 | 923 | 304 | 1162 | 750 | 1711 |
| | QUILON DISTRICT | 1250 | 896 | 1035 | 1505 | 1078 | 1751 |
| 11. | Karthigappally | 3717 | 4357 | 4655 | 3089 | 3005 | 4296 |
| 12. | Mavelikara | 3016 | 3619 | 3625 | 4166 | 3618 | 3650 |
| 13. | Chengannur | 3595 | 2893 | 4041 | 4014 | 3895 | 3213 |
| 14. | Thiruvalla | 3293 | 4350 | 3899 | 3025 | 3188 | 4423 |

TABLE 3.2 (Contd.)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-----|--------------------------|------|------|------|------|------|------|
| 15. | Kuttanad | 3046 | 3650 | 3950 | 4328 | 3268 | 4050 |
| 16. | Ambalapuzha | 3046 | 1773 | 4116 | 3494 | 2858 | 3267 |
| 17. | Sherfallay | .. | .. | .. | .. | .. | .. |
| | ALLEPPEY DISTRICT | | | | | | |
| 18. | Changanacherry | 3300 | 3662 | 4031 | 4014 | 3284 | 4003 |
| 19. | Kanjirappally | 3304 | 2930 | 5140 | 3800 | 3420 | 3572 |
| 20. | Kottayam | .. | .. | .. | .. | .. | .. |
| 21. | Vaikom | 2536 | 2601 | 2719 | 3349 | 3096 | 3084 |
| 22. | Meenachil | 1600 | 2106 | .. | 2616 | 2389 | 2207 |
| | | 2585 | 3670 | .. | 3078 | 2388 | 3144 |
| | KOTTAYAM DISTRICT | | | | | | |
| 23. | Peermade | 2594 | 2660 | 3297 | 3439 | 3148 | 3192 |
| 24. | Devicolam | 1836 | 1315 | 1806 | 2215 | .. | .. |
| 25. | Udumbanchola | 1836 | 1315 | 1806 | 2215 | 1536 | 1558 |
| 26. | Thodupuzha | 1836 | .. | .. | .. | 1536 | 1558 |
| | IDUKKI DISTRICT | | | | | | |
| 27. | Kothamangalam | .. | 1315 | .. | .. | 1536 | 1558 |
| 28. | Muvattupuzha | 1836 | 1315 | 1806 | 2215 | 1536 | 1557 |
| 29. | Cochin | 1620 | 1548 | 1805 | 2244 | 1565 | 2258 |
| 30. | Kanayannur | 1836 | 1315 | 1806 | 2215 | 1536 | 1892 |
| | | .. | .. | .. | .. | .. | .. |
| | | 1770 | 2090 | 2048 | 1886 | 2548 | 2397 |

| | | | | | | |
|----------------------------|------|------|------|------|------|------|
| 31. Kunnathunad | 1609 | 1881 | 1809 | 2092 | 2198 | 2429 |
| 32. Alwaye | 2250 | 2421 | 2003 | 2708 | 2103 | 1966 |
| 33. Parur | 2465 | 2853 | 2201 | 2816 | 2594 | 2657 |
| ERNAKULAM DISTRICT | | | | | | |
| 34. Cranganore | 2042 | 2236 | 1952 | 2414 | 2148 | 2266 |
| 35. Mukundapuram | 1568 | 2096 | 1496 | 1692 | 2754 | 893 |
| 36. Trichur | 2361 | 2380 | 2176 | 2795 | 2725 | 2014 |
| 37. Thalappally | 2309 | 2987 | 2262 | 2810 | 2432 | 2223 |
| 38. Chovvghat | 2440 | 2309 | 2133 | 2367 | 3021 | 2901 |
| TRICHUR DISTRICT | | | | | | |
| 39. Chittur | 3507 | 2067 | 2369 | 3050 | 2607 | 3702 |
| 40. Alathur | 2446 | 2577 | 2207 | 2763 | 2694 | 2335 |
| 41. Palghat | 1647 | 2196 | 2542 | 3041 | 2542 | 2925 |
| 42. Ottappalam | 2839 | 2337 | 2327 | 2827 | 1852 | 3611 |
| 43. Mannarghat | 3318 | 2872 | 3040 | 2958 | 3192 | 3670 |
| PALGHAT DISTRICT | | | | | | |
| 44. Perinthalmanna | 1811 | 2450 | 2014 | 2302 | 2243 | 1826 |
| 45. Ponnani | 1677 | 1436 | 1164 | 2053 | 2337 | 2257 |
| 46. Tirur | 2123 | 2166 | 2206 | 2611 | 2470 | 2591 |
| 47. Ernad | 2465 | 2335 | 2528 | 2153 | 1949 | 1990 |
| MALAPPURAM DISTRICT | | | | | | |
| | 3733 | 2408 | 2669 | 3650 | 2891 | 2511 |
| | 2000 | 2516 | 3097 | 2755 | 2554 | 2178 |
| | 1572 | 1582 | 1611 | 1880 | 2024 | 1938 |
| | 2782 | 2295 | 2731 | 2775 | 2481 | 2186 |

TABLE 3.2 (Contd.)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-----|---------------------------|------|------|------|------|------|------|
| 48. | Kozhikode | 1337 | 1602 | 1872 | 2577 | 1985 | 1831 |
| 49. | Quilandy | 1579 | 1475 | 1441 | 1386 | 2106 | 2205 |
| 50. | Badagara | 1293 | 1377 | 2020 | 1285 | 1681 | 2425 |
| | S. Wynad | 1897 | 2057 | 2522 | 1557 | 2252 | .. |
| | KOZHIKODE DISTRICT | 1754 | 1856 | 2208 | 1626 | 2172 | 2117 |
| 51. | Vythiri | .. | .. | .. | .. | .. | 3058 |
| 52. | Sultan's Battery | .. | .. | .. | .. | .. | 2032 |
| 53. | Mananthavady | .. | .. | .. | .. | .. | 3085 |
| | WYNAD DISTRICT | .. | .. | .. | .. | .. | 2683 |
| | North Wynad | 2195 | 3292 | 3395 | 2712 | 2507 | .. |
| 54. | Tellicherry | 1176 | 1636 | 1650 | 1403 | 2007 | 2029 |
| 55. | Cannanore | 2180 | 1476 | 1608 | 1584 | 2374 | 1590 |
| 56. | Taliparamba | 1379 | 2129 | 2193 | 2011 | 1643 | 1628 |
| 57. | Hosdurg | 3098 | 2211 | 2962 | 2334 | 1835 | 2121 |
| 58. | Kasargode | 2176 | 2245 | 2666 | 2608 | 2382 | 2515 |
| | CANNANORE DISTRICT | 3405 | 2476 | 3182 | 2440 | 2220 | 2171 |
| | STATE | 2497 | 2677 | 2832 | 2971 | 2627 | 2837 |

Estimation of Area, Mean yield and Production of High Yielding and other varieties of Paddy Summer 1982

| District | High yielding varieties | | Other varieties | | All varieties | | | |
|------------|-------------------------|---------------------------------|-----------------|---------------------------------|-------------------|-----------------|---------------------------------|-------------------|
| | Area (Hectares) | Mean yield of dry paddy Kg/hect | Area (hectares) | Mean yield of dry paddy Kg/hect | Production tonnes | Area (Hectares) | Mean yield of dry paddy Kg/hect | Production tonnes |
| Trivandrum | 751 | 1736 | 356 | 1608 | 376 | 1107 | 1695 | 1233 |
| Quilon | 174 | 1811 | 605 | 1733 | 689 | 779 | 1751 | 896 |
| Alleppey | 16828 | 4355 | 11500 | 3488 | 26350 | 28328 | 4003 | 74497 |
| Kottayam | 4126 | 3105 | 3163 | 3304 | 6868 | 7289 | 3192 | 15285 |
| Idukki | 297 | 1558 | 8 | 1530 | 8 | 305 | 1557 | 312 |
| Ernakulam | 3896 | 2450 | 15507 | 2219 | 22612 | 19403 | 2266 | 28883 |
| Trichur | 10708 | 2788 | 11439 | 1910 | 14354 | 22147 | 2335 | 33970 |
| Palghat | 1321 | 3012 | 2697 | 2385 | 4226 | 4018 | 2591 | 6840 |
| Malappuram | 3025 | 2458 | 2603 | 1869 | 3197 | 5628 | 2186 | 8082 |
| Kozhikode | 1983 | 2290 | 850 | 1715 | 958 | 2833 | 2117 | 3941 |
| Wynad | 2494 | 2641 | 4834 | 2704 | 8587 | 7328 | 2683 | 12915 |
| Canranore | 1580 | 2340 | 2955 | 2124 | 4038 | 4535 | 2171 | 6467 |
| State | 47183 | 3260 | 56517 | 2485 | 92263 | 103700 | 2837 | 193321 |

TABLE 3.4.

District-Wise rate for High Yielding and other Varieties of Paddy According to Cultural Practices
Summer 1982

| Districts | Irrigated | | | | | | | | | | | | | |
|------------|--------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------------|---------------------------------|---------------|---------------------------------|---------------------|---------------------------------|---------------|
| | Chemically manured | | | Other manured | | | Not manured | | | Total | | | Chemically manured | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
| | Variety | No. of expts. | Mean yield of paddy in kg/hect. | No. of expts. | Mean yield of paddy in kg/hect. | No. of expts. | Mean yield of paddy in kg/hect. | Total No. of expts. | Mean yield of paddy in kg/hect. | No. of expts. | Mean yield of paddy in kg/hect. | Total No. of expts. | Mean yield of paddy in kg/hect. | No. of expts. |
| Trivandrum | H | 41 | 1658 | .. | .. | .. | .. | 41 | 1658 | 7 | 2158 | 41 | 1658 | 7 |
| | O | 27 | 1221 | .. | .. | .. | .. | 27 | 1221 | 15 | 1862 | 27 | 1221 | 15 |
| | T | 68 | 1482 | .. | .. | .. | .. | 68 | 1482 | 22 | 1957 | 68 | 1482 | 22 |
| Quilon | H | 18 | 1278 | 2 | 1375 | .. | .. | 20 | 1285 | 12 | 2094 | 20 | 1285 | 12 |
| | O | 48 | 1808 | 2 | 1432 | .. | .. | 50 | 1794 | 17 | 1826 | 50 | 1794 | 17 |
| | T | 66 | 1661 | 4 | 1403 | .. | .. | 70 | 1647 | 29 | 1937 | 70 | 1647 | 29 |
| Alleppey | H | 76 | 4204 | .. | .. | .. | .. | 76 | 4204 | 14 | 4236 | 76 | 4204 | 14 |
| | O | 15 | 2639 | .. | .. | .. | .. | 15 | 2639 | 32 | 3507 | 15 | 2639 | 32 |
| | T | 91 | 3946 | .. | .. | .. | .. | 91 | 3946 | 46 | 3728 | 91 | 3946 | 46 |
| Kottayam | H | 3 | 3405 | .. | .. | .. | .. | 3 | 3405 | 31 | 3248 | 3 | 3405 | 31 |
| | O | 1 | 2363 | .. | .. | .. | .. | 1 | 2363 | 25 | 3195 | 1 | 2363 | 25 |
| | T | 4 | 3154 | .. | .. | .. | .. | 4 | 3154 | 56 | 3225 | 4 | 3154 | 56 |
| Ernakulam | H | 23 | 2418 | 1 | 127 | .. | .. | 24 | 2323 | .. | .. | 24 | 2323 | .. |
| | O | 88 | 2305 | 5 | 1797 | .. | .. | 93 | 2276 | .. | .. | 93 | 2276 | .. |
| | T | 111 | 2327 | 6 | 1517 | .. | .. | 117 | 2287 | .. | .. | 117 | 2287 | .. |

| Districts | Un-irrigated | | | | | | Treated with pesticides | | Not treated with pesticides | |
|------------|---------------|-------------------------------|---------------|-------------------------------|---------------------|-------------------------------|-------------------------|-------------------------------|-----------------------------|-------------------------------|
| | Other manured | | | Not manured | | | Treated with pesticides | | Not treated with pesticides | |
| | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) |
| | No. of expts. | Mean yield of paddy in kg./ht | No. of expts. | Mean yield of paddy in kg./ht | Total No. of expts. | Mean yield of paddy in kg./ht | No. of expts. | Mean yield of paddy in kg./ht | No. of expts. | Mean yield of paddy in kg./ht |
| (1) | | | | | | | | | | |
| Trivandrum | 1 | 123 | .. | .. | 8 | 1904 | 45 | 1735 | 4 | 1260 |
| | 1 | 704 | .. | .. | 16 | 1788 | 25 | 1609 | 18 | 1186 |
| | 2 | 415 | .. | .. | 24 | 1827 | 70 | 1690 | 22 | 1200 |
| Quilon | .. | .. | .. | .. | 12 | 2094 | 22 | 1786 | 10 | 1156 |
| | 3 | 1368 | 1 | 895 | 21 | 1715 | 67 | 1811 | 4 | 1088 |
| | 3 | 1368 | 1 | 895 | 33 | 1854 | 89 | 1804 | 14 | 1138 |
| Alleppey | .. | .. | .. | .. | 14 | 4236 | 88 | 4211 | 2 | 4087 |
| | .. | .. | .. | .. | 32 | 3507 | 46 | 3242 | 1 | 2635 |
| | .. | .. | .. | .. | 46 | 3728 | 134 | 3877 | 3 | 3601 |
| Kottayam | .. | .. | .. | .. | 31 | 3248 | 33 | 3308 | 1 | 1688 |
| | .. | .. | .. | .. | 25 | 3195 | 26 | 3165 | .. | .. |
| | .. | .. | .. | .. | 56 | 3225 | 59 | 3244 | 1 | 1688 |
| Ernakulam | .. | .. | .. | .. | .. | .. | 16 | 2548 | 8 | 1877 |
| | .. | .. | .. | .. | .. | .. | 80 | 2338 | 13 | 1891 |
| | .. | .. | .. | .. | .. | .. | 96 | 2374 | 21 | 1888 |

TABLE 3.4 (Contd.)

| (1) | (2) | (3) | (4) | (5) | (5) | (7) | (8) | (9) | (10) | (11) | (12) |
|------------|-----|-----|------|-----|------|-----|------|-----|------|------|------|
| Trichur | H | 51 | 3411 | 2 | 386 | 1 | 824 | 54 | 3254 | .. | .. |
| | O | 62 | 1722 | 8 | 910 | 1 | 0 | 71 | 1605 | .. | .. |
| | T | 113 | 2486 | 10 | 804 | 2 | 415 | 125 | 2319 | .. | .. |
| Palghat | H | 58 | 2886 | .. | .. | .. | .. | 58 | 2886 | 3 | 3852 |
| | O | 55 | 2470 | .. | .. | .. | .. | 55 | 2470 | 5 | 3942 |
| | T | 113 | 2685 | .. | .. | .. | .. | 113 | 2685 | 8 | 3910 |
| Malappuram | H | 43 | 2499 | 2 | 2495 | .. | .. | 45 | 2499 | 2 | 2617 |
| | O | 29 | 1824 | 12 | 1699 | .. | .. | 41 | 1682 | 5 | 1774 |
| | T | 72 | 2228 | 14 | 1814 | .. | .. | 86 | 2160 | 7 | 2013 |
| Kozhikode | H | 57 | 2392 | .. | .. | .. | .. | 57 | 2392 | 3 | 1704 |
| | O | 19 | 1682 | .. | .. | .. | .. | 19 | 1682 | .. | .. |
| | T | 76 | 2212 | .. | .. | .. | .. | 76 | 2212 | 3 | 1704 |
| Wynad | H | 15 | 2869 | 12 | 2918 | .. | .. | 27 | 2891 | 2 | 1966 |
| | O | 13 | 3192 | 7 | 2613 | 3 | 1455 | 23 | 2790 | 3 | 2350 |
| | T | 28 | 3019 | 19 | 2805 | 3 | 1455 | 50 | 2843 | 5 | 2196 |
| Cannanore | H | 59 | 2426 | 8 | 1409 | .. | .. | 67 | 2305 | 1 | 936 |
| | O | 52 | 1894 | 12 | 1582 | 1 | 697 | 65 | 1817 | 13 | 1406 |
| | T | 111 | 2074 | 20 | 1512 | 1 | 697 | 132 | 2066 | 14 | 1373 |
| State | H | 444 | 2810 | 27 | 1969 | 1 | 824 | 472 | 2759 | 75 | 2995 |
| | O | 409 | 2036 | 46 | 1659 | 5 | 980 | 460 | 1989 | 115 | 2639 |
| | T | 853 | 2428 | 73 | 1782 | 6 | 955 | 932 | 2378 | 190 | 2781 |

| | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) |
|------------|------|------|------|------|------|------|------|------|------|------|
| Trichur | .. | .. | .. | .. | .. | .. | 50 | 3436 | 4 | 968 |
| | .. | .. | .. | .. | .. | .. | 49 | 1838 | 22 | 1088 |
| | .. | .. | .. | .. | .. | .. | 99 | 2646 | 26 | 1070 |
| Palghat | .. | .. | .. | .. | 3 | 3852 | 44 | 3162 | 17 | 2348 |
| | .. | .. | .. | .. | 5 | 3942 | 14 | 3048 | 46 | 2456 |
| | .. | .. | .. | .. | 8 | 3910 | 58 | 3134 | 63 | 2427 |
| Malappuram | .. | .. | .. | .. | 2 | 2617 | 30 | 2595 | 17 | 2342 |
| | .. | .. | 1 | 582 | 6 | 1578 | 23 | 2003 | 24 | 1532 |
| | .. | .. | 1 | 582 | 8 | 3910 | 53 | 2338 | 41 | 1867 |
| Kozhikode | .. | .. | .. | .. | 3 | 1704 | 34 | 2348 | 26 | 2370 |
| | .. | .. | .. | .. | .. | .. | 9 | 1858 | 10 | 1524 |
| | .. | .. | .. | .. | 3 | 1704 | 43 | 2245 | 36 | 2134 |
| Wynad | .. | .. | 1 | 1786 | 3 | 1906 | 8 | 3358 | 22 | 2587 |
| | 3 | 1534 | .. | .. | 6 | 1944 | 6 | 3027 | 23 | 2508 |
| | 3 | 1534 | 1 | 1786 | 9 | 1929 | 14 | 3215 | 45 | 2546 |
| Cannanore | .. | .. | .. | .. | 1 | 936 | 40 | 2738 | 28 | 1640 |
| | 4 | 837 | .. | .. | 17 | 1270 | 47 | 1714 | 35 | 1692 |
| | 4 | 837 | .. | .. | 18 | 1251 | 87 | 2184 | 63 | 1670 |
| State | 1 | 127 | 1 | 1786 | 77 | 2940 | 410 | 3027 | 139 | 2069 |
| | 11 | 1147 | 2 | 751 | 128 | 2483 | 392 | 2229 | 196 | 1830 |
| | 12 | 1064 | 3 | 1074 | 205 | 2654 | 802 | 2639 | 335 | 1928 |

1254

