

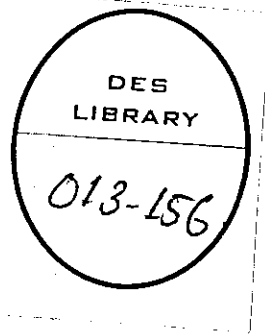
GOVERNMENT OF KERALA

TRENDS  
IN  
AREA AND PRODUCTIVITY  
OF  
PADDY  
1976-77 TO 1986-87

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DEPARTMENT OF ECONOMICS & STATISTICS  
THIRUVANANTHAPURAM

1989



GOVERNMENT OF KERALA

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**TRIVANDRUM**

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## P R E F A C E

The Design Surveys and Studies division of this department has published a paper on the "Trends in taluk yield rates of paddy" during February 1985 covering the years 1972-1980. The data used in the above paper were originated from the former land utilization surveys (LUS) upto (1974-75) and the annual surveys conducted under the scheme for the Establishment of an Agency for Reporting Agricultural Statistics (EARAS). This paper seeks to up-date the above study by incorporating the latest data.

This paper has been prepared by Sri. T.V. Isaac, Assistant Director and edited by Sri. K. Achuthan, Joint Director of EARAS division of this department.

Suggestions are welcome.

Trivandrum,  
20-1-1989.

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Director of Economics & Statistics

**TRENDS IN AREA AND PRODUCTIVITY OF PADDY  
1976-77 TO 1986-87**

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## 1. Introduction

Agriculture plays a dominant role in the economy of the State. In the successive five year plans sizable amounts were earmarked for the development of this sector. Paddy, being the staple food of the people of Kerala, attracted the attention of the planners and administrators. In spite of all these, the production of paddy remained more or less stagnant all these years. More over the cropping pattern of the state was gradually shifting in favour of perennial cash crops. It is therefore of great interest to analyse the trends in area and productivity of paddy in the recent past.

Statistics of various parameters relating to the agricultural sector like land utilization, area under crops, productivity, irrigation etc. were estimated on the basis of the former Land Utilisation Survey in the state up to the year 1974-75. Though the estimates obtained through the LUS were reliable at the state level they lacked the required precision at lower levels due to the small size of sample adopted for the survey. To improve the quality and coverage of agricultural statistics in the state the ministry of agriculture, Government of India sponsored a scheme viz. "Establishment of an Agency for Reporting Agricultural Statistics (EARAS)". The scheme envisaged complete enumeration of all the villages of the State in a phased manner. The first cycle of complete enumeration which was started in 1975-76 was completed during 1980-81 and the second cycle by the end of the agricultural year 1985-86. The first year of the third cycle was also completed in 1986-87. Along with the land utilization survey, crop cutting surveys and irrigation surveys were also conducted annually to estimate the various parameters relating to the agricultural sector.

A study on the trends in area and productivity of paddy at taluk level obtained from these surveys between 1975-76 and 1986-87 is attempted to in this paper. To study the changes in area and productivity two indices of variation, one for area and the other for yield rates have been worked out. For the index of variation on area the average for the triennium ending 1977-78 has been taken as the base. In respect of yield rates the year 1976-77 has been taken as the base for the sake of expediency though the year cannot be stated as normal year from the point of view of weather and agricultural

production. But it has been observed that the productivity of paddy during the worst drought hit year of 1982-83 was higher than that of some other years with normal rainfall.

## 2. Trends in area under paddy

The taluk-wise area under paddy for the three seasons of Autumn, winter and summer for the years from 1976-77 to 1986-87 are furnished in Tables 1, 2 and 3 respectively of appendix. The indices of variation in taluk-wise area under paddy for each season for the years from 1976-77 to 1986-87 are furnished in tables 4, 5 and 6 respectively. The above tables show that the area under paddy for autumn and summer seasons has decreased by 24% by the end of 1986-87 while the area under winter paddy decreased by 22% during the same period for the state as a whole. Taluk-wise area under paddy shows the same trend excepting for a few taluks. The list of taluks which showed an improvement in area brought under paddy over the years is furnished below while the years when there was a fall in area in these taluks is given in brackets.

### i. List of taluks where there was an increase of area under paddy (season-wise)

Autumn	Winter	Summer
1. Mavelikkara (83, 86)	Kozhencherry (80, 82, 83, 86)	
2. Kuttanad (80, 82, 83, 85)	Changanacherry (78, 83, 85, 87)	
3. Vaikom (78, 79, 82, 83, 84)	Cranganore (80, 84, 185, 86, 87)	
4. Kunnathunad (81, 83, 85, 86)	Sultan Bathery (84, 87)	Kunnathunad (82, 83, 84, 87)
5. Alwaye (81, 83, 86)		Alwaye (81, 82, 84, 80)
6. Chittoor (77, 78, 79, 82, 84, 87)	Cranganore (79, 80, 83, 86, 87)	Mananthavady

Though there were some other taluks which showed an increase in area under paddy during summer, the area under paddy or additionally brought under paddy were not substantial. In all the other taluks the area under paddy showed a decreasing trend over the years.

The reason for the increase in area under summer paddy in some of the taluks may be attributed to the irrigation facilities and the use of short duration high yielding ~~varieties~~ *Variety Seeds*

But the decrease in area under paddy was more pronounced in a majority of taluks. In the following taluks the decrease in area under paddy was greater than the average decrease for the state as a whole during the main crop seasons of autumn and winter.

<u>Autumn</u>	<u>Winter</u>
1. Neyyattinkara	1. Neyyattinkara
2. Trivandrum	2. Trivandrum
3. Nedumangad	3. Nedumangad
4. Ambalapuzha	4. Quilon
5. Chengannur	5. Karunagappally
6. Peermade	6. Karthigappally
7. Udumbanchola	7. Thiruvalla
8. Devicolam	8. Kuttanad
9. Thodupuzha	9. Ambalapuzha
10. Kanayannur	10. Sherthalai
11. Kothamangalam	11. Kottayam
12. Cranganore	12. Peermade
13. Chowghat	13. Devicolam
14. Mannarghat	14. Udumbanchola
15. Ponnani	15. Thodupuzha
16. Perunthalmanna	16. Muvattupuzha
17. Tirur	17. Trichur
18. Ernad	18. Chowghat
19. Kozhikode	19. Ponnani
20. Quilandy	20. Ernad
21. Badagara	21. Kozhikode
22. Vythiri	22. Quilandy
23. Mananthavady	23. Badagara
24. Tellicherry	24. Taliparamba
25. Thaliparamba	25. Kasargode
26. Hosdurg	
27. Kasaragode	

However in respect of summer paddy there were 38 taluks where the decrease in area under paddy was greater than the average decrease for the state as a whole.

But the decrease in area in the following taluks was greater than the average decrease for the state as a whole for all the three seasons.

1. Neyyattinkara	Trivandrum district
2. Trivandrum	
3. Nedumangad	
4. Ambalapuzha	Alleppey district
5. Peermade	Idukki district
6. Devicolam	
7. Udumbanchola	
8. Thodupuzha	
9. Chowghat	Trichur district

In respect of the main crop seasons of autumn and winter the decrease in area in the following taluks was greater than the average decrease for the state as a whole.

1. Ponnani	Malappuram district
2. Ernad	
3. Kozhikode	Kozhikode district
4. Quilandy	
5. Badagara	
6. Taliparamba	Cannanore district
7. Kasaragod	Kasaragod district

Decrease in area under paddy is attributed mainly to the following factors (1) Change in cropping pattern (2) Conversion of land for non agricultural purpose and (3) land being kept fallow for various reasons.

It may also be presumed that the sharp decline in area under paddy in the above mentioned taluks was due to the combined effect of all the factors listed above.

#### ii. Classification of taluks according to the area under paddy

A table showing the distribution of taluks according to various size classes of area under paddy cultivation is furnished in table VII of appendix. The distribution of taluks according to the ranges of average area under paddy is given below for the period between 1976-77 and 1987-88.



Area under paddy (Ha.)	Average number of taluks					
	Autumn		Winter		Summer	
	No.	% to total	No.	% to total	No.	% to total
1. Below 250	4	7.14	12	3.51	17	32.69
2. 250-499	0	-	1	1.75	5	9.62
3. 500-749	1	1.79	0	-	4	7.69
4. 750 - 999	1	1.79	1	1.75	4	7.69
5. 1000 - 1499	3	5.36	2	3.51	5	9.62
6. 1500 - 1999	2	3.57	3	5.26	4	7.69
7. 2000 - 2499	3	5.36	4	7.02	3	5.77
8. 2500 - 2999	3	5.36	5	8.78	2	3.85
9. 3000 - 3999	10	17.86	10	17.54	2	3.85
10. 4000 - 4999	7	12.50	7	12.28	1	1.92
11. 5000 - 9999	13	23.20	12	21.05	4	7.69
12. 10000 & above	9	16.07	10	17.55	1	1.92
<b>Total</b>	<b>56</b>	<b>100.00</b>	<b>57</b>	<b>100.00</b>	<b>52</b>	<b>100.00</b>

Besides certain taluks go without a crop in certain seasons except during the autumn of 1976-77, 1977-78, 1980-81 and winter 1976-77 and 1977-78.

Similarly a table showing the distribution of taluks according to various size classes of production of rice is appended as table VIII.

The distribution of taluks according to various size classes of average production of rice for the period from 1976-77 to 1987-88 is furnished below.

Production of rice	Average number of taluks					
	Autumn		Winter		Summer	
	No.	%	No.	%	No.	%
1. Below 100 tonnes	2	3.45	1	1.69	10	18.33
2. 100 - 249	1	1.72	1	1.69	6	11.32
3. 250 - 499	1	1.72	1	1.69	5	9.43
4. 500 - 749	1	1.72	1	1.69	3	5.66
5. 750 - 999	1	1.72	1	1.69	3	5.66
6. 1000 - 1499	2	3.45	2	3.39	3	5.66
7. 1500 - 1999	2	3.45	1	1.69	3	5.66
8. 2000 - 2999	5	8.62	4	6.78	5	9.43
9. 3000 - 3999	4	6.90	6	10.18	2	3.77
10. 4000 - 4999	6	10.34	7	11.87	2	3.77
11. 5000 - 7499	11	18.96	12	20.34	4	7.55
12. 7500 - 9999	7	12.07	5	8.48	2	3.77
13. 10000 - 14999	7	12.07	7	11.87	3	5.66
14. 15000 - 19999	3	5.16	3	3.39	1	1.89
15. 20000 - 24999	1	1.75	4	6.78	-	-
16. 25000 & above	4	6.90	4	6.78	1	1.89
<b>Total</b>	<b>58</b>	<b>100.00</b>	<b>59</b>	<b>100.00</b>	<b>53</b>	<b>100.00</b>

From the above table it may be seen that the largest number of taluks lie in the production range of 5000 - 7500 tonnes for both autumn and winter seasons. In summer season, the largest number of taluks produced only 100 tonnes or below of rice. Three taluks of Palghat district produced 25000 tonnes and above in autumn and winter and Kuttanad taluk registered the same volume of production for all the three seasons.

### 3. Trends in yield rates of paddy

An analysis of average mean yield of paddy for the state as a whole during the period from 1976-77 to 1986-87 shows that it fluctuated between 2040 and 2623 Kg./hect. of dry paddy during autumn, 2295 Kg. and 2559 Kg. for winter and 2497 Kg. and 3290 Kg. in respect of summer. The highest yield rates obtained during this period was 2623 Kg. during autumn 84, 2559 Kg. during winter 86 and 3290 Kg. of dry paddy per hectare during summer 1986. It is seen that the mean yield of paddy has more or less stabilised at a higher level during the last three years under study when compared to those of the base year for all the three seasons.

The taluk-wise yield rates of paddy for the three seasons of autumn, winter and summer for the years from 1976-77 to 1986-87 are furnished in tables 7, 8 & 9 respectively.

In order to identify the taluks where the average yield rates were comparably high, the taluks have been classified as those having yield rates higher than the average for the state as a whole for most of the years under study and those with yield rates below state average for a number of years.

The taluks where the average yield rates were higher than the state average for most of the years from 1976-77 to 1986-87 for each season are listed below.

<u>Autumn</u>	<u>Winter</u>	<u>Summer</u>
1. Neyyattinkara	1: Kottarakkara	1. Karthigappally
2. Trivandrum	2: Kunnathoor	2. Mavelikkara
3. Pathanapuram	3. Pathanapuram	3. Chengannur
4. Kozhencherry	4. Kozhencherry	4. Thiruvalla
5. Chengannur	5. Chengannur	5. Kuttanad
6. Kuttanad	6. Thiruvalla	6. Changanacherry
7. Changanacherry	7. Kuttanad	7. Kottayam
8. Kanjirappally	8. Changanacherry	8. Meenachil
9. Kottayam	9. Kanjirappally	
10. Meenachil	10. Kottayam	
11. Devicolam	11. Meenachil	
12. Udumbanchola	12. Peermade	
13. Thodupuzha	13. Devicolam	
14. Kothamangalam	14. Udumbanchola	
15. Muvattupuzha	15. Thodupuzha	
16. Chittoor	16. Chittoor	
17. Alathoor	17. Alathoor	
18. Palghat	18. Palghat	

The above taluks are further classified into those having yield rates higher than the state average for most years for all the three seasons and for any two seasons as shown below.

<u>For all the 3 seasons</u>	<u>Autumn &amp; winter</u>	<u>Autumn &amp; summer</u>	<u>Winter &amp; summer</u>
1. Chengannur	1. Pathanapuram	Nil	Nil
2. Kuttanad	2. Kozhencherry		
3. Kottayam	3. Devicolam		
4. Changanacherry	4. Udumbanchola		
5. Meenachil	5. Thodupuzha		
	6. Chittoor		
	7. Alathoor		
	8. Palghat		

It is to be noted that all the above taluks except Meenachil belong to Kuttanad region, and in the districts of Idukki and Palghat.

#### 4. Indices of variation in yield rates

The indices of variation in yield rates of paddy for all the three seasons for the period from 1976-77 to 1986-87 are presented in tables 10, 11 and 12 respectively. The indices show substantial increase in yield rates for autumn and summer crops, while the increase for the winter crop was below 10%. Though the year 1976-77 was normal in the sense of total rainfall during the year, a belated southwest monsoon and subsequent down pour resulting in floods and pest attack adversely affected the productivity of autumn crop. As such, the indices worked out based on that years average

yield would be a slightly inflated one. Still the average yield for the crop was below that of the base year for most of the remaining years in many taluks of Alleppey, Cannanore and Kasaragod districts. The crops during the winter and summer seasons of 1976-77 were normal. Above all the yield rates for all the three seasons were fluctuating at a higher rate during the last three years under study when compared to those of the years nearer to the base period. 1984-85 was the peak year in respect of autumn crop while 1985-86 was the peak year in respect of the other two crop seasons.

As it has been observed by agricultural scientists that the integrated use of all the important ingredients for better plant growth namely high yielding varieties of seeds, water and plant nutrients given the best results in irrigated and rainfed areas. Promotion of one of the ingredients is, therefore, interwoven with the promotion of others and is essentially in the nature of "extension work" (Annual report 1984-85 of the Fertilizer Association of India). An analysis of trends in area and productivity of paddy without taking into consideration the role of essential ingredients in influencing the area and productivity viz. rainfall condition/irrigation facilities, high yielding varieties of seeds programme and the use of plant nutrients will not be effective. But data relating to plant nutrients are scarcely available. The data on high yielding varieties of seeds used and irrigation facilities utilized for paddy cultivation are available through the crop cutting surveys on paddy conducted by the department. Salient features of these topics are highlighted in the following paragraphs.

##### **5. High yielding varieties programme**

The taluk-wise percentage of area under high yielding varieties to total area under paddy for the three season of autumn winter and summer for the years from 1981-82 to 1986-87 are presented in tables 13, 14 and 15 respectively.

The above mentioned tables reveal that the percentage of area brought under high yielding varieties was highest in respect of summer crop followed by autumn and winter crops. The area under high yielding varieties fluctuated between 40% and 28% for autumn, 24% and 13% for winter and 56% and 38% for summer crops during the period under review. The area un der

high yielding varieties has been considerably low during the last two years for all the three crops when compared to previous years.

The taluks where the area brought under high yielding varieties, higher than the average for the state, as a whole for most of the years from 1981-82 to 1986-87 are listed below season-wise.

<u>Autumn</u>	<u>Winter</u>	<u>Summer</u>
1. Kottarakkara	1. Kozhencherry	1. Neyyattinkara
2. Pathanapuram	2. Thiruvalla	2. Nedumangad
3. Karunagappally	3. Mallappally	3. Chirayinkil
4. Adoor	4. Chengannur	4. Kozhencherry
5. Kozhencherry	5. Kuttanad	5. Thiruvalla
6. Ranni	6. Changanacherry	6. Mallappally
7. Mallappally	7. Karunagappally	7. Karthigappally
8. Karthigappally	8. Kottayam	8. Mavelikkara
9. Kuttanad	9. Vaikom	9. Chengannur
10. Changanacherry	10. Meenachil	10. Kuttanad
11. Kanjirappally	11. Peermade	11. Changanacherry
12. Kottayam	12. Devicolam	12. Kottayam
13. Vaikom	13. Trichur	13. Vaikom
14. Meenachil	14. Chittoor	14. Meenachil
15. Devicolam	15. Palghat	15. Peermade
16. Udumbanchola		16. Devicolam
17. Kothamangalam		17. Trichur
18. Muvattupuzha		18. Thalappilly
19. Kunnathunad		19. Chowghat
20. Chittoor		20. Pannani
21. Palghat		21. Tirur
		22. Quilandy
		23. Sulthan battery

The above taluks are further classified into the category where the percentage of area brought under high yielding varieties of paddy was higher than the average for the state as a whole for more than one season for most of the years under study, <sup>and</sup> are presented below:-

All the three seasons	For autumn & winter	For autumn & summer	For winter summer
1. Kozhencherry	1. Kanjirappally	1. Karthigappally	1. Chengannur
2. Mallappally	2. Chittoor		
3. Kuttanad	3. Palghat		
4. Changanacherry			
5. Kottayam			
6. Vaikom			
7. Meenachil			
8. Devicolam			

The above taluks belong to the districts of Pathanamthitta, Alleppey, Kottayam, Idukki and Palghat but nearly half of them belong to Kuttanad region.

#### 6. Yield rates of high yielding varieties & traditional varieties

The taluk-wise percentage change in yield rates of high yielding varieties of paddy over local variety worked out for the years from 1981-82 to 1986-87 is presented in tables 16, 17, 18 respectively.

The above mentioned tables show that the percentage change in yield rates of high yielding varieties of paddy over local varieties was higher in respect of summer crop followed by autumn and winter crops. It is interesting to note here that the percentage size of area brought under high yielding varieties to total area under paddy was also in the same order for the three crop seasons. The percentage change in yield rates fluctuated between 54% and 13% for autumn 36% and 21% for winter and 67% and 30% for summer crop. Although the average yield per hectare of high yielding varieties of paddy was higher than local variety for the state as a whole, local varieties fared better in many taluks than the high yielding varieties depending upon the integrated use of important ingredients for better plant growth. In most cases non availability of adequate water for sustenance and assimilation of high doses of fertilizer required for high yielding varieties to flourish or floods which prevent the timely application of plant nutrients may be the main reasons for the fall in productivity of high yielding varieties of seeds in some taluks when compared to local varieties.

A list of taluks where the percentage change in the yield rates higher than the state average of high yielding varieties of paddy over local varieties for most of the years under study are furnished below.

<u>Autumn</u>	<u>Winter</u>	<u>Summer</u>
1. Kottarakkara	1. Chengannur	1. Mavelikkara
2. Vaikom	2. Ambalapuzha	2. Mannarghat
3. Chawghat	3. Cranganloor	3. Perinthalmanna
4. Mannarghat	4. Kozhikode	4. Badagara
5. Perinthalmanna	5. Cannanore	5. Kasaragod
6. Kozhikode	6. Thalaparamba	
7. Quilandy	7. Hosdurg	
8. Badagara	8. Kasaragod	
9. Tellicherry		
10. Cannanore		
11. Thaliparamba		

In the above list, only 4 taluks viz. Kottarakkara, Vaikom, Chengannur and Mavelikkara occur in the list of taluks where the percentage of area brought under high yielding varieties of paddy was higher than the state average for most of the years. All other taluks had this percentage higher than the state average only for a very few years.

The list of taluks where the percentage change in yield rates higher than the state average of high yielding varieties of paddy over local varieties for more than one season for most of the years have been identified and shown below.

<u>For all the &amp; 3 seasons</u>	<u>For autumn &amp; winter</u>	<u>For autumn &amp; summer</u>	<u>For winter &amp; summer</u>
Nil	1. Kozhikode 2. Cannanore 3. Taliparamba	1. Mannarghat 2. Perinthalmanna 3. Badagara	1. Kasaragod

## 7. Irrigation

The percentage of paddy area brought under irrigation for the period from 1981-82 to 1986-87 for the three seasons of autumn winter and summer are furnished in tables 19, 20, 21 respectively.

The above mentioned tables reveal that very few taluks depend upon irrigation for raising autumn paddy. The percentage of area of paddy brought under irrigation varied between 6% and 20% during autumn. For winter crop this percentage of area brought under irrigated paddy varied between 50% and 65% and for summer crop it varied between 63% and 78%. A list of taluks with irrigated area above the average for the state as a whole for most of the years from 1981-82 to 1986-87 for autumn and winter seasons are furnished below.

<u>Autumn</u>	<u>Winter</u>	
1. Neyyattinkara	1. Neyyattinkara	2. Thiruvalla
2. Devicolam	3. Pathanapuram	4. Chengannur
3. Moovattupuzha	5. Kanjirappally	6. Vaikom
4. Kunnathunad	7. Meenachil	8. Peermade
5. Chittoor	9. Devicolam	10. Thodupuzha
	11. Moovattupuzha	12. Kunnathunad
	13. Mukundapuram	14. Trichur
	15. Thalappilly	16. Chittoor
	17. Alathoor	18. Palghat
	19. Mannarghat	20. Perinthalmanna
	21. Tellicherry	22. Taliparamba
	23. Hosdurg	24. Kasaragod

The taluks listed under autumn above, used more irrigation during that period, it is presumed, because of lesser rain in those places compared to other taluks (and hence dependance on irrigation water). All of the taluks where average yield per hect. was higher than the State average for most years from 1976-77 to 1986-87 during winter season excepting Kottarakkara, Kunnathoor, Kozhencherry, Thiruvalla, Kuttanad, Changanacherry & Kottayam taluks. However they have availed of irrigation facilities above the State average. Perhaps the problem of the taluks belonging to Kuttanad region listed above may be one of excess water and not of irrigation in the sense of letting water in, for cultivation, letting water out for cultivation is not treated as irrigation for the purpose of Timely Reporting Survey.

As regards summer crop, paddy is raised mainly using irrigation and the taluks which are listed below are having irrigation facility below average for the state as a whole. It would come mostly under the category where paddy is cultivated by letting water out of the fields by pumping or with the aid of persian wheels.

List of taluks where utilisation of irrigation facilities was lower than the average for the state as a whole for most of the years from 1981-82 to 1986-87

- |                   |                |                 |
|-------------------|----------------|-----------------|
| 1. Nedumangad     | 2. Chirayinkil | 3. Kottarakkara |
| 4. Karthigappally | 5. Kuttanad    | 6. Ambalapuzha  |
| 7. Changanacherry | 8. Kottayam    | 9. Vaikom       |
| 10. Udumbanchola  | 11. Vythiri.   |                 |

The above discussion reveals that the possibility of increasing productivity of paddy mainly rests on improving irrigation facilities. Therefore it is imperative that taluks where irrigation is widely available or used somehow should be taken up for promoting other ingredients like better seeds and plant nutrients to boost productivity.

#### 8. Application of plant nutrients

Plant nutrients are one of the major ingredients for better plant growth. Therefore the rate of consumption of plant nutrients in the form of both organic and inorganic materials is closely related to productivity. But the data on consumption of plant nutrients separately for paddy are not available. Data on district-wise consumption of chemical fertilizers



only are available. With the available data an attempt is made here to analyse the trends in the rate of consumption of chemical fertilizers.

(i) Organic manures:- No data on the application of organic manures are available. The application of green manure is the minimum at present. The strength of bovine population during 1985-86 was estimated at 36 lakhs. It is also estimated that these bovines have produced 34.3 lakh tonnes of dry dung during that period. Out of this it is estimated that 33 lakh tonnes would have been used as manure.

(ii) Chemical fertilizers:- The district-wise consumption of chemical fertilizers (NPK) per unit of area (hect.) for the period from 1981-82 to 1986-87 have been worked out and presented in table 25.

The rate of consumption of chemical fertilizers for all the crops together are furnished in the table. But the application of chemical fertilizers for crops other than paddy are not so common or as high as it is used for paddy. The above mentioned table reveals that the rate of consumption of chemical fertilizers 1986-87 has increased by about 62% over that for 1981-82. The rate of consumption per hectare of cropped area was higher than the state average for the districts of Pathanamthitta, Alleppey, Kottayam, Ernakulam, Trichur and Palghat. ~~Most of the taluks which should a higher average yield than the state average belong to the above districts.~~ Though the rate of consumption was the lowest in respect of Idukki district the yield rate was higher than the average for the state as a whole. This may be due to the high fertility of the soil and less consumption by crops other than paddy. In all the other districts the average consumption of chemical fertilizer was less than the state average.

The rate of consumption of chemical fertilizers by various states in south India for the latest two years are furnished below for comparison.

Rate of consumption of chemical fertilizers in southern States

State	Consumption of chemical fertilizer per unit of cropped area (Kg./Ha.)	
	1985-86	1986-87
1. Kerala	49.29	52.80
2. Tamilnadu	98.00	98.50
3. Karnataka	49.83	50.76
4. Andhra pradesh	73.39	74.50
5. Pondicherry	324.04*	356.32*

Source: Fertilizer Association of India

The above table reveals that the consumption of chemical fertilizers per unit of cropped area was lowest at Kerala during 1985-86 while it was lowest at Karnataka during 1986-87. This shows how backward we are in the application of chemical fertilizers.

A conscious effort to step up the consumption of chemical fertilizers is very urgent to boost agricultural productivity and production in the state especially for paddy. The above rates have been worked out based on sales in the respective areas and need not represent actual consumption at least in respect of Pondicherry.

### 9. Summary of findings and conclusions

1. The area under paddy for the autumn and summer crops have been decreased by 24% and that of winter crop by 22% during the period 1976-77 to 1986-87.
2. There were large scale conversion of paddy fields into garden land and for non-agricultural purposes. The most affected districts in this respect are Trivandrum, Idukki and Kozhikode.
3. The yield rates of paddy for all the three seasons show an increasing trend over the years. The yield rate was highest in respect of summer crop followed by autumn and winter. But the yield rate in most taluks of Alleppey, Cannanore and Kasaragod districts for autumn crop is not showing similar trends.
4. The taluks in Kuttanad region, Idukki and Palghat districts generally excel in yield per hectare compared to other districts.
5. The percentage of area brought under high yielding varieties of paddy was highest in respect of summer paddy followed by autumn and winter crops.

6. The high yielding varieties of seeds were a success in taluks where there was an assured water supply and it was a failure in taluks where there was no assured water supply.
7. The percentage of area brought under irrigated paddy was highest in respect of summer crop followed by winter crop. The area brought under irrigated paddy was considerably less in respect of autumn paddy because of copious rain during this period.
8. The productivity of paddy was generally high in districts where the rate of consumption of chemical fertilizers (with the exception of Idukki) was higher than the State average.
9. The productivity of paddy was higher in taluks where there were better irrigation facilities.
10. The rate of consumption of chemical fertilizers was comparably less in Southern, Northern and Idukki districts. The rate of consumption of chemical fertilizers per unit of cropped area was one of the lowest in Kerala among the states of southern India.

In order to increase the area and productivity of paddy and to narrow down the growing gap between requirement and availability urgent steps have to be taken to draw up and execute flood control and irrigation schemes besides stepping up the rate of consumption of chemical fertilizers. Considering the state of the economy of the state pushing up the rate of consumption of chemical fertilizers should be undertaken on a priority basis. Over and above the trend of conversion of wet land to dry land is to be immediately checked to conserve the available wet land for feeding the millions of this state.

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Table 1 - Taluk-wise area under paddy - Autumn 1986-87 (area in hect.)

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
	2	3	4	5	6	7	8	9	10	11	12
1. Neyyattinkara	4299	4043	3958	4023	3940	3695	3694	3405	3171	3256	3167
2. Trivandrum	3440	3835	3499	3289	3179	3179	2843	2689	2530	2645	2544
3. Nedumangad	4592	4492	4080	4142	4256	4096	4127	3835	3619	3146	2923
4. Chirayinkil	4253	4126	3998	4106	3986	3830	3917	3236	4171	3828	3764
5. Quilon	2834	3227	3571	3484	3560	3898	4514	4140	3494	2975	2886
6. Karunagappally	3875	4161	4355	4003	3874	4060	3679	3305	3227	2990	2611
7. Kottarakkara	5714	5895	5991	5984	5958	6259	6403	6131	5674	5654	5385
8. Pathanapuram	3947	4003	3979	4082	3997	3904	3922	3728	3729	3678	3606
9. Kunnathoor	4910	4996	4638	4483	4693	4590	4545	4347	2873	1370	1344
10. Adoor	-	-	-	-	-	-	-	-	3106	2231	1847
11. Pathanamthitta (Kozhencherry)	1909	1964	2077	1897	2060	1829	1372	1753	1753	1082	1267
12. Ranni	-	-	-	-	-	-	-	-	254	179	124
13. Karthigappally	2064	2977	3012	3436	4268	4043	3614	4103	3829	1142	3193
14. Mavelikkara	4461	5120	5031	5148	5252	5931	5579	4827	4827	5142	4516
15. Chengannur	2923	3238	2948	3060	2917	3000	3207	3021	2719	1065	1944
16. Thiruvalla	2076	1931	1832	1681	1860	1873	1873	1873	1221	1058	1274
17. Mallappally	-	-	-	-	-	-	-	-	1060	540	491
18. Kuttanad	6272	9620	<del>10678</del> 1369	11094	10829	10909	10245	10219	13636	1364	14131
19. Ambalapuzha	4189	4243	<del>1365</del> 2826	2826	3163	3615	3234	4071	3776	1246	1295
20. Sherthalai	4188	4574	4201	4477	4730	4676	4749	4479	3969	3572	3922

(table 1 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	1454	1664	1726	1476	2042	1885	1536	1055	1221	1221	1221	1278
22. Kanjirappally	26	46	26	22	73	53	16	22	47	47	47	76
23. Kottayam	8578	7011	6168	5811	5235	5879	5859	5307	5307	5307	3184	5586
24. Vaikom	3793	4706	3584	3402	3846	4554	4338	4203	3360	3360	4308	4036
25. Meenachil	2515	2154	2435	2511	2289	2064	2432	2319	1624	1624	1624	1768
26. Peeramad	183	180	-	-	4	4	4	-	-	-	-	-
27. Devicolam	1855	1470	176	481	941	941	1302	1320	1052	1052	1013	852
28. Udumbanchola	1479	1100	3	11	155	155	155	-	75	75	78	13
29. Thodupuzha	4360	3834	2983	2967	2762	2414	2393	2510	2398	2398	2340	2111
30. Kothamangalam	4822	4833	4018	4167	4318	4435	4039	3512	3634	3634	3325	3059
31. Moovattupuzha	5006	5924	5171	5456	5468	5486	4886	4144	4491	4491	3994	3884
32. Cochin	1642	2375	2019	1565	1615	1671	2533	2329	2160	2160	1598	1911
33. Kanayannur	6068	4697	5276	5415	5034	4630	3876	3417	3472	3472	3679	3373
34. Kunnathunad	10661	11211	12165	12576	12544	10810	11311	10341	11381	11381	10040	9375
35. Alwaye	8963	9606	9357	10006	10272	9759	9870	8543	8543	8543	8638	8207
36. Parur	4066	3683	3783	3890	3923	3311	3538	3450	3009	3009	3146	3556
37. Cranganore	718	605	825	700	811	817	1069	807	702	702	582	463
38. Mukundapuram	10742	11788	12840	12657	13244	13931	13244	11622	11289	11289	9240	8351
39. Trichur	7840	8468	8848	8203	8000	7245	6326	5569	6190	6190	6809	6185
40. Thalappally	16603	17264	16026	15612	14876	16148	16367	16270	15149	15149	15069	14109
41. Chavakkad	6398	6354	3902	3803	3653	3653	3655	3652	2246	2246	662	580
42. Chittoor	21022	20690	19632	19514	21381	23086	21029	21031	20923	20923	21778	22203

(contd.)

1	2	3	4	5	6	7	8	9	10	11	12
43. Alathur	19181	19525	21023	20460	18918	19886	20169	20353	20242	18035	18549
44. Palghat	19345	18533	19518	20551	21583	19863	21031	20376	18771	20343	19324
45. Ottappalam	21121	20544	20388	21088	20401	20561	20561	19569	19837	19156	17994
46. Mannarghat	7378	7409	7157	7368	7479	6648	6648	6566	6566	5645	4875
47. Perinthalmanna	8651	8723	7855	8375	8389	8321	8063	7481	7396	6488	6505
48. Ponnani	4309	5225	4694	3824	3821	4156	3861	2434	3197	2987	2911
49. Tirur	13173	11549	9451	10331	10348	10065	10065	8381	7901	6157	6592
50. Ernad	18059	16607	17436	16915	16045	14974	14742	15483	13757	12949	11239
51. Kozhikode	5726	6053	5024	4659	4595	4466	1380	4401	3219	2578	2059
52. Quilandy	4104	3906	3490	3029	3182	3321	1315	3273	2588	1808	1874
53. Badagara	2835	2719	2204	2039	2002	2299	1514	2003	1632	1118	1074
54. Vythiri	309	144	-	26	47	47	50	-	-	-	3
55. Sulthan battery	-	-	-	-	-	-	-	-	4	7	16
56. Mananthody	227	30	-	16	21	21	21	-	-	-	3
57. Tellicherry	6952	6799	6821	6456	6005	5656	5163	5798	4710	3850	4190
58. Cannanore	9020	8645	7474	6838	6914	6859	7586	6813	6664	7757	6760
59. Thaliparamba	9818	8854	8472	8781	8448	8167	7900	8809	7128	6803	6293
60. Hosdurg	9427	8398	6927	6823	6816	6216	8698	6849	5975	6888	6446
61. Kasaragod	9177	9340	8713	9334	9221	9235	8765	8609	8113	6592	6652
<b>State</b>	<b>363822</b>	<b>365111</b>	<b>346827</b>	<b>348373</b>	<b>349243</b>	<b>347077</b>	<b>342669</b>	<b>327783</b>	<b>318611</b>	<b>279699</b>	<b>286569</b>

Table 2 - Taluk-wise area under paddy - Winter 1976- 1987 (area in hect.)

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
	2	3	4	5	6	7	8	9	10	11	12
1. Neyyattinkara	4416	3960	4066	4046	4522	3699	3395	3247	3277	3319	3215
2. Trivandrum	4374	3584	3625	3352	3042	2908	2634	2606	2463	2654	2527
3. Nedumangad	4737	4306	4060	4064	4141	3968	3762	3580	3481	3227	3111
4. Chirayinkil	4399	4198	4300	4304	4410	4293	4584	4113	3982	3967	3913
5. Quilon	3372	3609	3785	3634	3794	3838	3788	3251	3205	3197	2819
6. Kottarakkara	5787	6148	6117	6053	5803	6001	5939	6222	5870	5577	5479
7. Pathanapuram	4193	3755	3968	3892	3957	3861	3960	3776	3660	3658	3608
8. Karunagappally	4803	4544	4519	4542	4319	4227	4309	4083	3962	3780	3355
9. Kunnathoor	4619	4760	4526	4729	4845	4908	4595	4557	1629	1708	1596
10. Adoor	-	-	-	-	-	-	-	-	2716	3081	2463
11. Kozhencherry	2300	2308	2449	2209	2372	2232	1867	2177	2646	2047	2239
12. Ranni	-	-	-	-	-	-	-	-	309	368	331
13. Mallappally	-	-	-	-	-	-	-	-	391	462	460
14. Thiruvalla	1603	1923	969	1312	1137	1051	1139	826	487	549	464
15. Karthigappally	4342	4143	4187	4359	4729	4906	4746	3471	3345	3613	3224
16. Mavelikkara	4797	5430	4917	5327	5433	5922	5569	4530	4801	5214	3812
17. Chengannur	2747	2813	2158	2163	2461	2783	2483	2695	2605	2017	1968
18. Kuttanad	18354	10609	1380	761	5916	5928	7129	3286	3302	3524	4941
19. Ambalapuzha	2815	3135	896	3042	3075	3075	3075	1022	999	984	1749
20. Shertallai	4151	4197	2347	2277	2626	2566	2660	1956	1472	1723	1735



(table 2 contd.)

1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	1022	344	554	678	908	1108	827	1537	1457	1574	1327
22. Kanjirappally	31	13	16	23	86	145	79	112	96	84	104
23. Kottayam	6156	6262	2899	2170	2644	3821	3821	4852	4818	5205	4707
24. Vaikom	6643	5491	7064	4633	4635	5039	6134	5667	5901	5775	5085
25. Meenachil	2352	2283	2771	2657	2526	2591	2400	2415	2343	2602	2348
26. Peermade	110	47	22	55	69	63	53	22	42	44	39
27. Devicolam	1995	1732	1174	972	1453	1250	1295	134	212	260	487
28. Udumbanchola	1432	1919	1325	537	934	1170	1170	1196	1913	1899	1029
29. Thodupuzha	3550	3142	2875	2546	2644	2655	2718	2603	2423	2244	2116
30. Kothamangalam	4960	4368	3634	3594	3706	4086	4263	3244	3725	3438	3046
31. Muvattupuzha	6632	6283	7009	6318	6379	6103	6343	5772	5493	5223	4825
32. Cochin	-	-	-	-	-	-	-	-	-	-	-
33. Kanayannur	3402	4026	3562	3777	4048	3773	3970	3702	4042	3611	3199
34. Kunnathunad	12606	11598	11220	11983	12363	13813	13296	12985	13025	11796	11000
35. Alwaye	10354	9489	9619	9816	10107	9598	9889	9117	9395	8551	8491
36. Parur	3932	3773	3884	3364	3116	4006	3116	2174	2742	2864	2499
37. Cranganore	990	1497	2144	1936	2119	2286	2354	2093	2058	1974	1624
38. Mukunadapuram	16823	16663	16797	15236	15771	16515	15645	15251	15277	12954	12561
39. Trichur	14804	15250	12640	12835	12853	15811	13561	12008	14080	12710	11248
40. Thalappally	15862	16651	15761	14341	14518	14509	14249	15954	15424	15275	14146
41. Chowghat	6155	6235	4075	4072	3907	2449	3907	2914	2866	2758	2021
42. Chittoor	16021	17936	17324	15469	16736	17130	17641	19158	17509	17092	17262

(contd.)

(table 2 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
43. Alathoor	18593	18503	22178	28139	28540	26448	19695	18722	19594	16370	16796	
44. Palghat	17202	18476	17509	17563	18818	18425	19239	16471	16164	16618	14299	
45. Ottappalam	19403	18677	18766	17070	17899	17664	18171	17190	17876	16715	16264	
46. Mannarghat	7589	7497	7442	7480	7557	7149	6298	6151	6863	7155	6386	
47. Perinthalmanna	6891	7106	6518	6830	6996	6810	6531	6263	6128	5850	5591	
48. Ponnani	4716	5623	3841	3075	3490	4171	4631	5557	5882	3937	4074	
49. Tirur	11628	11837	9971	10216	10239	10255	11197	9918	10327	9695	9136	
50. Eranad	17148	15950	16052	15088	15287	14654	15091	13565	13524	12607	11662	
51. Kozhikode	6862	7238	6822	6611	6297	6406	6823	5430	5539	5168	4983	
52. Quilandy	6376	5503	5606	5260	5113	4756	4434	4105	4050	3871	3457	
53. Badagara	3662	3522	3097	3003	2971	2872	2971	1751	1843	1854	1944	
54. Vythiri	14410	13657	18251	13799	14080	5424	6903	8387	5932	6453	6191	
55. Sultan battery	-	-	-	-	-	8116	8116	6174	8916	9226	8403	
46. Mananthavady	8144	7595	9122	9075	8939	9153	9236	9295	8215	8969	9761	
57. Tellicherry	3939	4183	4479	3867	3927	4197	4384	3350	3152	2948	3153	
58. Cannanore	2784	3276	2818	2717	2902	4030	2905	3100	3193	2440	2862	
59. Taliparamba	5287	4703	3969	4620	4502	4117	4328	3513	3550	3800	3181	
60. Hosdurg	2894	3440	2407	2964	3184	3124	3231	2872	2899	3290	3144	
61. Kasaragod	6509	6146	5241	5149	5292	5246	5719	4438	4182	3855	3608	
State	381678	270859	345727	339608	354132	356074	352273	324560	326812	313423	297068	

Table 3 - Taluk-wise area under paddy - Summer 1976 - 1987 (area in hect.)

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
	2	3	4	5	6	7	8	9	10	11	12
1. Neyyattinkara	1028	528	407	400	381	365	165	161	152	167	110
2. Trivandrum	894	420	349	280	240	240	244	175	139	116	116
3. Nedumangad	1124	819	594	433	384	392	11	15	21	14	45
4. Chirayinkil	420	218	144	124	102	110	15	17	14	13	9
5. Quilon	582	288	227	215	191	165	75	76	118	98	60
6. Kottarakkara	228	141	105	85	77	84	84	43	43	30	16
7. Pathanapuram	8	18	14	13	10	8	27	18	14	11	6
8. Kunnathur	178	69	105	85	74	84	84	86	76	65	50
9. Karunagappally	301	424	334	308	273	255	255	24	240	23	3
10. Adoor	-	-	-	-	-	-	-	-	25	25	53
11. Kozhencherry	96	73	55	197	198	183	183	183	11	221	166
12. Ranni	-	-	-	-	-	-	-	-	-	121	66
13. Thiruvalla	4572	4191	3302	2289	2765	3305	2922	2782	3349	2428	1831
14. Mallappally	-	-	-	-	-	-	-	-	111	106	60
15. Karthigappally	5759	5076	4278	3482	3020	2993	2993	3474	3650	3330	3521
16. Mavelikkara	2133	1984	2440	2681	2516	2226	2496	4222	2489	2440	3799
17. Chengannur	2164	1845	1793	1950	1923	1994	850	1089	1073	1289	1183
18. Kuttanad	5920	11844	16755	17742	12904	16860	14305	15228	16082	17149	11905
19. Ambalapuzha	3061	2514	1008	950	950	950	950	1896	1576	1231	1000
20. Shertalai	-	-	-	-	-	-	-	-	-	-	-

(contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	3242	5789	2439	2755	2580	2325	2954	2219	1997	2028	2377	
22. Kanjirappally												
23. Kottayam	11386	7767	7767	6134	4472	4352	3939	4922	3780	4101	1	1
24. Vaikom	1650	1650		442	411	411	60	19	16	77	4602	
25. Meenachil	399	398		214	201	201	201	152	21	53	110	
26. Peermade	110	52	22	12							198	
27. Devicolam	319	319	252	243	199	199	53	118			4	
28. Udumbanchola												
29. Thodupuzha	61	10			72	72	72	126	120	113	171	
30. Kothamangalam	704	630	792	840	788	753	306	523	501	563	245	
31. Muvattupuzha	1896	761	761	1262	1233	1207	895	1256	1134	1223	18	486.
32. Cochin												878
33. Kanayannur	37	856	591	481	445	441	162	546				
34. Kunnathunad	4511	5224	6659	7299	8274	7839	5346	5335	434	417	570	
35. Alwaye	5345	5504	6930	7722	7076	6769	6465	6653	5408	5549	5083	
36. Parur	3471	3562	2976	2923	2270	2098	2698	1718	5048	5219	5440	
37. Cranganore	48	73	33	49	51	68	117	77	1294	1375	1709	
38. Mukundapuram	7613	9564	8532	9739	9681	9270	9532	5142	61	52	55	
39. Trichur	7235	7987	7102	8120	7881	7433	8082	8865	6440	6570	7094	
40. Thalappally	1670	1637	2030	3230	2447	2291	2390	1632	8122	7647	7203	
41. Chowghat	1581	1869	1293	791	1199	1500	2026	1618	1494	2045	1558	
42. Chittoor	323	140	564	1066	1538	1676	1466	871	1134	945	1272	
									863	590	519	

(contd.)

(table 3 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
43. Alathoor	176	45	207	51	88	94	137	67	55	66	83	
44. Palghat	625	983	743	580	476	427	404	180	190	184	137	
45. Ottappalam	1309	1488	1306	1184	992	934	912	639	632	496	525	
46. Mannarghat	1640	1511	1298	595	965	1191	1099	919	707	631	684	
47. Perinthalmanna	1296	1768	1510	652	877	936	1006	710	572	487	421	
48. Ponnani	2666	2877	1646	1436	1468	1767	1458	1306	2428	1994	1782	
49. Tirur	1644	1594	1745	2830	2388	1901	2114	1818	1891	1916	1864	
50. Eranad	723	766	879	726	770	803	1050	192	776	676	725	
51. Kozhikode	862	951	893	1006	953	929	838	779	800	842	807	
52. Quilandy	1115	1505	1499	1938	1837	1713	1700	1178	1239	1411	1335	
53. Badagara	138	92	133	279	212	132	295	217	153	221	191	
54. Vythiri	3958	4894	4183	4192	4343	4390	1593	806	1062	1020	1167	
55. S. Battery	-	-	-	-	-	-	2760	2375	2578	2540	2262	
56. Mananthody	1868	2572	2024	2208	2565	2705	2975	2975	3075	2944	2683	
57. Tellicherry	412	427	500	586	532	527	462	361	402	558	475	
58. Cannanore	35	27	54	29	109	147	135	56	34	39	35	
59. Taliparamba	328	385	562	288	590	727	662	226	186	128	160	
60. Hosdurg	1366	1915	1677	1169	1152	1429	1587	931	767	757	767	
61. Kasaragod	2112	1955	2297	2102	1909	1759	1689	1261	1032	1018	944	
State	105770	108874	104404	106684	105285	98324	103700	83548	87743	84950	85159	

Table 4 - Index of variation in taluk-wise area under paddy 1976-77 to 1986-87 - Autumn

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12
1. Neyyattinkara	86.6	81	80	81	79	74	74	69	64	66	64
2. Trivandrum	92	102	93	88	85	85	76	72	67	71	68
3. Nedumangad	96	94	86	87	89	86	87	81	76	66	61
4. Chirayinkil	107	103	100	103	100	96	98	81	105	96	94
5. Quilon	96	109	121	118	121	132	153	140	118	101	98
6. Karunagappally	110	118	123	113	110	115	104	94	91	85	74
7. Kottarakkara	96	99	100	100	100	105	107	103	95	95	90
8. Pathanapuram	96	97	96	99	97	95	95	91	91	90	88
9. Kunnathoor	106	108	100	97	101	99	98	94	129	78	67
10. Adoor	100	-	-	-	-	-	-	-	-	-	-
11. Pathanamthitta Kozhencherry	115	119	125	115	124	110	83	106	121	-	-
12. Ranni	100	-	-	-	-	-	-	-	-	76	84
13. Thiruvalla	104	96	91	84	93	94	94	94	114	80	88
14. Mallappally	100	-	-	-	-	-	-	-	-	-	-
15. Karthigappally	58	84	87	97	120	114	102	115	108	-	-
16. Mavelikkara	101	115	113	116	118	134	126	109	109	32	90
17. Chengannur	107	119	108	112	107	110	118	111	100	116	102
18. Kuttanad	77	118	131	136	132	133	125	125	167	39	71
19. Amabalapuzha	121	125	40	83	93	106	95	119	111	17	173
20. Sertellai	83	90	83	88	93	92	94	89	78	37	38
										71	77

(contd.)

(table 4 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	88	100	104	89	123	114	93	64	74	74	74	77
22. Kanjirappally	58	102	58	49	162	118	36	49	104	104	104	169
23. Kottayam	141	115	101	95	86	97	96	87	87	87	52	92
24. Vaikom	115	143	109	103	117	138	132	128	102	102	1309	131
25. Meenachil	112	96	109	112	102	92	109	104	73	73	73	79
26. Peermade	101	99	-	-	2	2	2	-	-	-	-	-
27. Devicolam	155	123	15	40	79	79	109	110	88	88	85	71
28. Udumbanchola	115	85	-	1	12	12	12	-	6	6	6	1
29. Thodupuzha	109	95	74	74	69	60	60	62	60	60	58	53
30. Kothamangalam	108	108	98	93	97	99	91	79	81	81	75	69
31. Muvattupuzha	97	115	101	106	106	107	95	81	87	87	78	76
32. Cochin	69	99	85	66	68	70	106	98	91	91	67	80
33. Kanayannur	94	72	81	83	78	71	60	53	54	54	57	52
34. Kunnathunad	109	109	114	124	128	128	110	115	106	106	116	102
35. Alwaye	106	106	114	111	119	122	116	117	101	101	101	103
36. Parur	105	96	98	101	102	86	91	89	78	78	82	92
37. Cranganore	107	98	134	114	132	133	174	131	114	114	95	75
38. Mukundapuram	108	118	129	127	133	139	133	116	113	113	93	84
39. Trichur	101	109	114	105	103	93	81	71	79	79	87	79
40. Thalappally	100	104	96	94	89	97	98	98	91	91	91	85
41. Chowghat	118	117	72	70	67	67	67	67	41	41	12	11
42. Chittoor	103	101	96	96	105	113	103	103	103	103	107	110

(contd.)

(table 4 contd.)

1	2	3	4	5	6	7	8	9	10	11	12	
43. Alathoor	98	99	107	104	96	101	103	104	103	92	11	12
44. Palghat	90	86	91	96	101	93	98	95	88	95	94	94
45. Ottappalam	91	89	88	91	88	89	89	85	86	83	83	90
46. Mannarghat	102	102	99	101	103	91	91	90	90	78	78	78
47. Perunthalmanna	82	83	75	80	80	79	77	71	70	78	67	67
48. Ponnani	79	96	86	70	70	76	71	45	58	62	62	62
49. Tirur	112	98	80	88	88	86	86	71	67	55	53	53
50. Eranad	101	93	97	95	90	84	82	71	67	52	56	56
51. Kozhikode	77	82	68	63	62	60	19	87	77	72	63	63
52. Quilandy	76	73	65	56	59	62	24	59	43	35	28	28
53. Badagara	72	69	56	51	50	58	38	61	48	34	35	35
54. Vythiri	136	63	-	11	21	21	22	50	41	28	27	27
55. S. Battery	-	-	-	-	-	-	-	-	-	-	-	-
56. Mananthody	-	34	-	18	24	24	-	-	25	44	100	100
57. Tellicherry	94	92	92	87	81	77	24	-	-	-	3	3
58. Cannanore	101	97	84	76	77	77	70	78	64	52	57	57
59. Taliparamba	100	92	88	91	88	85	85	76	74	87	76	76
60. Hosdurg	91	81	67	66	66	60	82	91	74	71	65	65
61. Kasaragod	64	66	61	66	65	65	84	66	58	66	62	62
State	96	97	92	93	93	92	91	87	85	75	76	76



Table 5 - Index of variation in taluk-wise area under paddy 1976-77 to 1986-87 - Winter

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1. Neyyattinkara	91	85	82	80	84	80	83	88	93	82	76
2. Trivandrum	106	105	87	88	88	81	88	81	82	74	70
3. Nedumangad	101	82	92	86	86	81	86	83	85	82	80
4. Chirayinkil	99	105	94	102	97	89	97	89	103	96	103
5. Quilon	86	111	92	122	97	128	97	130	99	132	97
6. Kottarakkara	91	111	97	131	96	108	95	101	91	135	94
7. Pathanapuram	98	82	88	89	93	89	91	101	92	89	90
8. Karunagappally	102	81	97	84	96	101	97	100	92	115	90
9. Kunnathoor	95	80	98	88	93	93	98	100	100	101	101
10. Adoor	-	-	-	-	-	-	-	-	-	-	-
11. Pathanamthitta	88	98	83	99	100	105	82	95	102	96	96
12. Kozhencherry	132	110	110	110	101	111	101	111	111	111	111
13. Malleppally	100	82	87	73	80	50	67	80	80	80	80
Thiruvalla	89	112	104	104	104	104	104	104	104	104	104
14. Karthigappally	90	86	86	87	87	91	91	91	91	91	91
15. Mavelikkara	92	104	104	94	104	113	106	86	92	100	103
16. Chengannur	101	103	103	79	100	102	91	99	95	74	73
17. Kuttanad	127	87	73	10	10	5	5	49	23	24	32
18. Ambalapuzha	103	115	115	33	113	113	113	113	113	113	113
19. Shertalai	98	99	99	55	62	60	63	46	37	41	41
20. Changanacherry	109	37	59	72	96	118	88	163	155	167	141

(contd.)

(table 5 contd.)

1	2	3	4	5	6	7	8	9	10	11	12
21. Kanjirappally	50	21	26	37	139	234	127	181	155	135	168
22. Kottayam	94	102	47	35	43	62	62	79	78	85	76
23. Vaikom	103	85	110	72	72	78	95	88	92	90	79
24. Meenachil	93	91	110	106	100	103	95	95	93	103	93
25. Peermade	134	57	27	67	84	77	65	27	51	54	48
26. Devicolam	75	65	44	36	54	47	48	5	8	10	18
27. Udumbanchola	86	115	79	32	56	70	70	72	115	114	62
28. Thodupuzha	100	94	86	76	79	80	81	78	73	67	63
29. Kothamangalam	135	119	99	98	101	111	116	88	101	93	83
30. Muvattupuzha	98	93	104	93	94	90	94	85	81	77	71
31. Cochin	-	-	-	-	-	-	-	-	-	-	-
32. Kanayannur	84	99	88	93	100	93	98	91	100	89	79
33. Kunnathunadu	106	97	94	101	104	116	112	109	109	99	92
34. Alwaye	104	95	96	98	101	96	99	91	94	86	85
35. Parur	122	117	121	104	97	124	97	67	85	89	78
36. Granganore	74	111	159	144	158	170	175	156	153	147	121
37. Mukundapuram	103	102	103	94	97	102	96	94	94	80	77
38. Trichur	93	96	79	81	81	99	85	75	88	80	71
39. Thalappally	97	102	97	88	89	89	88	98	95	94	87
40. Chowghat	91	92	60	60	58	36	58	43	42	41	30
41. Chittoor	85	96	92	82	89	91	94	102	93	91	92
42. Alathoor	97	96	115	147	149	138	103	97	102	85	87

(contd.)

(table 5 contd.)

1	2	3	4	5	6	7	8	9	10	11	12
43. Palghat	100	108	102	103	110	108	112	96	94	97	83
44. Otteppalam	105	101	102	92	97	96	98	93	97	90	88
45. Mannarghat	107	106	105	105	106	101	89	87	97	101	90
46. Perinthalmanna	105	108	99	104	106	104	99	95	93	89	85
47. Ponnani	84	101	69	55	62	75	83	99	105	70	73
48. Tirur	103	105	89	91	91	91	100	88	92	86	81
49. Eranad	110	102	103	97	98	94	97	87	87	81	75
50. Kozhikode	86	91	85	83	79	80	85	68	69	65	62
51. Quilandy	103	89	90	85	82	77	72	66	65	62	56
52. Badagara	106	102	90	81	86	83	86	51	54	54	56
53. Vythiri	100	95	106	96	98	94	104	101	103	109	107
54. S. Battery	100	91	109	109	107	110	111	111	98	108	117
55. Mananthody	98	111	119	103	104	111	116	89	84	78	84
56. Tellicherry	105	111	119	103	104	111	116	89	84	78	84
57. Cannanore	110	129	111	107	114	120	114	122	126	96	113
58. Taliparamba	99	88	74	84	84	77	81	66	67	71	60
59. Hosdurg	82	98	68	84	91	89	92	82	82	94	89
60. Kasaragod	111	105	89	88	90	90	98	76	71	66	62
State	100	97	90	89	92	93	92	85	85	82	78

Table 6 - Index of variation in taluk-wise area under paddy 1976-77 to 1986-87 - Summer

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12
1. Neyyattinkara	158	81	63	62	59	56	25	25	23	26	17
2. Trivandrum	149	70	58	47	40	40	41	29	23	19	19
3. Nedumanged	162	118	86	63	55	57	2	2	3	2	7
4. Chirayinkil	98	51	33	29	24	26	3	4	3	3	2
5. Quilon	147	73	57	54	48	42	19	19	30	25	15
6. Kottarakkara	138	85	64	52	47	51	51	26	26	18	10
7. Pathanapuram	62	138	108	100	77	62	208	138	31	85	46
8. Kunnathoor	132	51	78	63	55	62	62	64	75	67	76
9. Karunagappally	75	105	83	77	68	64	64	1	6	1	1
10. Adoor	100	-	-	-	-	-	-	-	-	-	-
11. Kozhencherry	100	89	67	246	240	223	223	223	213	417	283
12. Ranni	100	-	-	-	-	-	-	-	-	-	-
13. Thiruvalla	100	105	83	57	69	83	73	70	84	64	47
14. Mallappally	100	-	-	-	-	-	-	-	-	-	-
15. Karthigappally	120	106	89	73	63	63	63	73	76	70	74
16. Mavelikkara	74	70	85	94	88	78	87	148	87	85	133
17. Chengannur	95	81	79	85	84	87	37	48	47	56	52
18. Kuttanad	42	83	118	125	91	118	100	107	113	120	84
19. Ambalapuzha	98	80	32	30	30	30	30	61	50	39	32
20. Shertalai	-	-	-	-	-	-	-	-	-	-	-
21. C	-	-	-	-	-	-	-	-	-	-	-

(contd.)

(table 6 contd.)

1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	90	105	68	76	71	64	82	61	55	56	12
22. Kanjirappally	-	-	-	-	-	-	-	-	-	-	-
23. Kottayam	111	77	77	61	44	43	39	49	37	41	46
24. Vaikom	92	92	-	25	23	23	3	1	1	4	6
25. Meenachil	101	101	-	54	51	51	51	38	5	13	50
26. Peermede	73	73	31	17	-	-	-	-	-	-	1
27. Devicolam	100	100	79	76	62	62	17	37	38	35	54
28. Udumbanchola	-	-	-	-	100	100	100	175	175	336	340
29. Thodupuzha	59	28	-	-	78	94	94	119	67	50	50
30. Kothamangalam	127	114	143	152	143	136	55	95	91	102	88
31. Muvattupuzha	186	75	75	124	121	118	88	123	111	120	86
32. Cochin	-	-	-	-	-	-	-	-	-	-	-
33. Kanayannur	8	204	141	115	106	106	39	130	103	99	136
34. Kunnathunad	118	137	174	191	218	205	140	140	142	145	133
35. Alwaye	103	130	144	132	127	121	124	94	98	102	113
36. Parur	112	86	84	65	60	78	50	37	40	49	39
37. Cranganore	152	69	102	106	142	244	160	127	108	115	156
38. Mukundapuram	126	112	128	127	122	125	68	85	86	93	94
39. Trichur	110	98	112	109	103	112	123	112	106	100	104
40. Thalappally	98	122	193	147	137	143	98	89	122	93	145
41. Chowghat	118	82	50	76	95	128	102	72	60	80	67
42. Chittoor	43	175	330	476	519	454	270	267	183	161	1

(contd.)

(table 6 contd.)

1	2	3	4	5	6	7	8	9	10	11	12
43. Alathoor	26	118	29	50	53	78	38	31	38	47	19
44. Palghat	157	119	93	76	68	65	29	30	29	22	20
45. Ottappalam	114	100	90	76	71	70	49	48	38	40	21
46. Mannarghat	145	125	57	93	115	106	88	68	61	66	35
47. Perinthalmanna	136	117	50	68	72	78	55	44	38	32	26
48. Ponnani	108	62	54	55	66	55	49	91	75	67	80
49. Tirur	97	106	172	145	116	129	111	115	117	113	93
50. Eranad	100	122	100	107	111	145	27	107	94	100	83
51. Kozhikode	110	101	117	111	108	97	90	93	98	94	116
52. Quilandy	135	130	174	165	154	152	106	111	127	120	139
53. Badagara	67	96	202	154	96	214	157	111	160	138	133
54. Vythiri	124	106	106	110	111	110	80	92	90	87	117
55. Sulthan battery	-	-	-	-	-	-	-	-	-	-	-
56. Mananthody	138	108	118	137	145	159	159	165	158	144	152
57. Tellicherry	104	121	142	129	128	112	88	98	135	115	92
58. Cannanore	77	154	83	311	420	386	160	97	111	100	60
59. Thaliparamba	117	171	88	180	222	202	69	57	39	49	38
60. Hosdurg	140	125	86	84	105	116	68	56	55	56	38
61. Kasaragod	93	109	100	90	83	80	60	49	48	45	42
State	103	99	101	100	93	98	79	83	80	81	76

Base : average for the triennium ending 1978-79 = 100

Table 7 - Distribution of taluks according to various size classes of area under paddy

Size classes	1976-77			1977-78			1978-79			1979-80			1980-81			1981-82		
	A	W	S	A	W	S	A	W	S	A	W	S	A	W	S	A	W	S
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Below 250	3	2	12	4	2	11	3	2	10	4	2	13	5	2	15	5	2	14
250 - 499	1	-	6	-	1	5	-	-	6	1	-	7	-	-	6	-	-	8
500 - 749	1	-	2	1	-	6	-	1	7	1	2	2	-	-	2	-	-	1
750 - 999	-	1	4	-	-	5	1	2	3	-	2	7	2	2	6	2	-	4
1000 - 1499	2	2	4	2	2	4	1	3	6	1	1	5	-	2	3	-	4	6
1500 - 1999	3	3	9	3	2	7	2	-	2	3	1	3	2	1	7	4	-	5
2000 - 2499	2	2	2	2	2	3	4	5	4	1	4	4	4	2	2	3	3	5
2500 - 2999	4	4	2	2	1	2	2	4	2	3	4	3	2	7	4	-	6	4
3000 - 3999	4	6	3	6	10	1	10	9	2	9	10	1	12	10	1	10	9	1
4000 - 4999	12	12	3	11	10	2	6	9	2	9	9	1	6	9	2	10	10	1
5000 - 9999	16	12	5	17	14	6	16	11	5	13	10	5	13	9	4	13	13	4
10000 & above	9	13	1	9	12	1	9	10	1	11	11	1	11	13	1	10	10	1
	57	57	53	57	56	53	54	56	50	56	56	52	57	56	53	57	57	54
	+4			+1	+4	+3	+1	+1	+7	+1	+1	+5	+1	+1	+4	+1	+1	+4

+ number of taluks where no crop was raised in a season

(table 7 contd.)

Size classes	1982-83			1983-84			1984-85			1985-86			1986-87			1987-88		
	A	W	S	A	W	S	A	W	S	A	W	S	A	W	S	A	W	S
1	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Below 250	5	2	21	1	3	21	3	3	23	4	2	25	6	2	27	5	2	17
250 - 499	-	-	4	-	-	1	1	3	3	-	3	3	2	4	5	-	5	8
500 - 749	-	-	2	-	-	5	1	-	5	3	1	6	1	-	3	2	-	3
750 - 999	-	1	8	1	1	4	-	1	3	-	1	2	1	-	4	2	-	1
1000 - 1499	4	3	3	2	2	8	4	2	7	10	1	5	6	2	4	3	2	9
1500 - 1999	1	1	4	2	3	2	3	3	3	3	6	4	5	6	4	8	6	2
.2000 - 2499	3	3	2	4	4	2	3	4	2	2	4	4	2	6	3	1	3	3
2500 - 2999	2	5	4	2	5	2	4	6	2	5	5	1	5	3	1	6	9	1
3000 - 3999	12	10	1	11	11	2	15	12	3	11	16	1	9	14	2	9	11	-
4000 - 4999	8	9	-	9	7	2	5	5	-	1	-	1	4	5	1	5	4	1
5000 - 9999	12	13	4	12	12	4	10	11	4	12	13	4	12	9	4	9	10	4
10000 & above	10	10	1	9	9	1	9	10	1	7	9	1	7	9	1	6	8	1
57	57	54	53	57	54	58	60	56	58	61	57	60	60	59	56	60	50	
+1	+1	+4	+8	+4	+7	+3	+1	+5	+3	+4	+1	+1	+1	+2	+5	+1	+11	



Table 8 - Distribution of taluks according to various size classes of production of rice

Size classes	1976-77			1977-78			1978-79			1979-80			1980-81			1981-82		
	A	W	S	A	W	S	A	W	S	A	W	S	A	W	S	A	W	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Below 100 tonnes	1	1	18	2	2	8	2	2	9	4	1	6	3	-	6	3	-	5
100 - 249	1	1	6	1	1	4	-	-	2	-	1	5	2	2	9	1	1	7
250 - 499	2	-	3	2	5	5	2	1	7	1	-	7	1	-	3	2	1	6
500 - 749	1	-	5	-	1	4	-	-	1	1	-	1	-	-	3	-	-	4
750 - 999	-	1	2	-	4	4	-	1	4	-	2	4	-	-	3	-	-	1
1000 - 1499	1	-	1	-	1	4	1	2	4	1	3	4	1	1	5	-	1	5
1500 - 1999	-	1	4	1	-	1	2	1	3	3	1	5	3	3	3	2	-	2
2000 - 2999	10	5	5	7	2	7	3	3	3	3	4	2	3	4	4	5	6	6
3000 - 3999	6	4	3	6	5	3	4	6	-	2	7	4	2	6	3	3	4	3
4000 - 4999	4	3	3	5	11	2	3	6	4	5	6	5	6	8	3	9	8	4
5000 - 7499	11	14	6	9	13	4	15	15	4	12	12	4	12	10	5	9	12	3
7500 - 9999	2	7	2	4	2	-	5	4	3	8	4	-	8	5	2	7	6	4
10000 - 14999	10	7	4	10	8	6	8	7	5	6	5	3	8	6	2	9	7	3
15000 - 19999	4	2	1	5	1	-	3	1	-	3	3	1	1	3	1	1	2	-
20000 - 24999	-	5	-	-	4	-	2	3	-	1	3	-	2	4	-	1	4	-
25000 & above	4	5	-	5	5	1	4	4	1	6	4	1	5	4	1	5	5	1
	57	56	53	57	56	53	56	56	50	56	56	52	57	56	53	57	57	54
	+1		+4	+1	+4	+3	+1	+7	+1	+1	+1	+5	+1	+1	+4			+3

(table 8 contd.)

Size classes	1982-83			1983-84			1984-85			1985-86			1986-87			1987-88		
	A	W	S	A	W	S	A	W	S	A	W	S	A	W	S	A	W	S
1	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Below 100 tonnes	4	1	13	1	1	12	2	1	13	2	1	11	4	-	15	2	-	8
100 - 249	-	1	5	-	2	8	2	1	7	1	1	9	2	2	9	2	2	1
250 - 499	1	-	6	1	-	2	-	3	2	2	-	4	2	-	6	1	3	7
500 - 749	-	-	2	-	-	1	1	-	6	3	3	6	1	1	3	1	2	4
750 - 999	1	-	4	-	-	5	1	2	3	-	2	4	-	2	1	2	3	2
1000 - 1499	1	1	3	-	4	3	1	2	3	3	2	2	5	3	3	2	2	2
1500 - 1999	-	2	3	3	2	2	3	1	3	6	1	2	2	2	1	1	-	4
2000 - 2999	4	4	4	3	2	7	5	3	3	4	2	5	6	4	3	8	4	6
3000 - 3999	4	6	4	6	8	1	5	6	3	4	4	3	4	8	4	2	7	4
4000 - 4999	7	4	-	6	6	2	7	7	1	5	13	1	8	9	2	3	7	1
5000 - 7499	11	13	3	7	11	4	9	13	4	9	9	4	6	7	3	17	11	3
7500 - 9999	9	8	2	13	7	4	9	2	4	6	3	3	7	6	3	5	4	1
10000 - 14999	6	6	3	5	4	1	4	8	3	5	8	3	6	5	3	4	7	3
15000 - 19999	5	2	1	3	4	1	4	2	-	4	2	-	2	4	1	2	2	-
20000 - 24999	1	5	-	1	3	1	-	5	-	-	5	-	2	4	-	1	5	-
25000 & above	3	4	1	4	3	1	5	4	1	4	4	1	3	3	1	3	2	1
	57	57	54	53	57	54	58	60	56	58	60	58	60	60	58	56	60	50
			+3		+4	+3	+3	+1	+5	+3	+1	+3	+1	+1	+3	+5	+1	+11

STATISTICS

Table 9 - Mean yield of paddy in kg./hectare for autumn crop

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
	2	3	4	5	6	7	8	9	10	11	12
1. Neyyattinkara	3214	2622	2759	2594	2172	2312	2640	2671	2887	3430	3719
2. Trivandrum	2199	2320	2466	2409	2385	2075	2500	2214	3084	3293	2670
3. Nedumangad	1914	1614	2042	1938	2150	2123	2093	2201	2705	2541	2340
4. Chirayinkil	1246	1960	2668	2174	2318	2005	2497	2255	2516	3441	2556
5. Quilon	1239	1343	2206	1742	1982	1680	1858	1768	2003	1884	1931
6. Kottarakkara	1540	2256	2835	2367	2496	2844	2883	2387	2394	3490	2761
7. Pathanapuram	1753	2879	2627	2436	2960	2888	3525	3239	2945	3452	3156
8. Karunagappally	558	1444	2033	1546	2792	1612	2643	2410	1754	2078	1992
9. Kunnathur	1632	1948	2100	2478	2062	2743	2659	1681	1716	2172	2302
10. Adoor	-	-	-	-	-	-	-	-	-	-	-
11. Kozhencherry	2304	2458	2765	3032	3029	2600	2820	3174	3031	2132	2213
Pathanamthitta	-	-	-	-	-	-	-	-	2859	2662	3065
12. Ranni	-	-	-	-	-	-	-	-	-	-	-
13. Thiruvalla	1707	2158	1625	1805	1695	1817	2577	2550	3224	2781	2891
14. Mallappally	-	-	-	-	-	-	-	-	2336	1841	1220
15. Karthigappally	2112	1894	1775	2634	2414	2236	1971	2822	2464	1756	1383
16. Mavelikkara	1275	1553	2012	2205	2261	1669	2090	2522	1967	806	1811
17. Chengannur	2094	2243	2434	2591	2640	1903	2872	2927	1742	1575	1562
18. Kuttanad	3435	3330	2136	3838	4199	3543	2902	2238	2090	2310	2053
19. Amabalapuzha	2662	1116	1221	400	699	1988	630	3593	4297	2525	1490
20. Shertallai	1642	690	1627	806	1010	1695	1140	1214	1544	2143	1358
										725	886

(contd.)

(table 9 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	2611	2572	2348	2591	2103	2108	3443	2708	2749	2044	1736	
22. Kanjirappally	2156	2726	2701	4001	3643	3475	2854	3905	2202	2558	3545	
23. Kottayam	2391	2312	2913	3137	2447	3421	3361	3980	3287	2178	2441	
24. Vaikom	1993	1939	2505	2293	3042	3075	3401	3314	5768	1298	2440	
25. Meenachil	2293	2729	2573	2864	2794	2205	2888	2488	2784	2702	2810	
26. Peermede	-	-	-	-	2304	2664	3044	-	-	-	-	
27. Devicolam	-	2284	2781	3434	2389	2916	4498	2180	2526	3062	3573	
28. Udumbanchola	-	2285	2588	3434	2304	2828	2995	-	2516	3064	3512	
29. Thodupuzha	2300	2286	2588	2811	2276	2532	3157	2712	3327	3042	3338	
30. Kothamangalam	2218	2318	2189	2348	2218	2308	2621	2619	2881	2539	2739	
31. Muvattupuzha	2204	2838	2434	2696	2738	2819	3258	2998	2894	2931	3309	
32. Cochin	2149	2972	2397	1830	1676	2262	2453	1844	1755	2199	1539	
33. Kanayannur	1705	1665	1882	1883	1863	1553	1593	2235	1995	2128	2206	
34. Kunnathunad	2294	2147	2476	2139	1946	2089	2371	1885	2517	2583	2465	
35. Alwaye	2140	2576	2673	2307	2039	2148	2620	2404	2892	2939	2151	
36. Parur	2077	1671	2796	1899	2288	2041	2248	1169	2276	2391	2108	
37. Cranganore	1130	959	678	597	826	825	1420	905	358	657	971	
38. Mukundapuram	1498	1446	1907	1924	1613	1356	2135	2174	2002	2112	2343	
39. Trichur	1314	1878	2205	1804	1673	1992	2359	2392	1893	1787	2315	
40. Thalappally	1803	1683	2007	1956	2220	2000	1913	2173	1849	1992	2355	
41. Chowghat	846	832	1040	1604	1880	1517	1066	1811	1010	1600	1756	
42. Chittoor	3065	4726	3893	4246	3922	4572	4549	3791	4648	3601	3843	

(contd.)

(table 9 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
43. Alathappuzha	2634	3552	3585	4036	3841	4150	3748	4006	3878	4226		
44. Punalpuzha	3170	3856	3779	3971	3503	3933	2956	3474	2956	2628		
45. Ottappalam	1892	2120	2046	2152	2135	2079	1989	2137	2146	1908		
46. Mannarghat	2185	2111	2308	2348	2157	2035	1836	1887	1810	1789		
47. Perinthalmanna	2291	2171	2585	1997	2101	1909	1883	2143	1798	2795		
48. Kuttanadu	1281	1740	1931	2247	1694	2053	1912	1841	2063	2239		
49. Tiruvambalam	1209	2028	1687	1598	1563	1444	1729	1816	1595	1683		
50. Ernad	3445	3818	2159	2295	1871	1636	1619	1938	2072	2150		
51. Kozhikode	818	1035	1174	1438	1574	1380	1490	1329	1882	1417		
52. Gujardupetta	3058	3058	1094	1270	1270	1315	1393	1421	1110	1187		
53. Badagara	1236	1565	1145	1167	1157	1584	1242	863	2039	1587		
54. Kuthiyil	5203	1156	-	1167	1286	1377	-	-	-	1377		
55. Sultanbatti	5080	1230	-	-	-	-	-	1377	1377	1377		
56. Manjeri	5875	1894	-	1823	1286	1377	-	-	1377	1377		
57. Tellicherry	1858	1695	1549	1823	1887	1954	1634	1478	2401	1800		
58. Cannanore	2183	1844	1980	1730	2179	2191	1926	1952	2409	2543		
59. Taliparamba	1844	1812	1429	2001	1508	1800	2041	1693	2251	2312		
60. Hosdurg	2182	1844	1635	1916	2339	2326	2205	1969	2120	2164		
61. Kayamkulam	2558	2028	2085	2251	2100	2112	2213	2376	2873	2552		
State	20403	23005	2391	2481	2442	2571	2417	2623	2514	2488		

Table 10 - Mean yield of paddy in kg./hectare for winter crop

Name of Taluk	1	2	3	4	5	6	7	8	9	10	11	12
	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	
1. Neyyattinkara	2453	2052	1981	1816	2162	2148	2577	1681	2451	2108	2516	
2. Trivandrum	2086	2044	2257	1804	1941	2156	1933	1818	2300	2101	1668	
3. Nedumangad	2156	2027	2238	2207	2078	2568	2534	1536	2235	2323	2257	
4. Chirayinkil	2434	2524	2569	2552	2208	2433	2242	2056	2460	2541	2993	
5. Quilon	2571	2288	2509	2649	2098	1965	2224	1917	2482	2000	2491	
6. Kottarakkara	2837	3482	2859	3419	2888	3079	2502	2267	2753	2893	2909	
7. Pathanapuram	2842	2924	2678	2998	2976	3141	3338	1863	2791	3140	2945	
8. Karunagappally	2080	1570	2302	1775	2229	1562	2056	2173	2168	1803	1472	
9. Kunnathur	2669	2369	2289	2633	2456	3043	2672	2030	2610	2429	2859	
10. Adoor												
11. Kozhencherry	2858	2485	2103	2794	2401	2816	2787	2486	3033	2554	2677	42
12. Ranni												
13. Thiruvalla	2840	2839	2951	2576	2483	3196	2522	3561	3972	3776	3451	
14. Malleppally												
15. Karthigappally	1803	1207	2012	2086	1843	1799	1582	1826	1425	3209	2660	
16. Mavelikkara	2096	2101	1761	2001	2181	1994	1975	2838	1522	2627	1444	
17. Chengannur	3008	2244	1795	2615	3018	3157	2934	2725	1997	1945	2663	
18. Kuttanad	3782	3874	3496	3506	3298	4384	4619	3128	2688	3668	3818	
19. Amabalapuzha	2151	1943	732	630	824	2502	537	1841	3050	4355	3601	
20. Sherthalai	785	979	808	621	1169	741	901	919	867	606	697	

(table 10 contd.)

1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	3191	2670	2583	2123	2525	4037	4270	3729	2222	2608	4154
22. Kanjirappally	1911	2372	2247	2554	2848	2771	2273	2650	2616	2917	3161
23. Kottayam	2590	2529	2081	2801	3108	2419	3146	3097	3358	3211	4064
24. Vaikom	1916	1921	2039	2050	2558	2272	3463	2408	2549	2081	2734
25. Meenachil	2547	2675	2545	2647	2692	2575	2761	3045	2760	3200	2997
26. Peermade	3198	3107	2263	3392	3865	3962	2125	2113	2392	2629	4254
27. Devicolam	2302	2382	2712	3427	3370	2971	3772	2395	3227	2968	3566
28. Udumbanchola	2077	2382	3297	3072	3302	3279	3413	3313	3631	3451	3600
29. Thodupuzha	2403	2428	2681	2772	2265	2612	3043	2552	2796	2970	2834
30. Kothamangalam	2697	2118	2147	2263	2310	2402	2403	2006	2535	2509	2836
31. Muvattupuzha	2100	2215	2575	2541	2775	2735	2378	2617	2847	2998	3019
32. Cochin	-	-	-	-	-	-	-	-	-	-	-
33. Kanayannur	1088	1826	1750	1763	1839	1585	1949	2300	2330	1885	2300
34. Kunnathunad	2009	1962	2258	2335	2132	2413	2439	1619	2491	2625	2527
35. Alwaye	2227	1781	2344	1750	2172	2081	2532	2137	2552	2529	2496
36. Parur	2204	2218	2357	1686	1600	2511	1824	1089	2636	2557	1841
37. Cranganore	1309	1213	1470	1142	823	1663	1527	833	1330	944	1335
38. Mukundapuram	1853	1742	2048	2069	2117	1839	1896	2406	2346	2906	2316
39. Trichur	2363	2035	2227	2176	1795	2452	2507	2415	2382	2837	2334
40. Thalappally	2248	1992	2179	2143	2245	2390	2216	2261	2381	2290	2475
41. Chowghat	2330	1211	911	1942	1063	2098	1343	1795	1234	1926	1375
42. Chittur	3188	3090	3043	3453	3081	3286	3322	3877	3581	3458	3002

(table 10 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
43. Alathoor	3035	3476	3163	3061	2959	3883	3692	3646	3553	2730	2768	
44. Palghat	2894	3451	3481	3754	3465	2862	2443	3210	2753	2461	2326	
45. Ottappalam	2226	2322	2114	2242	2136	2274	2036	2165	2147	2352	2343	
46. Mannarghat	2481	2129	2252	2228	3798	2031	2466	1968	2250	2708	2139	
47. Perinthalmanna	2285	2286	2185	1998	2158	2372	2310	2042	2568	2459	2698	
48. Ponnani	2135	1732	1902	1471	1891	1831	1899	1919	1913	1673	2308	
49. Tirur	1960	1879	1595	1565	2070	2019	1820	1913	1772	1970	1677	
50. Eranad	1890	1958	2222	2217	2227	2401	2136	2012	2388	2542	2795	
51. Kozhikode	1639	1784	1762	1511	1683	1653	2029	1578	2154	2090	1879	
52. Quilandy	1349	1163	1490	1062	1383	1583	1734	1356	1766	1810	1646	
53. Badagara	1356	1506	1151	1219	1365	1333	1339	1459	1188	1477	1450	₹
54. Vythiri	2296	2762	2886	2621	2300	2864	2029	3150	2897	2589	2415	
55. Sultan battery	-	-	-	-	-	2642	1734	2865	3231	2872	2915	
56. Mananthody	2474	2526	1905	2617	2132	2963	1339	3128	2150	2663	3568	
57. Tellicherry	1902	1718	1643	1688	1927	1446	1786	1435	1647	2043	1713	
58. Cannanore	1608	1653	1194	1710	1783	1839	1877	1347	1754	1933	2258	
59. Thaliparamba	1981	1981	1551	2290	1688	1977	2274	2305	2057	2820	2218	
60. Hosdurg	2239	2025	1896	1628	1916	2384	2034	2304	1722	2189	2310	
61. Kasaragod	2649	2148	2298	2312	2059	2348	2388	2274	2191	2393	2435	
<b>State</b>	<b>2344</b>	<b>2295</b>	<b>2333</b>	<b>2359</b>	<b>2357</b>	<b>2518</b>	<b>2444</b>	<b>2442</b>	<b>2514</b>	<b>2559</b>	<b>2545</b>	



Table 11 - Mean yield of dry paddy during Summer 1976 - 1987

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1. Neyyattinkara	1581	874	1184	1636	1423	1872	1587	1900	1863	1513	2516
2. Trivandrum	1273	458	1565	1422	1552	1319	2196	1261	1051	2047	1668
3. Nedumangad	1158	894	1186	1048	1074	1770	2214	935	1015	978	2257
4. Chirayinkil	738	851	945	777	1147	1660	710	1535	870	468	2993
5. Quilon	1322	1070	1387	1447	1174	1716	961	713	1354	1444	2491
6. Kottarakkara	1147	827	1524	788	1894	1740	1450	1034	602	1686	2909
7. Pathanapuram	929	683	2087	1214	1011	1331	3213	1034	-	2906	2945
8. Karunagappally	1018	923	304	1162	750	1711	1893	1361	2985	2450	1472
9. Kunnathoor	1521	434	1432	736	1360	1944	895	651	2323	2529	2859
10. Adoor	1316	683	2087	2777	1011	1772	3460	1040	1974	4332	2719
11. Kozhencherry	3293	4350	3899	3025	3188	4423	4213	4303	4489	4373	3451
12. Ranni	3717	4357	4655	3089	3005	4296	3242	3748	4729	4509	2660
13. Thiruvalla	3016	3619	3625	4166	3618	3650	3466	4199	3382	4596	2663
14. Malleppally	3535	2893	4041	4014	3895	3213	3737	3136	3559	4690	3818
15. Karthigappally	3046	3650	5950	4328	3268	4050	3856	3581	3280	4211	3601
16. Mavelikkara	3046	1773	4116	3494	2838	3267	3429	3794	3072	3185	2378
17. Chengannur	-	-	-	-	-	-	-	-	-	-	697
18. Kuttanad	-	-	-	-	-	-	-	-	-	-	-
19. Amabalapuzha	-	-	-	-	-	-	-	-	-	-	-
20. Sherthallai	-	-	-	-	-	-	-	-	-	-	-

(table 11 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	3304	2930	5140	3800	3420	3572	5725	3061	3830	4440	4154	
22. Kanjirappally	-	-	-	-	-	-	-	-	-	-	-	
23. Kottayam	2536	2601	2719	3349	3096	3084	4805	2716	4019	4019	3161	
24. Vaikom	1600	2106	-	2616	2389	2207	2506	1748	3787	4393	4064	
25. Meenachil	2585	3670	-	3078	2388	3144	3825	3745	1522	3301	2734	
26. Peermade	1836	1315	1806	2215	-	-	-	-	3189	4368	2997	
27. Devicolam	1836	1315	1806	2215	1536	1558	1558	1530	-	-	4254	
28. Udumbanchola	1836	-	-	-	1536	1538	1530	1534	3628	1940	3566	
29. Thodupuzha	-	1315	-	-	1536	1558	1530	1522	3115	3422	3600	
30. Kothamangalam	1620	1548	1805	2244	1565	2258	1567	2229	4122	1547	2834	
31. Muvattupuzha	1836	1315	1806	2215	1536	1892	2199	2758	2099	1952	2836	
32. Cochin	-	-	-	-	-	-	-	-	2203	2255	3019	
33. Kanayannur	1770	2090	2048	1886	2548	2397	556	2771	-	-	-	
34. Kunnathunad	1609	1881	1809	2092	2198	2429	1675	1833	2721	2621	2300	
35. Alwaye	2250	2421	2003	2708	2103	1966	2700	2224	2539	2467	2527	
36. Parur	2465	2853	2201	2816	2594	2657	1649	2654	2307	2410	2496	
37. Cranganore	1568	2096	1498	1692	2754	893	2352	1447	2950	2460	1841	
38. Mukundapuram	2361	2380	2176	2795	2725	2014	2321	2167	2429	3736	1335	
39. Trichur	2309	2987	2262	2860	2432	2223	2622	3138	2458	3113	2316	
40. Thalappilly	2440	2309	2133	2367	3021	2901	2181	2316	2605	2780	2334	
41. Chowghat	3507	2067	2369	3050	2607	3702	2759	2727	4231	3549	2475	
42. Chittoor	1647	2196	2542	3041	2542	2925	3298	1889	2390	3281	1375	
									3266	2174	3002	

(table 11 contd.)

	2	3	4	5	6	7	8	9	10	11	12
43. Alathoor	2839	2337	2327	2827	1852	3611	1593	1605	2352	1247	2768
44. Palghat	3318	2872	3040	2958	3192	3670	1640	1746	1506	2111	2326
45. Ottappalam	1814	2450	2014	2302	2243	1826	2556	1994	1596	2279	2343
46. Mannarghat	1677	1436	1164	2053	2337	2257	1903	1819	2099	1940	2139
47. Perinthalmanna	2465	2335	2528	2153	1949	1990	1972	4657	1947	2111	2698
48. Ponnani	3733	2408	2669	3650	2891	2511	3673	2447	2888	3687	2308
49. Tirur	2000	2516	3097	2785	2554	2178	2750	2191	2778	3254	1677
50. Ernadpetta	1572	1582	1611	1880	2024	1938	1219	1589	1394	2078	2795
51. Kozhikode	1337	1602	1892	2577	1985	1831	1424	1180	1961	1763	1879
52. Gulandiy	1579	1475	1441	1336	2106	2205	1756	1466	2302	1794	1646
53. Badagara	1293	1377	2020	1285	1681	2425	1627	1373	3788	2853	1450
54. Vythiri	1897	2057	2522	1557	2252	3058	1518	3390	2486	2800	2415
55. Sulthan Battery	-	-	-	-	-	2032	2085	3028	3328	1939	2915
56. Maranthevady	2199	3292	3395	2712	2507	3085	1900	3058	2240	3227	3568
57. Fellicherry	1176	1636	1650	1403	2007	2029	991	1363	1738	1182	1713
58. Cannanore	2180	1476	1608	1584	2374	1590	1061	1197	976	1609	2258
59. Kappadamba	1396	2129	2183	2011	1643	1628	1852	1628	2295	1779	2218
60. Hosdurg	3098	2211	2962	2334	1835	2121	1534	2203	2230	2276	2310
61. Kasaragod	2476	2245	3666	2608	2382	2515	2190	2345	2252	2378	2435
State	2497	2677	2832	2971	2627	2837	2945	2894	2993	3290	3204

Table 12 - Index of variation mean yield of paddy - autumn crop 1986-87

1	2	3	4	5	6	7	8	9	10	11	12
Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1. Neyyattinkara	100	82	86	81	68	72	82	83	90	107	116
2. Trivandrum	100	106	112	110	108	94	114	101	140	150	121
3. Nedumangad	100	84	107	101	112	111	109	115	141	133	122
4. Chirayinkil	100	157	214	174	187	161	200	181	202	276	205
5. Quilon	100	108	178	141	160	136	150	143	162	152	156
6. Kottarakkara	100	146	184	154	162	185	187	155	155	227	179
7. Pathanapuram	100	164	150	139	169	165	201	185	168	197	180
8. Karunagappally	100	259	364	277	500	289	474	432	314	372	357
9. Kunnathoor	100	119	129	152	126	168	163	103	105	133	141
10. Adoor	100	107	120	132	131	113	122	137	124	116	133
11. Kozhencherry	100	107	120	132	131	113	122	137	124	116	133
12. Ranni	100	126	95	106	99	106	151	149	137	108	71
13. Thiruvalla	100	90	84	125	114	106	93	134	93	38	86
14. Mallappally	100	122	158	173	177	131	164	198	137	124	123
15. Karthigappally	100	107	116	124	126	91	137	140	100	110	98
16. Mavelikkara	100	97	62	112	122	103	84	65	125	74	43
17. Chengannur	100	42	46	15	26	75	24	135	75	81	51
18. Kuttanad	100	42	99	49	62	103	69	74	94	44	54
19. Ambalapuzha	100	42	99	49	62	103	69	74	94	44	54
20. Sherthalai	100	42	99	49	62	103	69	74	94	44	54

(contd.)

(table 12 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	100	99	90	99	81	81	132	104	105	78	66	
22. Kanjirappally	100	126	125	186	169	161	132	181	102	119	164	
23. Kottayam	100	97	122	131	102	143	141	166	137	91	102	
24. Vaikom	100	97	126	115	153	154	171	166	189	65	122	
25. Meenachil	100	119	112	125	122	96	126	109	121	118	123	
26. Devicolam	100	90	110	136	95	116	178	86	100	121	142	
27. Peermade	100	100	-	-	-	77	89	101	-	-	-	
28. Udumbanchola	100	79	90	119	80	98	104	-	87	106	122	
29. Thodupuzha	100	99	113	122	99	110	137	118	145	132	145	
30. Kothamangalam	100	105	99	106	100	104	118	118	130	114	123	
31. Muvattupuzha	100	129	110	122	124	128	148	136	131	133	150	
32. Cochin	100	138	112	85	78	105	114	86	82	102	72	
33. Kanayannur	100	98	110	110	109	91	93	131	117	125	129	
34. Kunnathunad	100	94	108	93	85	91	103	82	110	113	107	
35. Alwaye	100	120	125	108	95	100	122	112	135	137	101	
36. Parur	100	80	135	91	110	98	108	56	110	115	101	
37. Cranganore	100	85	60	53	73	73	126	80	32	58	86	
38. Mukundapuram	100	97	127	128	108	91	143	145	134	141	156	
39. Trichur	100	143	168	137	127	152	180	182	144	136	176	
40. Thalappilly	100	93	111	108	123	111	106	121	103	110	131	
41. Chowghat	100	198	123	190	222	179	126	214	119	189	208	
42. Chittoor	100	154	123	139	128	149	148	124	152	117	125	

(contd.)

(table 12 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
43. Alappuzha	100	100	135	136	153	130	146	158	142	152	147	160
44. Balghat	100	100	122	119	125	118	111	124	93	110	93	83
45. Ottappalam	100	100	118	114	119	115	118	115	110	119	119	106
46. Mannarghat	100	100	97	106	107	112	99	93	84	86	83	82
47. Perinthalmanna	100	100	95	113	87	84	92	89	82	94	78	122
48. Ponnani	100	100	135	151	173	166	132	160	149	144	161	175
49. Tirur	100	100	168	140	132	142	129	119	143	150	132	140
50. Kottayam	100	100	128	152	161	136	131	115	114	136	145	151
51. Kozhikode	100	100	127	144	176	149	192	169	182	162	230	173
52. Kullappuzha	100	100	101	104	121	124	121	125	133	135	106	113
53. Beeralagode	100	100	127	93	94	119	94	128	100	70	165	128
54. Vythiri	100	100	47	-	47	52	52	55	-	55	55	55
55. Weethilpattur	100	100	-	-	-	-	-	-	-	-	-	-
56. Marathody	100	100	81	-	78	70	55	59	-	-	-	-
57. Jellipcheri	100	100	87	79	93	83	96	100	83	75	123	92
58. Cannanore	100	100	89	91	79	74	86	89	75	68	110	82
59. Taliparamba	100	100	94	74	104	103	78	94	106	88	117	120
60. Hosdurg	100	100	89	75	88	97	107	107	101	90	97	99
61. Kasaragod	100	100	79	82	88	95	82	83	87	93	112	100
State	100	100	113	117	122	118	120	126	118	129	123	122

Table 13 - Index of variation in mean yield of paddy - winter crop 1976-1987

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12
1. Neyyattinkara	100	84	81	74	88	88	105	69	100	86	103
2. Trivandrum	100	98	108	86	93	103	93	87	110	101	80
3. Nedumangad	100	94	104	102	96	119	118	73	104	108	105
4. Chireyinkil	100	104	106	105	91	100	92	84	101	104	123
5. Quilon	100	89	98	103	82	76	87	75	97	78	97
6. Kottarakkara	100	123	101	121	102	109	88	80	97	102	103
7. Pathanapuram	100	103	94	105	105	111	117	66	98	110	104
8. Karunagappally	100	75	111	85	107	75	99	104	104	87	71
9. Kunnathoor	100	89	86	99	92	114	100	76	98	91	107
10. Adoor	100	-	-	-	-	-	-	-	114	96	100
11. Kozhencherry	100	87	74	98	84	99	98	87	98	108	95
12. Ranni	100	-	-	-	-	-	-	-	87	85	102
13. Thiruvalla	100	100	104	91	87	113	89	125	140	133	122
14. Mallappally	100	-	-	-	-	-	-	-	50	113	94
15. Karthigappally	100	67	112	116	102	100	88	101	84	146	80
16. Mavelikkara	100	100	84	95	104	95	94	135	95	93	127
17. Chengannur	100	75	60	87	100	105	98	91	89	122	127
18. Kuttanad	100	102	92	93	87	116	122	83	81	115	95
19. Ambalapuzha	100	90	34	29	38	116	25	86	61	62	111
20. Shertallai	100	125	103	79	149	94	115	117	110	77	89

(contd.)

(table 13 contd.)

1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	100	84	81	67	79	127	134	117	70	82	130
22. Kanjirappally	100	124	118	134	149	145	119	139	137	153	165
23. Kottayam	100	98	80	108	120	93	121	120	130	124	157
24. Vaikom	100	100	106	107	134	119	181	126	133	109	143
25. Meenachil	100	105	100	104	106	101	108	120	108	126	118
26. Peermade	100	97	71	106	121	124	66	66	75	82	133
27. Devicolam	100	168	115	145	143	126	160	101	137	126	151
28. Udumbanchola	100	115	159	148	159	158	164	160	175	166	173
29. Thodupuzha	100	101	112	115	94	109	127	106	116	124	118
30. Kothamangalam	100	79	80	84	86	89	89	74	94	93	105
31. Muvattupuzha	100	105	123	121	132	130	113	125	136	143	144
32. Cochin	100	-	-	-	-	-	-	-	-	-	-
33. Kanayannur	100	168	161	162	169	146	179	211	214	173	211
34. Kunnathunadu	100	98	112	116	106	120	121	81	124	131	126
35. Alwaye	100	80	105	79	98	93	114	96	115	114	112
36. Parur	100	101	107	76	73	114	83	49	120	116	84
37. Cranganore	100	93	112	87	63	127	117	64	102	72	102
38. Mukundapuram	100	94	111	111	114	99	102	130	127	157	125
39. Trichur	100	86	94	92	76	104	106	102	101	121	99
40. Thalappilly	100	89	97	95	100	106	98	101	106	102	110
41. Chowghat	100	52	39	83	46	90	58	77	53	83	59
42. Chittoor	100	97	95	108	97	103	104	122	112	108	94

(contd.)



(table 13 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
43. Alathoor	100	115	104	101	98	128	122	120	117	90	91	
44. Palghat	100	119	120	130	120	99	84	111	95	85	80	
45. Ottappalam	100	104	95	101	96	102	91	97	98	106	105	
46. Mannarghat	100	86	91	90	153	82	99	79	91	109	86	
47. Perinthalmanna	100	100	96	87	94	104	101	89	112	108	118	
48. Ponnani	100	81	89	69	89	86	89	90	90	78	108	
49. Tirur	100	96	81	80	106	103	93	98	90	101	86	
50. Eranad	100	104	118	117	118	127	113	106	126	135	148	
51. Kozhikode	100	109	108	92	103	101	124	96	131	128	115	
52. Quilandy	100	86	110	79	103	117	129	101	131	134	120	
53. Badagara	100	111	85	90	101	98	99	108	88	109	107	
54. Vythiri	100	120	126	114	100	125	88	137	126	113	105	
55. Sultan battery	100	-	-	-	-	115	76	125	141	125	127	
56. Mananthoddy	100	102	77	106	86	120	54	126	87	108	144	
57. Tellicherry	100	90	86	89	101	76	94	75	87	107	90	
58. Cannanore	100	103	74	106	111	114	117	84	109	120	140	
59. Taliparamba	100	100	78	116	85	100	115	116	104	142	112	
60. Hosdurg	100	90	85	82	86	102	91	103	77	98	103	
61. Kasaragod	100	81	87	87	78	89	90	86	83	90	92	
<b>State</b>	<b>100</b>	<b>98</b>	<b>100</b>	<b>101</b>	<b>101</b>	<b>107</b>	<b>104</b>	<b>104</b>	<b>107</b>	<b>109</b>	<b>109</b>	<b>109</b>

(base : 1976-77 = 100)

Table 14 - Index of variation in mean yield of paddy - Summer crop 1976 - 1987

Name of Taluk	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12
1. Neyyattinkara	100	55	75	103	90	118	100	120	118	96	159
2. Trivandrum	100	36	123	112	122	104	173	99	83	161	131
3. Nedumangad	100	77	102	91	93	153	191	81	88	84	194
4. Chirayinkil	100	115	128	105	155	225	96	208	118	63	406
5. Quilon	100	81	105	109	89	130	73	54	102	109	188
6. Kottarakkara	100	72	133	69	165	152	126	90	52	147	254
7. Pathanapuram	100	74	225	131	109	143	346	111	-	313	317
8. Karunagappally	100	91	30	114	74	168	185	134	293	241	145
9. Kunnathoor	100	29	94	48	89	128	59	43	153	166	188
10. Adoor	100	-	-	-	-	-	-	-	296	232	176
11. Kozhencherry	100	52	159	211	77	135	263	79	150	329	206
12. Ranni	100	-	-	-	-	-	-	-	-	248	222
13. Thiruvalla	100	132	118	92	97	134	128	131	136	133	105
14. Mallappally	100	-	-	-	-	-	-	-	52	137	81
15. Karthigappally	100	117	125	83	81	116	87	101	127	98	39
16. Mavelikkara	100	120	120	138	120	121	115	139	112	152	88
17. Chengannur	100	82	114	113	110	91	106	89	101	133	108
18. Kuttanad	100	127	119	192	107	133	126	118	107	138	118
19. Ambalapuzha	100	58	135	115	94	107	113	124	101	114	78
20. Sherthalai	100	-	-	-	-	-	-	-	-	-	-

(contd.)

(table 14 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
21. Changanacherry	100	89	156	115	104	108	173	93	116	134	126	
22. Kanjirappally	100	-	-	-	-	-	-	-	-	-	-	-
23. Kottayam	100	105	107	132	122	122	189	107	149	173	160	
24. Vaikom	100	132	-	164	149	138	157	109	95	206	171	
25. Meenachil	100	142	-	119	92	122	148	145	123	167	115	
26. Peermade	100	72	98	121	-	-	-	-	-	-	232	
27. Devicolum	100	72	98	121	84	85	85	83	198	106	194	
28. Udumbanchola	100	-	-	-	84	85	83	84	170	186	196	
29. Thodupuzha	100	100	-	-	117	118	116	116	313	118	216	
30. Kothamangalam	100	96	111	139	96	139	97	138	130	120	175	
31. Muvattupuzha	100	72	98	121	84	103	120	150	120	123	164	
32. Cochin	100	-	-	-	-	-	-	-	-	-	-	-
33. Kanayannur	100	118	116	107	144	135	31	157	154	148	130	
34. Kunnathunad	100	117	112	130	137	151	104	114	158	153	157	
35. Alwaye	100	108	89	120	93	87	120	99	103	107	111	
36. Parur	100	116	89	114	105	108	67	108	120	100	75	
37. Cranganore	100	134	96	108	176	57	150	92	155	238	85	
38. Mukundapuram	100	101	92	118	115	85	98	92	104	132	98	
39. Trichur	100	129	98	122	105	96	114	136	113	120	101	
40. Thalappally	100	95	87	97	124	119	89	95	173	145	101	
41. Chowghat	100	59	68	87	74	106	79	78	68	94	39	
42. Chittoor	100	133	154	185	154	178	200	115	198	132	182	

(table 14 contd.)

1	2	3	4	5	6	7	8	9	10	11	12
43. Alathoor	100	82	82	100	65	127	56	57	83	44	97
44. Palghat	100	87	92	89	96	111	49	53	45	64	70
45. Ottappalam	100	135	111	127	124	101	141	110	88	126	129
46. Mannarghat	100	86	69	122	139	135	113	108	126	116	128
47. Perinthalmanna	100	95	103	87	79	81	80	190	79	86	109
48. Ponnani	100	65	71	98	77	67	98	66	77	99	62
49. Tirur	100	126	155	138	128	109	138	110	139	163	84
50. Eranad	100	101	102	120	129	123	78	101	89	132	178
51. Kozhikode	100	120	140	193	148	137	107	88	147	132	141
52. Quilandy	100	93	91	85	134	140	111	93	146	114	104
53. Badagara	100	106	156	99	130	188	126	106	293	221	112
54. Vythiri	100	108	133	82	119	161	80	179	131	148	127
55. Sultan battery	100	-	-	-	-	100	103	149	164	95	143
56. Mananthody	100	150	155	124	114	141	87	139	102	147	163
57. Tellicherry	100	139	140	119	171	173	84	116	148	101	146
58. Cannanore	100	68	74	73	109	73	49	55	45	74	104
59. Taliparamba	100	154	158	146	119	118	134	118	166	129	161
60. Hosdurg	100	71	96	76	59	68	50	71	72	73	75
61. Kasaragod	100	91	148	105	96	102	88	95	91	96	98
<b>State</b>	<b>100</b>	<b>107</b>	<b>113</b>	<b>119</b>	<b>105</b>	<b>114</b>	<b>118</b>	<b>116</b>	<b>120</b>	<b>132</b>	<b>128</b>

(base 1976-77 = 100)

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**Table 15 - Percentage of area brought under high yielding varieties  
to total area under paddy - autumn crop**

Name of taluk	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8
1. Neyyattinkara	5	3	6	6	5	6	5
2. Trivandrum	9	2	4	6	33	31	7
3. Nedumangad	20	14	10	9	35	38	30
4. Chirayinkil	10	11	9	20	21	20	9
5. Quilon	5	2	8	16	10	10	52
6. Kottarakkara	66	58	68	74	75	91	93
7. Pathanapuram	94	88	99	95	95	100	100
8. Karunagappally	56	14	51	73	12	49	65
9. Kunnathoor	8	44	71	30	17	6	18
10. Adoor	-	-	-	-	99	53	31
11. Kozhencherry	99	97	94	99	64	65	52
12. Ranni	-	-	-	-	96	98	100
13. Thiruvalla	69	44	34	76	33	21	43
14. Mallappally	-	-	-	-	74	73	61
15. Karthigappally	96	87	92	100	99	100	100
16. Mavelikkara	61	34	55	33	31	37	22
17. Chengannur	14	30	10	29	25	53	4
18. Kuttanad	66	87	22	32	73	32	43
19. Ambalapuzha	0	11	-	48	67	11	60
20. Shertallai	2	3	-	6	2	1	1
21. Changanacherry	98	98	90	99	98	<del>84</del> 94	40
22. Kanjirappally	88	49	88	-	43	51	8
23. Kottayam	74	75	41	99	98	97	70
24. Vaikom	91	82	61	66	95	29	94
25. Meenachil	94	85	60	73	37	41	57
26. Peermade	-	-	-	-	-	-	-
27. Devicolam	-	84	76	-	50	13	33
28. Udumbanchola	-	-	-	-	50	49	50
29. Thodupuzha	94	97	61	19	17	16	13
30. Kothamangalam	97	88	84	84	66	56	57

1	2	3	4	5	6	7	8
31. Muvattupuzha	98	98	95	84	74	42	23
32. Cochin	-	-	-	-	-	-	50
33. Kanayannur	1	2	5	16	8	1	4
34. Kunnathunad	20	57	43	32	91	60	49
35. Alwaye	9	9	27	5	33	41	18
36. Parur	7	13	2	4	5	7	6
37. Cranganore	7	-	26	-	-	7	-
38. Mukundapuram	19	19	20	24	13	12	19
39. Trichur	37	6	16	28	19	37	31
40. Thalappilly	8	19	4	8	4	13	30
41. Chowghat	29	13	3	39	2	14	37
42. Chittoor	86	71	69	62	45	49	15
43. Alathoor	91	89	65	31	33	28	16
44. Palghat	85	95	87	76	60	44	34
45. Ottappalam	16	0.17	11	12	10	9	7
46. Mannarghat	100	31	19	10	17	4	8
47. Perinthalmanna	4	21	21	8	9	12	18
48. Ponnani	9	4	4	7	9	11	10
49. Tirur	4	25	9	5	10	3	5
50. Eranad	7	18	7	8	10	19	22
51. Kozhikode	8	12	13	21	35	23	26
52. Quilandy	42	24	6	11	20	11	17
53. Badagara	3	3	7	1	6	12	7
54. Vythiri	60	-	-	-	-	-	-
55. Sultan battery	-	-	-	-	-	-	50
56. Mananthody	-	-	-	-	-	-	-
57. Tellicherry	41	35	29	15	33	27	30
58. Cannanore	24	20	14	14	41	38	50
59. Taliparamba	6	12	16	10	25	20	37
60. Hosdurg	5	5	9	8	15	20	18
61. Kasaragod	7	3	4	2	10	22	13
<b>State</b>	<b>39</b>	<b>40</b>	<b>33</b>	<b>31</b>	<b>36</b>	<b>30</b>	<b>28</b>

Table 16 - Percentage of area brought under high yielding varieties to total area under paddy - winter crop

Name of taluk	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8
1. Neyyattinkara	3	1	2	10	3	3	17
2. Trivandrum	5	2	1	5	32	20	12
3. Nedumangad	10	3	2	2	10	18	17
4. Chirayinkil	4	4	2	5	7	7	3
5. Quilon	0	-	1	-	-	50	1
6. Kottarakkara	3	2	8	7	5	2	5
7. Pathanapuram	4	4	5	5	42	6	4
8. Karunagappally	1	-	-	-	-	-	1
9. Kunnathoor	2	5	1	3	-	-	-
10. Adoor	-	-	-	-	86	1	3
11. Kozhencherry	32	33	52	40	28	21	40
12. Ranni	-	-	-	-	18	97	49
13. Thiruvalla	99	63	82	90	-	100	72
14. Mallappally	-	-	-	-	46	65	63
15. Karthigappally	1	2	-	59	2	31	1
16. Mavelikkara	1	3	2	4	-	1	2
17. Chengannur	59	31	23	27	44	40	71
18. Kuttanad	40	27	7	89	7	50	59
19. Ambalapuzha	-	7	-	15	42	11	34
20. Shertallai	-	2	-	-	1	6	2
21. Changanacherry	93	95	18	96	89	99	83
22. Kanjirappally	-	50	59	64	15	53	29
23. Kottayam	91	75	50	93	99	83	72
24. Vaikom	100	95	71	90	86	53	89
25. Meenachil	78	56	30	32	50	45	51
26. Peermade	13	29	63	-	-	50	75
27. Devicolam	84	59	83	-	-	81	100
28. Udumbanchola	5	-	-	40	44	31	57
29. Thodupuzha	24	18	20	8	19	25	27
30. Kothamangalam	12	6	3	7	20	12	19

(contd.)

1	2	3	4	5	6	7	8
31. Muvattupuzha	22	17	12	14	29	30	48
32. Cochin	-	-	-	-	-	2	-
33. Kanayannur	-	1	-	1	1	9	25
34. Kunnathunad	7	4	5	1	7	10	8
35. Alwaye	4	5	2	1	2	10	3
36. Parur	-	2	1	7	2	10	5
37. Cranganore	4	20	1	2	-	8	7
38. Mukundapuram	12	3	2	4	3	19	4
39. Trichur	24	4	24	53	44	19	26
40. Thalappilly	13	17	2	2	2	1	3
41. Chowghat	28	39	7	2	7	27	18
42. Chittoor	97	72	53	44	44	8	5
43. Alathoor	57	21	19	20	11	2	3
44. Palghat	81	81	62	66	45	9	15
45. Ottappalam	8	3	3	3	2	2	2
46. Mannarghat	100	22	7	4	11	22	4
47. Perinthalmanna	1	2	2	2	3	2	2
48. Ponnani	8	7	4	30	13	9	11
49. Tirur	3	25	14	3	8	2	12
50. Eranad	6	7	3	6	3	7	9
51. Kozhikode	6	9	5	8	22	11	14
52. Quilandy	28	18	4	5	9	8	7
53. Badagara	5	1	1	1	13	2	1
54. Vythiri	2	1	9	24	6	5	5
55. Sultan battery	-	3	15	33	80	4	25
56. Mananthody	2	20	1	5	1	8	37
57. Tellicherry	29	20	29	9	14	11	8
58. Cannanore	1	5	1	1	15	6	1
59. Taliparamba	12	18	44	-	18	32	27
60. Hosdurg	6	25	3	30	8	11	23
61. Kasaragod	3	2	4	19	10	1	8
State	26	21	15	20	20	13	15



Table 17 - Percentage of area brought under high yielding varieties to total area under paddy - summer crop

Name of taluk	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8
1. Neyyattinkara	51	96	41	38	54	15	26
2. Trivandrum	-	37	95	38	54	19	23
3. Nedumangad	80	67	46	100	72	50	40
4. Chirayinkil	20	50	20	89	65	100	23
5. Quilon	-	-	-	30	-	1	22
6. Kottarakkara	100	86	67	68	33	-	-
7. Pathanapuram	100	100	97	95	-	-	-
8. Karunagappally	-	-	-	100	-	-	-
9. Kunnathoor	10	-	-	-	-	-	-
10. Adoor	-	-	-	-	-	-	12
11. Kozhencherry	-	51	99	93	-	98	84
12. Ranni	-	-	-	-	-	10	84
13. Thiruvalla	100	99	95	99	93	96	98
14. Mallappally	-	-	-	-	44	95	17
15. Karthigappally	100	100	100	100	100	95	99
16. Mavelikkara	99	71	49	77	43	79	90
17. Chengannur	99	50	77	54	92	93	72
18. Kuttanad	79	45	8	76	56	54	75
19. Ambalapuzha	47	40	11	72	81	81	41
20. Shertallai	-	-	-	-	-	-	-
21. Changanacherry	100	52	59	100	56	56	38
22. Kanjirappally	-	-	-	-	-	-	100
23. Kottayam	36	61	50	92	82	88	90
24. Vaikom	43	43	-	-	50	60	73
25. Meenachil	100	51	29	93	48	89	79
26. Peermade	-	-	-	-	-	-	100
27. Devicolam	-	100	100	-	50	97	71
28. Udumbanchola	100	100	-	36	93	9	19
29. Thodupuzha	50	77	-	28	13	-	-
30. Kothamangalam	100	56	41	39	28	29	12

(contd.)

1	2	3	4	5	6	7	8
31. Muvattupuzha	100	7	36	25	25	12	25
32. Cochin	-	-	-	-	-	-	-
33. Kanayannur	-	-	43	10	23	53	53
34. Kunnathunad	-	39	11	6	41	10	21
35. Alwaye	-	4	19	-	13	12	16
36. Parur	-	7	-	50	7	11	5
37. Cranganore	-	-	25	20	39	79	86
38. Mukundapuram	-	12	13	16	12	18	13
39. Trichur	-	79	73	72	83	41	47
40. Thalappilly	-	51	18	42	94	76	65
41. Chowghat	-	100	100	39	53	55	76
42. Chittoor	-	16	73	40	11	-	-
43. Alathoor	-	48	-	29	78	9	34
44. Palghat	-	100	18	67	12	-	3
45. Ottappalam	-	18	13	31	30	35	34
46. Mannarghat	-	43	32	18	38	36	16
47. Perinthalmanna	-	37	49	100	25	34	32
48. Ponnani	-	78	98	25	59	97	57
49. Tirur	-	49	40	100	42	19	77
50. Eranad	-	47	49	32	47	10	43
51. Kozhikode	-	26	19	25	29	40	18
52. Quilandy	-	89	88	66	96	70	94
53. Badagara	-	90	20	44	99	100	20
54. Vythiri	-	14	74	25	20	21	23
55. Sultan battery	-	62	73	79	88	44	90
56. Mananthody	-	20	4	29	11	33	22
57. Tellicherry	-	64	20	25	17	10	9
58. Cannanore	-	40	37	-	-	-	-
59. Taliparamba	-	79	13	39	25	50	26
60. Hosdurg	-	17	12	8	8	6	26
61. Kasaragod	-	27	28	20	11	8	2
State	-	46	38	56	53	46	52

**Table 18 - Percentage change in yield rates of high yielding varieties of paddy over local varieties - Autumn crop**

Name of taluk	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7
1. Neyyattinkara	+4	-18	9	-10	16	20
2. Trivandrum	-	50	4	30	38	-11
3. Nedumangad	32	-31	45	26	-11	57
4. Chirayinkil	26	12	16	15	39	29
5. Quilon	8	17	65	-8	27	35
6. Kottarakkara	40	62	13	+92	44	60
7. Pathanapuram	23	43	33	21	31	-
8. Karunagappally	48	59	35	-	-21	8
9. Kunnathoor	38	8	36	109	-4	46
10. Adoor	*	*	*	109	-4	24
11. Kozhencherry	-12	-25	-5	53	-4	1
12. Ranni	*	*	*	53	2	-
13. Thiruvalla	75	21	63	14	1	57
14. Mallappally	*	*	*	14	36	-17
15. Karthigappally	17	4	-	-	-26	-
16. Mavelikkara	22	56	26	19	11	32
17. Chengannur	50	41	7	-7	-47	11
18. Kuttanad	7	-54	-2	7	6	6
19. Ambalapuzha	16	-	9	177	156	54
20. Shertalai	176	-20	-	-7	15	-41
21. Changanacherry	-13	24	-	-	-20	55
22. Kanjirappally	16	10	-	-31	-15	16
23. Kottayam	48	14	45	14	-	-
24. Vaikom	60	15	47	172	152	7
25. Meenachil	30	-24	3	17	-10	4
26. Peermade	*	*	*	*	*	*
27. Devicolam	-10	40	-	11	1	8
28. Udumbanchola	-11	-	-	10	1	12
29. Thodupuzha	-3	7	12	-4	-12	12
30. Kothamangalam	-10	13	23	+21	-17	-22

(contd.)

1	2	3	4	5	6	7
31. Muvattupuzha	35	12	44	-6	-7	14
32. Cochin	-	-	-	-	-	-
33. Kanayannur	86	-23	63	-15	-	2
34. Kunnathunad	-10	4	26	48	16	-3
35. Alwaye	-12	-	-	-16	-4	16
36. Parur	27	116	28	-13	-32	-2
37. Cranganore	32	196	-	-	711	-
38. Mukundapuram	22	17	27	30	-1	1
39. Trichur	1	15	29	-37	30	19
40. Thalappilly	16	13	4	41	49	24
41. Chowghat	61	73	50	65	129	26
42. Chittoor	18	24	9	-12	6	-7
43. Alathoor	-1	4	-7	-11	-24	46
44. Palghat	46	22	-6	41	8	42
45. Ottappalam	22	51	-42	55	-8	52
46. Mannarghat	27	51	-23	56	10	82
47. Perinthalmanna	48	53	40	36	74	26
48. Ponnani	9	3	40	36	16	16
49. Tirur	47	23	-62	58	16	23
50. Eranad	13	47	-2	4	17	10
51. Kozhikode	46	-62	-22	133	77	39
52. Quilandy	72	-17	45	31	98	27
53. Badagara	50	7	155	53	-17	31
54. Vythiri	-	-	-	*	*	-
55. Sultan battery	-	-	-	-	-	-
56. Mananthody	-	-	-	*	*	-
57. Tellicherry	61	12	44	53	35	36
58. Cannanore	26	59	48	53	14	17
59. Taliparamba	97	20	64	109	20	64
60. Hosdurg	21	101	76	14	15	60
61. Kasaragod	-8	-25	52	14	64	83
<b>State</b>	<b>24</b>	<b>59</b>	<b>37</b>	<b>35</b>	<b>21</b>	<b>13</b>

Table 19 - Percentage change in yield rates of high yielding varieties of paddy over local varieties - Winter crop

Name of taluk	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7
1. Neyyattinkara	-9	-6	16	-	59	6
2. Trivandrum	-28	21	19	12	4	-23
3. Nedumangad	-10	-21	-26	-13	36	-5
4. Chirayinkil	35	-13	39	-4	7	53
5. Quilon	-	29	32	-4	37	-61
6. Kottarakkara	-46	16	-2	-12	12	19
7. Pathanapuram	-7	-17	13	-12	-4	17
8. Karunagappally	5	-12	-10	-21	-	-10
9. Kunnathoor	-	-22	11	41	-	-
10. Adoor	*	*	*	-16	11	43
11. Kozhencherry	-6	22	16	-26	-9	49
12. Ranni	*	*	*	32	-	-
13. Thiruvalla	19	-15	39	-	-	50
14. Mallappally	*	*	*	120	-4	-28
15. Karthigappally	-2	121	187	-	106	14
16. Mavelikkara	22	79	11	-	-	-6
17. Chengannur	30	26	54	56	44	7
18. Kuttanad	-2	-14	7	24	-11	-55
19. Ambalapuzha	47	*	-40	99	175	178
20. Shertallai	-10	*	32	42	-	-14
21. Changanacherry	151	-54	96	-28	1	21
22. Kanjirappally	-12	36	33	15	-24	-1
23. Kottayam	31	12	-33	7	40	12
24. Vaikom	-13	39	24	-2	74	14
25. Meenachil	20	1	-82	-11	7	14
26. Peermade	12	105	-	-	-	47
27. Devicolam	32	22	-	-	2	-
28. Udumbanchola	-	-	18	-14	18	-22
29. Thodupuzha	3	28	33	-17	21	-4
30. Kothamangalam	-40	-19	2	-20	28	8

(contd.)

(table 19 contd.)

1	2	3	4	5	6	7
31. Muvattupuzha	-8	-20	42	10	22	13
32. Cochin	-	-	-	*	*	*
33. Kanayannur	32	103	4	1	17	10
34. Kunnathunad	41	67	2	-39	1	-11
35. Alwaye	8	58	-3	3	34	23
36. Parur	-1	98	-59	7	-26	13
37. Cranganore	33	63	461	-	200	39
38. Mukundapuram	-18	91	-56	-23	26	76
39. Trichur	59	5	13	14	31	-31
40. Thalappilly	5	15	-13	-29	-15	-62
41. Chowghat	136	37	-13	20	68	-7
42. Chittoor	-13	52	-5	3	-1	-19
43. Alathoor	-16	-9	-	5	39	23
44. Palghat	22	68	-5	27	-49	6
45. Ottappalam	10	22	22	-28	20	-17
46. Mannarghat	16	12	2	18	63	34
47. Perinthalmanna	38	-23	14	39	-2	-28
48. Ponnani	-13	3	18	-2	11	18
49. Tirur	35	-4	71	63	11	18
50. Eranad	18	-38	-33	19	15	72
51. Kozhikode	62	9	152	48	97	52
52. Quilandy	74	91	-12	40	-	7
53. Badagara	5	18	42	+1	46	-
54. Vythiri	-	6	9	21	31	30
55. Sultan battery	7	62	-6	40	7	137
56. Mananthody	11	-5	-1	-2	21	79
57. Tellicherry	96	48	-39	51	25	21
58. Cannanore	31	68	89	40	-6	11
59. Taliparamba	46	85	32	13	41	66
60. Hosdurg	30	10	40	79	-2	75
61. Kasaragod	101	28	88	-7	43	29
<b>State</b>	<b>21</b>	<b>36</b>	<b>35</b>	<b>21</b>	<b>26</b>	<b>29</b>

Table 20 - Percentage change in yield rate of high yielding varieties over local varieties of paddy - summer crop

Name of taluk	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7
1. Neyyattinkara	73	-7	-20	-6	-12	94
2. Trivandrum	-1	92	42	-54	-32	100
3. Nedumangad	-28	-73	-	-28	25	58
4. Chirayinkil	71	81	-	-1	2	-2
5. Quilon	-28	-	-	-23	253	61
6. Kottarakkara	24	72	-	-	-	-
7. Pathanapuram	-	237	-	-	-	-
8. Karunagappally	-	-	-	-51	-	-
9. Kunnathoor	-	-	-	-	51	-
10. Adoor	-	-	*	*	-9	58
11. Kozhencherry	17	32	34	-	28	-62
12. Ranni	-	-	☆	☆	-	-
13. Thiruvalla	57	-27	-	1	-	-16
14. Mallappally	-	-	x	152	-4	22
15. Karthigappally	82	-	-	-	-1	158
16. Mavelikkara	78	41	104	57	64	66
17. Chengannur	28	27	-13	-	6	34
18. Kuttanad	25	-	2	6	62	9
19. Ambalapuzha	-10	4	27	59	52	11
20. Shertallai	-	-	*	*	*	*
21. Changanacherry	-6	-2	8	-9	-5	-9
22. Kanjirappally	-	-	*	-	-	-
23. Kottayam	-5	10	27	-15	29	-16
24. Vaikom	-35	-	-	76	15	78
25. Meenachil	41	-	-4	21	61	80
26. Peermade	-	-	*	*	*	-
27. Devicolam	-	-	-	-29	-49	-49
28. Udumbanchola	-	-	2	-29	79	347
29. Thodupuzha	2	-	2	-29	-	-
30. Kothamangalam	-1	72	2	-14	-16	39

(contd.)

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(table 20 contd.)

1	2	3	4	5	6	7
31. Muvattupuzha	8	10	-8	12	57	-4
32. Cochin	-	-	*	*	*	*
33. Kanayannur	-	-	37	1	11	38
34. Kunnathunad	3	-69	12	6	26	7
35. Alwaye	17	-80	-1	-	-3	-13
36. Parur	14	-	-40	-	-24	-
37. Cranganore	-	129	110	-	2	38
38. Mukundapuram	1	19	47	38	37	38
39. Trichur	29	78	34	1	-20	-7
40. Thalappilly	204	32	8	191	11	104
41. Chowghat	-	-	28	-3	107	-
42. Chittoor	-28	20	80	-3	-	-
43. Alathoor	-10	-	28	97	37	34
44. Palghat	-	17	28	97	-	34
45. Ottappalam	39	-74	-18	-18	172	-4
46. Mannarghat	83	153	55	123	103	-34
47. Perinthalmanna	33	60	141	125	93	13
48. Ponnani	61	127	-4	17	17	31
49. Tirur	-3	2	-	28	30	9
50. Eranad	81	10	26	175	49	41
51. Kozhikode	16	9	32	35	113	88
52. Quilandy	42	172	39	26	-12	28
53. Badagara	72	112	25	105	-	137
54. Vythiri	5	178	37	17	40	-33
55. Sultan battery	19	37	27	-13	90	-28
56. Mananthody	32	68	22	-3	47	62
57. Tellicherry	59	-15	-30	24	16	27
58. Cannanore	21	-24	-	-	-	-
59. Taliparamba	46	110	57	-19	23	31
60. Hosdurg	17	107	-24	15	-4	2
61. Kasaragod	41	83	33	30	50	49
<b>State</b>	<b>31</b>	<b>67</b>	<b>41</b>	<b>30</b>	<b>50</b>	<b>43</b>

\* denotes no crop in the taluk for the year.



Table 21 - Percentage of paddy area under irrigation - Autumn

Name of taluk	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7
1. Neyyattinkara	98	85	100	100	96	89
2. Trivandrum	1	7	13	-	23	24
3. Nedumangad	-	-	-	-	-	-
4. Chirayinkil	1	-	1	-	-	-
5. Quilon	-	-	-	-	1	5
6. Kottarakkara	-	2	-	-	-	-
7. Pathanapuram	-	6	3	-	-	-
8. Karunagappally	10	-	-	-	-	-
9. Kunnathoor	22	-	-	-	-	-
10. Adoor	-	-	-	-	-	-
11. Kozhencherry	-	2	-	-	-	-
12. Ranni	-	-	-	-	-	-
13. Thiruvalla	-	-	-	68	-	-
14. Mallappally	-	-	-	27	-	-
15. Karthigappally	-	-	-	-	-	-
16. Mavelikkara	-	-	-	-	-	-
17. Chengannur	-	-	-	-	-	-
18. Kuttanad	-	-	-	-	-	-
19. Ambalapuzha	-	-	-	-	-	-
20. Shertallai	-	-	-	-	-	-
21. Changanacherry	-	-	-	-	-	-
22. Kanjirappally	17	-	-	-	-	3
23. Kottayam	-	-	-	-	-	-
24. Vaikom	-	-	-	-	-	6
25. Meenachil	1	14	-	7	19	54
26. Peermade	-	-	-	-	-	-
27. Devicolam	-	71	100	33	100	25
28. Udumbanchola	-	-	-	32	100	-
29. Thodupuzha	7	14	24	5	1	5
30. Kothamangalam	9	25	7	5	8	5

(contd.)

(table 21 contd.)

1	2	3	4	5	6	7
31. Muvattupuzha	65	69	82	94	80	100
32. Cochin	-	-	100	-	-	-
33. Kanayannur	-	-	8	1	-	-
34. Kunnathunad	68	50	57	91	100	80
35. Alwaye	13	8	10	44	3	56
36. Parur	30	3	-	1	30	39
37. Cranganore	5	-	-	-	-	-
38. Mukundapuram	1	7	25	10	5	8
39. Trichur	9	23	-	-	-	19
40. Thalappilly	4	-	-	-	-	2
41. Chowghat	1	-	4	-	-	-
42. Chittoor	1	61	78	49	40	82
43. Alathoor	-	-	-	1	-	34
44. Palghat	-	-	-	25	4	22
45. Ottappalam	-	1	1	2	4	11
46. Mannarghat	1	-	43	39	-	8
47. Perinthalmanna	-	2	-	-	1	2
48. Ponnani	-	-	-	91	3	11
49. Tirur	-	-	-	-	1	2
50. Eranad	3	-	-	-	1	3
51. Kozhikode	-	-	-	-	-	-
52. Quilandy	-	-	-	-	-	-
53. Badagara	-	-	-	-	-	-
54. Vythiri	-	-	-	-	-	-
55. Sultan battery	-	-	-	-	-	-
56. Mananthody	-	-	-	-	-	-
57. Tellicherry	5	-	4	-	-	-
58. Cannanore	-	-	-	-	-	-
59. Taliparamba	-	-	1	-	-	2
60. Hosdurg	-	-	-	-	-	-
61. Kasaragod	1	1	-	3	-	2
<b>State</b>	<b>6</b>	<b>9</b>	<b>13</b>	<b>14</b>	<b>11</b>	<b>20</b>

Table 22 - Percentage of paddy area under irrigation - Winter crop

Name of taluk	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7
1. Neyyattinkara	96	95	96	100	100	98
2. Trivandrum	20	70	18	14	26	51
3. Nedumangad	7	11	-	3	2	11
4. Chirayinkil	1	11	16	18	8	9
5. Quilon	-	-	-	14	-	5
6. Kottarakkara	2	3	-	1	-	-
7. Pathanapuram	94	91	100	93	100	100
8. Karunagappally	-	-	-	-	100	-
9. Kunnathoor	-	15	33	9	-	-
10. Adoor	-	-	-	22	2	26
11. Kozhencherry	2	21	48	37	35	14
12. Ranni	-	-	-	14	100	74
13. Thiruvalla	68	79	83	96	99	97
14. Mallappally	-	-	-	100	77	95
15. Karthigappally	-	-	57	-	-	-
16. Mavelikkara	9	-	1	9	-	-
17. Chengannur	26	80	52	40	100	100
18. Kuttanad	68	-	-	-	-	-
19. Ambalapuzha	-	-	-	-	-	33
20. Shertallai	-	-	-	-	-	-
21. Changanacherry	33	9	17	100	-	-
22. Kanjirappally	75	29	91	57	100	40
23. Kottayam	-	9	1	-	29	4
24. Vaikom	26	17	93	99	100	98
25. Meenachil	46	64	60	73	92	95
26. Peermade	-	38	100	86	-	74
27. Devicolam	8	82	-	-	100	98
28. Udumbanchola	25	-	17	6	27	28
29. Thodupuzha	75	98	93	96	100	91
30. Kothamangalam	23	55	46	88	49	37

(contd.)

1	2	3	4	5	6	7
31. Muvattupuzha	100	99	100	100	99	100
32. Cochin	-	-	-	-	-	-
33. Kanayannur	36	29	72	98	48	99
34. Kunnathunad	80	96	78	100	100	100
35. Alwaye	83	88	78	98	99	100
36. Parur	60	41	-	50	91	66
37. Cranganore	20	72	-	-	23	26
38. Mukundapuram	72	47	91	90	85	93
39. Trichur	98	82	77	85	100	90
40. Thalappilly	52	77	100	87	99	94
41. Chowghat	31	2	1	15	47	-
42. Chittoor	91	99	100	100	100	100
43. Alathoor	86	96	95	93	88	77
44. Palghat	97	92	100	81	90	99
45. Ottappalam	26	31	41	51	37	50
46. Mannarghat	71	71	91	94	88	35
47. Perinthalmanna	79	80	88	95	82	97
48. Ponnani	1	8	9	95	37	83
49. Tirur	65	64	56	62	46	25
50. Eranad	10	11	37	31	36	49
51. Kozhikode	2	7	3	15	2	13
52. Quilandy	2	12	9	15	-	-
53. Badagara	34	8	6	7	-	-
54. Vythiri	-	16	2	25	-	39
55. Sultan battery	-	24	7	25	-	32
56. Mananthody	-	28	20	100	100	31
57. Tellicherry	25	41	69	86	86	96
58. Cannanore	10	12	18	20	26	31
59. Taliparamba	97	74	94	92	100	72
60. Hosdurg	86	100	97	79	88	91
61. Kasaragod	99	100	100	96	100	100
<b>State</b>	<b>50</b>	<b>52</b>	<b>58</b>	<b>65</b>	<b>62</b>	<b>61</b>

Table 23 - Percentage of paddy area under irrigation - Summer crop

Name of taluk	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7
1. Neyyattinkara	100	100	100	100	100	100
2. Trivandrum	100	83	100	100	18	-
3. Nedumangad	44	100	33	52	-	40
4. Chirayinkil	67	100	12	36	23	100
5. Quilon	-	-	-	85	74	58
6. Kottarakkara	43	33	33	88	33	38
7. Pathanapuram	100	100	100	-	45	33
8. Karunagappally	89	100	100	100	67	67
9. Kunnathoor	100	100	100	53	65	86
10. Adoor	-	-	-	60	-	100
11. Kozhencherry	100	79	79	100	100	52
12. Ranni	-	-	-	-	100	100
13. Thiruvalla	100	100	100	100	100	100
14. Mallappally	-	-	-	95	100	100
15. Karthigappally	100	100	-	-	2	69
16. Mavelikkara	100	100	98	100	100	100
17. Chengannur	100	100	46	100	100	100
18. Kuttanad	-	-	-	-	-	-
19. Ambalapuzha	-	100	-	-	-	-
20. Shertallai	x	x	x	x	x	x
21. Changanacherry	4	22	25	82	82	1
22. Kanjirappally	x	x	x	100	100	-
23. Kottayam	-	64	-	-	25	37
24. Vaikom	-	100	-	-	100	100
25. Meenachil	-	100	81	-	89	100
26. Peermade	x	x	x	x	x	18
27. Devicolam	-	100	100	-	84	77
28. Udumbanchola	-	100	3	3	-	-
29. Thodupuzha	1	100	28	100	100	100
30. Kothamangalam	100	100	99	87	77	98

(contd.)

1	2	3	4	5	6	7
31. Muvattupuzha	100	100	100	100	100	100
32. Cochin	x	x	x	x	x	x
33. Kanayannur	100	100	100	100	100	100
34. Kunnathunad	100	100	100	100	100	100
35. Alwaye	100	100	97	100	100	100
36. Parur	99	100	100	100	100	100
37. Cranganore	100	100	100	100	100	100
38. Mukundapuram	100	100	100	100	100	100
39. Trichur	100	100	99	100	100	100
40. Thalappilly	100	100	100	100	100	100
41. Chowghat	100	100	99	100	100	100
42. Chittoor	100	100	100	100	100	100
43. Alathoor	84	100	100	100	100	88
44. Palghat	100	100	100	84	85	100
45. Ottappalam	98	100	72	100	93	94
46. Mannarghat	85	100	90	100	92	57
47. Perinthalmanna	100	100	16	100	100	100
48. Ponnani	100	100	100	100	100	100
49. Tirur	99	100	18	95	100	100
50. Eranad	82	86	51	90	85	97
51. Kozhikode	86	88	90	83	92	98
52. Quilandy	96	100	86	100	95	99
53. Badagara	100	60	100	10	90	99
54. Vythiri	98	98	52	71	45	47
55. Sultan battery	96	100	96	82	72	86
56. Mananthody	87	100	100	100	86	93
57. Tellicherry	97	74	95	93	88	100
58. Cannanore	88	82	-	44	54	71
59. Taliparamba	100	100	100	30	100	100
60. Hosdurg	100	100	100	100	100	100
61. Kasaragod	100	100	100	100	100	100
<b>State</b>	<b>74</b>	<b>78</b>	<b>63</b>	<b>67</b>	<b>67</b>	<b>74</b>

Table 24 - Percentage change in yield rates of irrigated paddy over unirrigated paddy - Autumn crop

Name of taluk	1981-82		1982-83		1983-84		1984-85		1985-86		1986-87	
	Hy	L	Hy	L	Hy	L	Hy	L	Hy	L	Hy	L
1	2	3	4	5	6	7	8	9	10	11	12	13
1. Neyyattinkara	64	8	-	10	-	-	-	-	-	-	-	5
2. Trivandrum	1753	-27	-	32	-15	-15	-	-	-2	12	-	25
3. Nedumangad	-	-	-	-	-	-	-	-	-	-	-	-
4. Chirayinkil	-	-	-	-	-	27	-	-	-	-	-	-12
5. Quilon	-	-	-	-	-	-	-	-	-	-	-	-
6. Kottarakkara	-	-	-	26	-	-	-	-	-37	-	13	12
7. Kunnathoor	-1	-14	-	-	-	-	-	-	-	-	-	-
8. Pathanapuram	-	-	21	-	-17	-	-	-	-	-	-	-
9. Karunageppally	-	-77	31	-	-	-	-	-	-	-	-	-
10. Kozhencherry	-	-	-	-	-	-	-	-	-	-	-	-
11. Ranni	-	-	-	-	-	-	-	-	3	-	-	-
12. Adoor	-	-	-	-	-	-	-	-	-	-	-	-
13. Thiruvalla	-	-	-	-	-	-	-	-	-	-	-	-
14. Mallappally	-	-	-	-	-	-	-	-	-	-	-	-
15. Karthigappally	-	-	-	-	-	-	-	-	-	-	-	-
16. Mavelikkara	-	-	-	-	-	-	-	-	-	-	-	-
17. Chengannur	-	-	-	-	-	-	-	-	-	-	-	-
18. Kuttanad	-	-	-	-	-	-	-	-	-	-	-	-
19. Ambalapuzha	-	-	-	-	-	-	-	-	-	-	-	-
20. Shertallai	-	-	-	-	-	-	-	-	-	-	-	-

(cont.d.)

(Table 24 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12	13
21. Changanacherry													
22. Kanjirappally			-6										
23. Kottayam												-1	19
24. Vaikom													
25. Meenachil													33
26. Peermade	-65	98	13					-23		-11	40	-3	12
27. Devicolam		x	x	x	x	x	x	x	x	x	x	x	x
28. Udumbanchola				-5	125	x		26				-9	13
29. Thodupuzha		x	x	x		x	x	26					
30. Kothamangalam	-39	4	-20	5	34	-11			-30			-8	-8
31. Muvattupuzha	8	-30	16	15	11	-25		-20	-20	44	-28	-11	-21
32. Cochin	16		21	7	248	81	41	14	166	12	31	7	
33. Kanayannur	x	xx	x	x		x		x		x			
34. Kunnathunad			67	-5	-5	9			-31		-73	4	-5
35. Alwaye	21	-36	21	-13	-12	43		6	37		-1	-2	-6
36. Parur	-13	-9	7	-11	-26	-9		-20	-2	-26		-13	8
37. Cranganore	-6	-11		16						-18	-28		-16
38. Mukundapuram	x	280											
39. Trichur	97	54	6	44	5	58		26	41	27		x	
40. Thalappally	6	30	-13	-31	8			125				19	42
41. Chowghat		26		-23					26			-31	-31
42. Chittoor	x										7	-10	-23
	-64	11	-17	6	-3	-11		59		3	8	45	199

(contd.)



(table 24 contd.)

1	2	3	4	5	6	7	8	9	10	11	12	13
43. Alathoor	-	x	-	-	-	-	-18	31	-	-	4	-11
44. Palghat	-	x	41	-	-	-	-11	-	3	-15	-14	33
45. Ottappalam	-	42	-	-	1	-45	-	8	38	-16	-	53
46. Mannarghat	-	-	-	-	-48	-4	1	18	-	-	-51	-
47. Perinthalmanna	-	-63	-	-3	-37	-17	1	7	-1	-2	-	-23
48. Ponnani	x	-	-	-	-	-	-	-	98	-40	60	53
49. Tirur	-	-	-	-	-	-	-	-6	46	-	27	165
50. Eranad	-	-	18	-31	-	-22	85	-5	22	35	191	-
51. Kozhikode	-	12	-	-	-	-	-	-	-	-	-	-
52. Quilandy	-	-	-	-	-	-	-	-	-	-	-	-
53. Badagara	-	-	-	-	-	-	-	-	-	-	-	-
54. Vythiri	x	x	x	x	x	x	x	x	x	x	x	-
55. Sultan battery	x	x	x	x	x	x	x	x	x	-	-	-
56. Mananthody	x	x	x	-	x	x	x	x	x	x	x	-
57. Tellicherry	-	11	-	-	17	1	-	-	-	-	-	-
58. Cannanore	-	-	-	-	-	-	-	-	-	-	-	-
59. Thaliparamba	2	82	46	-	27	-5	51	62	-	-	-9	-28
60. Hosdurg	-	-	-	-	-	3	-	16	-	-	49	17
61. Karasaragod	-53	-	1	4	-	-	-4	2	10	-9	-4	-2
State	-22	4	20	25	18	18	6	34	12	24	26	60

\* No cultivation

- negligible nil or no cultivation in either of this group.

Table 25 - Percentage change in yield rates of irrigated paddy over unirrigated paddy - Winter crop

Name of taluk	1981-82		1982-83		1983-84		1984-85		1985-86		1986-87	
	Hy	L	Hy	L	Hy	L	Hy	L	Hy	L	Hy	L
1. Neyyattinkara	171	2	-	28	-	34	-	-	-	-	-	-
2. Trivandrum	-	-3	-68	5	-37	-26	-	-3	-18	-3	66	5
3. Nedumangad	-	-11	-	38	-	-	-	-11	-	-9	26	-9
4. Chirayinkil	-	-	7	-3	-47	6	-11	52	-	5	-	-12
5. Quilon	x	x	-	-	-	-	-	32	-	-	-	-18
6. Kottarakkara	-	-20	-	-9	-	-	-	-30	-	19	-	-
7. Kunnathoor	-	-	36	36	107	-14	-	-4	-	-	-	-
8. Pathanapuram	-	-17	-	36	-	-	-	-1	13	-	-	-
9. Karunagappally	20	-	-	-	-	-	-	-	-	-	-	-
10. Kozhencherry	-	-	-37	28	-17	18	-10	19	-	-7	-2	-
11. Ranni	-	-	-	-	-	-	-	-	-	-	-	-
12. Adoor	-	-	-	-	-	-	-	-	-	-	-	-
13. Thiruvalla	35	43	-	-	-	-	-5	-	40	-	-	-38
14. Mallappally	-	-	54	-	15	-	-	-	-	-	-	-
15. Karthigappally	-	-	-	-	-	-	-	-	-19	17	-	-
16. Mavelikkara	-	-	-	-	-	-	-	-	-	-	-	-
17. Chengannur	12	-	-	-	-	-7	x	-	-	-	-	-
18. Kuttanad	91	21	-	21	14	14	-29	-18	-	-	4	-
19. Ambalapuzha	-	-	-	-	-	-	-	-	-	-	-	-
20. Shertallai	-	-	-	-	-	-	-	-	-	-	-	-

(contd.)

(table 25 contd.)

1	2	3	4	5	6	7	8	9	10	11	12	13
21. Changanacherry	31	-	-3	-49	-14	-	-	-	-	-	-	-
22. Kanjirappally	-	<del>23</del> 23	-51	-10	-20	-51	-	-24	-	-	-30	-6
23. Kottayam	-	-	14	91	17	-	-	-	-16	39	7	-56
24. Vaikom	-20	21	-29	8	11	-	-	-	-	-	18	-35
25. Meenachil	5	79	-9	26	49	15	67	-4	-	-7	-1	5
26. Peermade	-	-	-	-	x	-	-	-	-	-	-	-
27. Devicolam	-	55	-	-	x	-	x	-	-	-	-	-
28. Udumbanchola	-	9	x	-	2	-	-	-15	7	30	25	-8
29. Thodupuzha	-	-13	-	-	63	26	-	-	-	-	-	-5
30. Kothamangalam	68	7	-	5	-16	-13	-43	-2	-	-10	-4	-1
31. Muvattupuzha	-	-	-	-	-	-	-	-	-	-	-	-
32. Cochin	xx	x	x	x	x	x	x	x	x	x	x	x
33. Kanayannur	-	40	-	-17	-	15	-	40	48	48	-	-
34. Kunnathunad	-	-9	-	14	19	14	-14	23	-	3	-	-
35. Alwaye	-	14	-	-5	42	42	-	-8	145	5	2	-
36. Parur	11	11	-	15	-	-	-	15	-	-26	-	76
37. Cranganore	17	60	-	87	-	-	x	-	-	7	-45	43
38. Mukundapuram	-	92	-	23	-	1	-	57	-	-1	-4	95
39. Trichur	20	-25	-37	-15	88	15	103	9	-	-	8	36
40. Thalappally	-46	-	-	-16	-	-7	-38	70	-	-	-81	-43
41. Chowghat	157	-	-	64	-	-27	9	65	25	7	11	-
42. Chittoor	663	-	-	-	-	-	-	-	-	-	-29	-37

(contd.)

(table 25 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12	13
43. Alathoor	6	47	-	-	-	-	65	-	5	-32	17	33	-3
44. Palghat	336	-10	-	-36	-	-	-	39	74	-	56	-	-
45. Ottappalam	28	-7	26	35	-22	7	-	-59	-19	-	22	-42	2
46. Mannarghat	45	-5	-	-8	-28	-2	-	-32	46	9	34	-6	-31
47. Perinthalmanna	68	-10	-2	-2	-	-11	-	-	-	-	-3	-	-
48. Ponnani	16	-	-	-27	-43	15	-	-	-1	14	-16	77	9
49. Tirur	-	36	106	66	-	-6	-	-	85	50	50	-	44
50. Eranad	55	23	108	-5	-	11	-	-15	23	-4	10	-	4
51. Kozhikode	-	57	-82	12	-	40	-	23	73	-	-47	-	38
52. Quilandy	45	-11	-43	78	180	9	-	36	-6	-	-	-	-
53. Badagara	7	7	116	63	-	-27	-	-	63	-	-	-	-
54. Vythiri	-	-	41	4	-	-	-	19	2	-	-	-	-
55. Sultan battery	-	-	-	-12	-	-	-	-5	29	-	-	14	-22
56. Mananthody	-	-23	-	-12	24	-4	-	-	-	-	-	10	+38
57. Tellicherry	24	59	257	29	-	16	-	4	-19	-1	33	-	-32
58. Cannanore	21	10	-	19	-6	17	-	-3	-26	51	1	128	24
59. Thaliparamba	17	-4	-	-9	-	39	-	-40	28	35	-1	85	4
60. Hosdurg	-13	27	-	-	-	212	-	173	84	48	21	-	75
61. Karasaragod	-	-16	-	-	-	-	-	-	-	-	-	-	-
State	15	15	1	14	15	22	-3	21	-4	18	-10	8	-

Table 26 - Percentage change in yield rates of irrigated paddy over unirrigated paddy - Summer crop

Name of taluk	1981-82		1982-83		1983-84		1984-85		1985-86		1986-87	
	Hy	L	Hy	L	Hy	L	Hy	L	Hy	L	Hy	L
1. Neyyattinkara	-	-	-	-	-	-	-	-	-	-	-	-
2. Trivandrum	-	-	26	418	-	-	-	-	-	-	-	-
3. Nedumangad	-19	-	-	-	x	82	-30	-	-	-	-	78
4. Chirayinkil	-	-20	-	-	x	-36	-	-	-	-	-	-8
5. Quilon	-	-	x	-	-	-	40	-	-	53	273	-
6. Kottarakkara	-42	-	145	-	-	-	-	-	-	-	x	-11
7. Kunnathoor	x	-	x	-	x	x	-	-	-	-51	x	-
8. Pathanapuram	-	x	-	-	-	x	x	-	-	-51	x	-
9. Karunagappally	x	-	-	-	-	x	-	-	-	-	x	-
10. Kozhencherry	-	-	-22	-	-	x	-	-	-	-	-	-
11. Ranni	-	-	-	-	-	x	x	-	-	-	-	-
12. Adoor	x	-	-	-	-	x	81	-	-	-	-	-
13. Thiruvalla	-	-	-	-	-	-	-	-	-	-	-	-
14. Mellappally	-	-	-	-	-	-	-	-	-	-	-	-
15. Karthigappally	-	-	-	-	x	-	-	-	33	33	-7	-
16. Mavelikkara	-	-	-	-	-	-	43	-	-	-	-	-
17. Chengannur	-	-	-	-	18	-8	-	-	-	-	-	-
18. Kuttanad	-	-	-	-	-	-	-	-	-	-	-	-
19. Ambalapuzha	-	-	-	-	-	-	-	-	-	-	-	-
20. Sertallai	x	x	x	x	x	x	x	x	x	x	x	-
21. Changanacherry	-1	-37	-91	-9	34	-	29	-	-12	43	54	53
22. Kanjirappally	x	x	x	x	x	x	x	x	x	x	x	x

(contd.)

(table 26 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12	13
23. Kottayam	-	-	-	26	12	-	-	-	-	-10	29	35	38
24. Vaikom	-	-	-	x	-	x	-	-	-	-	-	-	-
25. Meenachil	-	-	-	-	-	-24	-	-	-	-	-	-	-
26. Peermede	x	x	x	x	x	x	x	-	-	23	88	-	-
27. Devicolam	-	x	x	-	x	x	-	x	x	x	x	-	-
28. Udumbanchola	-	-	x	x	-	-	-	-	-	100	-	100	-
29. Thodupuzha	-	-	-	x	-	-	-	-	-	-	-	-	-
30. Kothamangalam	-	-	-	x	-	-	-	-	-	-	-	-	-
31. Muvattupuzha	-	-	-	-	-	-	-	-	-	x	-	-	-
32. Cochin	-	-	-	-	-	-	-21	-16	-	37	40	-	-
33. Kanayannur	x	x	x	x	x	x	-	-	-	-	-	-	-
34. Kunnathunad	x	-	-	-	-	-	x	x	x	x	x	x	x
35. Alwaye	-	-	-	-	-	-	-	-	-	-	-	-	-
36. Parur	-	-	-	-	-	50	-	-	-	-	-	-	-
37. Cranganore	-	-	-	-	-	-	-	-	-	-	-	-	-
38. Mukundapuram	x	-	-	-	-	-	-	-	-	-	-	-	-
39. Trichur	-	-	-	-	-	-	-	-	-	-	-	-	-
40. Thalappally	-	-	-	-	-	109	-	-	-	-	-	-	-
41. Chowghat	-	-	-	-	-	-	-	-	-	-	-	-	-
42. Chittoor	-	-	-	-	-	-	-	-	-	-	-	-	-
43. Alathoor	-	-	-	x	-	-	-	-	-	-	-	-	-
44. Palghat	-	-13	-	-	-	-	-	-	-	-	-	x	-
	-	x	-	-	-	-	-	-	-	-	-	-	-
										128			

(contd.)

(table 26 contd.)

1	2	3	4	5	6	7	8	9	10	11	12	13
45. Ottappalam	-	13	-	-	-	6	-	-	-	34	-	-
46. Mannarghat	-	-	-	-	-5	26	-	-	-	22.5	-	-40
47. Perinthalmanna	-	-	-	-	-	-	-	-	-	-	-	-
48. Ponnani	-	-	-	-	-	-	-	-	-	-	-	-
49. Tirur	-	-	-	-	-	x	-	-	50	-	-	-
50. Eranad	-3	-7	-	-	22	53	-	-	-	19	-	-
51. Kozhikode	42	-	-	134	-	-27	-	-	-	-64	-	-
52. Quilandy	-	-	-	-	43	-	-	-	-	-20	-	-
53. Badagara	-	-	-	-47	-	-	-54	-	-55	x	-	-
54. Vythiri	-	-	-	-57	3	39	73	-12	33	9	59	194
55. Sultan battery	2	-5	-	-	30	125	-5	-	-34	123	-31	-
56. Mananthody	9	58	-	-	-	57	-	-	22	23	-	-
57. Tellicherry	157	52	-	49	-	10	-	-	-	400	-	-
58. Cannanore	-	-6	-	199	x	-	x	43	x	-2	x	7
59. Thaliparamba	-	-	-	-	-	-	-38	-50	-	-	-	-
60. Hosdurg	-	-	-	-	-	-	-	-	-	-	-	-
61. Karasaragod	-	-	-	-	-	-	-	-	-	-	-	-
State	-22	-36	-33	-33	1	-28	-14	-23	-23	-10	-6	-38

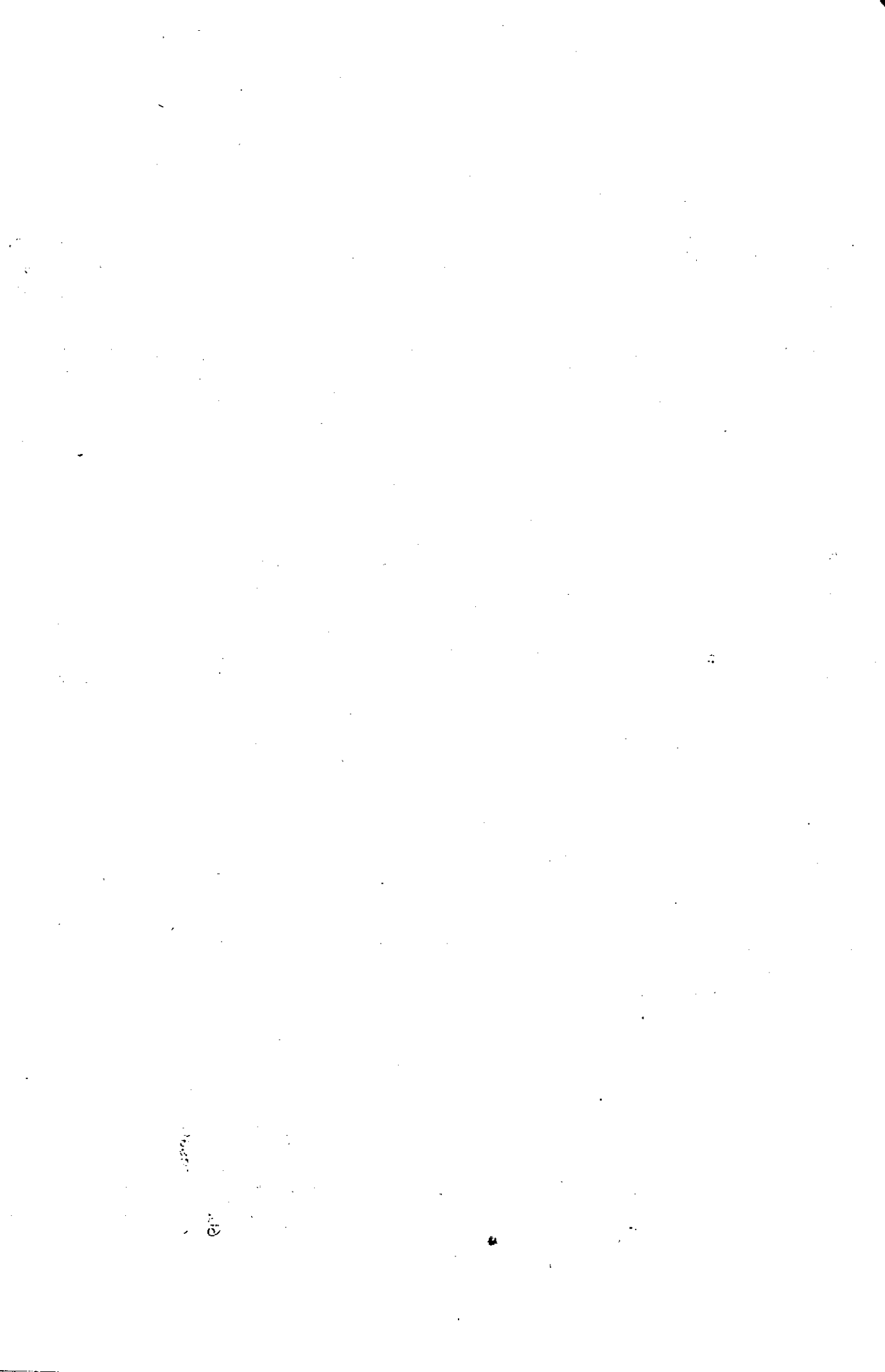




Table 27 - District-wise consumption of NPK (Kg.) per hectare of gross cropped area in Kerala 1981-82 to 1986-87

District	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7
1. Trivandrum	24.47	42.13	29.26	27.75	34.29	36.86
2. Quilon	26.22	33.92	27.46	41.62	35.22	35.65
3. Pathanamthitta	-	-	-	-	80.83	87.32
4. Alleppey	49.90	61.23	84.37	69.27	65.83	78.46
5. Kottayam	57.64	55.43	83.14	79.60	78.92	74.86
6. Idukki	17.57	21.35	24.45	23.43	28.09	27.12
7. Ernakulam	33.10	27.68	52.99	46.10	55.76	62.11
8. Trichur	34.07	39.78	45.93	47.49	52.99	61.31
9. Palghat	43.68	48.05	62.75	55.46	59.20	61.16
10. Malappuram	27.94	28.45	33.84	36.55	42.10	45.43
11. Kozhikode	31.70	53.43	44.56	39.92	40.64	44.02
12. Wayanad	10.81	31.30	38.53	37.50	49.57	50.90
13. Cannanore	24.08	18.84	27.16	29.86	37.37	42.89
14. Kasaragod	-	-	-	-	34.07	40.22
<b>State</b>	<b>32.62</b>	<b>38.38</b>	<b>45.24</b>	<b>44.41</b>	<b>49.29</b>	<b>52.80</b>

\* The area data for 1985-86 and the consumption data for 1986-87 have been used.

~~1197~~

1108

1147

