



Government of Kerala



2019-2020

# ANNUAL REVIEW OF CROP STATISTICS IN KERALA

THROUGH THE SCHEME FOR IMPROVEMENT OF CROP STATISTICS

*Department of Economics and Statistics Kerala*



GOVERNMENT OF KERALA

**ANNUAL REVIEW OF CROP STATISTICS  
SYSTEM IN KERALA  
THROUGH THE SCHEME FOR  
IMPROVEMENT OF CROP STATISTICS  
2019-20**

*DEPARTMENT OF ECONOMICS & STATISTICS*

*KERALA*



## **PREFACE**

*Department of Economics & Statistics is the nodal agency for collecting agricultural statistics in the State. Establishment of an Agency for reporting Agricultural Statistics is a Central sector scheme implemented by the Ministry of Agriculture and Farmers Welfare, Government of India. Land utilization, area of crops, production yield rate, irrigation details etc. are collected through EARAS Scheme.*

*The National Statistical Office (NSO) under Ministry of Statistics & Programme Implementation, Government of India has the overall responsibility of providing technical guidance to the state for developing suitable survey techniques for obtaining timely and reliable estimates of crop area and yield and imparting training to the state government field personnel.*

*Sample check by the NSO is a super check for rectifying the non-sampling error to a minimum. For this purpose the Scheme of Improvement of Crop Statistics (ICS) was taken up in the year 1973-74, with the objective of pointing out, through joint efforts of NSO and State Government. The scheme aims to find out deficiencies in the system of crop statistics by exercising technical supervision over the primary field work and suggesting remedial measures for strengthening the system.*

*The findings of the ICS Scheme are brought for Kerala state by the DES in a publication named “Annual Review of Crop Statistics System in Kerala through the Scheme for Improvement of Crop Statistics” every year.*

*This report is prepared by the Sample Check section in the EARAS unit of the Directorate of Economics and Statistics, Government of Kerala. I express my sincere gratitude to Sri.Damodaran. (Addl: Director), Sri.Usman Shereef Koori (Joint Director) Smt.Sujatha.A.P (Assistant Director), Smt. Sreelatha.S,(Research Officer), Smt.Indu.R.V.,(Research Assistant),Smt. Vidya.U.B and Smt.Sheeja.N (Statistical Assistants - Grade-I) for their dedication and painstaking efforts for bringing out this report.*



**BABU.P.V**  
**DIRECTOR**



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## **PART-1**

### **INTRODUCTION**

#### **Scheme for Improvement of Crop Statistics ( ICS )**

The scheme ICS which had a modest beginning in the year 1973-74 reach to the optimum coverage in the subsequent years. The scheme is closely related to the scheme of TRS, EARAS & GCES and was initiated with the objective of pointing out the deficiencies in the system of collection of area and yield statistics through the joint efforts of NSO and DES and suggested remedial measures.

Land use statistics is collected by Area Enumeration Survey and the yield rate of principal crops are estimated through General Crop Estimation Survey.

In this report the position of crop production and procedure taken for collecting data, Area enumeration and Yield rate methods for data collection are included. Details of equipment supplied, adequacy of experiments planned under General Crop Estimation Survey (GCES), response rate etc are also included in this report. Besides, the findings of sample check under ICS scheme on working of the system are also brought out indicating the remedial measures to rectify the deficiencies observed.

#### **1. The Scheme for Improvement of Crop Statistics (ICS)**

The scheme accomplishes its objectives by conducting sample check on the primary fieldwork through

- (1) Physical verification of the crop enumeration done by the investigator in a sample of 80 Investigator zones in each season.
- (2) Checking the aggregation of crop wise area in the Form I diary and
- (3) Inspection of crop cutting experiments at harvest stage in an agricultural year.

The sample checks are undertaken by the supervisory staff of NSO (FOD) and the Supervisory staff of DES (ADOs) on matching basis in two non-overlapping samples.

The schedules viz., AS 1.0, AS 1.1 and AS 2.0 are used for recording the findings of sample check on (a) area enumeration (b) area aggregation and (c) crop cutting experiments respectively. The filled in schedules are sent to both agencies on reciprocal basis for tabulation and analysis.

The programme of sample check on area enumeration consists of selecting and locating 4 clusters in each selected IV zone. The supervisory officer from NSO or DES identifies the differences on reporting and recording crops in the concerned survey numbers during each season and the variation on reporting the land utilisation are identified by all means.

The concurrent inspection of crop cutting experiments at harvest stage consists of examining the conduct of the experiments by the investigator conforms to the procedures prescribed under GCES. The inspection covers aspects such as selection of field and random coordinates, marking of experimental plots of specified shape and size, harvesting of plants, weighing of the produce etc. The supply and use of equipments for conducting the experiments, training received by the primary workers, crop condition, use of inputs etc. are also ascertained.

The data collected through the sample check are analysed facilitating factual appraisal of the system with reference to the following.

- (1) Timeliness in completion of area enumeration and working of the EARAS Scheme
- (2) Discrepancies in recording crop area, their frequency and impact.
- (3) Discrepancies in recording ancillary information, their frequency and impact.
- (4) Discrepancies in crop abstract and their impact.
- (5) Departures from the prescribed procedure of conducting crop cutting experiments and their impact.

The yield data from the supervised experiments are also used for obtaining the average yield rates of specified crops and their standard errors.

The calculation of standard errors and their study is helpful in assessing the adequacy of the sample size, trend of changes in yield rates and in planning other allied studies.

## **2. General Crop Estimation Surveys (GCES)**

GCES consists of performing a specified number of crop cutting experiment in randomly selected fields. Crop cutting experiment, conducted under well designed estimation survey, is an effective technique for estimating the average yield by selecting the field, randomly locating a plot of a specified size, harvesting, threshing, weighing and recording the weight of the produce from the plot.

## **3. Timely Reporting Scheme (TRS)**

The Ministry of Agriculture initiated TRS in 1968-69 in land record states in order to reduce the time lag between (a) completion of sowing and the availability of estimates of area sown and (b) the completion of harvesting and availability of estimates of production in respect of important crops. Being a non-land record state Kerala, Agriculture Statistics is being collected under EARAS Scheme since 1975-76.

## **4. Establishment of an Agency for Reporting Agricultural Statistics (EARAS)**

Under the scheme EARAS, collection of data for estimating area and yield statistics for every agricultural year by way of complete enumeration of the villages of the State in a phased manner powering 20 % of the selected villages was done in each year. The first cycle of the survey was completed within a period of six years 1975-76, 1980-81 and the second cycle in 1985-86. During 1993-94 the Investigator Zones were recognized by suiting the villages to Panchayats. From 2000-01 onwards the part Panchayats were discontinued and each Investigator Zone was formed with full Panchayat/Panchayats. Cluster sampling method is being followed in EARAS Scheme in order to obtain

representation from the entire area of the Investigator Zone. The production of crops are estimated on the basis of scientifically designed crop cutting experiments conducted by the Investigators under the supervision of Statistical Inspectors/Taluk Statistical Officers/ District Level Officers.

#### **5. District Level Committee (DLC)**

District Level Committee is also functioning in every district with representatives of NSO and Government officials of DES. The main objective in forming DLC is to probe into the reasons for the differences between the crop wise and non-crop area figures recorded by the State primary worker during the crop inspection and those observed by the Central/State Supervisor during sample check on area enumeration under the scheme Improvement of Crop Statistics (ICS).

PART II

**Analysis of Data 2019-20**

**Check on Area Enumeration and Area Aggregation**

Every year 80 non-overlapping Investigator Zones each under Central and State Samples are selected for Sample Check on Area Enumeration and Area Aggregation. The sample checks are conducted immediately after the completion of area enumeration survey under EARAS scheme.

**1) Response in Sample Check on Enumeration of Area during 2019-20**

The response in sample check on area enumeration i.e., the number of Investigator zones for which filled in schedules were received during 2019-20 given in Table-1. The response was 100% for all season for all districts for Central Sample & State Sample.

**2) Completion of Area Enumeration under EARAS**

The Investigator is required to complete the EARAS according to prescribed time schedule and to submit the filled up schedules immediately after the completion of work. The sample checks are conducted after the completion of area enumeration.

Timeliness in completion of area enumeration during 2019-20 is given in Table-2. The Timeliness of completion is 100%, 97.5%, 54.43% for Central Sample and 100%, 90% & 52.5% for State Sample respectively. 1.25% and 44.30% enumeration work during Winter and Summer season are completed after due date for Central Sample. 8.75 % for Winter and 46.25% for summer for state sample. The date of completion is not known is 1.25%, 1.27% for winter and summer season for central sample. 1.25%, 1.25% for winter and summer season for state sample.

### **3) Submission of EARAS Statement**

The details of season wise submission of EARAS statement during 2019-20 are indicated in Table-3. Timely submission of these statements still needs considerable improvement in almost all districts.

### **4) Discrepancies in recording crop and crop areas**

Details of crop and its area reported by the Investigator in the state system and with the corresponding entries made by the technical personnel associated with the ICS programme reveal the following type of discrepancies.

- 1) Non-reporting of crops actually grown (E1)
- 2) Reporting of crops actually not grown (E2)
- 3) Reporting of incorrect area of crops (E3)

The percentage of Survey numbers in which different types of discrepancies in recording paddy area by the Investigator during Autumn, Winter and Summer for the year 2019-20 are given in Table-4. The error, which non-reporting of the actual grown area of the crop (E1) is 1.55 in Winter for Central Sample. Reporting of crops actually not grown (E2) is 14.81% in Summer for Central Sample. Reporting of crops actually not grown (E2) in case of State Sample during Autumn is 1.76%. Reporting of incorrect area of crops (E3) is 0.83% in Autumn, 1.16% in Winter and 1.23% in Summer for Central Sample. Reporting of crops actually not grown (E2) in case of State Sample during Autumn is 1.76%. Reporting of incorrect area of crops (E3) is 1.76% in Autumn and 1.61% in Winter for State Sample.

### **5) Discrepancies in recording variety particulars of seed used**

Information on distribution of survey numbers as per the type of seed used for paddy during Autumn, Winter and Summer is given in Table 5(a), 5(w) and 5 (s) respectively. There is no difference in recording of seeds used during Autumn season for Central Sample.

### Part III

#### CHECK ON CROP CUTTING EXPERIMENTS

##### 1. Response in Sample check on Crop Cutting Experiments

Table 6 reflects the percentage of crop cutting experiments during each season for each district for the year 2019-20. For Central Sample the response was 98% during Autumn and 99% for State Sample. For Central and State Sample the response for Winter was 99% and 100%. In Summer season response was 53% and 57% for Central and State samples respectively. Annual response of paddy Crop cutting for Central Sample is 83.33% and State Sample is 85.33%.

##### 2. Distribution of number of experiments conducted according to important inputs

Table 7(i), 7(ii) and 7(iii) shows the details of paddy crop cutting experiments conducted according to the percentage of experiments, irrigated, sown with high yielding varieties of seeds and applied with fertilizer. More care may be given to attend the programme of ICS and procedure followed by the supervisory officer in time. The extent of participation at harvest stage is presented in the table.

##### 3. Procedural Deviations and Discrepancies

The officer who attends Crop Cutting experiment selected for Sample Check may examine if there is any deviation from guidelines and procedure occurs.

Incidences of deviation and departure observed during the Sample Check programme for each crop are:

- E1 – Error in selection of survey/sub-survey numbers
- E2 – Error in selection of field within survey/sub-survey numbers
- E3 – Error in reporting seed variety
- E4 - Error in reporting seed rate.
- E5 - Error in reporting irrigation particulars
- E6 - Error in reporting application of fertilizers



- E7 - Error in reporting application of manures
- E8 - Error in reporting application of pesticides
- E9 - Error in reporting measurement of field
- E10 - Error in checking random numbers
- E11 - Error in location of plots
- E12 - Error in plot dimensions
- E13 - Error in weighing of produce
- E14 - Inadequate arrangement for storing the produce for drying
- E15 - Error in reporting proportion of experimental crops in mixture/wrong reporting of constituents in mixture and
- E16 - any one of the items missing

#### **4. Supply and use of Crop Cutting Equipments**

The information on supply and use of crop cutting equipments such as Tapes, Pegs, Balance and Weights collected during the Sample Check survey 2019-20 is presented in Tables 16(i) & 16 (ii). In most districts standard equipment which supplied were used but in some district the use of non-standard equipments are noticed. Use of non-standard equipments should be avoided.

#### **IV Estimation on Average Yield Rates**

Estimated yield rates of high yielding and other varieties of crops for irrigated and unirrigated categories and crop-wise rate of application of fertilizers and differential yield rates according to inputs for paddy during Autumn, Winter and Summer for Central and State samples are given in the Tables 8 (iii), 8 (iv), 8 (v), 8(vi), 9(iii), 9(iv), 9(v), 9(vi), 10(iii), 10(iv), 10(v) & 10(vi).

Crop wise number of experiments planned for Sample Check at harvest and the response received variety wise estimated yield rates for irrigated and unirrigated categories, crop-wise rate of application of fertilizers and yield rates according to inputs for Central and State samples for the whole year crops Banana, Tapioca, Coconut, Pepper and Arecanut are given in the Tables 11(i),

(ii), (iii),(iv), (v), (vi), 12(i), (ii), (iii), (iv), (v), (vi), 13(i), (ii), (iii), (iv), (v), (vi), 14(i), (ii), (iii), (iv), (v), (vi), 15(i), (ii), (iii), (iv), (v), (vi).

## **V. Comparison of ICS and GCES yield Estimates**

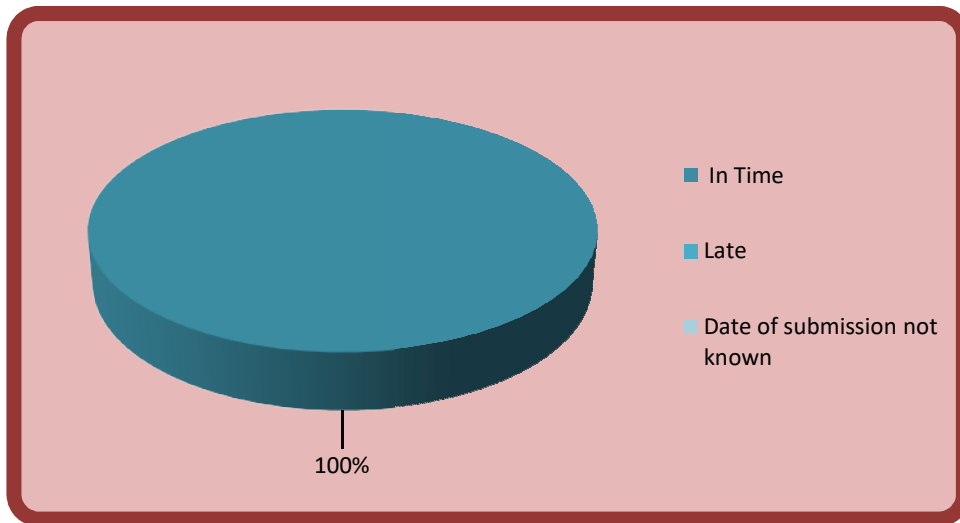
The district yield rates of rice under ICS and GCES during the year 2019-20 for Central and State samples are given in Table 17(i).

Trend of yield rate for Rice under ICS and GCES during Autumn, Winter and Summer for the year 2019-20 are given in Chart 7, 8 and 9 respectively. District wise yield rate of Rice under GCES and ICS are given in Chart 10, 11 and 12 respectively. Season wise yield rate under GCES and ICS for paddy is given in Chart 13.

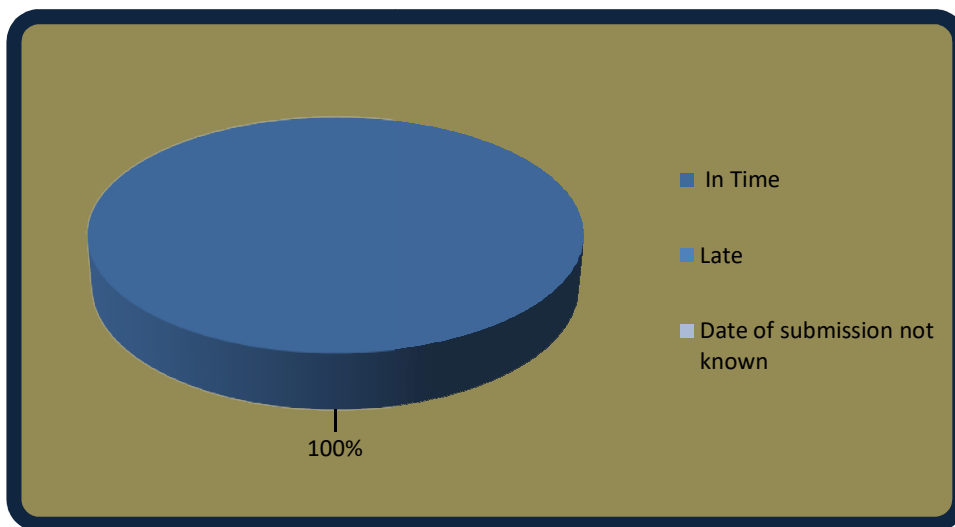
Yield rates of rice under ICS are lower as compared to GCES during Autumn and Summer season. The yield rates of important crops under GCES and ICS for the year 2019-20 is given in Table 17(i) & 17(ii). A graphical representation of yield rates of Tapioca, Banana, Coconut, Pepper and Arecanut are given in Chart 14 to 18. A graphical representation of Crop wise yield rates of important crops during 2019-20 is given in Chart-19.



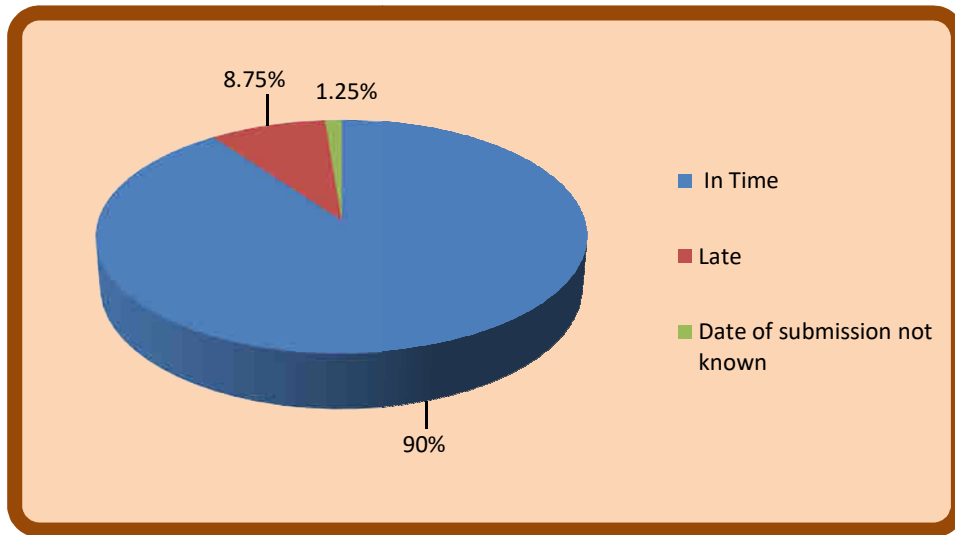
**CHART-1**  
**COMPLETION OF GIRDAWARI 2019-20**  
**AUTUMN**  
**STATE SAMPLE**



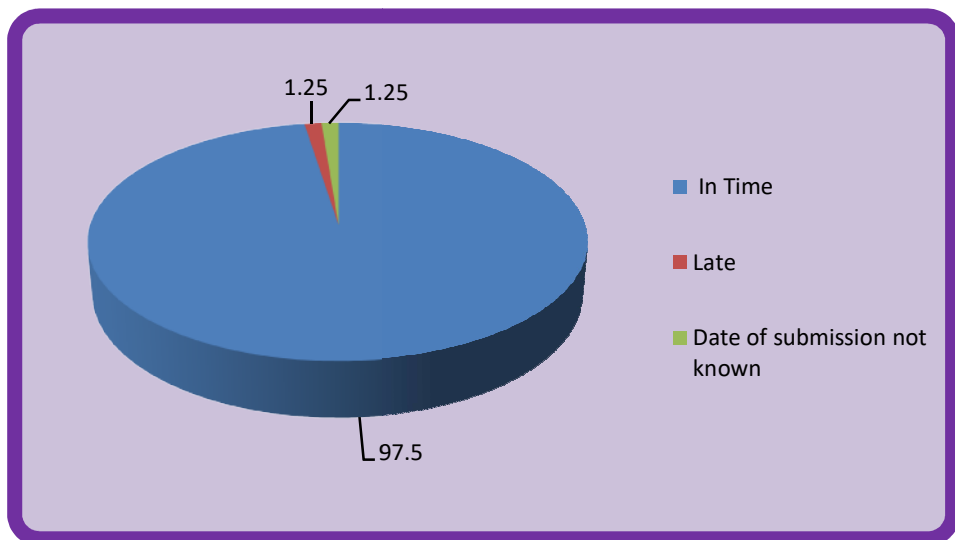
**CENTRAL SAMPLE**



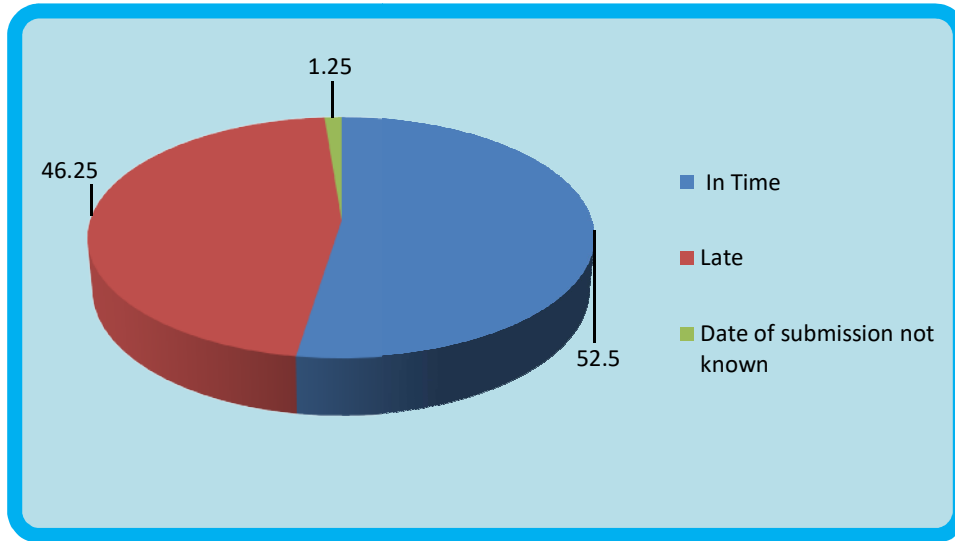
**CHART-2**  
**COMPLETION OF GIRDAWARI 2019-2020**  
**WINTER**  
**STATE SAMPLE**



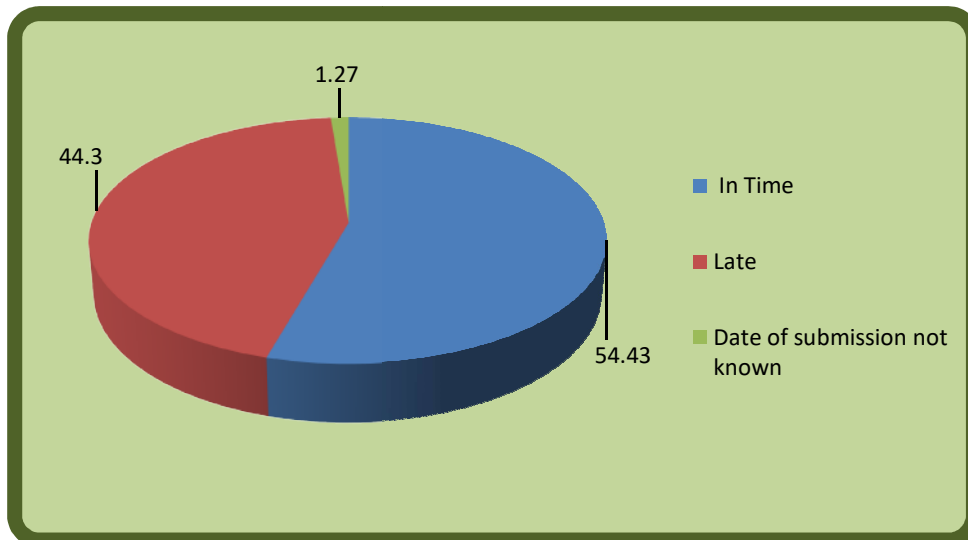
**CENTRAL SAMPLE**



**CHART-3**  
**COMPLETION OF GIRDAWARI 2019-2020**  
**SUMMER**  
**STATE SAMPLE**



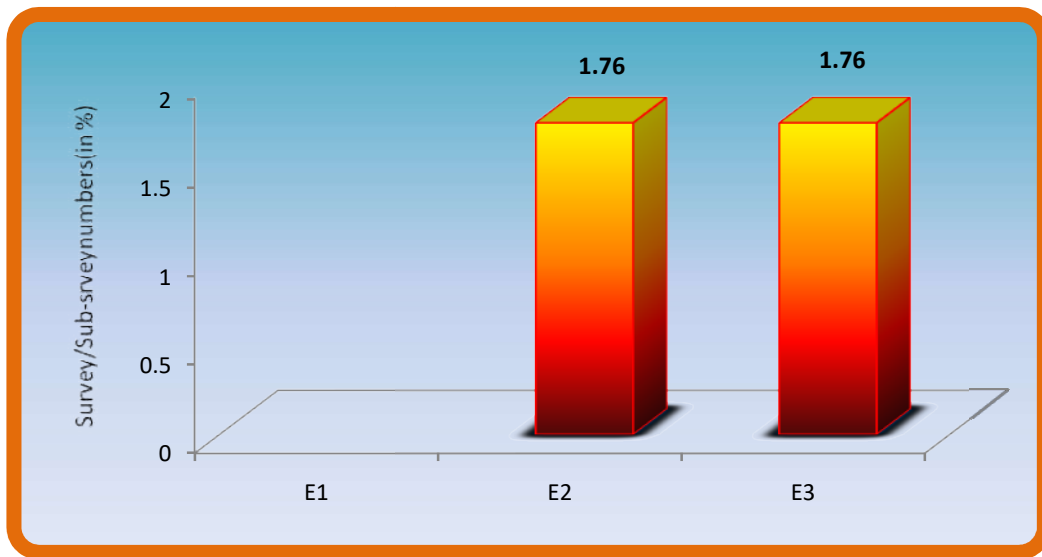
**CENTRAL SAMPLE**



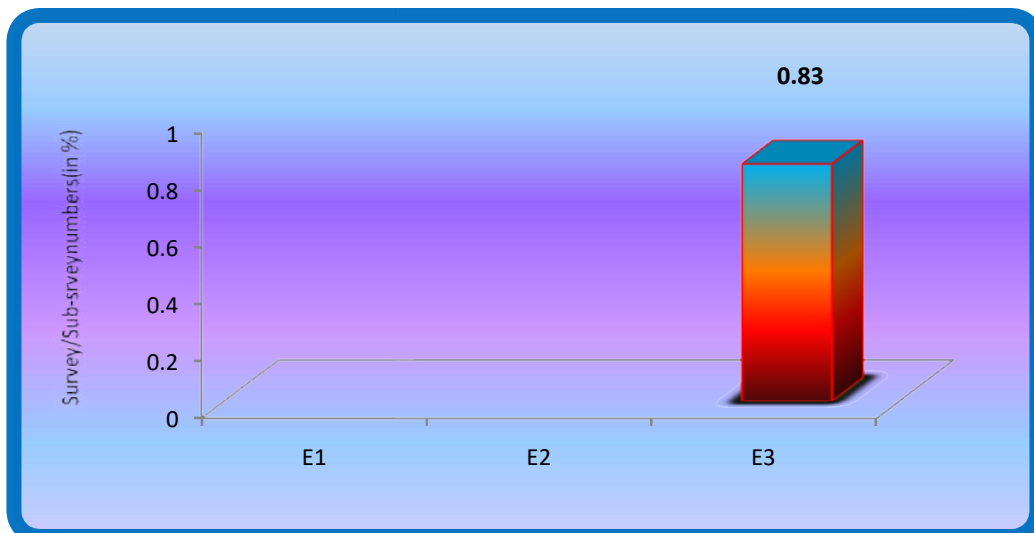
**CHART-4**  
**ERRORS IN RECORDING CROP AND CROP AREAS 2019-20**

**AUTUMN**

**STATE SAMPLE**

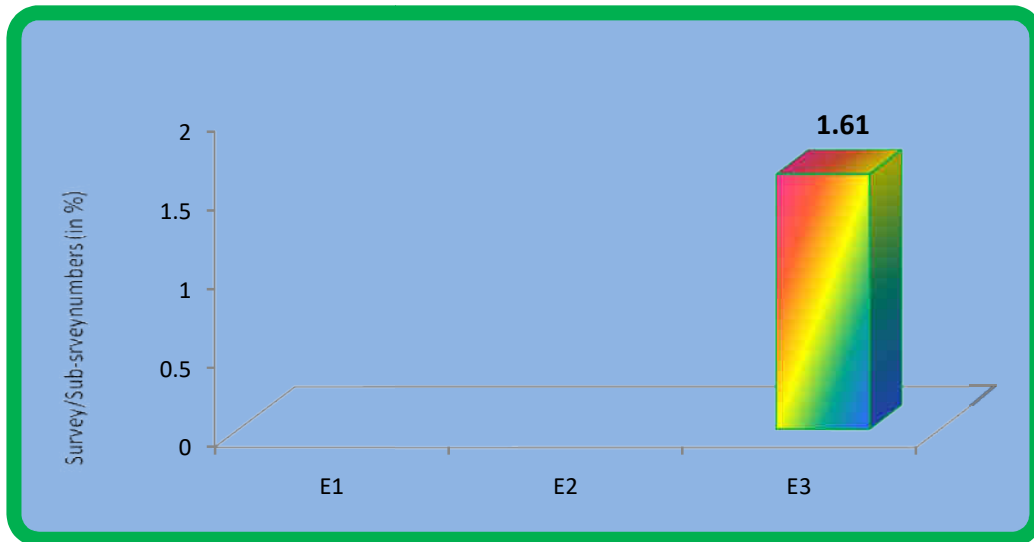


**CENTRAL SAMPLE**

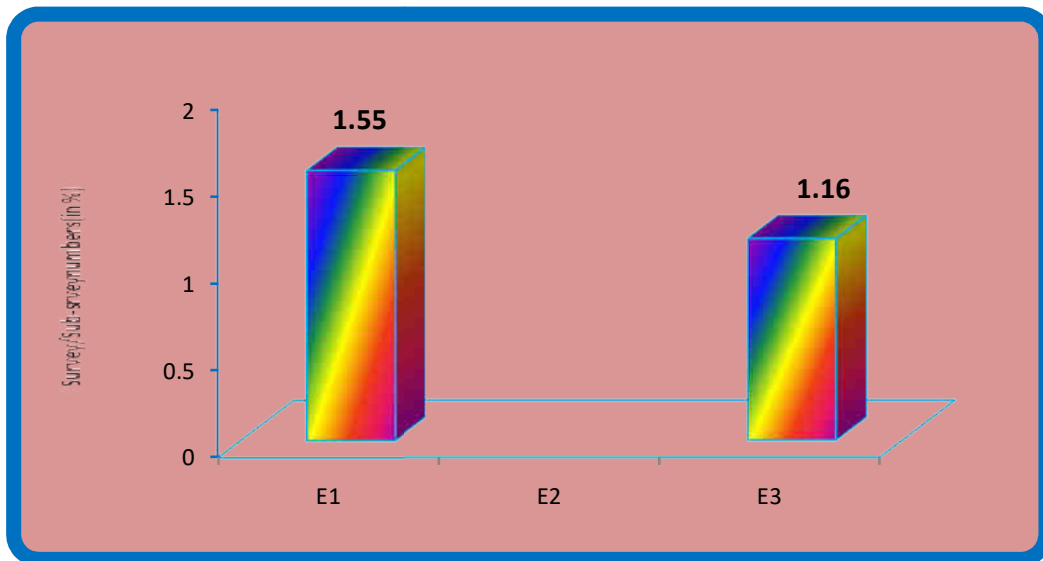


**CHART-5**  
**ERRORS IN RECORDING CROPS AND CROP AREAS**  
**2019-20 - WINTER**

**STATE SAMPLE**



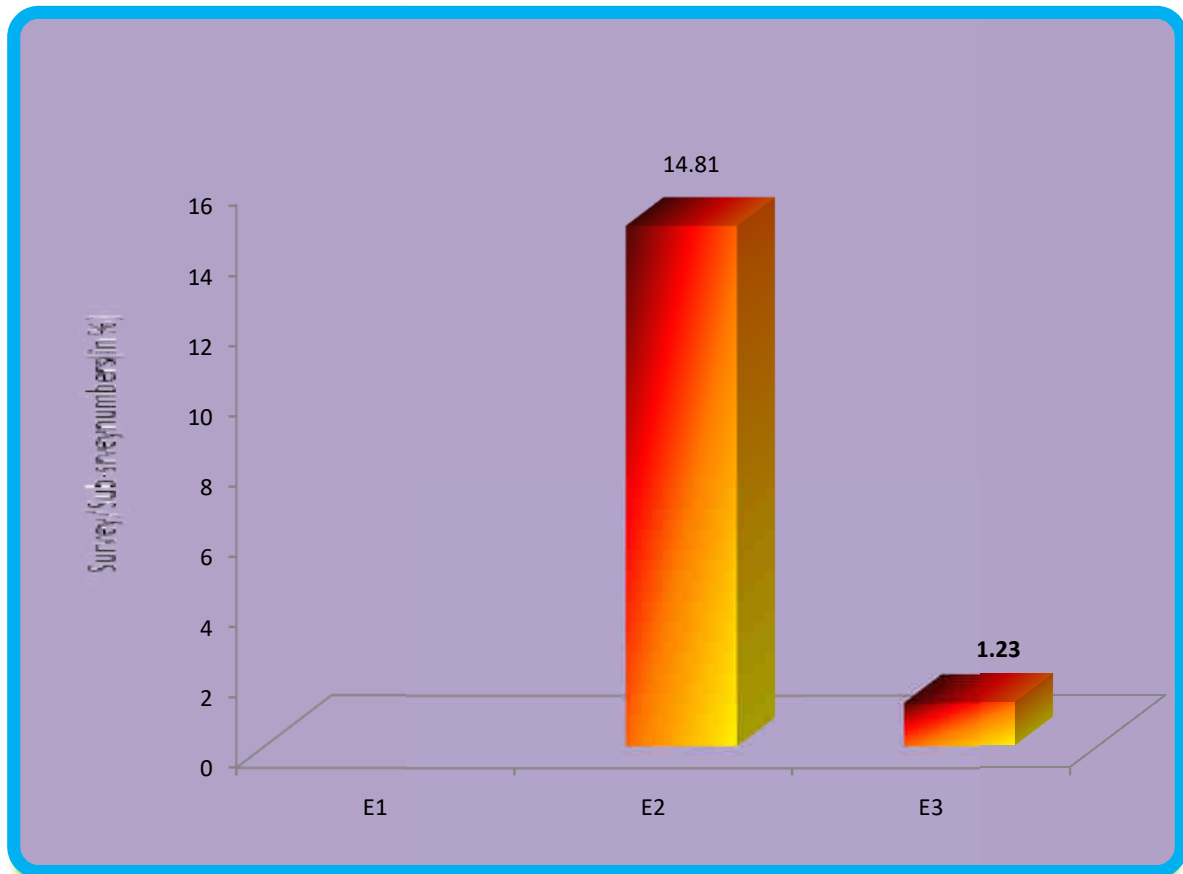
**CENTRAL SAMPLE**





### CHART-6

## ERRORS IN RECORDING CROPS AND CROP AREAS 2019-20- SUMMER CENTRAL SAMPLE



**CHART-7**

**TREND OF YIELD RATES OF RICE UNDER ICS & GCES 2015-16 TO 2019-20**

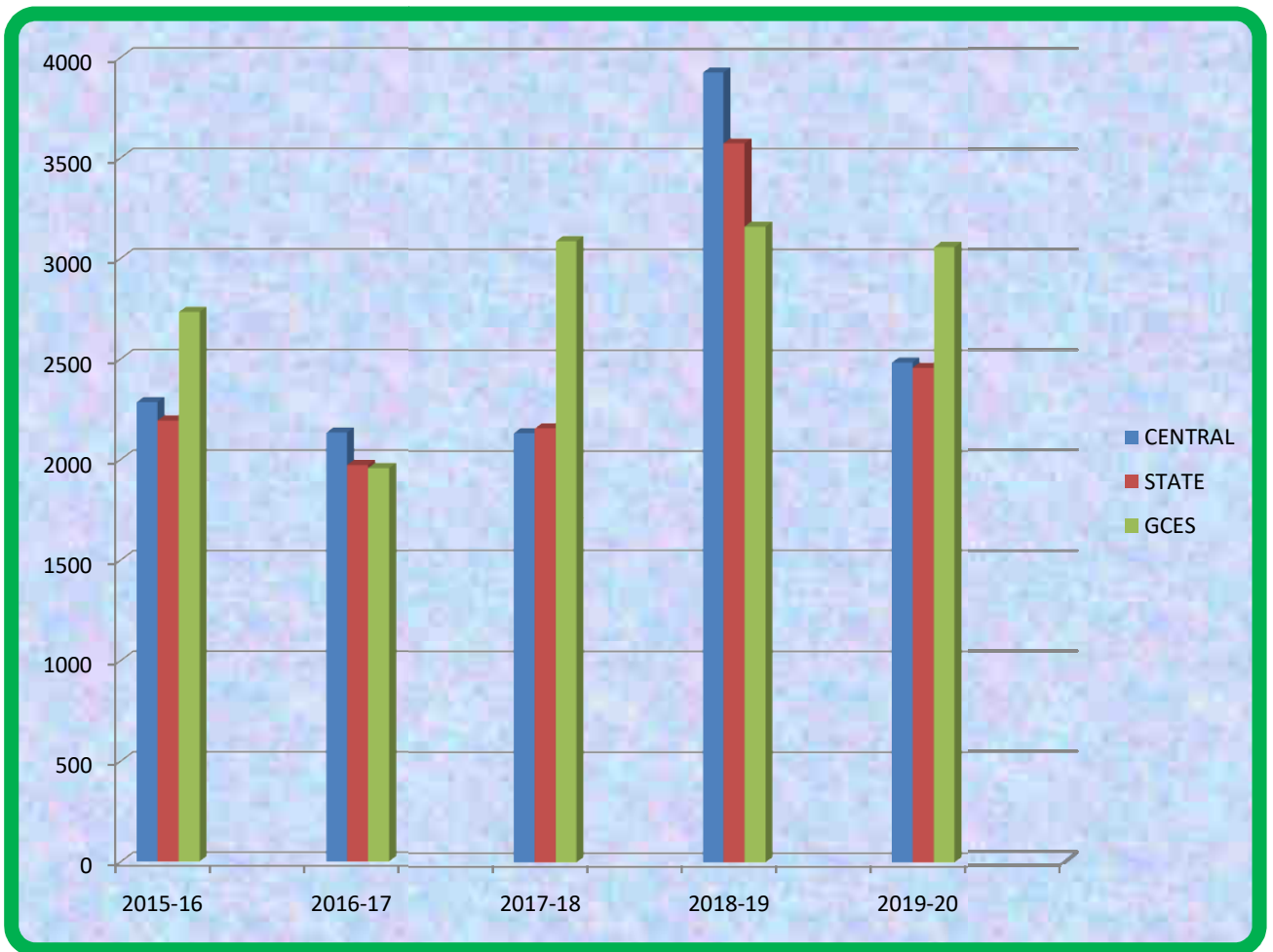
**AUTUMN**



### CHART-8

## TREND OF YIELD RATES OF RICE UNDER ICS & GCES 2015-16 TO 2019-20

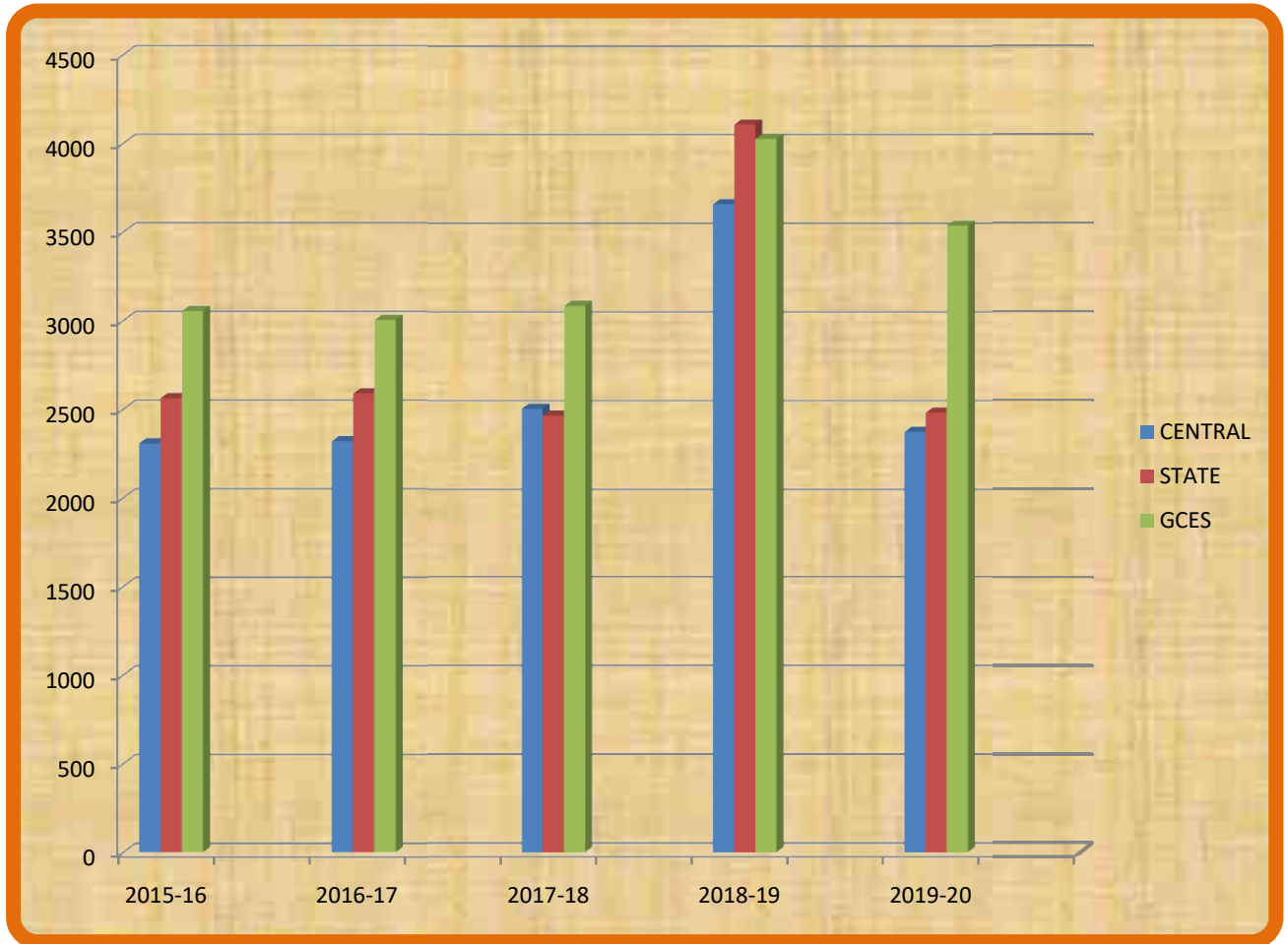
### WINTER



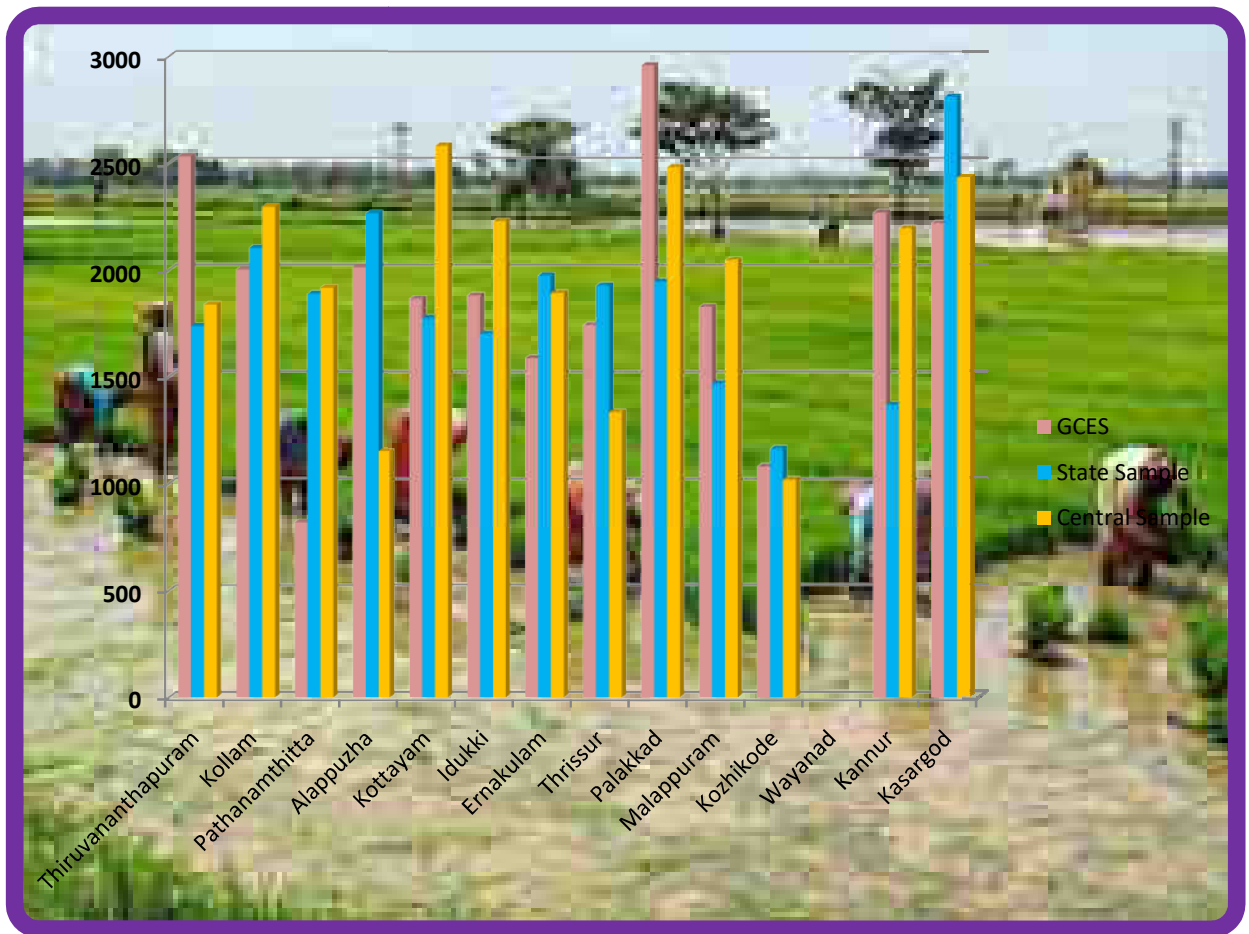
### CHART-9

## TREND OF YIELD RATES OF RICE UNDER ICS & GCES 2015-16 TO 2019-20

### SUMMER



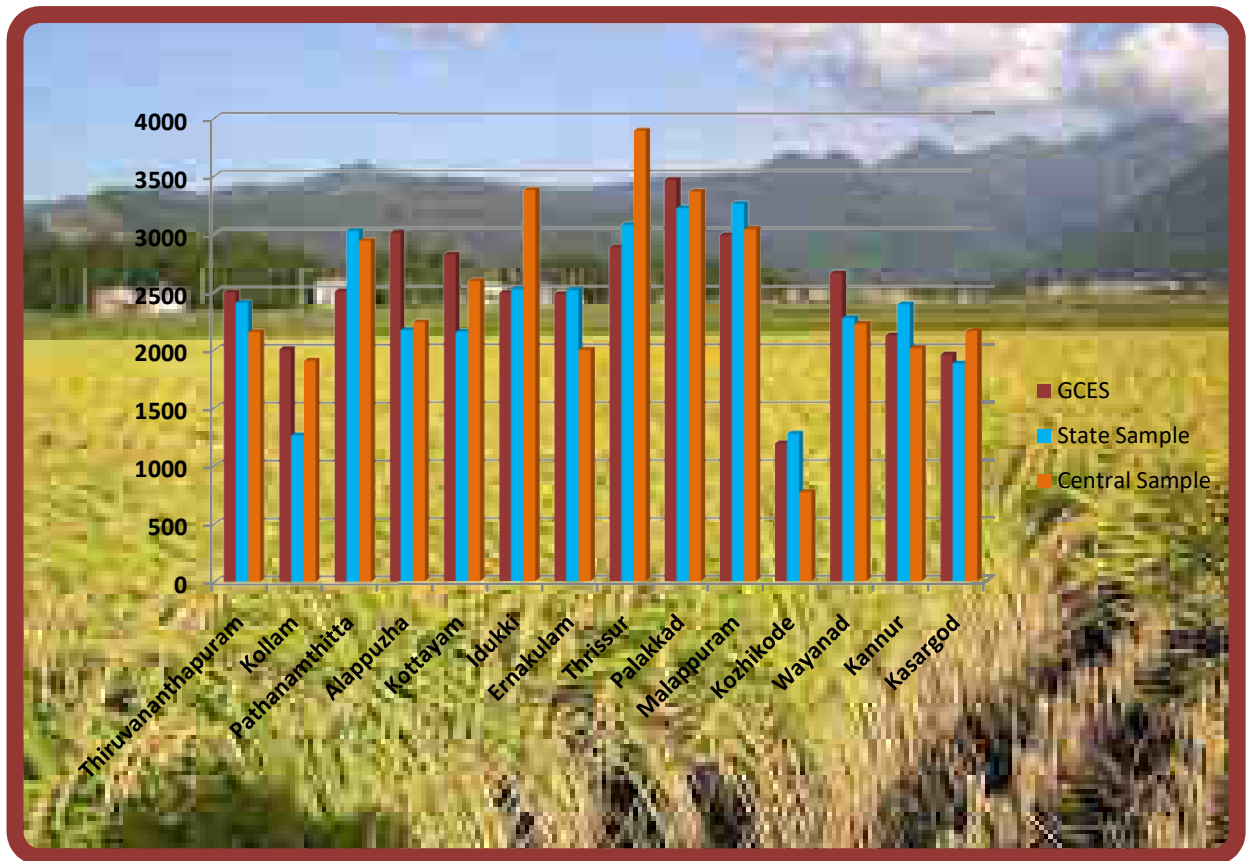
**CHART-10**  
**DISRTICTWISE YIELD RATES OF RICE – ICS & GCES**  
**AUTUMN 2019-20**



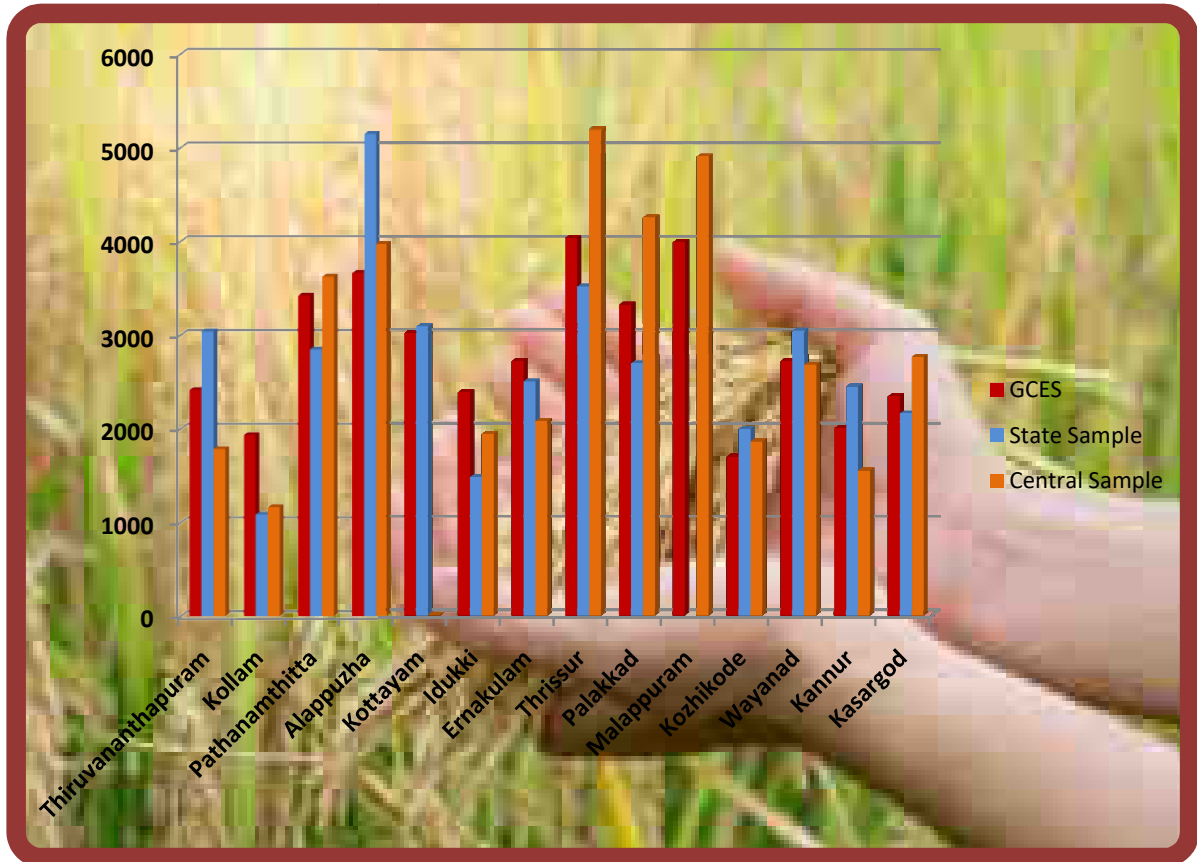
**CHART-11**

**DISRTICTWISE YIELD RATES OF RICE - ICS & GCES**

**WINTER 2019-20**

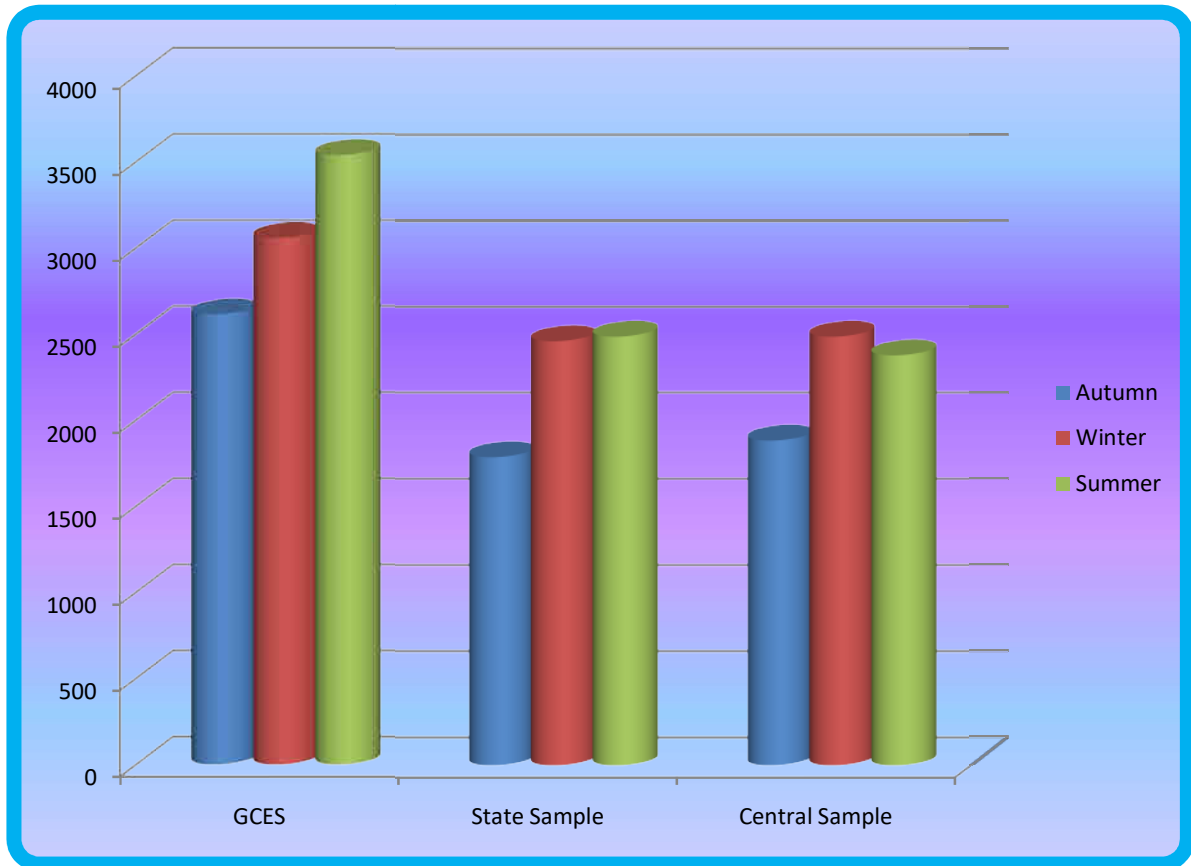


**CHART-12**  
**DISRTICTWISE YIELD RATES OF RICE - ICS & GCES**  
**SUMMER 2019-20**



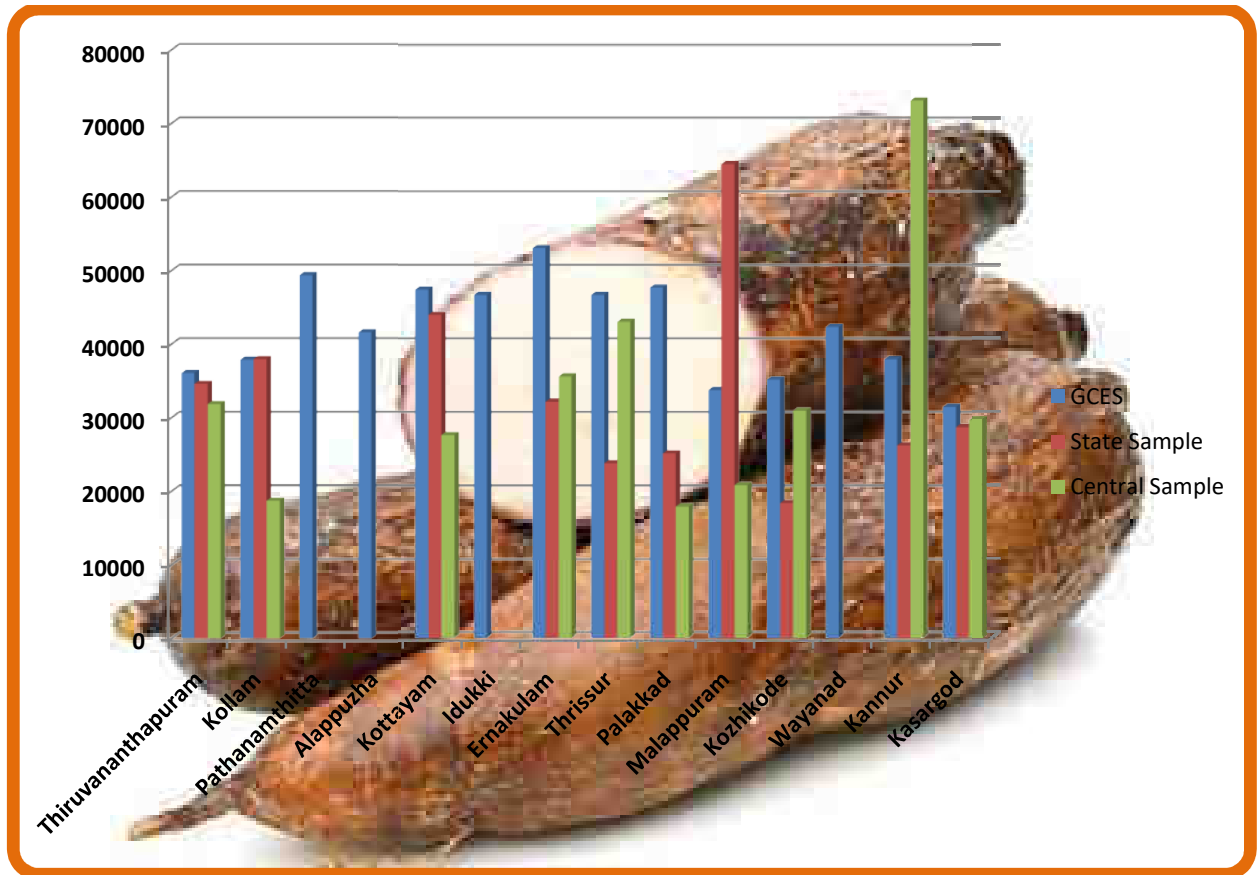
**CHART-13**

**SEASONWISE YIELD RATE OF RICE UNDER GCES & ICS  
2019-20**

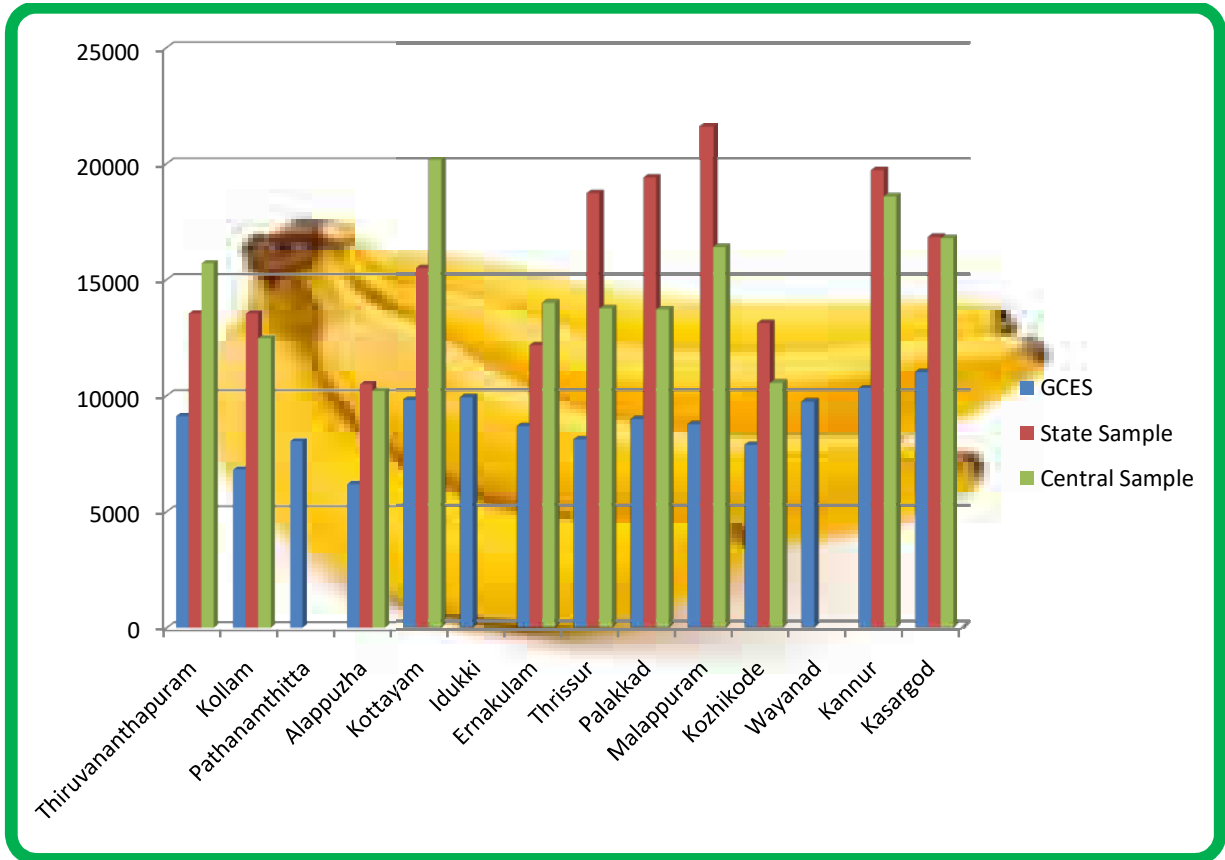




**CHART-14**  
**DISTRICTWISE YIELD RATE OF TAPIOCA**  
**2019-20**



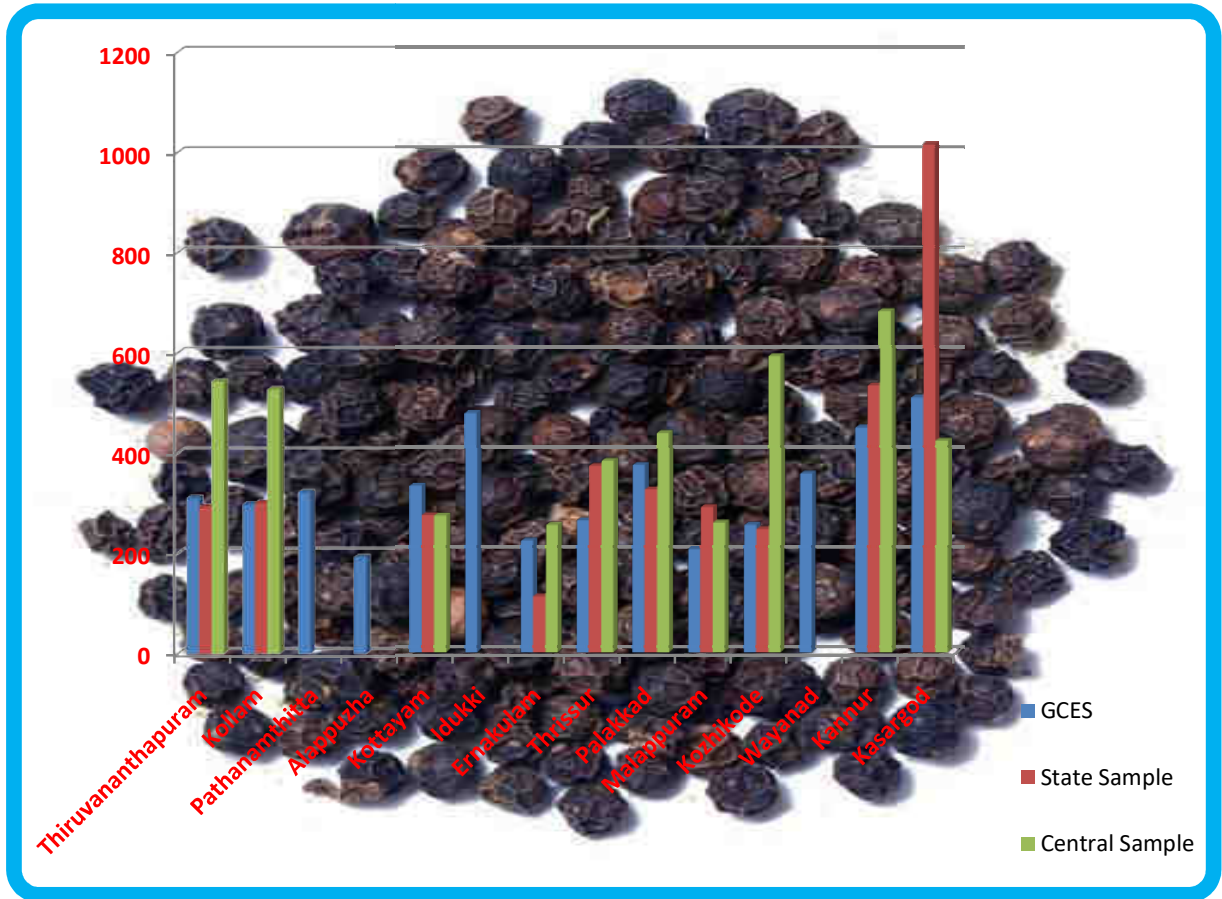
**CHART-15**  
**DISTRICTWISE YIELD RATE OF BANANA**  
**2019-20**



**CHART-16**  
**DISTRICTWISE YIELD RATE OF COCONUT**  
**2019-20**



**CHART-17**  
**DISTRICTWISE YIELD RATE OF PEPPER**  
**2019-20**



**CHART-18**  
**DISTRICTWISE YIELD RATE OF ARECANUT**  
**2019-20**



**CHART-19**  
**CROPWISE YIELD RATES OF IMPORTANT CROPS**  
**UNDER GCES & ICS 2019-20**

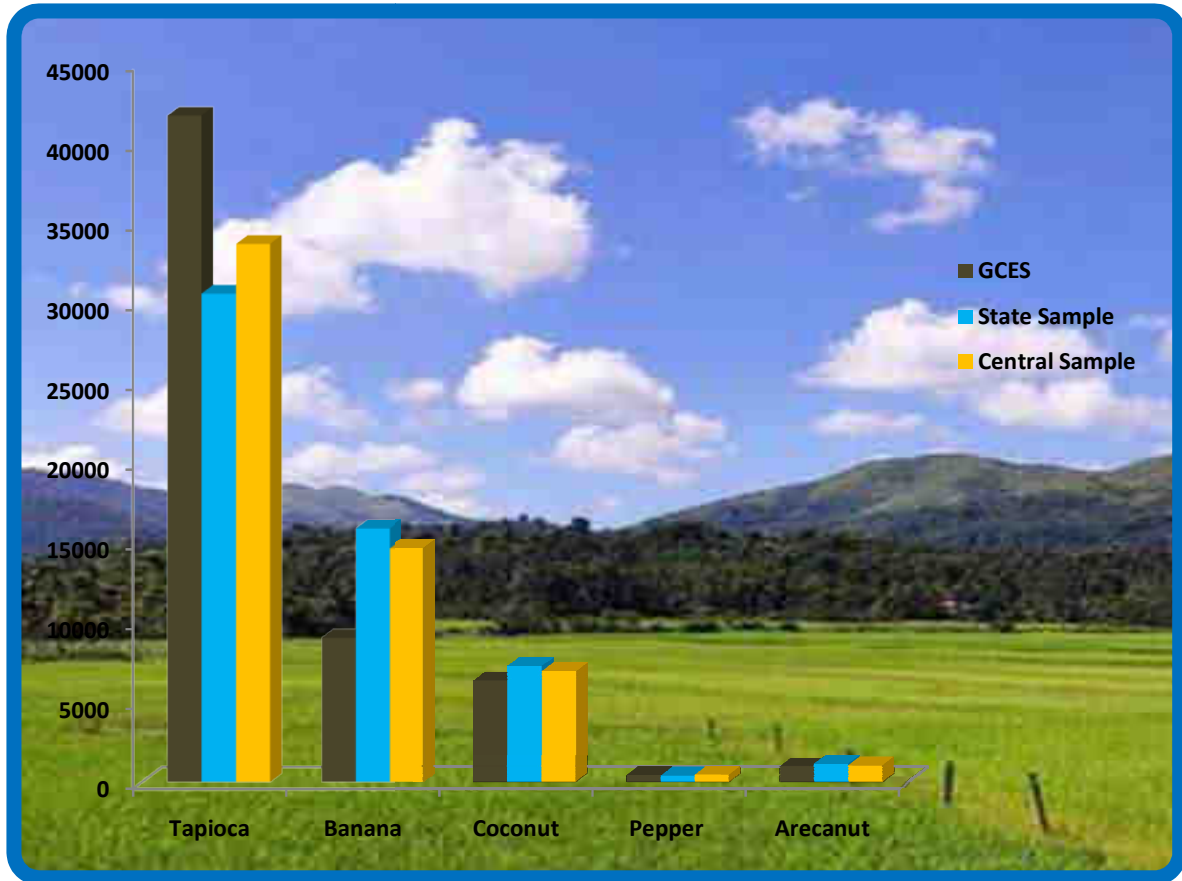




Table-1

## RESPONSE IN SAMPLECHECK ON ENUMERATION OF AREA DURING 2019-20

Sl. No.	District	Agency	Sample Size	Percentage of Response		
				Autumn	Winter	Summer
1	2	3	4	5	6	7
1	Thiruvananthapuram	C	5	100	100	100
		S	5	100	100	100
2	Kollam	C	5	100	100	100
		S	5	100	100	100
3	Pathanamthitta	C	3	100	100	100
		S	3	100	100	100
4	Alappuzha	C	3	100	100	100
		S	3	100	100	100
5	Kottayam	C	6	100	100	100
		S	6	100	100	100
6	Idukki	C	9	100	100	100
		S	9	100	100	100
7	Ernakulam	C	5	100	100	100
		S	5	100	100	100
8	Thrissur	C	5	100	100	100
		S	5	100	100	100
9	Palakkad	C	9	100	100	100
		S	9	100	100	100
10	Malappuram	C	7	100	100	100
		S	7	100	100	100
11	Kozhikode	C	6	100	100	100
		S	6	100	100	100
12	Wayanad	C	5	100	100	100
		S	5	100	100	100
13	Kannur	C	7	100	100	100
		S	7	100	100	100
14	Kasaragod	C	5	100	100	100
		S	5	100	100	100
<b>For District Covered</b>		<b>C</b>	<b>80</b>	<b>100</b>	<b>100</b>	<b>100</b>
		<b>S</b>	<b>80</b>	<b>100</b>	<b>100</b>	<b>100</b>



Table-2

## TIMELINESS IN COMPLETION OF GIRDAWARI DURING 2019-20

Sl. No.	District	Agency	Percentage of villages where girdawari was completed during											
			Autumn				Winter				Summer			
			In Time	Late	But date of completion not known	Partially completed	In Time	Late	But date of completion not known	Partially completed	In Time	Late	But date of completion not known	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	Thiruvananthapuram	C	100				80	20				100		
		S	100				100				100			
2	Kollam	C	100				100				20	80		
		S	100					80	20			100		
3	Pathanamthitta	C	100				100					100		
		S	100					100				100		
4	Alappuzha	C	100				100					100		
		S	100				100					100		
5	Kottayam	C	100				100				66.67	33.33		
		S	100				100					100		
6	Idukki	C	100				100				88.89	11.11		
		S	100				100				88.89		11.11	
7	Ernakulam	C	100				100				40	60		
		S	100				100					100		
8	Thrissur	C	100				100					80*		
		S	100				100					100		
9	Palakkad	C	100				100					100		
		S	100				100				100			
10	Malappuram	C	100				100				85.71	14.29		
		S	100				100					100		
11	Kozhikode	C	100				100				83.33		16.67	
		S	100				100				83.33	16.67		
12	Wayanad	C	100				100				100			
		S	100				100				60	40		
13	Kannur	C	100				100				100			
		S	100				100				100			
14	Kasaragod	C	100				80		20		100			
		S	100				100				100			
<b>For District Covered</b>		C	<b>100</b>				<b>97.5</b>	<b>1.25</b>	<b>1.25</b>		<b>54.43</b>	<b>44.30</b>	<b>1.27</b>	
		S	<b>100</b>				<b>90</b>	<b>8.75</b>	<b>1.25</b>		<b>52.5</b>	<b>46.25</b>	<b>1.25</b>	

- In Thrissur district one Investigator zone (Central Sample) was not enumerated as the area was Covid Containment zone

**Table-3**  
**TIMELINESS IN SUBMISSION OF EARAS STATEMENT DURING 2019-20**

Sl. No	District	Season	Agency	Percentage of villages for which									
				EARAS Statement submitted				EARAS statement not submitted					
				Without completing girdawari		After completing girdawari		Information regarding date of submission not known	Though girdawari completed	Girdawari not completed	Information regarding date of submission not known		
				By due date	After due date	By due date	After due date						
1	2	3	4	5	6	7	8	9	10	11	12		
1	Thiruvananthapuram	Autumn	C			100							
			S			100							
		Winter	C			100							
			S			100							
		Summer	C		80		20						
			S			100							
2	Kollam	Autumn	C			80		20					
			S		100								
		Winter	C			100							
			S		80		20						
		Summer	C	40	20		40						
			S		40			60					
3	Pathanamthitta	Autumn	C			100							
			S	100									
		Winter	C			100							
			S	66.67				33.33					
		Summer	C		33.33		66.67						
			S	100									
4	Alappuzha	Autumn	C			66.67	33.33						
			S			100							
		Winter	C			100							
			S			100							
		Summer	C		66.67		33.33						
			S		100								
5	Kottayam	Autumn	C			16.67	83.33						
			S			100							
		Winter	C			100							
			S			100							
		Summer	C		33.33	33.33	33.33						
			S		100								

Table 3 contd...

**Table-3**  
**TIMELINESS IN SUBMISSION OF EARAS STATEMENT DURING 2019-20**

Sl No	District	Season	Agency	Percentage of villages for which								
				EARAS Statement submitted				EARAS statement not submitted				
				Without completing girdawari		After completing girdawari		Information regarding date of submission not known	Though girdawari completed	Girdawari not completed	Information regarding date of submission not known	
				By due date	After due date	By due date	After due date					
1	2	3	4	5	6	7	8	9	10	11	12	
6	Idukki	Autumn	C			77.78	11.11	11.11				
			S			100						
		Winter	C			100						
			S			100						
		Summer	C		11.11	22.22	55.56	11.11				
			S			88.89		11.11				
7	Ernakulam	Autumn	C			60	40					
			S			100						
		Winter	C			100						
			S			100						
		Summer	C			40	60					
			S		20		80					
8	Thrissur	Autumn	C			60	40					
			S			100						
		Winter	C			100						
			S			100						
		Summer	C				80					
			S		20		80					
9	Palakkad	Autumn	C				100					
			S			100						
		Winter	C			100						
			S			100						
		Summer	C				100					
			S			100						
10	Malappuram	Autumn	C			28.57	57.14	14.29				
			S			100						
		Winter	C			85.71		14.29				
			S			100						
		Summer	C		14.29	42.86	42.86					
			S		42.86		57.14					

Table-3 contd....

In Thrissur district one zone was not enumerated due to Covid 19 lockdown

**Table-3**  
**TIMELINESS IN SUBMISSION OF EARAS STATEMENT DURING 2019-20**

Sl. No	District	Season	Agency	Percentage of villages for which							
				EARAS Statement submitted				EARAS Statement not submitted			
				Without completing girdawari		After completing girdawari		Information regarding date of submission not known	Though girdawari completed	Girdawari not completed	Information regarding date of submission not known
				By due date	After due date	By due date	After due date				
1	2	3	4	5	6	7	8	9	10	11	12
11	Kozhikode	Autumn	C			50	33.33	16.67			
			S	16.67		83.33					
		Winter	C			100					
			S			100					
		Summer	C			100					
			S				100				
12	Wayanad	Autumn	C			40	60				
			S			100					
		Winter	C			80		20			
			S			100					
		Summer	C			100					
			S		20		80				
13	Kannur	Autumn	C			85.7	14.29				
			S			100					
		Winter	C			100					
			S			100					
		Summer	C			14.29	85.7				
			S				100				
14	Kasaragod	Autumn	C			100					
			S			100					
		Winter	C			100					
			S			100					
		Summer	C			20	80				
			S			100					
<b>For District covered</b>		<b>Autumn</b>	C			<b>57.5</b>	<b>37.5</b>	<b>5</b>			
			S	<b>5</b>	<b>6.25</b>	<b>88.75</b>					
		<b>Winter</b>	C			<b>97.5</b>		<b>2.5</b>			
			S	<b>2.5</b>	<b>5</b>	<b>90</b>		<b>2.5</b>			
		<b>Summer</b>	C	<b>2.53</b>	<b>15.19</b>	<b>27.85</b>	<b>53.16</b>	<b>1.27</b>			
			S	<b>3.75</b>	<b>21.25</b>	<b>33.75</b>	<b>36.25</b>	<b>5</b>			
C-Central Sample      S-State Sample											

**Table-4**  
**PERCENTAGE OF SURVEY NUMBERS IN WHICH ERRORS IN RECORDING CROP**  
**AREAS WERE OBSERVED:2019-20**

Sl. No.	District	Agency	Percentage of survey numbers with different types of errors in enumeration of area during												
			AUTUMN				WINTER				SUMMER				
			e <sub>0</sub>	e <sub>1</sub>	e <sub>2</sub>	e <sub>3</sub>	e <sub>0</sub>	e <sub>1</sub>	e <sub>2</sub>	e <sub>3</sub>	e <sub>0</sub>	e <sub>1</sub>	e <sub>2</sub>	e <sub>3</sub>	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Thiruvananthapuram	C	90			10	100								
		S	100				100								
2	Kollam	C	100				100				100				
		S	83.33			16.67	100								
3	Pathanamthitta	C					100				92.86				7.14
		S					100								
4	Alappuzha	C									100				
		S	100				100				100				
5	Kottayam	C					100				100				
		S	100				100								
6	Idukki	C					92.86			7.14	100				
		S	100				100								
7	Ernakulam	C	100				100								
		S	100				88.88			11.11	100				
8	Thrissur	C	100				100				100				
		S	100				100				100				
9	Palakkad	C	100				100							100	
		S	100				100				100				
10	Malappuram	C					91.30			8.7	100				
		S					95.65			4.35	100				
11	Kozhikode	C					100								
		S	100				100				100				
12	Wayanad	C					100				100				
		S					96.55			3.45	100				
13	Kannur	C	100				60	40							
		S	81.48		11.11	7.41	100								
14	Kasargod	C	100				100				100				
		S	100				93.75			6.25	100				
For District covered		C	99.17			0.83	97.29	1.55		1.16	83.95		14.81	1.23	
		S	96.47		1.76	1.76	98.39			1.61	100				
C-Central Sample S-State Sample															
e <sub>0</sub> -NOerror      e <sub>1</sub> -Non reporting of crops actually grown      e <sub>2</sub> -Reporting of crops actually not grown															
e <sub>3</sub> -Reporting incorrect area of crops															

Table 5(a)

**DISCREPANCIES IN RECORDING SEED VARIETY PARTICULARS OF PADDY  
DURING 2019-20  
AUTUMN**

Sl. No.	District	Agency	Percentage of survey numbers in which particulars												
			Tallied				Not Tallied								
			Hy & L	Hy	L	Total	Supervisor				Patwari				
							Hy	L	NR	Total	Hy	L	NR	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Thiruvananthapuram	C		90	10										
		S		95	5										
2	Kollam	C		100											
		S		83.33	16.67										
3	Pathanamthitta	C													
		S													
4	Alappuzha	C													
		S		100											
5	Kottayam	C													
		S		100											
6	Idukki	C													
		S		100											
7	Ernakulam	C		100											
		S		93.75	6.25										
8	Thrissur	C		100											
		S		100											
9	Palakkad	C		98.61	1.39										
		S		100											
10	Malappuram	C													
		S													
11	Kozhikode	C													
		S		100											
12	Wayanad	C													
		S													
13	Kannur	C		66.67	33.33										
		S		88.89							11.11				
14	Kasargod	C		92.86	7.14										
		S		94.44	5.56										
<b>For District Covered</b>		C		<b>95.83</b>	<b>4.17</b>										
		S		<b>95.88</b>	<b>2.35</b>						<b>1.77</b>				

C-Central Sample    S-State Sample  
HY-High Yielding Seed    L-Local variety seed    NR-Non reporting

**Table-5(w)**  
**DISCREPANCIES IN RECORDING SEED VARIETY PARTICULARS OF**  
**PADDY DURING 2019-20**  
**WINTER**

Sl. No.	District	Agency	Percentage of survey numbers in which particulars												
			Tallied				Not Tallied								
							Supervisor				Patwari				
			Hy & L	Hy	L	Total	Hy	L	NR	Total	Hy	L	NR	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Thiruvananthapuram	C		100											
		S		100											
2	Kollam	C		33.33	66.67										
		S		100											
3	Pathanamthitta	C		100											
		S		100											
4	Alappuzha	C													
		S		100											
5	Kottayam	C		100											
		S		100											
6	Idukki	C		100											
		S		100											
7	Ernakulam	C		100											
		S		88.89	11.11										
8	Thrissur	C		100											
		S		100											
9	Palakkad	C		91.49	8.51										
		S		100											
10	Malappuram	C		100											
		S		95.65	4.35										
11	Kozhikode	C		34.78	65.22										
		S		80	20										
12	Wayanad	C		89.29	10.71										
		S		79.3	20.70										
13	Kannur	C		50	10		40								
		S		54.55	45.45										
14	Kasargod	C		50	50										
		S		50	50										
<b>For District covered</b>		C		<b>86.82</b>	<b>11.63</b>		<b>1.55</b>								
		S		<b>87.74</b>	<b>12.26</b>										
C-Central Sample      S-State Sample															
HY-High Yielding Seed      L-Local variety seed      NR-Non reporting															

**Table-5(S)**  
**DISCREPANCIES IN RECORDING SEED VARIETY PARTICULARS OF PADDY DURING**  
**2019-20**  
**SUMMER**

Sl. No.	District	Agency	Percentage of survey numbers in which particulars											
			Tallied				Not Tallied							
			Hy & L	Hy	L	Total	Supervisor				Patwari			
Hy	L	NR					Total	Hy	L	NR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvananthapuram	C												
		S												
2	Kollam	C		33.33	66.67									
		S												
3	Pathanamthitta	C		100										
		S												
4	Alappuzha	C		100										
		S		100										
5	Kottayam	C		100										
		S												
6	Idukki	C		100										
		S												
7	Ernakulam	C												
		S		100										
8	Thrissur	C		100										
		S		100										
9	Palakkad	C							100					
		S		100										
10	Malappuram	C		100										
		S		33.33	66.67									
11	Kozhikode	C												
		S		100										
12	Wayanad	C		100										
		S		100										
13	Kannur	C												
		S												
14	Kasargod	C			100									
		S		100										
<b>For District covered</b>		C		<b>81.49</b>	<b>3.70</b>				<b>14.81</b>					
		S		<b>88.64</b>	<b>11.36</b>									

C-Central Sample      S-State Sample  
HY-High Yielding Seed      L-Local variety seed      NR-Non reporting



**Table-6**  
**RESPONSE IN SAMPLECHECK ON CROP CUTTING EXPERIMENTS FOR PADDY**  
**DURING 2019-20**

Sl. No.	District	Agency	AUTUMN		WINTER		SUMMER		ANNUAL	
			No of Expts Planned	% of Response	No of Expts Planned	% of Response	No of Expts Planned	% of Response	No of Expts Planned	% of Response
1	2	3	4	5	6	7	8	9	10	11
1	Thiruvananthapuram	C	8	75	8	87.5	8	100	24	87.5
		S	8	100	8	100	8	100	24	100
2	Kollam	C	6	100	6	100	6	66.67	18	88.89
		S	6	100	6	100	6	100	18	100
3	Pathanamthitta	C	6	100	6	100	6	50	18	83.33
		S	6	100	6	100	6	50	18	83.33
4	Alappuzha	C	8	100	8	100	8	25	24	75
		S	8	87.5	8	100	8	12.5	24	66.67
5	Kottayam	C	6	100	6	100	6	16.67	18	72.22
		S	6	100	6	100	6	33.33	18	77.78
6	Idukki	C	4	100	4	100	4	50	12	83.33
		S	4	100	4	100	4	50	12	83.33
7	Ernakulam	C	10	100	10	100	10	100	30	100
		S	10	100	10	100	10	60	30	86.67
8	Thrissur	C	8	100	8	100	8	25	24	75
		S	8	100	8	100	8	25	24	75
9	Palakkad	C	10	100	10	100	10	20	30	73.33
		S	10	100	10	100	10	90	30	96.67
10	Malappuram	C	10	100	10	100	10	10	30	70
		S	10	100	10	100	10	0	30	66.67
11	Kozhikode	C	12	100	8	100	8	100	28	100
		S	12	100	8	100	8	100	28	100
12	Wayanad	C	-		4	100	4	100	8	100
		S	-		4	100	4	100	8	100
13	Kannur	C	8	100	8	100	8	25	24	75
		S	8	10	8	100	8	25	24	75
14	Kasargod	C	4	100	4	100	4	100	12	100
		S	4	100	4	100	4	100	12	100
<b>For District covered</b>		C	<b>100</b>	<b>98</b>	<b>100</b>	<b>99</b>	<b>100</b>	<b>53</b>	<b>300</b>	<b>83.33</b>
		S	<b>100</b>	<b>99</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>57</b>	<b>300</b>	<b>85.33</b>

No Autumn paddy in Wayanad district. Substituted to Kozhikode district.

In Thiruvananthapuram district 2 CC lost in Autumn due to the non-cooperation of the cultivator & 1 CC lost in Winter due to the attack of Boar (Central Sample). One CC lost in Alappuzha district due to flood (State sample).

In Summer season due to Covid 19 Central Sample -32 harvested 47 lost and 21 post harvested.

State Sample-37 harvested 43 lost and 20 post harvested.

**Table-7(i)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**

Paddy-Autumn							
Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	C	H	6	83.33	100	66.67
		S		8	100	100	100
		C	T	8	62.5	100	50
		S		8	100	100	100
2	Kollam	C	H	6	66.67	100	66.67
		S		6		100	83.33
		C	T	6	66.67	100	66.67
		S		6		100	83.33
3	Pathanamthitta	C	H	6	100	66.67	33.33
		S		6	100	100	66.67
		C	T	6	100	66.67	33.33
		S		6	100	100	66.67
4	Alappuzha	C	H	8	50	100	50
		S		7	85.71	100	85.71
		C	T	8	50	100	50
		S		8	75	87.5	87.5
5	Kottayam	C	H	6	100	100	100
		S		6	100	100	100
		C	T	6	100	100	100
		S		6	100	100	100
6	Idukki	C	H	4	100	50	100
		S		4	100	50	50
		C	T	4	100	50	100
		S		4	100	50	50
7	Ernakulam	C	H	10	70	70	70
		S		10	70	80	80
		C	T	10	70	70	70
		S		10	70	80	80
8	Thrissur	C	H	8		100	75
		S		8	25	100	100
		C	T	8		100	75
		S		8	25	100	100

Table-7(i) contd...

Table-7(i)

**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING  
TO IMPORTANT INPUTS DURING 2019-20**

**Paddy-Autumn**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
9	Palakkad	C	H	10		100	100
		S		10		100	100
		C	T	10		100	100
		S		10		100	100
10	Malappuram	C	H	10	40	100	80
		S		10		90	80
		C	T	10	40	100	80
		S		10		90	80
11	Kozhikode	C	H	12		50	33.33
		S		12		66.67	25
		C	T	12		50	50
		S		12		66.67	25
12	Wayanad	C	H	-			
		S		-			
		C	T	4			
		S		4			
13	Kannur	C	H	8		87.5	50
		S		8		87.5	75
		C	T	8		87.5	50
		S		8		87.5	75
14	Kasargod	C	H	4		75	50
		S		4		100	100
		C	T	4		75	50
		S		4		100	100
	For District covered	C	H	100	40.82	84.69	66.33
		S		99	39.40	89.90	79.79
		C	T	100	40	83	65
		S		100	39	89	79.79

\*No Autumn Paddy in Wayanad district.

Table-7(ii)

**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO  
IMPORTANT INPUTS DURING 2019-20  
Paddy-Winter**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	C	H	*7	100	100	100
		S		8	100	75	100
		C	T	8	87.5	87.5	87.5
		S		8	100	75	100
2	Kollam	C	H	6	83.33	50	66.67
		S		6	16.67	100	
		C	T	6	83.33	50	66.67
		S		6	16.67	100	
3	Pathanamthitta	C	H	6	100	83.33	66.67
		S		6	100	100	100
		C	T	6	100	83.33	66.67
		S		6	100	100	100
4	Alappuzha	C	H	8	75	75	75
		S		8	75	75	62.5
		C	T	8	75	75	75
		S		8	75	75	65.5
5	Kottayam	C	H	6	100	100	83.33
		S		6	100	100	100
		C	T	6	100	100	83.33
		S		6	100	100	100
6	Idukki	C	H	4	100	100	100
		S		4	100	100	75
		C	T	4	100	100	100
		S		4	100	100	75
7	Ernakulam	C	H	10	80	60	80
		S		10	100	100	100
		C	T	10	80	60	80
		S		10	100	100	100
8	Thrissur	C	H	8	100	100	75
		S		8	100	100	100
		C	T	8	100	100	75
		S		8	100	100	100
• One CC lost in Tvpm district.					Table-7(ii) contd.....		

Table-7(ii)

**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING  
TO IMPORTANT INPUTS DURING 2019-20**

**Paddy-Winter**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
9	Palakkad	C	H	10	100	100	100
		S		10	70	100	100
		C	T	10	100	100	100
		S		10	70	100	100
10	Malappuram	C	H	10	80	90	90
		S		10	80	100	100
		C	T	10	80	90	90
		S		10	80	100	100
11	Kozhikode	C	H	8	-	12.5	12.5
		S		8	12.5	25	12.5
		C	T	8	-	12.5	12.5
		S		8	12.5	25	12.5
12	Wayanad	C	H	4	100	50	50
		S		4	50	75	100
		C	T	4	100	50	50
		S		4	50	75	100
13	Kannur	C	H	8	75	75	62.5
		S		8	100	75	100
		C	T	8	75	75	62.5
		S		8	100	75	100
14	Kasargod	C	H	4	100	75	75
		S		4	75	100	50
		C	T	4	100	75	75
		S		4	75	100	50
For Districts covered		C	H	100	82.83	76.77	74.75
		S		100	78	87	81
		C	T	100	82	76	74
		S		100	78	87	81

**Table-7(iii)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Paddy-Summer**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	C	H	8	100	100	100
		S		8	100	100	100
		C	T	8	100	100	100
		S		8	100	100	100
2	Kollam	C	H	4		50	50
		S		6	100	100	
		C	T	6		33.33	33.33
		S		6	100	100	
3	Pathanamthitta	C	H	3	100	100	100
		S		3	100	100	100
		C	T	6	50	50	50
		S		6	50	50	50
4	Alappuzha	C	H	2		100	100
		S		1	100	100	100
		C	T	8		25	25
		S		8	12.5	12.5	12.5
5	Kottayam	C	H	1	100	100	100
		S		2	100	100	100
		C	T	6	16.67	16.67	16.67
		S		6	33.33	33.33	33.33
6	Idukki	C	H	2	100	100	100
		S		2	100	100	100
		C	T	4	50	50	50
		S		4	50	50	50
7	Ernakulam	C	H	10	100	100	100
		S		6	100	100	100
		C	T	10	100	100	100
		S		10	60	60	60
8	Thrissur	C	H	2	100	100	100
		S		2	100	100	100
		C	T	8	25	25	25
		S		8	25	25	25

Table 7(iii) contd....

**Table-7(iii)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Paddy-Summer**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
9	Palakkad	C	H	2	100	100	100
		S		9	100	100	88.89
		C	T	10	20	20	20
		S		10	90	90	80
10	Malappuram	C	H	1	100	100	100
		S		0			
		C	T	10	10	10	10
		S		10			
11	Kozhikode	C	H	8	100	87.5	62.5
		S		8	100	100	37.5
		C	T	8	100	87.5	62.5
		S		8	100	100	37.5
12	Wayanad	C	H	4	100	100	100
		S		4	100	100	100
		C	T	4	100	100	100
		S		4	100	100	100
13	Kannur	C	H	2	100		100
		S		2	100	100	100
		C	T	8	25		25
		S		8	25	25	25
14	Kasargod	C	H	4	100	100	75
		S		4	100	75	100
		C	T	4	100	100	75
		S		4	100	75	100
For District covered		C	H	53	88.68	90.57	88.68
		S		57	100	98.25	78.95
		C	T	100	47	48	47
		S		100	57	56	45

**Table-7(iv)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Tapioca**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	C	H	4	25	75	
		S		4	50	25	25
		C	T	4	25	75	
		S		4	50	25	25
2	Kollam	C	H	4	75		
		S		4	25	50	
		C	T	4	75		
		S		4	25	50	
3	Pathanamthitta	C	H				
		S					
		C	T				
		S					
4	Alappuzha	C	H				
		S					
		C	T				
		S					
5	Kottayam	C	H	4	75	75	50
		S		4		25	25
		C	T	4	75	75	50
		S		4		25	25
6	Idukki	C	H				
		S					
		C	T				
		S					
7	Ernakulam	C	H	4	100	25	25
		S		4	100		
		C	T	4	100	25	25
		S		4	100		
8	Thrissur	C	H	4	75	25	
		S		4	50		
		C	T	4	75	25	
		S		4	50		
To be contd.....							



**Table-7(iv)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Tapioca**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
9	Palakkad	C	H	2	100	100	50
		S		4	25	75	25
		C	T	4	50	50	25
		S		4	25	75	25
10	Malappuram	C	H	4	100	50	
		S		1	100	100	100
		C	T	4	100	50	
		S		4	25	25	25
11	Kozhikode	C	H	4			
		S		4	25		
		C	T	4			
		S		4	25		
12	Wayanad	C	H				
		S					
		C	T				
		S					
13	Kannur	C	H	4		50	25
		S		4			50
		C	T	4		50	25
		S		4			50
14	Kasargod	C	H	4	25		
		S		4	25		25
		C	T	4	25		
		S		4	25		25
For District covered		C	H	38	55.26	36.84	13.16
		S		37	35.14	21.62	18.92
		C	T	40	52.5	35	12.5
		S		40	32.5	20	17.5

\*In Palakkad 2 CC lost due to covid 19 lockdown (Central Sample )

\*In Malappuram 3 CC lost due to covid 19 lockdown (State Sample )

**Table-7(v)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Pepper**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	C	H	4	50		
		S		4	50	50	
		C	T	4	50		
		S		4	50	50	
2	Kollam	C	H	4			
		S		4			
		C	T	4			
		S		4			
3	Pathanamthitta	C	H				
		S					
		C	T				
		S					
4	Alappuzha	C	H				
		S					
		C	T				
		S					
5	Kottayam	C	H	4		75	
		S		4		50	
		C	T	4		75	
		S		4		50	
6	Idukki	C	H				
		S					
		C	T				
		S					
7	Ernakulam	C	H	4	50		
		S		4	75	75	
		C	T	4	50		
		S		4	75	75	
8	Thrissur	C	H	4	75	25	25
		S		4	25		
		C	T	4	75	25	25
		S		4	25		

To be contd....

**Table-7(v)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Pepper**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
9	Palakkad	C	H	4	75	25	
		S		3	100	33.33	
		C	T	4	75	25	
		S		4	75	25	
10	Malappuram	C	H	4	75	25	
		S		4	25		
		C	T	4	75	25	
		S		4	25		
11	Kozhikode	C	H	4		50	
		S		4		25	
		C	T	4		50	
		S		4		25	
12	Wayanad	C	H				
		S					
		C	T				
		S					
13	Kannur	C	H	4	25	50	
		S		4		25	
		C	T	4	25	50	
		S		4		25	
14	Kasargod	C	H	4	100		
		S		4	50	50	
		C	T	4	100		
		S		4	50	50	
For District covered		C	H	40	45	25	2.5
		S		39	30.77	30.77	
		C	T	40	45	25	2.5
		S		40	30	30	

- One CC lost in palakkad district.

**Table-7(vi)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Banana**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	C	H	4	75	50	100
		S		4	100		75
		C	T	4	75	50	100
		S		4	100		75
2	Kollam	C	H	4	75		50
		S		4	50		
		C	T	4	75		50
		S		4	50		
3	Pathanamthitta	C	H				
		S					
		C	T				
		S					
4	Alappuzha	C	H	4	100		
		S		3	33.33		
		C	T	4	100		
		S		4	25		
5	Kottayam	C	H	3	100		66.67
		S		4		50	75
		C	T	4	75		50
		S		4		50	75
6	Idukki	C	H				
		S					
		C	T				
		S					
7	Ernakulam	C	H	4	100		50
		S		4	100		75
		C	T	4	100		50
		S		4	100		75
8	Thrissur	C	H	6	83.33	16.67	33.33
		S		6	100	33.33	83.33
		C	T	6	83.33	16.67	33.33
		S		6	100	33.33	83.33

**Table-7(vi) contd...**

**Table-7(vi)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Banana**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
9	Palakkad	C	H	6	100		83.33
		S		6	83.33	33.33	66.67
		C	T	6	100		83.33
		S		6	83.33	33.33	66.67
10	Malappuram	C	H	6	100		66.67
		S		3	100		100
		C	T	6	100		66.67
		S		6	50		50
11	Kozhikode	C	H	4	75		75
		S		4	100		50
		C	T	4	75		75
		S		4	100		50
12	Wayanad	C	H				
		S					
		C	T				
		S					
13	Kannur	C	H	4	100		100
		S		4	100		50
		C	T	4	100		100
		S		4	100		50
14	Kasargod	C	H	4	100		100
		S		4	100		25
		C	T	4	100		100
		S		4	100		25
For District covered		C	H	49	91.84	6.12	65.31
		S		46	80.43	13.04	56.52
		C	T	50	90	6	64
		S		50	74	12	52

\*In kottayam district one CC lost due to covid 19 lockdown.

**Table-7(vii)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Coconut**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	C	H	4			
		S		4			
		C	T	4			
		S		4			
2	Kollam	C	H	4			
		S		4			
		C	T	4			
		S		4			
3	Pathanamthitta	C	H				
		S					
		C	T				
		S					
4	Alappuzha	C	H	4	50		
		S		4	25		
		C	T	4	50		
		S		4	25		
5	Kottayam	C	H	4			25
		S		4			
		C	T	4			25
		S		4			
6	Idukki	C	H				
		S					
		C	T				
		S					
7	Ernakulam	C	H	4	50		
		S		4	50		
		C	T	4	50		
		S		4	50		
8	Thrissur	C	H	6	66.67		
		S		6	33.33		33.33
		C	T	6	66.67		
		S		6	33.33		33.33

Table-7(vii) contd....

**Table-7(vii)**  
**DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING**  
**TO IMPORTANT INPUTS DURING 2019-20**  
**Coconut**

Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
9	Palakkad	C	H	6	66.67		83.33
		S		6	33.33		
		C	T	6	66.67		83.33
		S		6	33.33		
10	Malappuram	C	H	6	33.33		
		S		6	16.67		
		C	T	6	33.33		
		S		6	16.67		
11	Kozhikode	C	H	4			25
		S		4			50
		C	T	4			25
		S		4			50
12	Wayanad	C	H				
		S					
		C	T				
		S					
13	Kannur	C	H	4			
		S		4	25		
		C	T	4			
		S		4	25		
14	Kasargod	C	H	4	75		75
		S		4	75		
		C	T	4	75		75
		S		4	75		
For District covered		C	H	50	34		20
		S		50	24		8
		C	T	50	34		20
		S		50	24		8

Table-7(viii)							
DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO IMPORTANT INPUTS DURING 2019-20							
Arecanut							
Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	C	H	4			
		S		4			
		C	T	4			
		S		4			
2	Kollam	C	H	4			
		S		4			
		C	T	4			
		S		4			
3	Pathanamthitta	C	H				
		S					
		C	T				
		S					
4	Alappuzha	C	H				
		S					
		C	T				
		S					
5	Kottayam	C	H	4			
		S		4	25		
		C	T	4			
		S		4	25		
6	Idukki	C	H				
		S					
		C	T				
		S					
7	Ernakulam	C	H	4	25		
		S		4	75		
		C	T	4	25		
		S		4	75		
8	Thrissur	C	H	4	100	50	
		S		4	50		
		C	T	4	100	50	
		S		4	50		

Table 7(iii) contd...



Table-7(viii)							
DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO IMPORTANT INPUTS DURING 2019-20							
Arecanut							
Sl. No.	District	Agency	H/T		Percentage of Experiments under various inputs for crops		
					I	HYV	F
1	2	3	4	5	6	7	8
9	Palakkad	C	H	4	100		
		S		4	75	75	
		C	T	4	100		
		S		4	75	75	
10	Malappuram	C	H	4	25	25	
		S		4	50	50	
		C	T	4	25	25	
		S		4	50	50	
11	Kozhikode	C	H	4			
		S		4	25		25
		C	T	4			
		S		4	25		25
12	Wayanad	C	H				
		S					
		C	T				
		S					
13	Kannur	C	H	4	25		
		S		4	50		
		C	T	4	25		
		S		4	50		
14	Kasargod	C	H	4	75		50
		S		4	100	25	
		C	T	4	75		50
		S		4	100	25	
	For District covered	C	H	40	35	7.5	5
		S		40	42.5	17.5	2.5
		C	T	40	35	7.5	5
		S		40	42.5	17.5	2.5

Table 8(i)

<b>CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED</b>							
		STATE: KERALA		YEAR:2019-20		STATE SAMPLE	
		SEASON:AUTUMN		CROP:PADDY			
Sl. No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	8	8				
2	Kollam	6	6				
3	Pathanamthitta	6	6				
4	Alappuzha	8	7		1		
5	Kottayam	6	6				
6	Idukki	4	4				
7	Ernakulam	10	10				
8	Thrissur	8	8				
9	Palakkad	10	10				
10	Malappuram	10	10				
11	Kozhikode	8	12				
12	Wayanad	4	*				
13	Kannur	8	8				
14	Kasargod	4	4				
<b>Total for all crops</b>		<b>100</b>	<b>99</b>		1		

\*Wayanad district-No Autumn Paddy, substituted to Kozhikode district. One CC lost in Alapuzha district due to flood.

Table 8(ii)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE: KERALA

YEAR:2019-20

CENTRAL SAMPLE

SEASON:AUTUMN

CROP:PADDY

Sl. No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	8	6		2		
2	Kollam	6	6				
3	Pathanamthitta	6	6				
4	Alappuzha	8	8				
5	Kottayam	6	6				
6	Idukki	4	4				
7	Ernakulam	10	10				
8	Thrissur	8	8				
9	Palakkad	10	10				
10	Malappuram	10	10				
11	Kozhikode	8	12				
12	Wayanad	4	*				
13	Kannur	8	8				
14	Kasargod	4	4				
<b>Total for all crops</b>		<b>100</b>	<b>98</b>				

\*Wayanad district-No Autumn Paddy, substituted to Kozhikode district. 2 CC lost in Tvpm district due to non-cooperation of the cultivator.

**Table 8(iii)**  
**ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES**

STATE: KERALA

YEAR: 2019-20

SEASON: AUTUMN PADDY

STATE SAMPLE

Sl. No.	District	No. of expts. Checked at harvest	HY varieties						Other varieties						Both HY & Others					
			Irrigated		Un-irrigated		Total		Irrigated		Un-irrigated		Total		Irrigated		Un-irrigated		Total	
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	8	8	2647.76	0	0	8	2647.76	0	0	0	0	0	0	8	2647.76	0	0	8	2647.76
2	Kollam	6	0	0	6	3205.05	6	3205.05	0	0	0	0	0	0	0	0	6	3205.05	6	3205.05
3	Pathanamthitta	6	6	2877.6	0	0	6	2877.6	0	0	0	0	0	0	6	2877.6	0	0	6	2877.6
4	Alappuzha	7	6	3823.87	1	1214.58	7	3451.11	0	0	0	0	0	0	6	3823.87	1	1214.58	7	3451.11
5	Kottayam	6	6	2707.27	0	0	6	2707.27	0	0	0	0	0	0	6	2707.27	0	0	6	2707.27
6	Idukki	4	2	2791.4	0	0	2	2791.4	2	2397			2	2397	4	2594.2	0	0	4	2594.2
7	Ernakulam	10	7	3790.28	1	2937.06	8	3683.63	0	0	2	311.74	2	311.74	7	3790.28	3	1186.85	10	3009.25
8	Thrissur	8	2	2405.34	6	3114.2	8	2936.99	0	0	0	0	0	0	2	2405.34	6	3114.2	8	2936.99
9	Palakkad	10	0	0	10	2967.32	10	2967.32	0	0	0	0	0	0	0	0	10	2967.32	10	2967.32
10	Malappuram	10	0	0	9	2297.42	9	2297.42	0	0	1	1735.27	1	1735.27	0	0	10	2241.21	10	2241.21
11	Kozhikode	12	0	0	8	2019.18	8	2019.18	0	0	4	1294.55	4	1294.55	0	0	12	1777.63	12	1777.63
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	8	0	0	7	2223.2	7	2223.2	0	0	1	1149.12	1	1149.12	0	0	8	2088.94	8	2088.94
14	Kasargod	4	0	0	4	4278.74	4	4278.74	0	0	0	0	0	0	0	0	4	4278.74	4	4278.74
<b>State Total</b>		<b>99</b>	<b>37</b>	<b>3096.21</b>	<b>52</b>	<b>2716.3</b>	<b>89</b>	<b>2874.24</b>	<b>2</b>	<b>2397</b>	<b>8</b>	<b>1085.76</b>	<b>10</b>	<b>1348.01</b>	<b>39</b>	<b>3060.36</b>	<b>60</b>	<b>2498.9</b>	<b>99</b>	<b>2720.08</b>

Table 8(iv)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA																				YEAR: 2019-20						SEASON: AUTUMN PADDY						CENTRAL SAMPLE					
Sl. No.	District	No. of expts. Checked at harvest	HY varieties						Other varieties						Both HY & Others																						
			Irrigated		Un-irrigated		Total		Irrigated		Un-irrigated		Total		Irrigated		Un-irrigated		Total																		
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21																	
1	Thiruvananthapuram	6	5	3236.93	1	618.24	6	2800.48	0	0	0	0	0	0	5	3236.93	1	618.24	6	2800.48																	
2	Kollam	6	4	4289.19	2	1915.6	6	3497.99	0	0	0	0	0	0	4	4289.19	2	1915.6	6	3497.99																	
3	Pathanamthitta	6	4	3663	0	0	4	3663	2	1436.94	0	0	2	1436.94	6	2920.98	0	0	6	2920.98																	
4	Alappuzha	8	4	2787.52	4	726.13	8	1756.82	0	0	0	0	0	0	4	2787.52	4	726.13	8	1756.82																	
5	Kottayam	6	6	3932.03	0	0	6	3932.03	0	0	0	0	0	0	6	3932.03	0	0	6	3932.03																	
6	Idukki	4	2	3170.5	0	0	2	3170.5	2	3621	0	0	2	3621	4	3395.75	0	0	4	3395.75																	
7	Ernakulam	10	5	3832.03	2	2966.22	7	3584.65	2	1803.78	1	142.12	3	1249.89	7	3252.53	3	2024.85	10	2884.23																	
8	Thrissur	8	0	0	8	2037.06	8	2037.06	0	0	0	0	0	0	0	0	8	2037.06	8	2037.06																	
9	Palakkad	10	0	0	10	3780.39	10	3780.39	0	0	0	0	0	0	0	0	10	3780.39	10	3780.39																	
10	Malappuram	10	4	3063.96	6	3153.16	10	3117.48	0	0	0	0	0	0	4	3063.96	6	3153.16	10	3117.48																	
11	Kozhikode	12	0	0	6	1893.2	6	1893.2	0	0	6	1221.54	6	1221.54	0	0	12	1557.37	12	1557.37																	
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
13	Kannur	8	0	0	7	3571.65	7	3571.65	0	0	1	1751.04	1	1751.04	0	0	8	3344.08	8	3344.08																	
14	Kasargod	4	0	0	3	3229.42	3	3229.42	0	0	1	5135.23	1	5135.23	0	0	4	3705.88	4	3705.88																	
State Total		98	34	3543.9	49	2701.12	83	3046.35	6	2287.24	9	1595.29	15	1872.07	40	3355.4	58	2529.53	98	2866.62																	

Table 8(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE:KERALA

YEAR:2019-20

SEASON:AUTUMN PADDY

STATE SAMPLE

Sl. No.	District	Expts. Checked at harvest stage		Expts. Treated with Fertilizers only		Experiments with Fertilizers								Expts. Not Treated with Fertilizers	
		No.	Yield Rate	No.	Yield Rate	No. of Experiments				Rate of Application				No.	Yield Rate
						N	P	K	Exclusive Total	Yield Rate	N	P	K		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	8	2647.76	2	3626.64	8	8	5	8	2647.76	53.75	23	36.41	0	0
2	Kollam	6	3205.05	0	0	5	5	5	5	3149.68	28.2	32.4	28.2	1	3481.89
3	Pathanamthitta	6	2877.6	2	2611.8	4	4	4	4	2426.4	54	31	51.5	2	3780
4	Alappuzha	7	3451.11	7	2580.86	7	7	6	7	2580.86	92	43.86	53	0	0
5	Kottayam	6	2707.27	5	2818.05	6	6	6	6	2707.27	51.67	24	35.33	0	0
6	Idukki	4	2594.2	1	1587.8	2	1	1	2	2791.4	46.5	37	22	2	2397
7	Ernakulam	10	3009.25	5	4423.82	8	8	8	8	3653.63	48.63	29	36.5	2	311.74
8	Thrissur	8	2936.99	7	2643.47	8	8	6	8	2936.99	47.59	19.18	53.01	0	0
9	Palakkad	10	2967.32	7	2638.30	10	10	8	10	2967.32	77.7	33.4	37.69	0	0
10	Malappuram	10	2241.21	1	969.05	8	6	5	8	2458.30	35.88	26.36	27.59	2	1372.82
11	Kozhikode	12	1777.64	0	0	3	3	1	3	2387.16	34.87	23.07	15	9	1574.46
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	8	2088.94	2	1765.63	6	6	1	6	1921.28	29.23	22.4	49	2	2591.90
14	Kasargod	4	4278.74	0	0	3	3	2	3	4278.74	749.78	749.67	1257.8	0	0
State Total		99	2720.08	39	2815.71	78	75	58	78	2843.51	103.83	84.18	131	20	1927.95

Table 8(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE:KERALA

YEAR:2019-20

SEASON:AUTUMN PADDY

STATE SAMPLE

Sl. No.	District	Expts. Treated with Manure only		Expts. Treated with Manure		Expts. Not Treated with Manure		Expts. Treated (both) with Fertilizers & Manure		Expts. Not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or Both	
		No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate
1	2	17	18	19	20	21	22	23	24	25	26	27	28
1	Thiruvananthapuram	0	0	6	2321.47	2	3626.64	6	2321.47	0	0	8	2647.76
2	Kollam	1	3481.89	6	3205.05	0	0	5	3149.68	0	0	6	3205.05
3	Pathanamthitta	2	3780	4	3010.5	2	2611.8	2	2241	0	0	6	2877.6
4	Alappuzha	0	0	0	0	7	2580.86	0	0	0	0	7	2580.86
5	Kottayam	0	0	1	2153.38	5	2818.05	1	2153.38	0	0	6	2707.27
6	Idukki	2	2397	3	2929.67	1	1587.8	1	3995	0	0	4	2594.2
7	Ernakulam	0	0	3	2449.98	7	3248.94	3	2449.98	2	311.74	8	3683.63
8	Thrissur	0	0	1	4991.58	7	2643.47	1	4991.58	0	0	8	2936.99
9	Palakkad	0	0	3	3735.01	7	2638.30	3	3735.01	0	0	10	2967.32
10	Malappuram	2	1372.82	9	2382.56	1	969.05	7	2671.05	0	0	10	2241.21
11	Kozhikode	8	1688.32	11	1878.91	1	663.58	3	2387.16	1	663.58	11	1878.91
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	2	2591.90	6	2196.70	2	1765.63	4	1999.1	0	0	8	2088.94
14	Kasargod	0	0	4	4278.74	0	0	4	4278.74	0	0	4	4278.74
State Total		17	2192.46	57	2668.36	42	2645.23	40	2870.61	3	429.02	96	2728.22

Table 8(vi)															
CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS															
STATE:KERALA YEAR:2019-20 SEASON:AUTUMN PADDY CENTRAL SAMPLE															
Sl. No.	District	Expts. Checked at harvest stage		Expts. Treated with Fertilizers only		Experiments with Fertilizers								Expts. Not Treated with Fertilizers	
		No.	Yield Rate	No.	Yield Rate	No. of Experiments				Rate of Application				No.	Yield Rate
						N	P	K	Exclusive Total	Yield Rate	N	P	K		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	6	2800.48	0	0	4	4	2	4	3268.8	66.3	44.5	75	2	1863.9
2	Kollam	6	3498	0	0	4	4	3	4	4289.2	283	102	312	2	1915.6
3	Pathanamthitta	6	2920.98	0	0	2	0	2	2	4302	63	0	82	4	2230.5
4	Alappuzha	8	1756.82	3	3716.7	4	4	4	4	2757.5	97.2	45.8	77.3	4	726.13
5	Kottayam	6	3932.03	2	4471.3	6	6	6	6	3932	76.8	55.5	56.2	0	0
6	Idukki	4	3395.75	1	2312	4	4	4	4	3395.8	42.8	25	26	0	0
7	Ernakulam	10	2884.23	5	3546.3	7	7	5	7	3584.7	29	23.6	30.6	3	1249.9
8	Thrissur	8	2037.06	0	0	6	4	6	6	2034.3	42.7	30.5	28.8	2	2045.4
9	Palakkad	10	3780.39	5	3516.3	10	10	10	10	3780.4	76.5	37.9	55	0	0
10	Malappuram	10	3117.48	1	3759.8	8	6	5	8	2632.5	84.9	21.5	37.6	2	5057.5
11	Kozhikode	12	1557.37	1	5562.2	4	4	2	4	2498.7	17.3	17.3	44.5	8	1086.7
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	8	3344.08	1	3100.8	4	3	4	4	3588.7	29.4	23.3	32.8	4	3099.4
14	Kasargod	4	3705.88	0	0	2	2	2	2	4142.5	30	30	30	2	3269.2
State Total		98	2866.62	19	3691.6	65	58	53	65	3322.4	69.9	38	68.3	33	1968.8



<b>Table 8(vi)</b>													
<b>CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS</b>													
<b>STATE:KERALA</b>		<b>YEAR:2019-20</b>				<b>SEASON: AUTUMN PADDY</b>				<b>CENTRAL SAMPLE</b>			
<b>Sl. No.</b>	<b>District</b>	<b>Expts.Treated with Manure only</b>		<b>Expts. Treated with Manure</b>		<b>Expts. Not Treated with Manure</b>		<b>Expts. Treated (both) with Fertilizers &amp; Manure</b>		<b>Expts. Not Treated with Fertilizers &amp; Manure</b>		<b>Expts. Treated with Fertilizers or Manure or Both</b>	
		<b>No.</b>	<b>Yield Rate</b>	<b>No.</b>	<b>Yield Rate</b>	<b>No.</b>	<b>Yield Rate</b>	<b>No.</b>	<b>Yield Rate</b>	<b>No.</b>	<b>Yield Rate</b>	<b>No.</b>	<b>Yield Rate</b>
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	1	3110	5	3236.9	1	618.24	4	3268.8	1	618.24	5	3236.9
2	Kollam	2	1916	6	3498	0	0	4	4289.2	0	0	6	3498
3	Pathanamthitta	4	2230	6	2921	0	0	2	4302	0	0	6	2921
4	Alappuzha	2	1452	3	968.16	5	2230	1	0.038	2	0.038	6	2342.4
5	Kottayam	0	0	4	3662.4	2	4471.3	4	3662.4	0	0	6	3932
6	Idukki	0	0	3	3757	1	2312	3	3757	0	0	4	3395.8
7	Ernakulam	0	0	2	3680.4	8	2685.2	2	3680.4	3	1249.89	7	3584.7
8	Thrissur	1	2308	7	2073.3	1	1783.2	6	2034.3	1	1783.24	7	2073.3
9	Palakkad	0	0	5	4044.4	5	3516.3	5	4044.4	0	0	10	3780.4
10	Malappuram	2	5057	9	3046.1	1	3759.8	7	2471.4	0	0	10	3117.5
11	Kozhikode	8	1087	11	1295	1	4443.8	3	1850.3	0	0	12	1557.4
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	3099	7	3378.8	1	3100.8	3	3751.4	0	0	8	3144.1
14	Kasargod	2	3269	4	3705.9	0	0	2	4142.5	0	0	4	3705.9
<b>State Total</b>		<b>26</b>	<b>2262</b>	<b>72</b>	<b>2857.7</b>	<b>26</b>	<b>2891.3</b>	<b>46</b>	<b>3194.3</b>	<b>7</b>	<b>878.75</b>	<b>91</b>	<b>3019.5</b>

**Table 9(i)**  
**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**  
 STATE:KERALA                      YEAR:2019-20                      STATE SAMPLE  
 SEASON:WINTER                      CROP:PADDY

Sl. No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Thiruvananthapuram	8	8				
2	Kollam	6	6				
3	Pathanamthitta	6	6				
4	Alappuzha	8	8				
5	Kottayam	6	6				
6	Idukki	4	4				
7	Ernakulam	10	10				
8	Thrissur	8	8				
9	Palakkad	10	10				
10	Malappuram	10	10				
11	Kozhikode	8	8				
12	Wayanad	4	4				
13	Kannur	8	8				
14	Kasargod	4	4				
<b>Total</b>		<b>100</b>	<b>100</b>				

Table 9(ii)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE:KERALA

YEAR:2019-20

CENTRAL SAMPLE

SEASON: WINTER

CROP: PADDY

Sl.No.	District	No. of Experiments		At postharvest	Lost	Rejected for Analysis	For which schedules are not received
		Planned	Checked at Harvest				
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	8	7		1		
2	Kollam	6	6				
3	Pathanamthitta	6	6				
4	Alappuzha	8	8				
5	Kottayam	6	6				
6	Idukki	4	4				
7	Ernakulam	10	10				
8	Thrissur	8	8				
9	Palakkad	10	10				
10	Malappuram	10	10				
11	Kozhikode	8	8				
12	Wayanad	4	4				
13	Kannur	8	8				
14	Kasargod	4	4				
<b>Total</b>		<b>100</b>	<b>99</b>		<b>1</b>		

One CC lost in TVPM district due to early harvest due to attack of Boar.

Table 9(iii)																				
ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES																				
STATE: KERALA			YEAR: 2019-20						SEASON: WINTER PADDY						STATE SAMPLE					
Sl No.	District	No. of Expts. Checked at Harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		Un -Irrigated		Total		Irrigated		Un -Irrigated		Total		Irrigated		Un -Irrigated		Total	
			No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	8	6	3602.24	0	0	6	3602.24	2	3857.81	0	0	2	3857.81	8	3666.14	0	0	8	3666.14
2	Kollam	6	1	886.38	5	2134.79	6	1926.72	0	0	0	0	0	0	1	886.38	5	2134.79	6	1926.72
3	Pathanamthitta	6	6	4606.52	0	0	6	4606.52	0	0	0	0	0	0	6	4606.52	0	0	6	4606.52
4	Alappuzha	8	6	4244.87	0	0	6	4244.87	0	0	2	479.66	2	479.66	6	4244.87	2	479.66	8	3303.56
5	Kottayam	6	6	3280.72	0	0	6	3280.72	0	0	0	0	0	0	6	3280.72	0	0	6	3280.72
6	Idukki	4	4	3838.75	0	0	4	3838.75	0	0	0	0	0	0	4	3838.75	0	0	4	3838.75
7	Ernakulam	10	10	3827.1	0	0	10	3827.1	0	0	0	0	0	0	10	3827.1	0	0	10	3827.1
8	Thrissur	8	8	4684.41	0	0	8	4684.41	0	0	0	0	0	0	8	4684.41	0	0	8	4684.41
9	Palakkad	10	7	4913.78	3	4882.99	10	4904.54	0	0	0	0	0	0	7	4913.78	3	4882.99	10	4904.54
10	Malappuram	10	8	4994.54	2	4830.22	10	4961.68	0	0	0	0	0	0	8	4994.54	2	4830.22	10	4961.68
11	Kozhikode	8	1	3578.22	1	4115.88	2	3847.05	0	0	6	1308.31	6	1308.31	1	3578.22	7	1709.39	8	1942.99
12	Wayanad	4	2	3843.77	1	2771.77	3	3486.44	0	0	1	3385.02	1	3385.02	2	3843.77	2	3078.4	4	3461.08
13	Kannur	8	6	4342.79	0	0	6	4342.79	2	1540.31	0	0	2	1540.31	8	3642.17	0	0	8	3642.17
14	Kasargod	4	3	3688.02	1	396.9	4	2865.24	0	0	0	0	0	0	3	3688.02	1	396.9	4	2865.24
State Total		100	74	4177.47	13	3251.38	87	4039.09	4	2699.06	9	1354.91	13	1768.49	78	4101.66	22	2475.55	100	3743.91

Table 9(iv)																				
ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES																				
STATE: KERALA				YEAR: 2019-20				SEASON: WINTER PADDY				CENTRAL SAMPLE								
Sl No.	District	No. of Expts. Checked at Harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		Un-Irrigated		Total		Irrigated		Un-Irrigated		Total		Irrigated		Un-Irrigated		Total	
			No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha	No. of Expts	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	7	7	3283.45	0	0	7	3283.45	0	0	0	0	0	0	7	3283.45	0	0	7	3283.45
2	Kollam	6	3	4399.49	0	0	3	4399.49	2	1070.76	1	2105.6 2	3	1415.71	5	3068	1	2105.6 2	6	2907.6
3	Pathanamthitta	6	5	4725.86	0	0	5	4725.86	1	3260.74	0	0	1	3260.74	6	4481.68	0	0	6	4481.68
4	Alappuzha	8	6	4311.4	0	0	6	4311.4	0	0	2	697.7	2	697.7	6	4311.4	2	697.7	8	3407.98
5	Kottayam	6	6	3948.27	0	0	6	3948.27	0	0	0	0	0	0	6	3948.27	0	0	6	3948.27
6	Idukki	4	4	5142.08	0	0	4	5142.08	0	0	0	0	0	0	4	5142.08	0	0	4	5142.08
7	Ernakulam	10	6	3144.96	0	0	6	3144.96	2	5692.96	2	78.26	4	2885.61	8	3781.96	2	78.26	10	3041.22
8	Thrissur	8	8	5924.1	0	0	8	5924.1	0	0	0	0	0	0	8	5924.1	0	0	8	5924.1
9	Palakkad	10	10	5119.99	0	0	10	5119.99	0	0	0	0	0	0	10	5119.99	0	0	10	5119.99
10	Malappuram	10	8	5084.69	1	4503.4	9	5020.1	0	0	1	1089.2 4	1	1089.24	8	5084.69	2	2796.3 4	10	4627.02
11	Kozhikode	8	0	0	1	0.04	1	0.04	0	0	7	1338.0 6	7	1338.06	0	0	8	1170.8 1	8	1170.81
12	Wayanad	4	2	4015.5	0	0	2	4015.5	2	2747.54	0	0	2	2747.54	4	3381.52	0	0	4	3381.52
13	Kannur	8	6	3311.7	0	0	6	3311.7	0	0	2	2316.8	2	2316.8	6	3311.7	2	2316.8	8	3062.97
14	Kasargod	4	3	3336.48	0	0	3	3336.48	1	3110.94	0	0	1	3110.94	4	3280.1	0	0	4	3280.1
State Total		99	74	4405.26	2	2251.7	76	4348.58	8	3174.27	15	1249.79	23	1919.17	82	4285.16	17	1367.66	99	3784.18

Table 9(v)															
CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS															
STATE: KERALA			YEAR: 2019-20			SEASON: WINTER PADDY			STATE SAMPLE						
Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers							Expts. Not treated with Fertilizers		
		No.	Yield Rate	No.	Yield Rate	No. of Expts.					Rate of Application			No.	Yield Rate
						N	P	K	Exclusive Total	Yield Rate	N	P	K		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	8	3666.14	1	957.44	8	8	7	8	3666.1	50.5	22.6	39.4	0	0
2	Kollam	6	1926.72	0	0	0	0	0	0	0	0	0	0	6	1926.7
3	Pathanamthitta	6	4606.52	4	4187	6	6	6	6	4606.5	55.8	26	39.7	0	0
4	Alappuzha	8	3303.56	5	4972.9	5	5	5	5	4972.9	93	43	65	3	521.32
5	Kottayam	6	3280.72	5	3094.1	6	6	6	6	3280.7	61.7	33.2	36	0	0
6	Idukki	4	3838.75	0	0	3	2	2	3	3564.3	18	15.5	25.6	1	4662
7	Ernakulam	10	3827.1	2	4034.9	8	8	9	10	3827.1	42.5	26.9	42.3	0	0
8	Thrissur	8	4684.41	4	3022.5	8	8	8	8	4684.4	48.8	20.6	46.5	0	0
9	Palakkad	10	4904.54	6	5096.7	10	8	10	10	4904.5	64.2	37.5	50.1	0	0
10	Malappuram	10	4961.68	1	3094.9	10	9	9	10	4961.7	68.2	22.8	54.9	0	0
11	Kozhikode	8	1942.99	1	3578.2	1	1	0	1	3578.2	47	47	0	7	1709.4
12	Wayanad	4	3461.09	2	3655.7	4	3	3	4	2607.5	25.3	25.8	25.8	0	0
13	Kannur	8	3642.17	0	0	8	7	4	8	3642.2	27.1	20	33.3	0	0
14	Kasargod	4	2865.24	1	3084.5	2	2	1	2	4095.6	20.4	20.4	37	2	1634.9
State Total		100	3743.91	32	3932.8	79	73	70	81	4172.3	47.9	27.8	41.3	19	1738

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Table 9(v)													
CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS													
STATE: KERALA		YEAR: 2019-20				SEASON: WINTER PADDY				STATE SAMPLE			
Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate
1	2	17	18	19	20	21	22	23	24	25	26	27	28
1	Thiruvananthapuram	0	0	7	4053.1	1	957.44	7	4053.1	0	0	8	3666.14
2	Kollam	5	1818.4	5	1818.4	1	2468.4	0	0	1	2468.4	5	1818.39
3	Pathanamthitta	0	0	2	5445.6	4	4187	2	5445.6	0	0	6	4606.52
4	Alappuzha	3	521.3	3	521.32	5	4972.9	0	0	0	0	8	3303.56
5	Kottayam	0	0	1	4213.6	5	3094.1	1	4213.6	0	0	6	3280.72
6	Idukki	0	0	3	3564.3	1	4662	3	3564.3	1	4662	3	3564.3
7	Ernakulam	0	0	8	3775.1	2	4034.9	8	3775.1	0	0	10	3827.10
8	Thrissur	0	0	4	6346.3	4	3022.5	4	6346.3	0	0	8	4684.41
9	Palakkad	0	0	4	4616.3	6	5096.7	4	4616.3	0	0	10	4904.54
10	Malappuram	0	0	9	5169.1	1	3094.9	9	5169.1	0	0	10	4961.67
11	Kozhikode	6	1907	6	1907.1	2	2050.5	0	0	1	522.83	7	2145.87
12	Wayanad	0	0	2	3251.7	2	3655.7	2	3251.7	0	0	4	3453.71
13	Kannur	0	0	8	3642.2	0	0	8	3642.2	0		8	3642.17
14	Kasargod	1	2873	2	3989.8	2	1740.7	1	5106.8	1	396.9	3	3688
State Total		15	1665	64	3757.2	36	3719.4	49	4397.8	4	2012.53	96	3815.75

Table 9(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: WINTER PADDY

CENTRAL SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers							Expts. Not treated with Fertilizers		
		No.	Yield Rate	No.	Yield Rate	No. of Expts.					Rate of Application			No.	Yield Rate
						N	P	K	Exclusive Total	Yield Rate	N	P	K		
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>
1	Thiruvananthapuram	7	3283.45	1	4039.2	7	7	6	7	3283.45	93.7	40.1	47	0	0
2	Kollam	6	2907.6	0	0	4	3	4	4	3734.4	66.7	20.7	85.8	2	1254
3	Pathanamthitta	6	4481.68	0	0	4	4	4	4	4525.7	31.8	15.8	29.5	2	4393.5
4	Alappuzha	8	3407.98	5	4402.36	6	6	6	6	4311.4	131	72.5	45.3	2	697.7
5	Kottayam	6	3948.27	3	4012.92	5	5	4	5	4461.9	84.8	79.6	87.5	1	1380
6	Idukki	4	5142.08	3	5620.3	4	4	3	4	5142.1	58.8	45	32.7	0	0
7	Ernakulam	10	3041.22	1	4797.52	8	8	7	8	3782	31	17.4	31.3	2	78.26
8	Thrissur	8	5924.1	4	6656.01	6	5	6	6	6187.6	81	40.8	67.3	2	5133.6
9	Palakkad	10	5119.99	9	5152.45	10	10	10	10	5120	94.6	42	72.8	0	0
10	Malappuram	10	4627.02	5	4698.01	9	8	8	9	4860.7	65.2	36.5	73	1	1089.2
11	Kozhikode	8	1170.81	1	511.70	1	1	1	1	511.7	20	20	8	7	1265
12	Wayanad	4	3381.52	2	3998.28	2	1	2	2	3998.3	51.5	65	65	2	2747.5
13	Kannur	8	3062.97	0	0	5	5	5	5	3696	34.2	16.8	28.6	3	2007.9
14	Kasargod	4	3280.1	0	0	3	3	3	3	3336.5	33	22.7	26	1	3110.9
State Total		99	3784.18	34	4845.37	74	70	69	74	4379.7	62.6	38.2	50	25	1962.7

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Table 9(vi)													
CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS													
STATE: KERALA		YEAR: 2019-20				SEASON: WINTER PADDY				CENTRAL SAMPLE			
Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate
1	2	17	18	19	20	21	22	23	24	25	26	27	28
1	Thiruvananthapuram	0	0	6	3157.5	1	4039.2	6	3157.5	0	0	7	3283.45
2	Kollam	1	2105.6	5	3408.6	1	402.42	4	3734.4	1	402.42	5	3408.6
3	Pathanamthitta	2	4393.5	6	4481.7	0	0	4	4525.7	0	0	6	4481.68
4	Alappuzha	0	0	1	3856.6	7	3343.9	1	3856.6	2	697.70	6	4311.4
5	Kottayam	1	1380	3	3883.6	3	4012.9	2	5135.4	0	0	6	3948.27
6	Idukki	0	0	1	3707.4	3	5620.3	1	3707.4	0	0	4	5142.08
7	Ernakulam	0	0	7	3636.9	3	1651.3	7	3636.9	2	78.26	8	3782
8	Thrissur	2	5133.6	4	5192.2	4	6656	2	5250.8	0	0	8	5924.1
9	Palakkad	0	0	1	4827.8	9	5152.5	1	4827.8	0	0	10	5120
10	Malappuram	0	0	4	5064	6	4096.5	4	5064	1	1089.24	9	4860.7
11	Kozhikode	6	1475.8	6	1475.8	2	255.87	0	0	1	0.037	7	1338.1
12	Wayanad	1	1729.8	1	1729.8	3	3920.61	0	0	1	3765.28	3	3242.1
13	Kannur	3	2007.9	8	3063	0	0	5	3696	0	0	8	3062.97
14	Kasargod	1	3110.9	4	3280.1	0	0	3	3336.5	0	0	4	3280.1
State Total		17	2485.8	57	3537.1	42	4084.56	40	3983.8	8	851.11	91	4025.9

**Table 10(i)**  
**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE:KERALA

YEAR:2019-20

STATE SAMPLE

Sl. No.	District	SEASON: SUMMER		CROP:PADDY			
		No. of Experiments Planned	Checked at harvest	At postharvest	Lost	Rejected for analysis	For which schedules are not received
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Thiruvananthapuram	8	1	7			
2	Kollam	6	6				
3	Pathanamthitta	6	3		3		
4	Alappuzha	8	1		7		
5	Kottayam	6	2		4		
6	Idukki	4	2		2		
7	Ernakulam	10	6		4		
8	Thrissur	8	2		6		
9	Palakkad	10	9		1		
10	Malappuram	10	0		10		
11	Kozhikode	8	1	7			
12	Wayanad	4	2	2			
13	Kannur	8	2		6		
14	Kasargod	4	0	4			
<b>State Total</b>		<b>100</b>	<b>37</b>	<b>20</b>	<b>43</b>		

**Table 10(ii)**  
**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE: KERALA

YEAR: 2019-20

CENTRAL SAMPLE

SEASON: SUMMER

CROP: PADDY

Sl.No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Thiruvananthapuram	8	7	1			
2	Kollam	6	4		2		
3	Pathanamthitta	6	3		3		
4	Alappuzha	8	2		6		
5	Kottayam	6	1		5		
6	Idukki	4	2		2		
7	Ernakulam	10	6	4			
8	Thrissur	8	2		6		
9	Palakkad	10	2		8		
10	Malappuram	10	0	1	9		
11	Kozhikode	8	1	7			
12	Wayanad	4	0	4			
13	Kannur	8	0	2	6		
14	Kasargod	4	2	2			
<b>State Total</b>		<b>100</b>	<b>32</b>	<b>21</b>	<b>47</b>		

Table 10(iii)

ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES																				
STATE: KERALA			YEAR: 2019-20						SEASON: SUMMER PADDY						STATE SAMPLE					
Sl. No.	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total	
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	8	8	4631.59	0	0	8	4631.59	0	0	0	0	0	0	8	4631.59	0	0	8	4631.59
2	Kollam	6	6	1658.38	0	0	6	1658.38	0	0	0	0	0	0	6	1658.38	0	0	6	1658.38
3	Pathanamthitta	3	3	4388.25	0	0	3	4388.25	0	0	0	0	0	0	3	4388.25	0	0	3	4388.25
4	Alappuzha	1	1	7840.06	0	0	1	7840.06	0	0	0	0	0	0	1	7840.06	0	0	1	7840.06
5	Kottayam	2	2	4699.08	0	0	2	4699.08	0	0	0	0	0	0	2	4699.08	0	0	2	4699.08
6	Idukki	2	2	2245.38	0	0	2	2245.38	0	0	0	0	0	0	2	2245.38	0	0	2	2245.38
7	Ernakulam	6	6	3805.27	0	0	6	3805.27	0	0	0	0	0	0	6	3805.27	0	0	6	3805.27
8	Thrissur	2	2	5349.68	0	0	2	5349.68	0	0	0	0	0	0	2	5349.68	0	0	2	5349.68
9	Palakkad	9	9	4099.9	0	0	9	4099.9	0	0	0	0	0	0	9	4099.9	0	0	9	4099.9
10	Malappuram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Kozhikode	8	8	3031.82	0	0	8	3031.82	0	0	0	0	0	0	8	3031.82	0	0	8	3031.82
12	Wayanad	4	4	4632.64	0	0	4	4632.64	0	0	0	0	0	0	4	4632.64	0	0	4	4632.64
13	Kannur	2	2	3724.52	0	0	2	3724.52	0	0	0	0	0	0	2	3724.52	0	0	2	3724.52
14	Kasargod	4	3	3339.52	0	0	3	3339.52	1	3118.08	0	0	1	3118.08	4	3284.16	0	0	4	3284.16
<b>State Total</b>		<b>57</b>	<b>56</b>	<b>3796.06</b>	<b>0</b>	<b>0</b>	<b>56</b>	<b>3796.06</b>	<b>1</b>	<b>3118.08</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3118.08</b>	<b>57</b>	<b>3784.17</b>	<b>0</b>	<b>0</b>	<b>57</b>	<b>3784.17</b>

Table 10(iv)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA

YEAR: 2019-20

SEASON: SUMMER PADDY

CENTRAL SAMPLE

Sl. No	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total	
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	8	8	2721.33	0	0	8	2721.33	0	0	0	0	0	0	8	2721.33	0	0	8	2721.33
2	Kollam	4	0	0	2	3264.24	2	3264.24	0	0	2	294.53	2	294.53	0	0	4	1779.39	4	1779.39
3	Pathanamthitta	3	3	5522.63	0	0	3	5522.63	0	0	0	0	0	0	3	5522.63	0	0	3	5522.63
4	Alappuzha	2	0	0	2	6047.16	2	6047.16	0	0	0	0	0	0	0	0	2	6047.16	2	6047.16
5	Kottayam	1	1	0.04	0	0	1	0.04	0	0	0	0	0	0	1	0.04	0	0	1	0.04
6	Idukki	2	2	2951.59	0	0	2	2951.59	0	0	0	0	0	0	2	2951.59	0	0	2	2951.59
7	Ernakulam	10	10	3158.79	0	0	10	3158.79	0	0	0	0	0	0	10	3158.79	0	0	10	3158.79
8	Thrissur	2	2	7922	0	0	2	7922	0	0	0	0	0	0	2	7922	0	0	2	7922
9	Palakkad	2	2	6478.42	0	0	2	6478.42	0	0	0	0	0	0	2	6478.42	0	0	2	6478.42
10	Malappuram	1	1	7472.33	0	0	1	7472.33	0	0	0	0	0	0	1	7472.33	0	0	1	7472.33
11	Kozhikode	8	7	2889.7	0	0	7	2889.7	1	2401.59	0	0	1	2401.59	8	2828.69	0	0	8	2828.69
12	Wayanad	4	4	4078.34	0	0	4	4078.34	0	0	0	0	0	0	4	4078.34	0	0	4	4078.34
13	Kannur	2	0	0	0	0	0	0	2	2352.23	0	0	2	2352.23	2	2352.23	0	0	2	2352.23
14	Kasargod	4	4	4208.64	0	0	4	4208.64	0	0	0	0	0	0	4	4208.64	0	0	4	4208.64
State Total		53	44	3760.88	4	4655.7	48	3835.45	3	2368.69	2	294.53	5	1539.02	47	3672.01	6	3201.98	53	3618.8

Table 10(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: SUMMER PADDY

STATE SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
						No. of Expts.					Rate of Application				
		No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No.	Yield Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	8	4631.59	2	3532.49	8	7	7	8	4631.59	53.25	21.69	37.06	0	0
2	Kollam	6	1658.38	0	0	0	0	0	0	0	0	0	0	6	1658.38
3	Pathanamthitta	3	4388.25	2	5679.2	3	3	3	3	4388.25	81.67	43	89.33	0	0
4	Alappuzha	1	7840.06	1	7840.05	1	1	1	1	7840.06	106	49	74	0	0
5	Kottayam	2	4699.08	2	4699.08	2	2	2	2	4699.08	101.5	41	59.5	0	0
6	Idukki	2	2245.38	2	2245.38	2	2	1	2	2245.38	15	15	18	0	0
7	Ernakulam	6	3805.27	2	4343.19	6	6	6	6	3805.27	31.27	29.27	28.81	0	0
8	Thrissur	2	5349.68	2	5349.68	2	2	2	2	5349.68	63.17	26.6	41.33	0	0
9	Palakkad	9	4099.9	6	4661.26	8	8	8	8	4074.55	82.88	48.50	77.63	1	4302.70
10	Malappuram	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Kozhikode	8	3031.82	0	0	2	2	3	3	3785.48	84	49	72.67	5	2579.63
12	Wayanad	4	4632.64	0	0	3	4	0	4	4632.64	20	0	0	0	0
13	Kannur	2	3724.52	0	0	2	2	2	2	3724.52	63.5	22.5	43	0	0
14	Kasargod	4	3284.16	0	0	4	4	1	4	3284.16	54.38	54.38	263	0	0
<b>State Total</b>		<b>57</b>	<b>3784.17</b>	<b>19</b>	<b>4605.56</b>	<b>43</b>	<b>43</b>	<b>36</b>	<b>45</b>	<b>4189.92</b>	<b>63.05</b>	<b>33.33</b>	<b>73.12</b>	<b>12</b>	<b>2262.6</b>

Table contd.

Table 10(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: SUMMER PADDY

STATE SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	0	0	6	4997.96	2	3532.49	6	4997.96	0	0	8	4631.59
2	Kollam	5	1394.24	5	1394.24	1	2979.09	0	0	1	2979.09	5	1394.24
3	Pathanamthitta	0	0	1	1806.35	2	5679.2	1	1806.35	0	0	3	4388.25
4	Alappuzha	0	0	0	0	1	7840.06	0	0	0	0	1	7840.06
5	Kottayam	0	0	0	0	2	4699.08	0	0	0	0	2	4699.08
6	Idukki	0	0	0	0	2	2245.38	0	0	0	0	2	2245.38
7	Ernakulam	0	0	4	3536.31	2	4343.19	4	3536.31	0	0	6	3805.27
8	Thrissur	0	0	0	0	2	5349.68	0	0	0	0	2	5349.68
9	Palakkad	0	0	2	2314.39	7	4610.04	2	2314.39	1	4302.70	8	4074.55
10	Malappuram	0	0	0	0	0	0	0	0	0	0	0	0
11	Kozhikode	5	2579.63	8	3031.82	0	0	3	3785.48	0	0	8	3031.82
12	Wayanad	0	0	4	4632.64	0	0	4	4707.36	0	0	4	4632.64
13	Kannur	0	0	2	3724.52	0	0	2	3724.52	0	0	2	3724.52
14	Kasargod	0	0	4	3284.16	0	0	4	3284.16	0	0	4	3284.16
<b>State Total</b>		<b>10</b>	<b>1986.94</b>	<b>36</b>	<b>3358.62</b>	<b>21</b>	<b>4513.69</b>	<b>26</b>	<b>3897.68</b>	<b>2</b>	<b>3640.9</b>	<b>55</b>	<b>3789.38</b>

Table 10(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: SUMMER PADDY

CENTRAL SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
		No.	Yield Rate	No.	Yield Rate	No. of Expts.					Rate of Application			No	Yield Rate
						N	P	K	Exclusive Total	Yield Rate	N	P	K		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	8	2721.33	1	3935.4	7	3	3	8	2721.33	57.57	17.33	54	0	0
2	Kollam	4	1779.39	0	0	2	2	2	2	3264.24	139	29	70	2	294.53
3	Pathanamthitta	3	5522.63	3	5522.63	3	3	3	3	5522.63	114.67	45.67	61	0	0
4	Alappuzha	2	6047.16	2	6047.16	2	2	2	2	6047.16	43	25.5	23.5	0	0
5	Kottayam	1	0.037	0	0	1	1	1	1	0.037	75	10	75	0	0
6	Idukki	2	2951.59	1	0.04	2	2	1	2	2951.59	43.5	23.5	22	0	0
7	Ernakulam	10	3158.79	4	2463.84	10	8	9	10	3158.79	35	26.5	28.56	0	0
8	Thrissur	2	7922	1	7325.52	2	2	2	2	7922	44	15	29	0	0
9	Palakkad	2	6478.42	0	0	2	2	2	2	6478.42	83	35	92.5	0	0
10	Malappuram	1	7472.33	1	7472.33	1	1	1	1	7472.33	21	21	21	0	0
11	Kozhikode	8	2828.69	2	2568.26	5	4	5	5	3503.14	47.4	14.5	46.8	3	1704.6
12	Wayanad	4	4067.57	3	4180.58	4	2	4	4	4067.57	14.75	1.25	19	0	0
13	Kannur	2	2352.23	0	0	2	2	2	2	2352.23	30	30	30	0	0
14	Kasargod	4	4208.64	1	4097.28	3	3	2	3	4314.88	48.67	47.33	21	1	3889.92
State Total		53	3617.99	19	4159.28	46	37	39	47	3875.76	56.9	24.4	42.38	6	1598.8

Page contd.



Table 10(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: SUMMER PADDY

CENTRAL SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate
1	2	17	18	19	20	21	22	23	24	25	26	27	28
1	Thiruvananthapuram	0	0	7	2547.90	1	3935.4	7	2547.9	0	0	8	2721.33
2	Kollam	0	0	2	3264.24	2	294.53	2	3264.24	2	294.53	2	3264.24
3	Pathanamthitta	0	0	0	0	3	5522.63	0	0	0	0	3	5522.63
4	Alappuzha	0	0	0	0	2	6047.16	0	0	0	0	2	6047.16
5	Kottayam	0	0	1	0.04	0	0	1	0.04	0	0	1	0.04
6	Idukki	0	0	1	5903.14	1	0.04	1	5903.14	0	0	2	2951.59
7	Ernakulam	0	0	6	3622.09	4	2463.84	6	3622.09	0	0	10	3158.79
8	Thrissur	0	0	1	8518.48	1	7325.52	1	8518.48	0	0	2	7922
9	Palakkad	0	0	2	6478.42	0	0	2	6478.42	0	0	2	6478.42
10	Malappuram	0	0	0	0	1	7472.33	0	0	0	0	1	7472.33
11	Kozhikode	3	1704.6	6	2915.50	2	2568.26	3	4126.4	0	0	8	2828.69
12	Wayanad	0	0	1	3728.53	3	4180.58	1	3728.53	0	0	4	4067.57
13	Kannur	0	0	2	2352.23	0	0	2	2352.23	0	0	2	2352.23
14	Kasargod	1	3889.92	3	4245.76	1	4097.28	2	4423.68	0	0	4	4208.64
State Total		4	2250.93	32	3504.31	21	3791.21	28	3683.37	2	294.53	51	3748.32

Table 11(i)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE:KERALA

YEAR: 2019-20

STATE SAMPLE

SEASON:ANNUAL

CROP:BANANA

Sl. No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	4	4				
2	Kollam	4	4				
3	Pathanamthitta						
4	Alappuzha	4	3		1		
5	Kottayam	4	4				
6	Idukki						
7	Ernakulam	4	4				
8	Thrissur	6	6				
9	Palakkad	6	6				
10	Malappuram	6	3		3		
11	Kozhikode	4	4				
12	Wayanad						
13	Kannur	4	4				
14	Kasargod	4	4				
State Total		50	46		4		

Post Harvest due to lockdown.

In Kottayam district cultivator did not inform the investigator.

**Table 11(ii)**  
**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE: KERALA

YEAR: 2019-20

CENTRAL SAMPLE

SEASON: ANNUAL

CROP: BANANA

Sl.No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Thiruvananthapuram	4	2	2			
2	Kollam	4	4				
3	Pathanamthitta						
4	Alappuzha	4	4				
5	Kottayam	4	3		1		
6	Idukki						
7	Ernakulam	4	4				
8	Thrissur	6	6				
9	Palakkad	6	6				
10	Malappuram	6	6				
11	Kozhikode	4	3	1			
12	Wayanad						
13	Kannur	4	4				
14	Kasargod	4	2	2			
State Total		50	44	5	1		

Table 11(iii)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA			YEAR: 2019-20 SEASON: ANNUAL						CROP: BANANA						STATE SAMPLE					
Sl. No	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total	
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	4	0	0	0	0	0	0	4	13558.3	0	0	4	13558.3	4	13558.3	0	0	4	13558.3
2	Kollam	4	0	0	0	0	0	0	2	15750	2	11366.7	4	13558.3	2	15750	2	11366.7	4	13558.3
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	3	0	0	0	0	0	0	1	10866.7	2	10333.3	3	10511.11	1	10866.7	2	10333.3	3	10511.11
5	Kottayam	4	0	0	2	17700	2	17700	0	0	2	13333.3	2	13333.3	0	0	4	15516.7	4	15516.67
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	0	0	0	0	0	0	4	12191.7	0	0	4	12191.7	4	12191.7	0	0	4	12191.7
8	Thrissur	6	2	22733.3	0	0	2	22733.3	4	16716.7	0	0	4	16716.7	6	18722.2	0	0	6	18722.22
9	Palakkad	6	2	22933.3	0	0	2	22933.3	3	14522.2	1	14933.3	4	14625	5	17886.7	1	14933.3	6	17394.44
10	Malappuram	3	0	0	0	0	0	0	3	21633.3	0	0	3	21633.3	3	21633.3	0	0	3	21633.3
11	Kozhikode	4	0	0	0	0	0	0	4	13133.3	0	0	4	13133.3	4	13133.3	0	0	4	13133.3
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	0	0	0	0	0	0	4	19708.3	0	0	4	19708.3	4	19708.3	0	0	4	19708.3
14	Kasargod	4	0	0	0	0	0	0	4	16858.3	0	0	4	16858.3	4	16858.3	0	0	4	16858.3
<b>State Total</b>		<b>46</b>	<b>4</b>	<b>22833.3</b>	<b>2</b>	<b>17700</b>	<b>6</b>	<b>21122.22</b>	<b>33</b>	<b>15742.4</b>	<b>7</b>	<b>12142.9</b>	<b>40</b>	<b>15112.5</b>	<b>37</b>	<b>16509</b>	<b>9</b>	<b>13377.8</b>	<b>46</b>	<b>15896.38</b>

Table 11(iv)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA

YEAR: 2019-20

SEASON: ANNUAL

CROP: BANANA

CENTRAL SAMPLE

Sl. No	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total	
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	4	2	13666.7	0	0	2	13666.67	1	15466.7	1	20066.7	2	17766.7	3	14266.7	1	20066.7	4	15716.67
2	Kollam	4	0	0	0	0	0	0	3	12533.3	1	12333.3	4	12483.3	3	12533.3	1	12333.3	4	12483.3
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	4	0	0	0	0	0	0	4	10216.7	0	0	4	10216.7	4	10216.7	0	0	4	10216.67
5	Kottayam	3	0	0	0	0	0	0	3	20157.3	0	0	3	20157.3	3	20157.3	0	0	3	20157.33
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	0	0	0	0	0	0	4	14008.3	0	0	4	14008.3	4	14008.3	0	0	4	14008.33
8	Thrissur	6	1	20646.7	0	0	1	20646.67	4	12598.3	1	11520	5	12382.7	5	14208	1	11520	6	13760
9	Palakkad	6	0	0	0	0	0	0	6	13772.2	0	0	6	13772.2	6	13772.2	0	0	6	13772.2
10	Malappuram	6	0	0	0	0	0	0	6	16427.8	0	0	6	16427.8	6	16427.8	0	0	6	16427.8
11	Kozhikode	4	0	0	0	0	0	0	3	11511.1	1	7800	4	10583.3	3	11511.1	1	7800	4	10583.3
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	0	0	0	0	0	0	4	18591.7	0	0	4	18591.7	4	18591.7	0	0	4	18591.7
14	Kasargod	4	0	0	0	0	0	0	4	16800	0	0	4	16800	4	16800	0	0	4	16800
	<b>State Total</b>	<b>49</b>	<b>3</b>	<b>15993.3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>15993.33</b>	<b>42</b>	<b>14717.4</b>	<b>4</b>	<b>12930</b>	<b>46</b>	<b>14562</b>	<b>45</b>	<b>14802.5</b>	<b>4</b>	<b>12930</b>	<b>49</b>	<b>14649.63</b>

Table 11(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA YEAR: 2019-20 SEASON: ANNUAL CROP: BANANA STATE SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
		No.	Yield Rate	No.	Yield Rate	No. of Expts.					Rate of Application			No.	Yield Rate
						N	P	K	Exclusive Total	Yield Rate	N	P	K		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	13558.33	0	0	3	2	0	3	16266.67	132.33	99	0	1	5433.33
2	Kollam	4	13558.33	0	0	0	0	0	0	0	0	0	0	4	13558.33
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	3	10511.11	0	0	0	0	0	0	0	0	0	0	3	10511.11
5	Kottayam	4	15516.67	0	0	3	3	2	3	14688.89	433.33	253.33	360	1	18000
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	12191.67	0	0	3	1	3	3	12033.33	241.33	80	300	1	12666.67
8	Thrissur	6	18722.22	0	0	5	4	3	5	18400	359.61	143	474.13	1	20333.33
9	Palakkad	6	17394.44	1	12000	4	4	4	4	18200	213.5	70	195	2	15783.33
10	Malappuram	3	21633.33	0	0	3	2	2	3	21633.33	299.33	150	300	0	0
11	Kozhikode	4	13133.33	1	13966.7	2	2	2	2	13983.33	197	197	197	2	12283.33
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	19708.33	0	0	2	1	2	2	25583.33	178	80	240	2	13833.33
14	Kasargod	4	16858.33	0	0	1	1	1	1	12300	180	180	180	3	18377.78
State Total		46	15896.38	2	12983.3	26	20	19	26	17311.54	248.27	139.15	280.77	20	14056.67

Table contd...

Table 11(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: ANNUAL

CROP: BANANA

STATE SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
1	2	17	18	19	20	21	22	23	24	25	26	27	28
1	Thiruvananthapuram	1	5433.33	4	13558.33	0	0	3	16266.7	0	0	4	13558.33
2	Kollam	4	13558.33	4	13558.33	0	0	0	0	0	0	4	13558.33
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	3	10511.11	3	10511.11	0	0	0	0	0	0	3	10511.11
5	Kottayam	1	18000	4	15516.67	0	0	3	14688.9	0	0	4	15516.67
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	1	12666.67	4	12191.67	0	0	3	12033.3	0	0	4	12191.67
8	Thrissur	1	20333.33	6	18722.22	0	0	5	18400	0	0	6	18722.22
9	Palakkad	2	15783.33	5	187473.33	1	12000	3	20266.7	0	0	6	17394.44
10	Malappuram	0	0	3	21633.33	0	0	3	21633.3	0	0	3	21633.33
11	Kozhikode	2	12283.33	3	12855.56	1	13966.67	1	14000	0	0	4	13133.33
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	2	13833.33	4	19708.33	0	0	2	25583.3	0	0	4	19708.33
14	Kasargod	3	18377.78	4	16858.33	0	0	1	12300	0	0	4	16858.33
<b>State Total</b>		<b>20</b>	<b>14056.67</b>	<b>44</b>	<b>16028.79</b>	<b>2</b>	<b>12983.33</b>	<b>24</b>	<b>17672.2</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>15896.38</b>

Table 11(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA YEAR: 2019-20 SEASON: ANNUAL CROP: BANANA CENTRAL SAMPLE

Sl. No	District	Expts. Checked at Harvest & Post harvest stage		Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
		No. of Expts.		Rate of Application													
		No	Yield Rate	No	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No.	Yield Rate
1	2	3 a	4(a)	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	15716.67	2	13666.67	1	20066.7	4	3	4	4	15716.67	285.75	53	315	0	0
2	Kollam	4	12483.33	4	12483.33	0	0	2	2	2	2	13500	165	62	176	2	11466.67
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	4	10216.67	4	10216.67	0	0	0	0	0	0	0	0	0	0	4	10216.67
5	Kottayam	3	20157.33	3	20157.33	0	0	2	2	1	2	20100	188.5	188.5	486	1	20272
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	14008.33	4	14008.33	1	7166.67	2	1	1	2	20550	214	255	255	2	7466.67
8	Thrissur	6	13706	6	13760	0	0	2	2	0	2	16670	169.5	79	0	4	12305
9	Palakkad	6	13772.22	6	13772.22	0	0	5	5	5	5	14346.67	331.8	106.8	348.6	1	10900
10	Malappuram	6	16427.78	6	16427.78	1	13566.7	4	4	2	4	19033.33	333.75	157	409	2	11216.67
11	Kozhikode	4	10583.33	3	11511.11	1	9466.67	3	3	1	3	8055.56	143	92	89	1	18166.67
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	18591.67	4	18591.67	2	19833.3	4	3	4	4	18591.67	239.5	120	237.75	0	0
14	Kasaragod	4	16800	2	16033.33	0	0	4	4	0	4	16800	129.25	129.25	0	0	0
	<b>State Total</b>	<b>49</b>	<b>14649.63</b>	<b>44</b>	<b>14531.03</b>	<b>6</b>	<b>14988.9</b>	<b>32</b>	<b>29</b>	<b>20</b>	<b>32</b>	<b>16190.83</b>	<b>220.01</b>	<b>124.26</b>	<b>289.54</b>	<b>17</b>	<b>11748.55</b>
5 CC post harvest due to Covid 19 lockdown Table contd...																	



Table 11(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: ANNUAL

CROP: BANANA

CENTRAL SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	No.	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	0	0	3	14266.67	1	20066.67	3	14266.7	0	0	4	15716.67
2	Kollam	2	11466.67	4	12483.33	0	0	2	13500	0	0	4	12483.33
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	4	10216.67	4	10216.67	0	0	0	0	0	0	4	10216.67
5	Kottayam	1	20272	3	20157.33	0	0	2	20100	0	0	3	20157.33
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	2	7466.67	3	16288.89	1	7166.67	1	33933.3	0	0	4	14008.33
8	Thrissur	4	12305	6	13760	0	0	2	16670	0	0	6	13760
9	Palakkad	1	10900	6	13772.22	0	0	5	14346.7	0	0	6	13772
10	Malappuram	2	11216.67	5	17000	1	13566.67	3	20855.6	0	0	6	16427.78
11	Kozhikode	1	18166.67	3	10955.56	1	9466.67	2	7350	0	0	4	10583.33
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	0	0	2	17350	2	19833.33	2	17350	0	0	4	18591.67
14	Kasargod	0	0	4	16800	0	0	4	16800	0	0	4	16800
State Total		17	11748.55	43	14602.29	6	14988.89	26	16468.2	0	0	49	14649.63

Table 12(i)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE:KERALA

YEAR:2019-20

STATE SAMPLE

SEASON:ANNUAL

CROP:TAPIOCA

Sl. No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	4	4				
2	Kollam	4	4				
3	Pathanamthitta	0	0				
4	Alappuzha	0	0				
5	Kottayam	4	4				
6	Idukki	0	0				
7	Ernakulam	4	4				
8	Thrissur	4	4				
9	Palakkad	4	4				
10	Malappuram	4	1		3		
11	Kozhikode	4	4				
12	Wayanad	0	0				
13	Kannur	4	4				
14	Kasargod	4	4				
<b>State Total</b>		<b>40</b>	<b>37</b>		<b>3</b>		

Table 12(ii)

## CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED

STATE: KERALA

YEAR: 2019-20

CENTRAL SAMPLE

Sl.No.	District	SEASON: ANNUAL		CROP: TAPIOCA			
		No. of Experiments Planned	Checked at harvest	At postharvest	Lost	Rejected for analysis	For which schedules are not received
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Thiruvananthapuram	4	2	2			
2	Kollam	4	4				
3	Pathanamthitta	0	0				
4	Alappuzha	0	0				
5	Kottayam	4	4				
6	Idukki	0	0				
7	Ernakulam	4	4				
8	Thrissur	4	4				
9	Palakkad	4	2		2		
10	Malappuram	4	4				
11	Kozhikode	4	4				
12	Wayanad	0	0				
13	Kannur	4	4				
14	Kasargod	4	2	2			
State Total		40	34	4	2		

Table 12(iii)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

		STATE: KERALA		YEAR: 2019-20		SEASON: ANNUAL		CROP:TAPIOCA		STATE SAMPLE										
Sl. No	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total	
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	4	1	66250	0	0	1	66250	1	24250	2	23937.5	3	24042	2	45250	2	23937.5	4	34593.75
2	Kollam	4	0	0	2	37662.5	2	37662.5	1	21250	1	55250	2	38250	1	21250	3	43525	4	37956.25
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	4	0	0	1	91500	1	91500	0	0	3	28166.67	3	28167	0	0	4	44000	4	44000
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	0	0	0	0	0	0	4	32187.5	0	0	4	32188	4	32187.5	0	0	4	32187.5
8	Thrissur	4	0	0	0	0	0	0	2	23562.5	2	24062.5	4	23813	2	23562.5	2	24062.5	4	23812.5
9	Palakkad	4	0	0	3	20791.67	3	20791.67	1	22250	0	0	1	22250	1	22250	3	20791.67	4	21156.25
10	Malappuram	1	1	64500	0	0	1	64500	0	0	0	0	0	0	1	64500	0	0	1	64500
11	Kozhikode	4	0	0	0	0	0	0	1	11250	3	20791.67	4	18406	1	11250	3	20791.67	4	18406.25
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	0	0	0	0	0	0	0	0	4	26250	4	26250	0	0	4	26250	4	26250
14	Kasargod	4	0	0	0	0	0	0	0	0	3	29666.67	4	28719	1	25875	3	29666.67	4	28718.75
State Total		37	2	65375	6	38200	8	44993.75	11	25522.73	18	27340.28	29	26651	13	31653.9	24	30055.21	37	30616.89

Table 12(iv)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA      YEAR: 2019-20      SEASON: ANNUAL      CROP:TAPIOCA      CENTRAL SAMPLE																				
Sl. No	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total	
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	4	1	34125	2	29750	3	31208.33	0	0	1	33750	1	33750	1	34125	3	31083.33	4	31843.75
2	Kollam	4	0	0	0	0	0	0	3	18041.67	1	20750	4	18719	3	18041.7	1	20750	4	18718.75
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	4	3	20917	0	0	3	20916.67	0	0	1	47875	1	47875	3	20916.7	1	47875	4	27656.25
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	1	39500	0	0	1	39500	3	34333.33	0	0	3	34333	4	35625	0	0	4	35625
8	Thrissur	4	1	45750	0	0	1	45750	2	38875	1	48750	3	42167	3	41166.7	1	48750	4	43062.5
9	Palakkad	2	2	17938	0	0	2	17937.5	0	0	0	0	0	0	2	17937.5	0	0	2	17937.5
10	Malappuram	4	2	28250	0	0	2	28250	2	13437.5	0	0	2	13438	4	20843.8	0	0	4	20843.75
11	Kozhikode	4	0	0	0	0	0	0	0	0	4	30968.75	4	30969	0	0	4	30968.75	4	30968.75
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	0	0	2	49562.5	2	49562.5	0	0	2	96687.5	2	96688	0	0	4	73125	4	73125
14	Kasargod	4	0	0	0	0	0	0	1	27875	3	30291.67	4	29688	1	27875	3	30291.67	4	29687.5
<b>State Total</b>		<b>38</b>	<b>10</b>	<b>27450</b>	<b>4</b>	<b>39656.25</b>	<b>14</b>	<b>30937.5</b>	<b>11</b>	<b>26329.55</b>	<b>13</b>	<b>43019.23</b>	<b>24</b>	<b>35370</b>	<b>21</b>	<b>26863.1</b>	<b>17</b>	<b>42227.94</b>	<b>38</b>	<b>33736.84</b>

Table 12(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: ANNUAL

CROP: TAPIOCA

STATE SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
		No.	Yield Rate	No.	Yield Rate	No. of Expts.					Rate of Application			No.	Yield Rate
						N	P	K	Exclusive Total	Yield Rate	N	P	K		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	34593.75	0	0	1	0	1	1	66250	51	0	51	3	24041.67
2	Kollam	4	37956.25	0	0	0	0	0	0	0	0	0	0	4	37956.25
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	4	44000	1	26500	1	1	1	1	26500	73	73	102	3	49833.33
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	32187.5	0	0	0	0	0	0	0	0	0	0	4	32187.5
8	Thrissur	4	23812.5	0	0	0	0	0	0	0	0	0	0	4	23812.5
9	Palakkad	4	21156.25	1	8125	1	1	1	1	8125	50	50	102	3	25500
10	Malappuram	1	64500	0	0	1	1	1	1	64500	101	101	101	0	0
11	Kozhikode	4	18406.25	0	0	0	0	0	0	0	0	0	0	4	18406.25
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	26250	0	0	2	2	0	2	19125	25	25	0	2	33375
14	Kasargod	4	28718.75	0	0	1	1	1	1	28500	19.76	19.76	20	3	28791.67
<b>State Total</b>		<b>37</b>	<b>30616.89</b>	<b>2</b>	<b>17312.5</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>7</b>	<b>33160.71</b>	<b>53.29</b>	<b>53.75</b>	<b>75.2</b>	<b>30</b>	<b>30023.33</b>

Table contd.

Table 12(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: ANNUAL

CROP:TAPIOCA

STATE SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	3	24041.67	4	34593.75	0	0	1	66250	0	0	4	34593.75
2	Kollam	3	40375	3	40375	1	30700	0	0	1	30700	3	40375
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	2	64125	2	64125	2	23795	0	0	1	21250	3	51583.33
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	32187.5	4	32187.5	0	0	0	0	0	0	4	32187.5
8	Thrissur	2	23562.5	2	23562.5	2	24062.5	0	0	2	24062.5	2	23562.5
9	Palakkad	2	31500	2	31500	2	10812.5	0	0	1	13500	3	23708.33
10	Malappuram	0	0	1	64500	0	0	1	64500	0	0	1	64500
11	Kozhikode	4	18406.25	4	18406.25	0	0	0	0	0	0	4	18406.25
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	1	33000	3	23750	1	33750	2	19125	1	33750	3	23750
14	Kasargod	2	32562.5	3	31208.33	1	21250	1	28500	1	21250	3	31208.33
State Total		23	31831.52	28	33200.89	9	22577.78	5	39500	7	24082.14	30	32141.67

Table 12(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: ANNUAL

CROP: TAPIOCA

CENTRAL SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
						No. of Expts.					Rate of Application				
		No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No.	Yield Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	31843.75	0	0	0	0	0	0	0	0	0	0	4	31843.75
2	Kollam	4	18718.75	0	0	0	0	0	0	0	0	0	0	4	18718.75
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	4	27656.25	1	23000	2	2	2	2	21250	45	45	90	2	34062.5
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	35625	0	0	1	1	1	1	39500	261	261	261	3	34333.33
8	Thrissur	4	43062.5	0	0	0	0	0	0	0	0	0	0	4	43062.5
9	Palakkad	2	17937.5	0	0	1	1	1	1	16250	5	5	5	1	19625
10	Malappuram	4	20843.75	0	0	0	0	0	0	0	0	0	0	4	20843.75
11	Kozhikode	4	30968.75	0	0	0	0	0	0	0	0	0	0	4	30968.75
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	73125	0	0	1	1	1	1	145000	58	58	116	3	49166.67
14	Kasargod	4	29687.5	0	0	0	0	0	0	0	0	0	0	4	29687.5
<b>State Total</b>		<b>38</b>	<b>33736.84</b>	<b>1</b>	<b>23000</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>48650</b>	<b>92.25</b>	<b>92.25</b>	<b>118</b>	<b>33</b>	<b>31477.27</b>

Table contd.



Table 12(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: ANNUAL

CROP:TAPIOCA

CENTRAL SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	4	31843.75	4	31843.75	0	0	0	0	0	0	4	31843.75
2	Kollam	4	18718.75	4	18718.75	0	0	0	0	0	0	4	18718.75
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	2	34062.5	3	29208.33	1	23000	1	19500	0	0	4	27656.25
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	3	34333.33	4	35625	0	0	1	39500	0	0	4	35625
8	Thrissur	3	41166.67	3	41166.67	1	48750	0	0	1	48750	3	41166.67
9	Palakkad	1	19625	2	17937.5	0	0	1	16250	0	0	2	17937.5
10	Malappuram	4	20843.75	4	20843.75	0	0	0	0	0	0	4	20843.75
11	Kozhikode	3	30250	3	30250	1	33125	0	0	1	33125	3	30250
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	2	59687.5	3	88125	1	28125	1	145000	1	28125	3	88125
14	Kasargod	2	25625	2	25625	2	33750	0	0	2	33750	2	25625
<b>State Total</b>		<b>28</b>	<b>30758.93</b>	<b>32</b>	<b>33796.88</b>	<b>6</b>	<b>33416.67</b>	<b>4</b>	<b>55062.5</b>	<b>5</b>	<b>35500</b>	<b>33</b>	<b>33469.7</b>

Table 13(i)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE:KERALA

YEAR:2019-20

STATE SAMPLE

SEASON: PERENNIAL

CROP:COCONUT

Sl.No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	4	4				
2	Kollam	4	4				
3	Pathanamthitta	0	0				
4	Alappuzha	4	4				
5	Kottayam	4	4				
6	Idukki	0	0				
7	Ernakulam	4	4				
8	Thrissur	6	6				
9	Palakkad	6	6				
10	Malappuram	6	6				
11	Kozhikode	4	4				
12	Wayanad	0	0				
13	Kannur	4	4				
14	Kasargod	4	4				
State Total		50	50				

Table 13(ii)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE: KERALA

YEAR:2019-20

CENTRAL SAMPLE

SEASON: PERENNIAL

CROP: COCONUT

Sl. No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Thiruvananthapuram	4	4				
2	Kollam	4	4				
3	Pathanamthitta	0	0				
4	Alappuzha	4	4				
5	Kottayam	4	4				
6	Idukki	0	0				
7	Ernakulam	4	4				
8	Thrissur	6	6				
9	Palakkad	6	6				
10	Malappuram	6	6				
11	Kozhikode	4	4				
12	Wayanad	0	0				
13	Kannur	4	4				
14	Kasargod	4	4				
State Total		50	50				

Table 13(iii)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA		YEAR: 2019-20		SEASON: PERENNIAL		CROP: COCONUT		STATE SAMPLE												
Sl. No.	District	No. of expts. Checked at harvest		HY Varieties				Other Varieties				Both HY & Others								
				Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total
		No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	4	0	0	0	0	0	0	0	0	4	4744.3	4	4744.3	0	0	4	4744.3	4	4744.3
2	Kollam	4	0	0	0	0	0	0	0	0	4	4473	4	4473	0	0	4	4473	4	4473
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	4	0	0	0	0	0	1	15121	3	3017.8	4	6043.5	1	15120.6	3	3017.8	4	6043.5	
5	Kottayam	4	0	0	0	0	0	0	0	4	3456.1	4	3456.1	0	0	4	3456.1	4	3456.1	
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Ernakulam	4	0	0	0	0	0	2	6813	2	3887.4	4	5350.4	2	6813.4	2	3887.4	4	5350.4	
8	Thrissur	6	0	0	0	0	0	2	10485	4	5356	6	7065.8	2	10485.4	4	5356	6	7065.8	
9	Palakkad	6	0	0	0	0	0	2	18652	4	6019.8	6	10230.5	2	18651.9	4	6019.8	6	10230.5	
10	Malappuram	6	0	0	0	0	0	1	9466	5	8648.96	6	8785.07	1	9465.6	5	8648.96	6	8785.07	
11	Kozhikode	4	0	0	0	0	0	0	0	4	14308.3	4	14308.3	0	0	4	14308.3	4	14308.25	
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Kannur	4	0	0	0	0	0	1	6552	3	6482	4	6499.5	1	6552	3	6482	4	6499.5	
14	Kasargod	4	0	0	0	0	0	3	5467	1	5181.6	4	5395.8	3	5467.2	1	5181.6	4	5395.8	
<b>State Total</b>		<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>9953</b>	<b>38</b>	<b>6266.59</b>	<b>50</b>	<b>7151.43</b>	<b>12</b>	<b>9953.43</b>	<b>38</b>	<b>6266.59</b>	<b>50</b>	<b>7151.43</b>	

Unit: no./hec.

Table 13(iv)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA		YEAR: 2019-20		SEASON: PERENNIAL				CROP: COCONUT				CENTRAL SAMPLE								
Sl. No.	District	No. of expts. Checked at harvest		HY Varieties				Other Varieties				Both HY & Others								
				Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total
		No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	4	0	0	0	0	0	0	0	0	4	11667.8	4	11667.8	0	0	4	11667.8	4	11667.8
2	Kollam	4	0	0	0	0	0	0	0	0	4	7245	4	7245	0	0	4	7245	4	7245
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	4	0	0	0	0	0	0	2	7133.7	2	5427.3	4	6280.5	2	7133.7	2	5427.3	4	6280.5
5	Kottayam	4	0	0	0	0	0	0	0	0	4	952.3	4	952.3	0	0	4	952.3	4	952.3
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	0	0	0	0	0	0	2	8213.7	2	6249.1	4	7231.4	2	8213.7	2	6249.1	4	7231.4
8	Thrissur	6	0	0	0	0	0	0	4	11742	2	7931	6	10471.7	4	11742	2	7931	6	10471.7
9	Palakkad	6	0	0	0	0	0	0	4	4917.75	2	5830.2	6	5221.9	4	4917.75	2	5830.2	6	5221.9
10	Malappuram	6	0	0	0	0	0	0	2	7540	4	8874	6	8429.33	2	7540	4	8874	6	8429.33
11	Kozhikode	4	0	0	0	0	0	0	0	0	4	7568	4	7568	0	0	4	7568	4	7568
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	0	0	0	0	0	0	0	0	4	4368	4	4368	0	0	4	4368	4	4368
14	Kasargod	4	0	0	0	0	0	0	3	4732.8	1	5752.8	4	4987.8	3	4732.8	1	5752.8	4	4987.8
<b>State Total</b>		<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>7447.78</b>	<b>33</b>	<b>6646.32</b>	<b>50</b>	<b>6918.81</b>	<b>17</b>	<b>7447.78</b>	<b>33</b>	<b>6646.32</b>	<b>50</b>	<b>6918.81</b>

Unit: no./hec.

Table 13(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: PERENNIAL

CROP: COCONUT

STATE SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers							Expts. Not treated with Fertilizers			
		No.	Yield Rate (No/Hec)	No.	Yield Rate	No. of Expts.					Rate of Application			No.	Yield Rate	
						N	P	K	Exclusive Total	Yield Rate	N	P	K			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	Thiruvananthapuram	4	4744.3	0	0	0	0	0	0	0	0	0	0	4	4744.3	
2	Kollam	4	4473	0	0	0	0	0	0	0	0	0	0	4	4473	
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Alappuzha	4	6043.5	0	0	0	0	0	0	0	0	0	0	4	6043.5	
5	Kottayam	4	3456.1	0	0	0	0	0	0	0	0	0	0	4	3456.1	
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Ernakulam	4	5350.4	0	0	0	0	0	0	0	0	0	0	4	5350.4	
8	Thrissur	6	7065.8	0	0	2	0	2	2	10485.4	69	0	75	4	5356	
9	Palakkad	6	10230.5	0	0	0	0	0	0	0	0	0	0	6	10230.5	
10	Malappuram	6	8785.07	0	0	0	0	0	0	0	0	0	0	6	8785.07	
11	Kozhikode	4	14308.25	0	0	2	2	2	2	17737.5	36	18	72	2	10879	
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Kannur	4	6499.5	0	0	0	0	0	0	0	0	0	0	4	6499.5	
14	Kasargod	4	5395.8	0	0	0	0	0	0	0	0	0	0	4	5395.8	
<b>State Total</b>		<b>50</b>	<b>7151.43</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>14111.45</b>	<b>52.5</b>	<b>18</b>	<b>73.5</b>	<b>46</b>	<b>6546.21</b>	
Unit: no./hec.															Table contd.	

Table 13(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: PERENNIAL

CROP: COCONUT

STATE SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	0	0	0	0	4	4744.3	0	0	4	4744.3	0	0
2	Kollam	4	4473	4	4473	0	0	0	0	0	0	4	4473
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	4	6043.5	0	0	4	6043.5	0	0
5	Kottayam	0	0	0	0	4	3456.1	0	0	4	3456.1	0	0
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	1	7064.2	1	7064.2	3	4779.13	0	0	3	4779.13	1	7064.2
8	Thrissur	4	5356	6	7065.8	0	0	2	10485.4	0	0	6	7065.8
9	Palakkad	0	0	0	0	6	10230.5	0	0	6	10230.5	0	0
10	Malappuram	5	9892.48	5	9892.48	1	3248	0	0	1	3248	5	9892.48
11	Kozhikode	1	11266	3	15580.33	1	10492	2	17737.5	1	10492	3	15580.33
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	6499.5	4	6499.5	0	0	0	0	0	0	4	6499.5
14	Kasargod	0	0	0	0	4	5395.8	0	0	4	5395.8	0	0
<b>State Total</b>		<b>19</b>	<b>7005.61</b>	<b>23</b>	<b>8241.41</b>	<b>27</b>	<b>6222.93</b>	<b>4</b>	<b>14111.5</b>	<b>27</b>	<b>6222.93</b>	<b>23</b>	<b>8241.41</b>

Unit: no./hec.

Table 13(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA YEAR: 2019-20 SEASON: PERENNIAL CROP: COCONUT CENTRAL SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
		No. of Expts.		Rate of Application		No. of Expts.		Rate of Application		No. of Expts.		Rate of Application			
		No.	Yield Rate (No/Hec)	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No.	Yield Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	11667.8	0	0	0	0	0	0	0	0	0	0	4	11667.8
2	Kollam	4	7245	0	0	0	0	0	0	0	0	0	0	4	7245
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	4	6280.5	0	0	0	0	0	0	0	0	0	0	4	6280.5
5	Kottayam	4	952.3	1	2396.8	1	1	0	1	2396.8	16	16	0	3	470.8
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	7231.4	0	0	0	0	0	0	0	0	0	0	4	7231.4
8	Thrissur	6	10471.7	0	0	0	0	0	0	0	0	0	0	6	10471.7
9	Palakkad	6	5221.9	0	0	5	5	0	5	5394.12	81.4	81.4	0	1	4360.8
10	Malappuram	6	8429.33	0	0	0	0	0	0	0	0	0	0	6	8429.33
11	Kozhikode	4	7568	0	0	1	1	1	1	5289	84	35	35	3	8327.67
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	4368	0	0	0	0	0	0	0	0	0	0	4	4368
14	Kasargod	4	4987.8	0	0	3	2	3	3	5562.4	50.33	50	77.33	1	3264
<b>State Total</b>		<b>50</b>	<b>6918.81</b>	<b>1</b>	<b>2396.8</b>	<b>10</b>	<b>9</b>	<b>4</b>	<b>10</b>	<b>5134.36</b>	<b>57.93</b>	<b>45.6</b>	<b>56.17</b>	<b>40</b>	<b>7364.93</b>
Unit:no./hec.														Tablecontd.	



Table 13(vi)

**CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS**  
**STATE: KERALA    YEAR: 2019-20    SEASON: PERENNIAL    CROP: COCONUT    CENTRAL SAMPLE**

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	0	0	0	0	4	11667.8	0	0	4	11667.8	0	0
2	Kollam	3	8008	3	8008	1	4956	0	0	1	4956	3	8008
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	2	7133.7	2	7133.7	2	5427.3	0	0	2	5427.3	2	7133.7
5	Kottayam	0	0	0	0	4	952.3	0	0	3	470.8	1	2396.8
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	0	0	0	0	4	7231.4	0	0	4	7231.4	0	0
8	Thrissur	2	9661.4	2	9661.4	4	10876.8	0	0	4	10876.8	2	9661.4
9	Palakkad	1	4360.8	6	5221.9	0	0	5	5394.12	0	0	6	5221.9
10	Malappuram	4	8549.2	4	8549.2	2	8189.6	0	0	2	8189.6	4	8549.2
11	Kozhikode	1	3526	2	4407.5	2	10728.5	1	5289	2	10728.5	2	4407.5
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	2	4368	2	4368	2	4368	0	0	2	4368	2	4368
14	Kasargod	1	3264	4	4987.8	0	0	3	5562.4	0	0	4	4987.8
<b>State Total</b>		<b>16</b>	<b>6981.11</b>	<b>25</b>	<b>6425.78</b>	<b>25</b>	<b>7411.84</b>	<b>9</b>	<b>5438.53</b>	<b>24</b>	<b>7620.8</b>	<b>26</b>	<b>6270.82</b>

Unit: no./hec.

Table 14(i)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE: KERALA

YEAR: 2019-20

STATE SAMPLE

SEASON: PERENNIAL

CROP: PEPPER

Sl. No.	District	No. of Experiments		At post harvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	4	4				
2	Kollam	4	4				
3	Pathanamthitta	0	0				
4	Alappuzha	0	0				
5	Kottayam	4	4				
6	Idukki	0	0				
7	Ernakulam	4	4				
8	Thrissur	4	4				
9	Palakkad	4	3		1		
10	Malappuram	4	4				
11	Kozhikode	4	4				
12	Wayanad	0	0				
13	Kannur	4	4				
14	Kasargod	4	4				
State Total		40	39		1		

Table 14(ii)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE: KERALA

YEAR: 2019-20

CENTRAL SAMPLE

SEASON: PERENNIAL

CROP: PEPPER

Sl.No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Thiruvananthapuram	4	2	2			
2	Kollam	4	4				
3	Pathanamthitta	0	0				
4	Alappuzha	0	0				
5	Kottayam	4	4				
6	Idukki	0	0				
7	Ernakulam	4	4				
8	Thrissur	4	4				
9	Palakkad	4	4				
10	Malappuram	4	4				
11	Kozhikode	4	4				
12	Wayanad	0	0				
13	Kannur	4	4				
14	Kasargod	4	4				
State Total		40	38	2			

Table 14(iii)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA		YEAR: 2019-20		SEASON: PERENNIAL		CROP: PEPPER		STATE SAMPLE												
Sl. No.	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others					
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total	
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvananthapuram	4	2	485.05	0	0	2	485.05	0	0	2	101.56	2	101.56	2	485.05	2	101.56	4	293.3
2	Kollam	4	0	0	0	0	0	0	0	0	4	301.19	4	301.19	0	0	4	301.19	4	301.19
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	4	0	0	2	369.2	2	369.2	0	0	2	181.48	2	181.48	0	0	4	275.34	4	275.34
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	2	117.69	1	87.99	3	107.79	1	125.39	0	0	1	125.39	3	120.25	1	87.99	4	112.19
8	Thrissur	4	0	0	0	0	0	0	1	181.85	3	437.51	4	373.6	1	181.85	3	437.51	4	373.6
9	Palakkad	3	1	181.85	0	0	1	181.85	2	398.89	0	0	2	398.89	3	326.55	0	0	3	326.55
10	Malappuram	4	0	0	0	0	0	0	1	306.5	3	286.7	4	291.65	1	306.5	3	286.7	4	291.65
11	Kozhikode	4	0	0	1	256.64	1	256.64	0	0	3	244.91	3	244.91	0	0	4	247.84	4	247.84
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	0	0	1	239.78	1	239.78	0	0	3	630.36	3	630.36	0	0	4	532.7	4	532.71
14	Kasargod	4	2	673.5	0	0	2	673.5	0	0	2	1356.53	2	1356.53	2	673.5	2	1356.53	4	1015.02
State Total		39	7	390.62	5	264.56	12	338.09	5	282.31	22	421.92	27	396.07	12	345.49	27	392.78	39	378.23

Table 14(iv)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA			YEAR: 2019-20						SEASON: PERENNIAL						CROP: PEPPER						CENTRAL SAMPLE					
Sl. No.	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others											
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total							
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21						
1	Thiruvananthapuram	4	0	0	0	0	0	0	2	525.75	2	560.58	4	543.16	2	525.75	2	560.58	4	543.16						
2	Kollam	4	0	0	0	0	0	0	0	0	4	527.4	4	527.4	0	0	4	527.4	4	527.4						
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
5	Kottayam	4	0	0	3	227.07	3	227.07	0	0	1	416.49	1	416.49	0	0	4	274.42	4	274.42						
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
7	Ernakulam	4	0	0	0	0	0	0	2	276.07	2	235.74	4	255.91	2	276.07	2	235.74	4	255.91						
8	Thrissur	4	1	717.9	0	0	1	717.86	2	199.08	1	417.96	3	272.04	3	372.01	1	417.96	4	383.49						
9	Palakkad	4	1	871.1	0	0	1	871.11	2	312	1	266.17	3	296.73	3	498.37	1	266.17	4	440.32						
10	Malappuram	4	1	220	0	0	1	219.98	2	348.67	1	124.65	3	273.99	3	305.77	1	124.65	4	260.49						
11	Kozhikode	4	0	0	2	814.65	2	814.65	0	0	2	371.4	2	371.4	0	0	4	593.02	4	593.02						
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
13	Kannur	4	0	0	2	711.26	2	711.26	1	939.31	1	373.23	2	656.27	1	939.31	3	598.58	4	683.76						
14	Kasargod	4	0	0	0	0	0	0	4	424.92	0	0	4	424.92	4	424.92	0	0	4	424.92						
State Total		40	3	603	7	533.29	10	554.2	15	397.48	15	402.9	30	400.19	18	431.73	22	444.39	40	438.69						

Table 14(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: PERENNIAL

CROP: PEPPER

STATE SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
		No. of Expts.		Rate of Application		No. of Expts.		Rate of Application		No. of Expts.		Rate of Application			
		No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No.	Yield Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	293.3	0	0	0	0	0	0	0	0	0	0	4	293.30
2	Kollam	4	301.19	0	0	0	0	0	0	0	0	0	0	4	301.19
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	4	275.34	0	0	0	0	0	0	0	0	0	0	4	275.34
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	112.19	0	0	0	0	0	0	0	0	0	0	4	112.19
8	Thrissur	4	373.6	0	0	0	0	0	0	0	0	0	0	4	373.6
9	Palakkad	3	326.55	0	0	0	0	0	0	0	0	0	0	3	326.55
10	Malappuram	4	291.65	0	0	0	0	0	0	0	0	0	0	4	291.65
11	Kozhikode	4	247.84	0	0	0	0	0	0	0	0	0	0	4	247.84
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	532.71	0	0	0	0	0	0	0	0	0	0	4	532.71
14	Kasargod	4	1015	0	0	0	0	0	0	0	0	0	0	4	1015.02
State Total		39	378.23	0	0	0	0	0	0	0	0	0	0	39	378.23

Table contd.

Table 14(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: PERENNIAL

CROP: PEPPER

STATE SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	4	293.30	4	293.30	0	0	0	0	0	0	4	293.30
2	Kollam	3	316.04	3	316.04	1	256.64	0	0	1	256.64	3	316.04
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	2	369.2	2	369.2	2	181.48	0	0	2	181.48	2	369.2
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	0	0	0	0	4	112.19	0	0	4	112.19	0	0
8	Thrissur	3	459.99	3	459.99	1	114.39	0	0	1	114.39	3	459.99
9	Palakkad	2	347.93	2	347.93	1	283.77	0	0	1	283.77	2	347.93
10	Malappuram	1	285.24	1	285.24	3	293.79	0	0	3	293.79	1	285.24
11	Kozhikode	1	256.64	1	256.64	3	244.91	0	0	3	244.91	1	256.64
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	0	0	0	0	4	532.71	0	0	4	532.71	0	0
14	Kasargod	1	750.86	1	750.86	3	1103.07	0	0	3	1103.07	1	750.86
State Total		17	366.37	17	366.37	22	387.39	0	0	22	387.39	17	366.37

Table 14(vi)

**CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS**  
**STATE: KERALA      YEAR: 2019-20      SEASON: PERENNIAL      CROP: PEPPER      CENTRAL SAMPLE**

Sl. No.	District	Experiments Checked at Harvest & Post Harvest stage		Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
								No. of Expts.					Rate of Application				
		No.	Yield Rate	No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No.	Yield Rate
<i>1</i>	<i>2</i>		<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>		
1	Thiruvananthapuram	4	543.16	2	525.75	0	0	0	0	0	0	0	0	0	4	543.16	
2	Kollam	4	527.39	4	527.39	0	0	0	0	0	0	0	0	0	4	527.39	
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Kottayam	4	274.42	4	274.42	0	0	0	0	0	0	0	0	0	4	274.42	
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	Ernakulam	4	255.91	4	255.91	0	0	0	0	0	0	0	0	0	4	255.91	
8	Thrissur	4	383.49	4	383.49	1	717.86	1	1	1	1	717.86	13	0	46	3	272.04
9	Palakkad	4	440.32	4	440.32	0	0	0	0	0	0	0	0	0	4	440.32	
10	Malappuram	4	260.49	4	260.49	0	0	0	0	0	0	0	0	0	4	260.49	
11	Kozhikode	4	593.02	4	593.02	0	0	0	0	0	0	0	0	0	4	593.02	
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Kannur	4	683.77	4	683.77	0	0	0	0	0	0	0	0	0	4	683.77	
14	Kasargod	4	424.92	4	424.92	0	0	0	0	0	0	0	0	0	4	424.92	
<b>State Total</b>		<b>40</b>	<b>438.69</b>	<b>38</b>	<b>432.28</b>	<b>1</b>	<b>717.86</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>717.86</b>	<b>13</b>	<b>0</b>	<b>46</b>	<b>39</b>	<b>431.53</b>

Table contd.



Table 14(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: PERENNIAL

CROP: PEPPER

CENTRAL SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	3	536.26	3	536.26	1	563.88	0	0	1	563.88	3	536.26
2	Kollam	0	0	0	0	4	527.39	0	0	4	527.40	0	0
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	1	417.96	1	417.96	3	226.58	0	0	3	226.58	1	417.96
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	1	200.91	1	200.91	3	274.24	0	0	3	274.24	1	200.91
8	Thrissur	1	417.96	1	417.96	3	372.01	0	0	2	199.08	2	567.91
9	Palakkad	3	498.37	3	498.37	1	266.17	0	0	1	266.17	3	498.37
10	Malappuram	2	348.67	2	348.67	2	172.32	0	0	2	172.32	2	348.67
11	Kozhikode	2	814.65	2	814.65	2	371.39	0	0	2	371.40	2	814.65528
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	0	0	0	0	4	683.77	0	0	4	683.77	0	0
14	Kasargod	2	216.31	2	216.31	2	633.54	0	0	2	633.54	2	216.31
State Total		15	460	15	460	25	425.91	0	0	24	413.74	16	476.11

Table 15(i)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE: KERALA

YEAR:2019-20

STATE SAMPLE

SEASON: PERENNIAL

CROP: ARECANUT

Sl.No.	District	No. of Experiments		At postharvest	Lost	Rejected for analysis	For which schedules are not received
		Planned	Checked at harvest				
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	4	4				
2	Kollam	4	4				
3	Pathanamthitta	0	0				
4	Alappuzha	0	0				
5	Kottayam	4	4				
6	Idukki	0	0				
7	Ernakulam	4	4				
8	Thrissur	4	4				
9	Palakkad	4	4				
10	Malappuram	4	4				
11	Kozhikode	4	4				
12	Wayanad	0	0				
13	Kannur	4	4				
14	Kasargod	4	4				
State Total		40	40				

Table 15(ii)

**CROP-WISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED**

STATE: KERALA

YEAR:2019-20

CENTRAL SAMPLE

Sl. No.	District	SEASON: PERENNIAL		At postharvest	CROP: ARECANUT		
		Planned	Checked at harvest		Lost	Rejected for analysis	For which schedules are not received
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Thiruvananthapuram	4	4				
2	Kollam	4	4				
3	Pathanamthitta	0	0				
4	Alappuzha	0	0				
5	Kottayam	4	4				
6	Idukki	0	0				
7	Ernakulam	4	4				
8	Thrissur	4	4				
9	Palakkad	4	4				
10	Malappuram	4	4				
11	Kozhikode	4	4				
12	Wayanad	0	0				
13	Kannur	4	4				
14	Kasargod	4	4				
State Total		40	40				

Table 15(iii)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA			YEAR: 2019-20					SEASON: PERENNIAL					CROP: ARECANUT					STATE SAMPLE				
Sl. No.	District	No. of expts. Checked at harvest	HY Varieties						Other Varieties						Both HY & Others							
			Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total			
			No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
1	Thiruvananthapuram	4	0	0	0	0	0	0	0	0	4	762.27	4	762.27	0	0	4	762.27	4	762.27		
2	Kollam	4	0	0	0	0	0	0	0	0	4	1384.4	4	1384.4	0	0	4	1384.4	4	1384.4		
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	Kottayam	4	0	0	1	1074.79	1	1074.79	0	0	3	424.42	3	424.42	0	0	4	587.01	4	587.01		
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7	Ernakulam	4	0	0	0	0	0	0	3	779	1	1064.96	4	850.49	3	779	1	1064.96	4	850.49		
8	Thrissur	4	0	0	0	0	0	0	2	651.43	2	2077.42	4	1364.43	2	651.43	2	2077.42	4	1364.43		
9	Palakkad	4	2	1400.32	1	193.55	3	998.06	1	534.56	0	0	1	534.56	3	1111.73	1	193.55	4	882.19		
10	Malappuram	4	1	1533.36	1	1046.32	2	1289.84	1	1071.95	1	794.64	2	933.3	2	1302.65	2	920.48	4	1111.57		
11	Kozhikode	4	0	0	0	0	0	0	1	528.26	3	963.54	4	854.72	1	528.26	3	963.54	4	854.72		
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	Kannur	4	0	0	0	0	0	0	2	957.1	2	681.91	4	819.51	2	957.1	2	681.91	4	819.51		
14	Kasargod	4	1	1958.77	0	0	1	1958.77	3	2864.55	0	0	3	2864.55	4	2638.11	0	0	4	2638.11		
State Total		40	4	1573.19	3	771.55	7	1229.63	13	1252.5	20	1006.44	33	1103.37	17	1327.96	23	975.8	40	1125.47		

Unit: nuts/hect

Table 15(iv)

## ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

STATE: KERALA		YEAR: 2019-20						SEASON: PERENNIAL						CROP: ARECANUT						CENTRAL SAMPLE					
Sl. No.	District	No. of expts. Checked at harvest		HY Varieties				Other Varieties				Both HY & Others													
				Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total		Irrigated		UN-Irrigated		Total					
		No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21					
1	Thiruvananthapuram	4	0	0	0	0	0	0	0	0	4	562.59	4	562.59	0	0	4	562.59	4	562.59					
2	Kollam	4	0	0	0	0	0	0	0	0	4	1562.11	4	1562.11	0	0	4	1562.11	4	1562.11					
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
5	Kottayam	4	0	0	0	0	0	0	0	0	4	460.69	4	460.69	0	0	4	460.69	4	460.69					
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
7	Ernakulam	4	0	0	0	0	0	0	1	1908.06	3	1255.13	4	1418.36	1	1908.06	3	1255.13	4	1418.36					
8	Thrissur	4	2	1073.41	0	0	2	1073.41	2	1258.09	0	0	2	1258.09	4	1165.75	0	0	4	1165.75					
9	Palakkad	4	0	0	0	0	0	0	4	777.06	0	0	4	777.06	4	777.06	0	0	4	777.06					
10	Malappuram	4	0	0	1	1085.93	1	1085.93	1	766.68	2	630.35	3	675.8	1	766.68	3	782.21	4	778.33					
11	Kozhikode	4	0	0	0	0	0	0	0	0	4	745.33	4	745.33	0	0	4	745.33	4	745.33					
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
13	Kannur	4	0	0	0	0	0	0	1	491.7	3	1388.78	4	1164.51	1	491.7	3	1388.78	4	1164.51					
14	Kasargod	4	0	0	0	0	0	0	3	1595.33	1	1572.09	4	1589.52	3	1595.33	1	1572.09	4	1589.52					
<b>State Total</b>		<b>40</b>	<b>2</b>	<b>1073.41</b>	<b>1</b>	<b>1085.93</b>	<b>3</b>	<b>1077.58</b>	<b>12</b>	<b>1131.41</b>	<b>25</b>	<b>963.5</b>	<b>37</b>	<b>1017.95</b>	<b>14</b>	<b>1123.12</b>	<b>26</b>	<b>968.21</b>	<b>40</b>	<b>1022.43</b>					

Unit: nuts/hect

Table 15(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: PERENNIAL

CROP: ARECANUT

STATE SAMPLE

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers							Expts. Not treated with Fertilizers		
						No. of Expts.				Rate of Application					
		No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No.	Yield Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	762.27	0	0	0	0	0	0	0	0	0	0	4	762.27
2	Kollam	4	1384.4	0	0	0	0	0	0	0	0	0	0	4	1384.4
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	4	587.01	0	0	0	0	0	0	0	0	0	0	4	587.01
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	850.49	0	0	0	0	0	0	0	0	0	0	4	850.49
8	Thrissur	4	1364.43	0	0	0	0	0	0	0	0	0	0	4	1364.43
9	Palakkad	4	882.18	0	0	0	0	0	0	0	0	0	0	4	882.18
10	Malappuram	4	1111.57	0	0	0	0	0	0	0	0	0	0	4	1111.57
11	Kozhikode	4	854.72	0	0	1	1	1	1	528.26	14	14	14	3	963.54
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	819.51	0	0	0	0	0	0	0	0	0	0	4	819.51
14	Kasargod	4	2638.11	0	0	0	0	0	0	0	0	0	0	4	2638.11
<b>State Total</b>		<b>40</b>	<b>1125.47</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>528.26</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>39</b>	<b>1140.78</b>
<b>Unit:nuts/hect</b>														Table contd.....	

Table 15(v)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: PERENNIAL

CROP: ARECANUT

STATE SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	0	0	0	0	4	762.27	0	0	4	762.27	0	0
2	Kollam	3	1690.97	3	1690.97	1	464.69	0	0	1	464.69	3	1690.97
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	0	0	0	0	4	587.01	0	0	4	587.01	0	0
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	0	0	0	0	4	850.49	0	0	4	850.49	0	0
8	Thrissur	2	651.43	2	651.43	2	2077.42	0	0	2	2077.42	2	651.43
9	Palakkad	2	1383.62	2	1383.62	2	380.75	0	0	2	380.75	2	1383.62
10	Malappuram	3	1217.21	3	1217.21	1	794.64	1	1071.95	1	794.64	3	1217.21
11	Kozhikode	0	0	1	528.26	3	963.54	0	0	3	963.54	1	528.26
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	2	790.17	2	790.17	2	848.85	0	0	2	848.85	2	790.17
14	Kasargod	1	1958.77	1	1958.77	3	2864.55	0	0	3	2864.55	1	1958.77
<b>State Total</b>		<b>13</b>	<b>1256.44</b>	<b>14</b>	<b>1204.43</b>	<b>26</b>	<b>1082.95</b>	<b>1</b>	<b>1071.95</b>	<b>26</b>	<b>1082.95</b>	<b>14</b>	<b>1204.43</b>

Unit: nuts/hect

Table 15(vi)

**CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS**  
**STATE: KERALA      YEAR: 2019-20      SEASON: PERENNIAL      CROP: ARECANUT      CENTRAL SAMPLE**

Sl. No.	District	Expts. Checked at Harvest stage		Expts. Treated with Fertilizers only		Expts. With Fertilizers								Expts. Not treated with Fertilizers	
		No.	Yield Rate	No.	Yield Rate	No. of Expts.					Rate of Application			No.	Yield Rate
						N	P	K	Exclusive Total	Yield Rate	N	P	K		
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>
1	Thiruvananthapuram	4	562.59	0	0	0	0	0	0	0	0	0	0	4	562.59
2	Kollam	4	1652.11	0	0	0	0	0	0	0	0	0	0	4	1652.11
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	4	460.69	0	0	0	0	0	0	0	0	0	0	4	460.69
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	4	1418.37	0	0	0	0	0	0	0	0	0	0	4	1418.37
8	Thrissur	4	1165.75	0	0	0	0	0	0	0	0	0	0	4	1165.75
9	Palakkad	4	777.06	0	0	0	0	0	0	0	0	0	0	4	777.06
10	Malappuram	4	778.33	0	0	0	0	0	0	0	0	0	0	4	778.33
11	Kozhikode	4	745.33	0	0	0	0	0	0	0	0	0	0	4	745.33
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	4	1164.51	0	0	0	0	0	0	0	0	0	0	4	1164.51
14	Kasargod	4	1589.52	0	0	2	2	0	2	1821.42	234.5	66	0	2	1357.62
<b>State Total</b>		<b>40</b>	<b>1022.43</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>2</b>	1821.42	<b>234.5</b>	<b>66</b>	<b>0</b>	<b>38</b>	<b>980.37</b>

Table contd.

Unit:nuts/hect



Table 15(vi)

## CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA

YEAR: 2019-20

SEASON: PERENNIAL

CROP: ARECANUT

CENTRAL SAMPLE

Sl. No.	District	Expts. Treated with manure only		Expts. Treated with manure		Expts. Not Treated with manure		Expts. Treated (both) with Fertilizers & Manure		Expts. not Treated with Fertilizers & Manure		Expts. Treated with Fertilizers or Manure or both	
		No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate	No	Yield Rate
<i>1</i>	<i>2</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>
1	Thiruvananthapuram	0	0	0	0	4	562.59	0	0	4	562.59	0	0
2	Kollam	0	0	0	0	4	1562.11	0	0	4	1562.11	0	0
3	Pathanamthitta	0	0	0	0	0	0	0	0	0	0	0	0
4	Alappuzha	0	0	0	0	0	0	0	0	0	0	0	0
5	Kottayam	0	0	0	0	4	460.69	0	0	4	460.69	0	0
6	Idukki	0	0	0	0	0	0	0	0	0	0	0	0
7	Ernakulam	1	1908.06	1	1908.06	3	1255.13	0	0	3	1255.13	1	1908.06
8	Thrissur	2	1258.09	2	1258.09	2	1073.41	0	0	2	1073.41	2	1258.09
9	Palakkad	4	777.06	4	777.06	0	0	0	0	0	0	4	777.06
10	Malappuram	0	0	0	0	4	778.33	0	0	4	778.33	0	0
11	Kozhikode	3	930.38	3	930.38	1	190.17	0	0	1	190.17	3	930.38
12	Wayanad	0	0	0	0	0	0	0	0	0	0	0	0
13	Kannur	1	491.71	1	491.71	3	1388.78	0	0	3	1388.78	1	491.71
14	Kasargod	2	1357.62	4	1589.52	0	0	2	1821.42	0	0	4	1589.52
<b>State Total</b>		<b>13</b>	<b>1040.81</b>	<b>15</b>	<b>1144.89</b>	<b>25</b>	<b>948.94</b>	<b>2</b>	<b>1821.42</b>	<b>25</b>	<b>948.94</b>	<b>15</b>	<b>1144.89</b>

Unit:nuts/hect

Table 16(i)

**State wise Position of Supply and Use of Equipments**  
**State: Kerala**                      **Year: 2019-20**

Crop	Agency	Item of Equipment	No of experiments supervised (Harvest and Postharvest) for which equipment was												Information about supply not available	Total of columns 8,13 & 14
			Supplied						Not Supplied							
			And Used	But used locally procured one		But not used though required	But not required to be used	Total	Used locally procured one		And also not used though required	As not required	Total			
				Standard	Non-Standard				Standard	Non-Standard						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Paddy (Autumn)	s	Tape	99	0	0	0	0	99	0	0	0	0	0	0	0	99
		Balance	99	0	0	0	0	99	0	0	0	0	0	0	0	99
		Weight	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Pegs	99	0	0	0	0	99	0	0	0	0	0	0	0	99
	c	Tape	97	1	0	0	0	98	0	0	0	0	0	0	0	98
		Balance	87	7	0	0	2	96	2	0	0	0	0	2	0	98
		Weight	23	0	0	0	0	23	0	0	0	8	8	0	0	31
		Pegs	48	8	3	0	0	59	19	20	0	0	39	0	0	98
Paddy (Winter)	s	Tape	100	0	0	0	0	100	0	0	0	0	0	0	0	100
		Balance	100	0	0	0	0	100	0	0	0	0	0	0	0	100
		Weight	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Pegs	100	0	0	0	0	100	0	0	0	0	0	0	0	100
	c	Tape	91	5	0	0	0	96	3	0	0	0	0	3	0	99
		Balance	87	6	0	0	1	94	4	0	0	1	5	0	0	99
		Weight	21	1	0	0	3	25	3	1	0	2	6	0	0	31
		Pegs	52	6	5	0	1	64	18	14	0	3	35	0	0	99
Paddy (Summer)	s	Tape	57	0	0	0	0	57	0	0	0	0	0	0	0	57
		Balance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Weight	57	0	0	0	0	57	0	0	0	0	0	0	0	57
		Pegs	57	0	0	0	0	57	0	0	0	0	0	0	0	57
	c	Tape	49	4	0	0	0	53	0	0	0	0	0	0	0	53
		Balance	47	6	0	0	0	53	0	0	0	0	0	0	0	53
		Weight	13	2	0	0	0	15	0	0	0	6	6	0	0	21
		Pegs	37	4	0	0	0	41	10	2	0	0	12	0	0	53

Table 16(ii)

**State wise Position of Supply and Use of Equipments**  
**State: Kerala Year: 2019-20**

Crop	Agency	Item of Equipment	No of experiments supervised (Harvest and Postharvest) for which equipment was												Information about supply not available	Total of columns 8,13 & 14
			Supplied						Not Supplied							
			And used	But used locally procured one		But not used though required	But not required to be used	Total	Used locally procured one		And also not used though required	As not required	Total			
				Standard	Non-Standard				Standard	Non-Standard						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Tapioca	S	Tape	37	0	0	0	0	37	0	0	0	0	0	0	0	37
		Balance	37	0	0	0	0	37	0	0	0	0	0	0	0	37
		Weight	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Pegs	37	0	0	0	0	37	0	0	0	0	0	0	0	37
	C	Tape	34	0	0	0	0	34	4	0	0	0	4	0	0	38
		Balance	34	2	0	0	0	36	2	0	0	0	2	0	0	38
		Weight	3	1	0	0	7	11	0	0	0	2	2	0	0	13
		Pegs	16	0	0	0	8	24	7	3	0	4	14	0	0	38
Banana	S	Tape	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Balance	46	0	0	0	0	46	0	0	0	0	0	0	0	46
		Weight	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Pegs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	C	Tape	0	0	0	0	17	17	0	0	0	0	0	0	0	17
		Balance	40	8	0	0	0	48	1	0	0	0	1	0	0	49
		Weight	3	3	0	0	6	12	0	0	0	5	5	0	0	17
		Pegs	0	0	0	0	14	14	0	0	0	3	3	0	0	17
Coconut	S	Tape	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Balance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Weight	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Pegs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	C	Tape	0	0	0	0	10	10	0	0	0	0	0	0	0	10
		Balance	0	0	0	0	8	8	0	0	0	0	0	0	0	10
		Weight	0	0	0	0	8	8	0	0	0	2	2	0	0	10
		Pegs	0	0	0	0	8	8	0	0	0	2	2	0	0	10

Table 16(ii)

State wise Position of Supply and Use of Equipments  
 State: Kerala  
 Year: 2019-20

Crop	Agency	Item of Equipment	No of experiments supervised (Harvest and Postharvest) for which equipment was												Information about supply not available	Total of columns 8,13 & 14	
			Supplied						Not Supplied								
			And used	But used locally procured one		But not used though required	But not required to be used	Total	Used locally procured one		And also not used though required	As not required	Total				
				Standard	Non-Standard				Standard	Non-Standard							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Pepper	s	Tape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Balance	39	0	0	0	0	39	0	0	0	0	0	0	0	39	
		Weight	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Pegs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	c	Tape	0	0	0	0	12	12	0	0	0	0	0	0	0	0	12
		Balance	38	0	0	0	0	38	2	0	0	0	0	2	0	40	
		Weight	11	0	0	0	0	11	0	0	0	1	1	0	0	12	
		Pegs	0	0	0	0	12	12	0	0	0	0	0	0	0	0	12
Arecanut	s	Tape	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Balance	40	0	0	0	0	40	0	0	0	0	0	0	0	40	
		Weight	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Pegs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	c	Tape	0	0	0	0	12	12	0	0	0	0	0	0	0	0	12
		Balance	38	1	0	0	0	39	1	0	0	0	0	1	0	40	
		Weight	14	0	0	0	0	14	0	0	0	2	2	0	0	16	
		Pegs	0	0	0	0	10	10	0	0	0	2	2	0	0	12	

Table 17(i)

## Comparison of Yield Rates (Kg/Ha) of Rice Under GCES and ICS 2019-20

State: Kerala

Year: 2019-20

Sl. No.	District	Autumn			Winter			Summer		
		GCES	ICS		GCES	ICS		GCES	ICS	
			State Sample	Central Sample		State Sample	Central Sample		State Sample	Central Sample
1	Thiruvananthapuram	2534	1739.58	1839.92	2498	2408.65	2157.23	2427	3042.95	1787.91
2	Kollam	2004	2105.72	2298.18	2005	1265.86	1910.29	1940	1089.56	1169.06
3	Pathaanamthitta	821	1890.58	1919.08	2506	3026.48	2944.46	3425	2850.23	3628.37
4	Alappuzha	2015	2267.38	1154.23	3009	2170.44	2239.04	3668	5150.92	3972.98
5	Kottayam	1868	1778.68	2583.34	2821	2155.43	2594.01	3018	3087.29	0.026
6	Idukki	1883	1704.39	2231.01	2490	2522.06	3378.35	2405	1475.21	1939.19
7	Ernakulam	1591	1977.08	1894.94	2481	2514.40	1998.08	2720	2500.06	2075.32
8	Thrissur	1746	1929.60	1338.35	2885	3077.66	3892.13	4036	3514.74	5204.75
9	Palakkad	2959	1949.53	2483.72	3467	3222.28	3363.83	3321	2693.63	4256.32
10	Malappuram	1830	1472.47	2048.18	2988	3259.82	3039.95	3994	-	4909.32
11	Kozhikode	1085	1167.90	1023.19	1192	1276.54	769.22	1698	1991.91	1858.45
12	Wayanad	-	-	-	2670	2273.93	2221.66	1953	3043.64	2679.47
13	Kannur	2271	1372.43	2197.06	2096	2392.91	2012.37	2718	2447.01	1545.42
14	Kasargod	2220	2811.13	2434.76	1959	1882.46	2155.03	2349	2157.69	2765.08
<b>State Total</b>		<b>2614</b>	<b>1787.09</b>	<b>1883.37</b>	<b>3058</b>	<b>2459.75</b>	<b>2486.21</b>	<b>3540</b>	<b>2486.2</b>	<b>2377.55</b>

Table 17(ii)

## Comparison of Yield Rates (Kg/Ha) of Important Crops Under GCES and ICS 2019-20

State: Kerala

Year:2019-20

Sl. No.	District	Tapioca			Banana		
		GCES	ICS		GCES	ICS	
			State Sample	Central Sample		State Sample	Central Sample
1	Thiruvananthapuram	36062	34593.75	31843.75	9134	13558.33	15716.67
2	Kollam	37879	37956.25	18718.75	6834	13558.33	12483.33
3	Pathaanamthitta	49363	-	-	8053	-	-
4	Alappuzha	41598	-	-	6209	10511.11	10216.67
5	Kottayam	47437	44000	27656.25	9800	15516.67	20157.33
6	Idukki	46709	-	-	9917	-	-
7	Ernakulam	53075	32187.5	35625	8671	12191.67	14008.33
8	Thrissur	46718	23812.5	43062.5	8101	18722.22	13760
9	Palakkad	47700	25156.25	17937.5	8973	17394.44	13722.22
10	Malappuram	33783	64500	20843.75	8750	21633.33	16427.78
11	Kozhikode	35204	18406.25	30968.75	7862	13133.33	10583.33
12	Wayanad	42340	-	-	9727	-	-
13	Kannur	37964	26250	73125	10331	19708.33	18591.67
14	Kasargod	31493	28718.75	29687.5	11048	16858.33	16800.00
State Total		41770	30616.89	33736.84	9038	15896.38	14649.63

Table 17(ii)

## Comparison of Yield Rates (Kg/Ha) of Important Crops Under GCES and ICS 2019-20

State: Kerala

Year: 2019-20

Sl. No.	District	Coconut			Pepper			Arecanut		
		GCES	ICS		GCES	ICS		GCES	ICS	
			State Sample	Central Sample		State Sample	Central Sample		State Sample	Central Sample
1	Thiruvananthapuram	6025	4744.3	11667.8	311	293.3	543.16	398	762.27	562.59
2	Kollam	6417	4473	7245	298	301.19	527.4	521	1384.4	1562.11
3	Pathaanamthitta	4733		-	322	-	-	553	-	-
4	Alappuzha	5847	6043.5	6280.5	193	-	-	273	-	-
5	Kottayam	4044	3456.1	952.3	334	275.34	274.42	475	587.01	460.69
6	Idukki	4114		-	480		-	349	-	-
7	Ernakulam	3918	5350.4	7231.4	225	112.19	255.91	724	850.49	1418.36
8	Thrissur	6749	7065.8	10471.67	265	373.6	383.49	759	1364.43	1165.75
9	Palakkad	7906	10230.5	5221.9	375	326.55	440.32	749	882.19	777.06
10	Malappuram	7383	8785.07	8429.33	206	291.67	260.49	661	1111.57	778.33
11	Kozhikode	6451	14308.25	7568	256	247.84	593.02	634	854.72	745.33
12	Wayanad	5441		-	358		-	435	-	
13	Kannur	4742	6499.5	4368	451	534.71	683.76	801	819.51	1164.51
14	Kasargod	8578	5395.8	4987.8	511	1015.02	424.92	2127	2638.11	1589.52
<b>State Total</b>		<b>6328</b>	<b>7151.43</b>	<b>6918.81</b>	<b>412</b>	<b>378.23</b>	<b>438.69</b>	<b>957</b>	<b>1125.47</b>	<b>1022.43</b>



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