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ANNUAL REVIEW OF CROP STATISTICS SYSTEM IN KERALA

Directorate of Economics & Statistics



ANNUAL REVIEW OF CROP STATISTICS SYSTEM IN KERALA THROUGH THE SCHEME FOR IMPROVEMENT OF CROP STATISTICS 2021-22

DEPARTMENT OF ECONOMICS & STATISTICS KERALA

PREFACE

Department of Economics & Statistics is the nodal agency for collecting agricultural statistics in the State and Director of Economics & Statistics is the State Agricultural Statistics Authority (SASA). "Establishment of an Agency for Reporting Agricultural Statistics" is a 100% 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 being 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 supervisory staff of NSO (FOD) and State Government on a matching basis in two-overlapping samples is a super check for rectifying the non-sampling error. For this purpose the Scheme "Improvement of Crop Statistics (ICS)" was taken up in the year 1975-76. 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.

NSO (FOD) publishes findings of sample check every year highlighting issues in each and every State. The Department of Economics & Statistics, Kerala also publishes a report with analysis of results of the sample check every year titled "Annual Review of Crop Statistics System in Kerala through the Scheme for Improvement of Crop Statistics".

This report is prepared by the EARAS Division of the Directorate of Economics and Statistics, Government of Kerala under the supervision of Smt. K. Haleema Beegum, Joint Director (EARAS) under the guidance of Sri.T.P. Vinodan, Additional Director (Prices). I would like to extend my sincere appreciation to all the staff engaged in the preparation of the report. I hope that this publication will help in improving the quality of Crop Statistics in Kerala.

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CONTENTS

Sl. No.	Subject	Page No.
	Executive Summary	VII-IX
1	Introduction	1
1	Scheme for Improvement of Crop Statistics (ICS)	1
2	General Crop Estimation Surveys (GCES)	3
3	Timely Reporting Scheme (TRS)	3
4	Establishment of an Agency for Reporting Agricultural Statistics (EARAS)	3
5	District Level Committee (DLC)	4
2	Analysis of Data 2021-22	5
2.1	Check on Area Enumeration	5
1	Response in Sample Check on Area Enumeration during 2021-22	5
Table 1	Response in sample check on enumeration of area during 2021-22 – Autumn, Winter, Summer	6
Table 1a	Response in Sample check on enumeration of area during 2021-22 Summer dry	7
2	Completion of Area Enumeration under EARAS	8
Chart 1	Completion of Girdawari- 2021-22 - Autumn	9
Chart 2	Completion of Girdawari- 2021-22 –Winter	10
Chart 3	Completion of Girdawari- 2021-22 –Summer	11
Chart 4	Completion of Girdawari- 2021-22 –Summer dry	12
Table 2	Timeliness in completion of girdawari during 2021-22 - Autumn, Winter, Summer	13
Table 2a	Timeliness in completion of girdawari during 2021- 22 Summer dry	14
3	Submission of EARAS Statement	15
Table 3	Timeliness in submission of EARAS statement during 2021-22 - Autumn, Winter, Summer	17
Table 3a	Timeliness in submission of EARAS statement during 2021-22 Summer dry	20
4	Discrepancies in recording crop and crop areas	21
Chart 5	Errors in Recording crops and crop areas -2021-22 -Autumn	22

Chart 6	Errors in Recording crops and crop areas -2021-22 - Winter	23
Chart 7	Errors in Recording crops and crop areas-2021-22 -Summer	24
Table 4	Percentage of survey numbers in which errors in recording crop areas were observed during 2021-22 – Autumn, Winter, Summer	25
Table 4(a)	Percentage of survey numbers in which errors in recording crop areas were observed during 2021-22 - Summer dry	26
5	Discrepancies in recording Irrigation particulars of Paddy	27
Table 5(a)	During 2021-22 - Autumn	28
Table 5(b)	During 2021-22 - Winter	29
Table 5(c)	During 2021-22 - Summer	30
Table 5(d)	During 2021-22 - Summer dry	31
6	Discrepancies in recording variety particulars of seed used	32
Table 6(a)	During 2021-22 - Autumn	33
Table 6(b)	During 2021-22 - Winter	34
Table 6(c)	During 2021-22 - Summer	35
Table 6(d)	During 2021-22 - Summer dry	36
Table 6(d) 2.2	During 2021-22 - Summer dry Check On Crop Cutting Experiments	36 37
	·	
2.2	Check On Crop Cutting Experiments	37
2.2	Check On Crop Cutting Experiments Response in Sample check on Crop Cutting Experiments Response in sample check on crop cutting experiments for	37 37
2.2 1 Table 7	Check On Crop Cutting Experiments Response in Sample check on Crop Cutting Experiments Response in sample check on crop cutting experiments for paddy during 2021-22	37 37 37
2.2 1 Table 7 2	Check On Crop Cutting Experiments Response in Sample check on Crop Cutting Experiments Response in sample check on crop cutting experiments for paddy during 2021-22 Distribution of number of experiments conducted Distribution of number of experiments conducted according to	37 37 37 38
2.2 1 Table 7 2 2.1	Check On Crop Cutting Experiments Response in Sample check on Crop Cutting Experiments Response in sample check on crop cutting experiments for paddy during 2021-22 Distribution of number of experiments conducted Distribution of number of experiments conducted according to important inputs	37 37 37 38 39
2.2 1 Table 7 2 2.1 Table 8 (i)	Check On Crop Cutting Experiments Response in Sample check on Crop Cutting Experiments Response in sample check on crop cutting experiments for paddy during 2021-22 Distribution of number of experiments conducted Distribution of number of experiments conducted according to important inputs For Autumn Paddy	37 37 37 38 39 39
2.2 1 Table 7 2 2.1 Table 8 (i) Table 8(ii)	Check On Crop Cutting Experiments Response in Sample check on Crop Cutting Experiments Response in sample check on crop cutting experiments for paddy during 2021-22 Distribution of number of experiments conducted Distribution of number of experiments conducted according to important inputs For Autumn Paddy For Winter Paddy	37 37 38 39 39 41
2.2 1 Table 7 2 2.1 Table 8 (i) Table 8(ii) Table 8(iii)	Check On Crop Cutting Experiments Response in Sample check on Crop Cutting Experiments Response in sample check on crop cutting experiments for paddy during 2021-22 Distribution of number of experiments conducted Distribution of number of experiments conducted according to important inputs For Autumn Paddy For Winter Paddy For Summer Paddy	37 37 38 39 39 41 43
2.2 1 Table 7 2 2.1 Table 8 (i) Table 8 (ii) Table 8 (iii) Table 8 (iv)	Check On Crop Cutting Experiments Response in Sample check on Crop Cutting Experiments Response in sample check on crop cutting experiments for paddy during 2021-22 Distribution of number of experiments conducted Distribution of number of experiments conducted according to important inputs For Autumn Paddy For Winter Paddy For Summer Paddy For Tapioca	37 37 38 39 39 41 43 45

Table 8(viii)	For Arecanut	53
2.2	Crop-wise number of experiments planned for check at harvest and the response achieved	55
Table 9 (i)	For Autumn Paddy in State sample	55
Table 9(ii)	For Autumn Paddy in Central sample	56
Table 9(iii)	For Winter Paddy in State sample	57
Table 9(iv)	For Winter Paddy in Central sample	58
Table 9(v)	For Summer Paddy in State sample	59
Table 9(vi)	For Summer Paddy in Central sample	60
Table 9(vii)	For Banana in State sample	61
Table 9(viii)	For Banana in Central sample	62
Table 9(ix)	For Tapioca in State sample	63
Table 9(x)	For Tapioca in Central sample	64
Table 9(xi)	For Coconut in State sample	65
Table 9(xii)	For Coconut in Central sample	66
Table 9(xiii)	For Pepper in State sample	67
Table 9(xiv)	For Pepper in Central sample	68
Table 9(xv)	For Arecanut in State sample	69
Table 9(xvi)	For Arecanut in Central sample	70
3	Procedural Deviations and Discrepancies	70
4	Estimation on Average Yield Rates	71
4.1	Estimated yield rates of high yielding and other varieties of crops for irrigated and unirrigated	71
Table 10 (i)	For Autumn Paddy in State sample	72
Table 10(ii)	For Autumn Paddy in Central sample	73
Table 10(iii)	For Winter Paddy in State sample	74
Table 10(iv)	For Winter Paddy in Central sample	75
Table 10(v)	For Summer Paddy in State sample	76
Table 10(vi)	For Summer Paddy in Central sample	77

Table 10(vii)	For Banana in State sample	78
Table 10(viii)	For Banana in Central sample	79
Table 10(ix)	For Tapioca in State sample	80
Table 10(x)	For Tapioca in Central sample	81
Table 10(xi)	For Coconut in State sample	82
Table 10(xii)	For Coconut in Central sample	83
Table 10(xiii)	For Pepper in State sample	84
Table 10(xiv)	For Pepper in Central sample	85
Table 10(xv)	For Arecanut in State sample	86
Table 10(xvi)	For Arecanut in Central sample	87
4.2	Crop wise rate of application of fertilizers and differential yield rates according to inputs	88
Table 11 (i)	For Autumn Paddy in State sample	88
Table 11(ii)	For Autumn Paddy in Central sample	90
Table 11(iii)	For Winter Paddy in State sample	92
Table 11(iv)	For Winter Paddy in Central sample	94
Table 11(v)	For Summer Paddy in State sample	96
Table 11(vi)	For Summer Paddy in Central sample	98
Table 11(vii)	For Banana in State sample	100
Table 11(viii)	For Banana in Central sample	102
Table 11(ix)	For Tapioca in State sample	104
Table 11(x)	For Tapioca in Central sample	106
Table 11(xi)	For Coconut in State sample	108
Table 11(xii)	For Coconut in Central sample	110
Table 11(xiii)	For Pepper in State sample	112
Table 11(xiv)	For Pepper in Central sample	114
Table 11(xv)	For Arecanut in State sample	116
Table 11(xvi)	For Arecanut in Central sample	118

5	Supply and use of Crop Cutting Equipment	120
Table 12 (i)	State wise Position of Supply and Use of Equipment for Paddy	120
Table 12(ii)	State wise Position of Supply and Use of Equipment for Annual Crops	122
Table 12(iii)	State wise Position of Supply and Use of Equipment for Perennial Crops	123
6	Comparison of ICS and GCES yield Estimates	124
Table 13 (i)	Comparison of Yield Rates (Kg/Ha) of Rice Under GCES and ICS for Paddy	125
Table 13(ii)	Comparison of Yield Rates (Kg/Ha) of Rice Under GCES and ICS for Annual Crops	126
Table 13(iii)	Comparison of Yield Rates (Kg/Ha) of Rice Under GCES and ICS for Perennial Crops	127
Chart 8	Trend of Yield rates of rice under ICS and GCES-Autumn 2017-18 to 2021-22	128
Chart 9	Trend of Yield rates of rice under ICS and GCES -Winter 2017-18 to 2021-22	129
Chart 10	Trend of Yield rates of rice under ICS and GCES-Summer 2017-18 to 2021-22	130
Chart 11	District wise Yield Rates of rice – ICS & GCES- Autumn 2021-22	131
Chart 12	District wise Yield Rates of rice – ICS & GCES - Winter 2021-22	132
Chart 13	District wise Yield Rates of rice – ICS & GCES Summer- 2021-22	133
Chart 14	Season wise Yield Rate for rice under GCES & ICS-2021-22	134
Chart 15	District wise Yield Rate of Tapioca under GCES & ICS-2021-22	135
Chart 16	District wise Yield Rate of Banana under GCES & ICS-2021-22	136
Chart 17	District wise Yield Rate of Coconut under GCES & ICS - 2021-22	137
Chart 18	District wise Yield Rate of Pepper under GCES & ICS – 2021-22	138
Chart 19	District wise Yield Rate of Arecanut under GCES & ICS - 2021-22	139
Chart 20	Crop wise Yield Rates of Important Crops under GCES & ICS –2021-22	140
Table 14	Trend of yield rates (kg/ha) of rice under GCES & ICS 2017-18 to 2021-22	141
15	List of Abbreviations used	142

EXECUTIVE SUMMARY

To improve the quality and reliability of area and yield statistics, the scheme for Improvement of Crop Statistics (ICS) was introduced in 1975-76. As a part of Improvement of Crop statistics, NSO and Department of Economics & Statistics are jointly conducting sample check study and preparing reports to find out the deficiencies and shortcomings in conducting area enumeration and crop estimation survey in the EARAS scheme and to give suggestions for solving them.

Area Enumeration

- 1. During Autumn, Winter and Summer seasons, the Timeliness of completion of study in wet clusters are 95%, 97.5%, 100% for Central Sample and 86.25%, 90% & 90% for State Sample respectively. Whereas the same in the case of Summer Dry is 71.25% and 100% for Central & State sample.
- 2. The EARAS statements were submitted by due date after completing Girdawari in 82.5% cases during Autumn, 80% cases during Winter and 78.75% cases during Summer and 38.75% cases during Summer Dry for Central Sample and 65%, 87.5%, 86.25% and 86.25% respectively for state sample.
- 3. Date of submission of EARAS statements were not reported in 3.75% cases during Autumn, 2.5% cases during Winter, 5% cases during Summer and 58.75% cases during Summer Dry for Central Sample and 0%, 2.5%, 3.75% and 6.25% respectively for state sample.
- 4. Crop areas reported by primary workers did not tally with those observed by the ICS supervisors in some cases. Non reporting of crops actually grown in 0.73% of central samples in Winter, reporting of crops actually not grown in 0.95% of central samples in Summer and reporting incorrect area in 0.90% of central samples in Autumn and 1.09% of central samples in Winter. Reporting of incorrect area in 3.80% of state samples in Autumn, 3.22% of state samples in Winter and 2.3% of state samples in Summer. These errors should be avoided.

Crop cutting Experiments

- 1. The participation by the supervisors in sample check on crop cutting experiments at harvest stage was 100% for Central sample and State Sample during Autumn, Winter, Summer and Summer dry seasons respectively for the year 2021-22.
- 2. For the year 2021-22, 99.10%, 98.18% and 99.05% experiments of Central Samples and 96.20%, 96.78% and 97.7% of State Sample were found to be free from procedural errors during Autumn, Winter and Summer respectively.
- 3. Standard equipments supplied by the department were used in crop cutting experiments for Central and State Samples.

നിർവ്വാഹക സംക്ഷിപ്പം (Executive Summary)

വിസ്തതിയുടേയും വിളവിന്റേയും സ്ഥിതിവിവരക്കണക്കുകളുടെ ഗുണനിലവാരവും, വിശ്വാസ്യതയും ഇംപ്രവ്മെന്റ് ഓഫ് ക്രോപ്പ് മെച്ചപ്പെടുത്തുന്നതിന് (ഐസിഎസ്) എന്ന സ്കീം 1975–76 ൽ ആരംഭിച്ച. വിള സ്ഥിതിവിവരക്കണക്കകൾ ഏരിയ മെച്ചപ്പെടുത്തുന്നതിന്റെ ഭാഗമായി, ഇഎആർഎഎസ് പദ്ധതിയിലെ എന്നിവയിലെ എസ്റ്റിമേഷൻ കണ്ടെത്തി എനുമറേഷൻ, ക്രോപ് പോരായ്യകൾ പരിഹരിക്കുന്നതിനുള്ള നിർദ്ദേശങ്ങൾ നൽകുന്നതിന് എൻഎസ്ഒ–യും സാമ്പത്തിക സ്ഥിതിവിവരക്കണക്ക് വകുപ്പം സാമ്പിൾ ചെക്ക് പഠനം നടത്തി റിപ്പോർട്ടകൾ തയ്യാറാക്കുന്നു.

ഏരിയ എന്യമറേഷൻ

- 1. വിരിപ്പ്, മുണ്ടകൻ, പുഞ്ച സീസണുകളിൽ, നിലം ക്ലസ്റ്ററ്റുകളിൽ പരിശോധന യഥാസമയം പൂർത്തിയാക്കിയത് സെൻട്രൽ സാമ്പിളിൽ യഥാക്രമം 95%, 97.5%, 100% എന്നിങ്ങനെയും , സ്റ്റേറ്റ് സാമ്പിളിൽ 86.25%, 90%, 90% എന്നിങ്ങനെയുമാണ്. പുഞ്ച സീസണിലെ കര ക്ലസ്റ്ററിൽ, ഇത് സെൻട്രൽ സാമ്പിളിന് 71.25% ഉം സ്റ്റേറ്റ് സാമ്പിളിന് 100% ഉം ആണ്.
- 2. എന്യൂമറേഷൻ പൂർത്തിയാക്കിയതിന് ശേഷം ഇഎആർഎഎസ് റിപ്പോർട്ടുകൾ യഥാസമയം സമർപ്പിച്ചത് സെൻട്രൽ സാമ്പിളിൽ– വിരിപ്പ് സീസണിൽ 82.5% ഉം, മുണ്ടകൻ സീസണിൽ 80% ഉം, പുഞ്ച (നിലം) സീസണിൽ 78.75% ഉം, പുഞ്ച (കര) സീസണിൽ 38.75% ഉം ആണ്. എന്നാൽ സ്റ്റേറ്റ് സാമ്പിളിൽ ഇവ യഥാക്രമം 65%, 87.5% , 86.25%, 86.25% എന്നിങ്ങനെയാണ്.
- 3. ഇഎആർഎഎസ് റിപ്പോർട്ടുകൾ സമർപ്പിച്ച തീയതി പല ഷെഡ്യൂളുകളിലും രേഖപ്പെടുത്തിയിട്ടില്ല. ആയത് സെൻട്രൽ സാമ്പിളിൽ വിരിപ്പ് സീസണിൽ 3.75% ഉം, മുണ്ടകൻ സീസണിൽ 2.5%, പുഞ്ച (നിലം) സീസണിൽ 5% ഉം, പുഞ്ച (കര) സീസണിൽ 58.75% ഉം ആണ്. എന്നാൽ സ്റ്റേറ്റ് സാമ്പിളിൽ ഇവ യഥാക്രമം 0%, 2.5%, 3.75%, 6.25% എന്നിങ്ങനെയാണ്.
- 4. ഇൻവെസ്റ്റിഗേറ്റർമാർ റിപ്പോർട്ട് ചെയ്ത ക്രോപ്പ് ഏരിയ ചില സന്ദർഭങ്ങളിൽ ICS സൂപ്പർവൈസർമാർ നിരീക്ഷിച്ച ഏരിയയുമായി പൊരുത്തപ്പെടുന്നില്ല. സെൻടൽ സാമ്പിളുകളിൽ മുണ്ടകൻ സീസണിൽ യഥാർത്ഥത്തിൽ വളരുന്ന വിളകൾ റിപ്പോർട്ട് ചെയ്യാത്തത് 0.73% ഉം, പുഞ്ച സീസണിൽ യഥാർത്ഥത്തിൽ വളരാത്ത വിളകൾ റിപ്പോർട്ട് ചെയ്തത് 0.95% ഉം ആണ്. സെൻടൽ സാമ്പിളുകളിൽ വിരിപ്പ് , മുണ്ടകൻ, പുഞ്ച സീസണകളിൽ തെറ്റായ ഏരിയ റിപ്പോർട്ട് ചെയ്തത് യഥാക്രമം 0.90%, 1.09%, 0% എന്നിങ്ങനെയും, സ്റ്റേറ്റ് സാമ്പിളുകളിൽ ഇവ യഥാക്രമം 3.80% , 3.22% , 2.3% ഉം ആണ്. ഈ തെറ്റുകൾ ഒഴിവാക്കേണ്ടതാണ്.

വിളവെടുപ്പ് പരീക്ഷണങ്ങൾ

- 1. 2021–22 –ൽ വിരിപ്പ്, മുണ്ടകൻ, പുഞ്ച (നിലം), പുഞ്ച (കര) സീസണുകളിൽ വിളവെടുപ്പ് ഘട്ടത്തിലെ പരിശോധനയിൽ സെൻട്രൽ സാമ്പിളിലും സ്റ്റേറ്റ് സാമ്പിളിലും സൂപ്പർവൈസർമാരുടെ പങ്കാളിത്തം 100% ആയിരുന്നു.
- 2. 2021–22–ൽ വിരിപ്പ്, മുണ്ടകൻ, പുഞ്ച (നിലം) സീസണുകളിൽ സെൻട്രൽ സാമ്പിളുകളുടെ 99.10%, 98.18%, 99.05% പരീക്ഷണങ്ങളും സ്റ്റേറ്റ് സാമ്പിളുകളുടെ 96.20%, 96.78%, 97.7% പരീക്ഷണങ്ങളും നടപടിക്രമങ്ങളിൽ പിഴവുകളില്ലാത്തതായി കണ്ടെത്തിയിട്ടുണ്ട്.
- 3. സെൻടൽ, സ്റ്റേറ്റ് സാമ്പിളകൾക്കായുള്ള വിളവെടുപ്പ് പരീക്ഷണങ്ങളിൽ വകുപ്പ് വിതരണം ചെയ്യുന്ന സ്റ്റാൻഡേർഡ് ഉപകരണങ്ങൾ ഉപയോഗിച്ചിട്ടുണ്ട്.

PART I

INTRODUCTION

Scheme for Improvement of Crop Statistics (ICS)

The scheme ICS which had a modest beginning in the year 1975-76 reached to the optimum coverage in the subsequent years. The scheme is closely related to the scheme TRS, EARAS & GCES and was initiated with the objective to point out the deficiencies in the system of collection of area and yield statistics through the joint efforts of NSO and DES and suggest 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 (GCES).

The position of crop production and procedure taken for collecting data on Area enumeration and Yield rate are included in this report. Details of equipments supplied, adequacy of experiments planned under General Crop Estimation Survey (GCES), response rate etc. are 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 study 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.

Sample check studies 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 Investigator 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, weighment of the produce etc. The supply and use of equipments for conducting the crop cutting 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, in 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 from 1975-76 to 1980-81 and the second cycle completed in 1985-86. During 1993-94 the Investigator Zones were recognized by suiting the villages to Panchayats. From 2000-01 onwards the part Panchayats was discontinued and each Investigator Zone was formed with full Panchayat/Panchayats. Cluster sampling method is followed in EARAS Scheme in order to obtain representation from the entire area of the Investigator Zone. The production of crops is 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)

The main objective in forming DLCs is to probe into the reasons for the wide difference or unusual similarity between the crop wise and non crop area figures recorded by the State primary worker during the crop enumeration and those observed by the Central/State Supervisor during sample check study on area enumeration under the scheme for Improvement of Crop Statistics (ICS). **District Level Committee would be formed in two districts** where the differences between the two sets of figures are quite large or negligible would be selected. The districts selected in the previous year may not be considered for the selection for the current year.

PART II

Analysis of Data 2021-22

2.1 Check on Area Enumeration

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

1) Response in Sample Check on Area Enumeration during 2021-22

The response in sample check on area enumeration ie; the number of Investigator zones for which filled in schedules were received during 2021-22 is given in Table-1&1(a). The response was 100% for all season for all districts for Central Sample & State Sample.

Table -1 **RESPONSE IN SAMPLE CHECK ON ENUMERATION OF AREA DURING 2021-22**

Sl.No.	District	Agency	Sample Size	Percentage of Respo		sponse
S1.11U.	District	Agency	Sample Size	Autumn	Winter	Summer
1	2	3	4	5	6	7
1	Thiruvananthapuram	C	5	100	100	100
•	Tima vanammaparam	S	5	100	100	100
2	Kollam	C	5	100	100	100
	Tronum	S	5	100	100	100
3	Pathanamthitta	C	3	100	100	100
	1 attiatiatititita	S	3	100	100	100
4	Alappuzha	C	3	100	100	100
-	Пирригни	S	3	100	100	100
5	Kottayam	C	7	100	100	100
		S	7	100	100	100
6	Idukki	C	8	100	100	100
· ·	TOURN	S	8	100	100	100
7	Ernakulam	C	5	100	100	100
,	Diffunction	S	5	100	100	100
8	Thrissur	C	5	100	100	100
	THISSUI	S	5	100	100	100
9	Palakkad	C	9	100	100	100
	T utumuu	S	9	100	100	100
10	Malappuram	C	7	100	100	100
10	171uiuppuiuiii	S	7	100	100	100
11	Kozhikkode	C	6	100	100	100
**	1205111111000	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
1	For District Covered	C	80	100	100	100
		S	80	100	100	100
C- Cent	tral Sample S-State Sample					

	Table-1 (a)							
RI	ESPONSE IN SAMPLEC	HECK ON ENU SUMME		REA DURING 2021-22				
Sl.No.	District	Agency	Sample Size	Percentage of Response				
1	2	3	4	5				
1	Thiruvananthapuram	C	5	100				
1	1 mi u vanantnapui am	S	5	100				
2	Kollam	C	5	100				
2	Konam	S	5	100				
3	Pathanamthitta	C	3	100				
3	i atnanamunta	S	3	100				
4	Alappuzha	C	3	100				
_	Anappuzna	S	3	100				
5	Kottayam	C	7	100				
,	Kottayam	S	7	100				
6	Idukki	C	8	100				
U	IUUKKI	S	8	100				
7	Ernakulam	C	5	100				
,	Ei nakulani	S	5	100				
8	Thrissur	C	5	100				
o	Tillissui	S	5	100				
0	Palakkad	C	9	100				
9	Palakkad	S	9	100				
10	N/-1	C	7	100				
10	Malappuram	S	7	100				
11	Kozhikode	C	6	100				
11	Koznikode	S	6	100				
10	Wayang	С	5	100				
12	Wayanad	S	5	100				
12	Kannun	С	7	100				
13	Kannur	S	7	100				
14	Wasawasad	С	5	100				
14	Kasaragod	S	5	100				
15	nu Diotoriot a a	С	80	100				
For District covered S 80 100								

2) Completion of Area Enumeration under EARAS

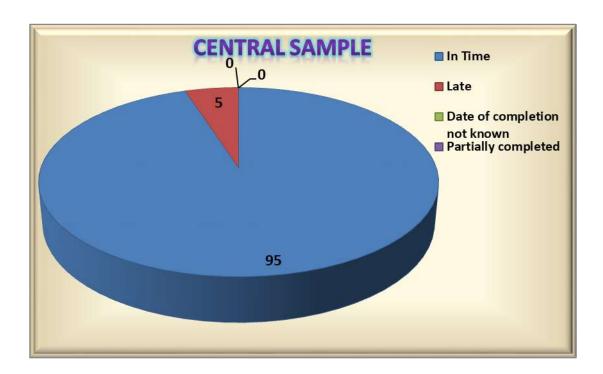
The Investigator is required to complete the EARAS survey according to prescribed time schedule and to submit the filled in schedules immediately after completion of the work. The sample checks are conducted after completion of area enumeration.

Timeliness in completion of area enumeration during 2021-22 is given in Table-2&2(a). During Autumn, Winter and Summer seasons, the Timeliness of completion is 95%, 97.5%, 100% for Central Sample and 86.25%, 90% & 90% for State Sample respectively. Whereas the same in the case of Summer Dry is 71.25% and 100% for Central & State sample. 5% and 2.5% enumeration work during Autumn and Winter season are completed after due date for Central Sample. Area Enumeration of 13.75% for Autumn, 10% for Winter and 10% for summer were completed after due date for State sample.

During Autumn season, 28.57% of samples in Kottayam, 16.67% in Kozhikkode and 20% in Wayanad for Central Sample and 100% samples in Kollam, Pathanamthitta and Alappuzha, for State Samples were completed by Girdawari after due date. During Winter season, 20% of samples in Thiruvananthapuram and 14.29% in Kottayam for Central Samples and 100% of samples in Pathanamthitta, 80% in Kollam and 11.11% in Palakkad for State Samples were completed by Girdawari after due date. During Summer season, all the State Samples in Pathanamthitta and Thrissur districts were completed by Girdawari after due date.

During Summer Dry, the date of completion by Girdawari was not recorded in the prescribed schedule of 57.14% of samples in Kottayam, 50% in Idukki, 11.11% in Palakkad, 85.71% in Malappuram, 83.33% in Kozhikkode and 60% in Wayanad for Central samples.

CHART-1
COMPLETION OF GIRDAWARI 2021-22 AUTUMN



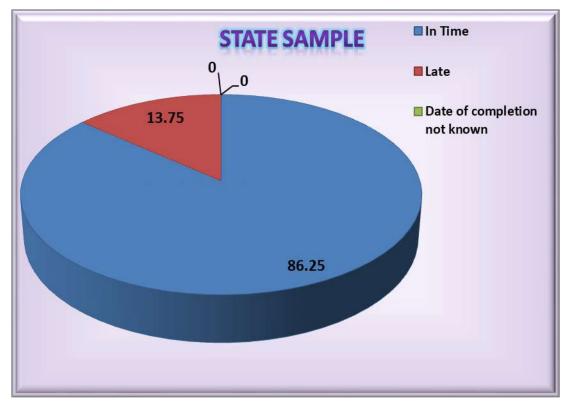
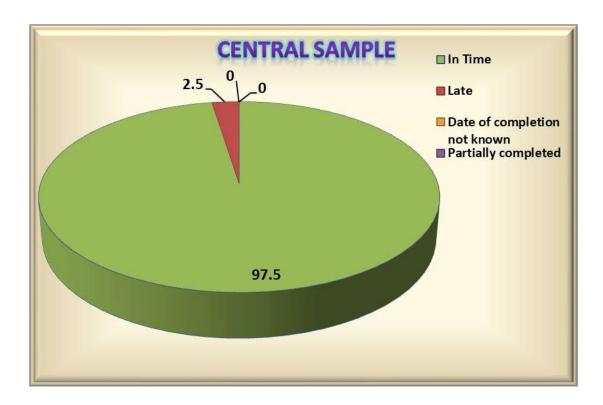


CHART-2 COMPLETION OF GIRDAWARI 2021-22 WINTER



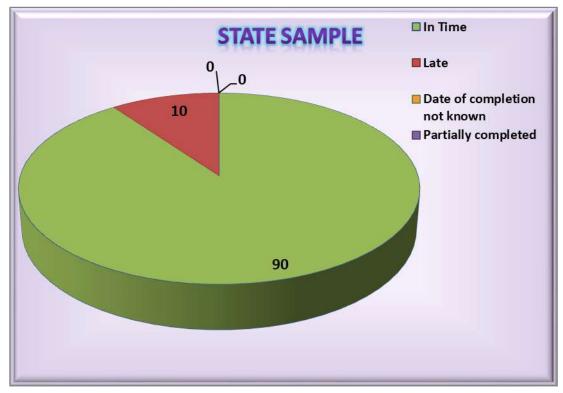
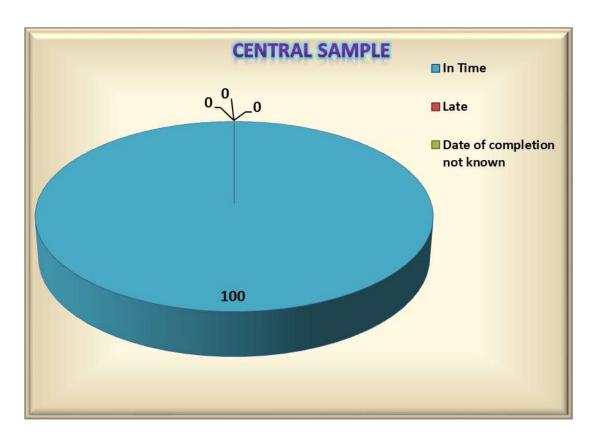
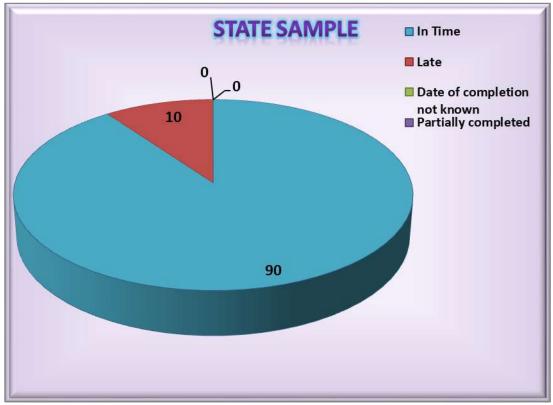
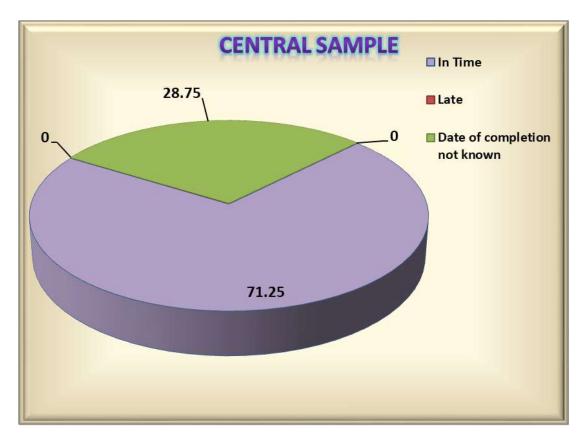


CHART-3
COMPLETION OF GIRDAWARI 2021-22 SUMMER









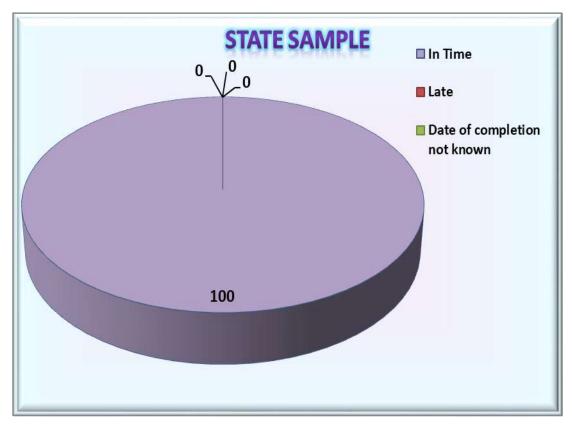


	Table-2												
	TIMELINESS IN COMPLETION OF GIRDAWARI DURING 2021-22												
Percentage of villages where girdawari was completed during									g				
				Autui	mn			Win	ter		S	Summe	r
SI N o.	District	Agency	In Time	Late	But date of completion not known	Partially completed	In Time	Late	But 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	Thiruvanantha-	C	100				80	20			100		
	puram	S	100				100				100		
2	Kollam	C	100				100				100		
	110114111	S		100			20	80			100		
3	Pathanamthitta	C	100				100				100		
	1 athanaminita	S		100				100				100	
4	4 Alappuzha	C	100				100				100		
		S		100			100				100		
5	Kottayam	C	71.43	28.57			85.71	14.29			100		
<i>J</i>	Kuttayam	S	100				100				100		
6	Idukki	C	100				100				100		
	Tuukki	S	100				100				100		
7	Ernakulam	C	100				100				100		
,	Linakulani	S	100				100				100		
8	Thrissur	C	100				100				100		
0	THISSUF	S	100				100					100	
0	Dolokkad	C	100				100				100		
9	Palakkad	S	100				88.89	11.11			100		
1	Malappuram	C	100				100				100		
0	wiaiappuraiii	S	100				100				100		
1	Kozhikode	C	83.33	16.67			100				100		
1	ROZHROUC	S	100				100				100		
1	Wayanad	C	80	20			100				100		
2	v ay anau	S	100				100				100		
1	Kannur	C	100				100				100		
3	120111101	S	100				100				100		
1	Kasaragod	C	100				100				100		
4		S	100				100				100		
For	r District covered	C	95	5			97.5	2.5			100	4.5	
		S	86.25	13.75			90	10			90	10	

Table-2 (a) TIMELINESS IN COMPLETION OF GIRDAWARI DURING 2021-22 **SUMMER DRY**

			Percentage of villages where girdawari was completed during							
Sl.No.	District	Agency	In Time	Late	But date of completion not known	Partially completed				
1	2	3	4	5	6	7				
1	Thiruvananthapuram	C	100							
1		S	100							
2	Kollam	С	100							
Δ	Konam	S	100							
3	Pathanamthitta	С	100							
3	Pathanamunta	S	100							
4	Alamauaha	С	100							
4	Alappuzha	S	100							
_	V-44	C	42.86		57.14					
5	Kottayam	S	100							
(Idukki	C	50		50					
6		S	100							
7	Ernakulam	C	100							
7		S	100							
0		С	100							
8	Thrissur	S	100							
		С	88.89		11.11					
9	Palakkad	S	100							
4.0		С	14.29		85.71					
10	Malappuram	S	100							
		С	16.67		83.33					
11	Kozhikode	S	100							
4.5		С	40		60					
12	Wayanad	S	100							
		С	100							
13	Kannur	S	100							
		С	100							
14	Kasaragod	S	100							
		C	71.25		28.75					
	For District covered	S	100							

3) Submission of EARAS Statement

The details of season wise submission of EARAS statement during 2021-22 are indicated in Table-3&3(a). Timely submission of EARAS statements still needs considerable improvement in almost all districts. The EARAS statements were submitted before due date after completion by Girdawari in 82.5% cases during Autumn, 80% cases during Winter, 78.75% cases during Summer and 38.75% cases during Summer dry for Central Sample and 65%, 87.5%, 86.25% and 86.25% respectively for state sample.

The EARAS statements of all the State samples in Pathanamthitta were submitted by due date without completing Girdawari during all the three seasons. Similarly EARAS statements of 20% State samples from Kasaragod during summer dry season were submitted on due date without completion of Girdavari.

3a) Percentage of samples from districts which submitted the EARAS statements after due date without completing Girdawari

During Autumn season, all State Samples in Kollam, Alappuzha, Kannur and Kasaragod, the EARAS statements were submitted after due date without completing Girdawari. During Winter season, 60% of State Samples from Kollam and 11.11% of State Samples from Palakkad were submitted the EARAS statements after due date without completing Girdawari. During Summer season, 80% of State Samples from Thrissur submitted the EARAS statements after due date without completing Girdawari. No Central samples where the EARAS statements were submitted without completing Girdawari.

3b) Percentage of samples from districts which submitted the EARAS statements after due dates after completing Girdawari

SEASONS	CENTRAL	STATE
Autumn	Thiruvananthapuram 20% Kollam 20% Alappuzha 33.33% Kottayam 57.14% Idukki 12.5% Kozhikkode 16.67%. Wayanad 40%	Wayanad 100%

Winter	Thiruvananthapuram 80% Kollam 20% Kottayam 42.86% Idukki 25% Ernakulam 20% Kozhikkode 16.67% Wayanad 40%	Kollam 20%
Summer	Thiruvananthapuram 60% Kottayam 28.57% Idukki 37.5% Ernakulam 80% Malappuram 14.29%	Malappuram 14.29%
Summer dry	Palakkad 28.57%	Wayanad 100%

3c) Percentage of samples from districts which submitted the EARAS statements but information regarding date of submission is not recorded

SEASONS	CENTRAL	STATE
Autumn	Thiruvananthapuram-20% Pathanamthitta-33.33% Malappuram- 14.29%	
Winter	Kannur-14.29% Kasargod-20%	Ernakulam- 20% Palakkad-11.11%
Summer	Kannur-14.29% Kollam-20% Thrissur-20% Malappuram- 14.29%	Kottayam-14.29% Thrissur-20% Malappuram- 14.29%
Summer dry	Thiruvananthapuram-40% Kollam-40% Pathanamthitta-66.67% Kottayam-85.71% Idukki -87.5% Ernakulam- 20% Thrissur-60% Kozhikkode-100% Malappuram- 100% Wayanad- 100% Kannur-71.43% Kasargod-20%	Kollam-20% Pathanamthitta-100% Alappuzha -33.33%

Table-3 TIMELINESS IN SUBMISSION OF EARAS STATEMENT DURING 2021-22																					
		Season		Percentage of villages for which																	
	District			EARAS Statement submitted						EARAS statement not submitted											
Sl. No			Agency	comp	hout deting awari		ter leting ıwari	regarding date of submission not	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	regard subn	Thoug	Gird co	Info regare subn k										
1	2	3	4	5	6	7	8	9	10	11	12										
		A 4	C			60	20	20													
		Autumn	S			100															
1	Thiruvananthapuram	Winter	C			20	80														
1	1 mruvananınapuram	willter	S			100															
		Summer	С			40	60														
		Summer	S			100															
	Kollam	Autumn	C			80	20														
		Autuiiii	S		100																
2		Winter	C			80	20														
2			S		60	20	20														
		Summer	C			80		20													
			S			100															
		Autumn	C			66.67		33.33													
	Pathanamthitta		S	100																	
3		Winter	С			100															
3		Willier	S	100																	
		Summer	С			100															
		Summer	S	100																	
		Autumn	С			66.67	33.33														
			S		100																
4	Alappuzha	Winter	С			100															
			S			100															
		Summer	C			100															
			S			100															
		Autumn	С			42.86	57.14														
			S			100															
5	Kottayam	Winter	C			57.14	42.86														
	·		S			100															
		Summer	C			71.43	28.57	4													
			S			85.71		14.29													
									T	Table 3 contd											

Table-3 TIMELINESS IN SUBMISSION OF EARAS STATEMENT DURING 2021-22											
						Percent	tage of vil	lages for w	hich		
	District	Season			EARAS Statement submitted EARAS sta not subm						
Sl. No			Season	Agency	comp	hout leting awari	comp	ter deting awari	Information regarding date of submission not known	Though girdawari completed	Girdawari not completed
				By due date	After due date	By due date	After due date	Info regardi submi kı	Though con	Girda	Inforegardi regardi submi
1	2	3	4	5	6	7	8	9	10	11	12
		At	C			87.5	12.5				
		Autumn	S			100					
6	Idukki	Winter	C			75	25				
0	1QUKKI	***************************************	S			100					
		Summer	C			62.5	37.5				
		Summer	S			100					
	Ernakulam	Autumn	C			100					
		Autumm	S			100					
7		Winter	C			80	20				
′			S			80		20			
		Summer	С			20	80				
			S			100					
		Autumn	С			100					
		Autumi	S			100					
8	Thrissur	Winter	C			100					
	111110041		S			100					
		Summer	С			80		20			
			S		80			20			
		Autumn	С			100					
			S			100					
9	Palakkad	Winter	C			100					
			S		11.11	77.78		11.11			
		Summer	С			100					
			S			100					
		Autumn	С			85.71		14.29			
			S			100					
10		Winter	С			100					
	Malappuram		S			100					
		Summer	С			71.42	14.29	14.29			
			S			71.42	14.29	14.29		-	
										Table :	3 contd

Table-3 TIMELINESS IN SUBMISSION OF EARAS STATEMENT DURING 2021-22											
			Percentage of villages for which								
	District				Statement	d	EARAS statement not submitted				
Sl. No		Season	Agency	comp	hout leting awari	comp	ter lleting awari	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	Int regard subn	Thoug	Gird	Information of the state of the
1	2	3	4	5	6	7	8	9	10	11	12
		A4	С			83.33	16.67				
		Autumn	S			100					
1.1	T 7 1011 1	XX724	С			83.33	16.67				
11	Kozhikkode	Winter	S			100					
		G	С			100					
		Summer	S			100					
		Autumn	С			60	40				
	_		S				100				
12		Winter	С			60	40				
12			S			100					
		Summer	С			100					
			S			100					
		Autumn	C			100					
			S		100						
13	Kannur	Winter	С			85.71		14.29			
13	Kaiiiui	VVIIICI	S			100					
		Summer	C			85.71		14.29			
		Summer	S			100					
		Autumn	C			100					
			S		100						
14		Winter	С			80		20			
1.	Kasaragod		S			100					
		Summer	С			100					
			S			100					
		Autumn	C			82.5	13.75	3.75			
			S	3.75	25	65	6.25				
F	or District	Winter	C			80	17.5	2.5			
	covered		S	3.75	5	87.5	1.25	2.5			
		Summer	C			78.75	16.25	5			
			S	3.75	5	86.25	1.25	3.75			

Tl	MELINESS IN SU	BMISSI	ON OF 1		le-3 (a) STATEN	MENT D	URING 20	21-22 SU	J MME F	R DRY
				,,			villages for			
				EARAS S	Statemen	t submitte	ed		S Stater submitte	nent not
Sl. No.	District	Agency	comp	hout leting wari	comp	ter leting ıwari	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	Inf regar submiss	Thoug	Girc co	Inf regar submiss
1	2	3	4	5	6	7	8	9	10	11
1	Thiruvanantha-	С			60		40			
1	puram	S			100					
2	Kollam	С			60		40			
		S			80		20			
3	Pathanamthitta	C			33.33		66.67			
		S					100			
4	Alappuzha	C			100					
		S			66.67		33.33			
5	Kottayam	C			14.29		85.71			
	, and the second	S			100		07.5			
6	Idukki	C			12.5		87.5			
		S			100		20			
7	Ernakulam	C S			80 100		20			
		C			40		60			
8	Thrissur	S			100		00			
		C			77.78	28.57				
9	Palakkad	S			100	26.37				
		C			100		100			
10	Malappuram	S			100		100			
		C			100		100			
11	Kozhikode	S			100		100			
		C			100		100			
12	Wayanad	S				100				
		С			28.57		71.43			
13	Kannur	S			100					
		С			80		20			
14	Kasaragod	S	20		80					
		С			38.75	2.5	58.75			
For I	District covered	S	1.25		86.25	6.25	6.25			
							C-Central	Sample	S-St	ate Sample

4) Discrepancies in recording crop and crop areas

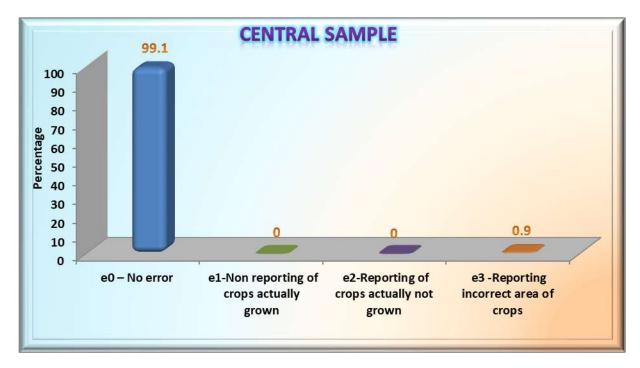
Details of crop and its area reported by the Investigator in the state system and with the corresponding entries made by the technical personnel associated with the ICS programme reveal the following type of discrepancies.

- 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 2021-22 are given in Table-4. The error, which non-reporting of the actual grown area of the crop (E1) is 0.73% (Wayanad -7.41%) in winter for Central Sample. Reporting of crops actually not grown (E2) is 0.95% (Kottayam-7.69%) in Summer for Central Sample. Reporting of incorrect area of crops (E3) is 0.90% (Idukki -50%) in autumn and 1.09% (Palakkad-4.41%) in winter for Central Sample.

Reporting of incorrect area of crops (E3) is 3.80% (Kannur-17.65%) in autumn and 3.22% (Kottayam-4%, Idukki-12.5%, Palakkad-2.56%, Kozhikkode-5.26%, Kannur-10.87%) in winter and 2.3%(Pathanamthitta-7.69%, Thrissur-4.35%) during summer for State Sample.

CHART-5
ERRORS IN RECORDING CROP AND CROP AREAS 2021-22 AUTUMN



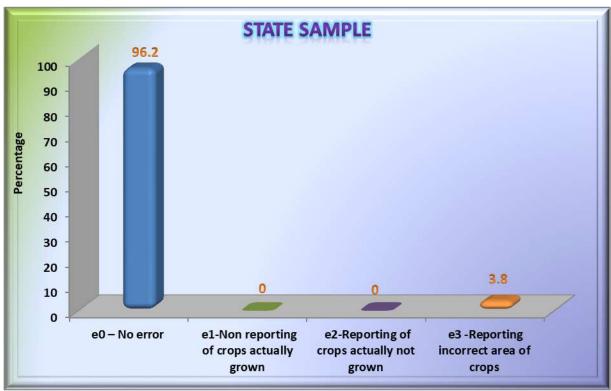
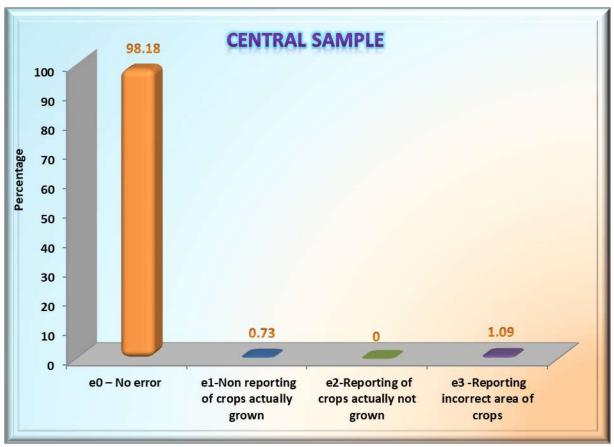
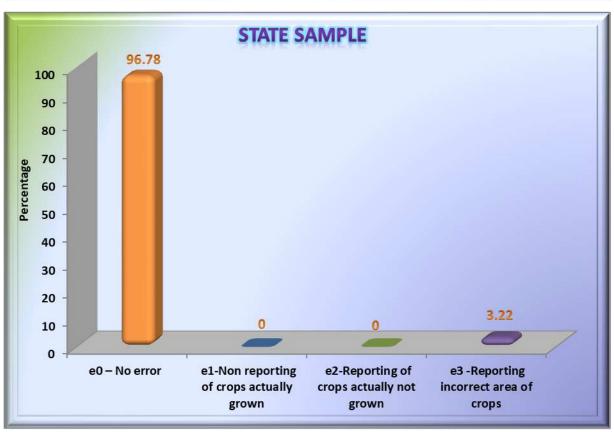
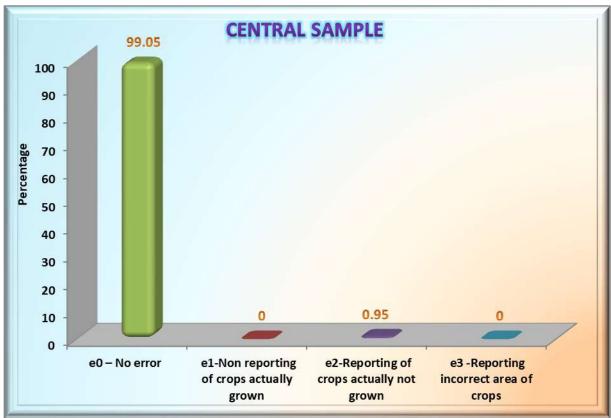


CHART-6
ERRORS IN RECORDING CROPS AND CROP AREAS 2021-22 WINTER









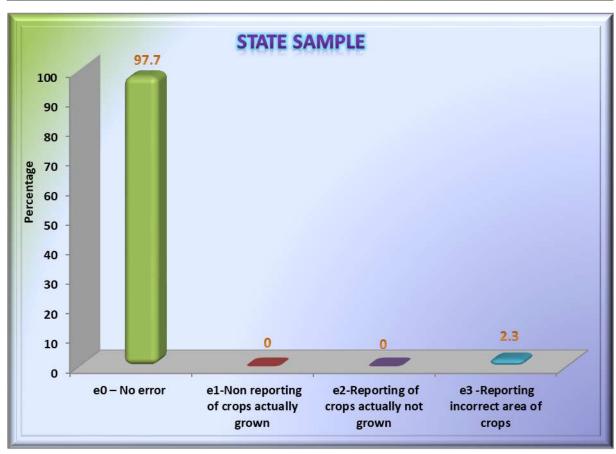


Table-4 PERCENTAGE OF SURVEY NUMBERS IN WHICH ERRORS IN RECORDING CROP AREAS WERE OBSERVED: 2021-22

Sl.		ıcy	Po	ercen	tage		ey nun numera					of er	rors i	a
No.	District	Agency		AUT	UMN			WIN	ΓER			SUM	MER	
		1	e ₀	e 1	e ₂	e ₃	e 0	e ₁	e ₂	e ₃	e 0	e ₁	e 2	e ₃
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvanantha-	C	100				100							
1	puram	S	100				100				100			
2	Kollam	C					100							
	Konam	S					100							
3	Pathanamthitta	C					100							
3	1 athanamunta	S									92.31			7.69
4	Alappuzha	C	100				100				100			
	Апарригна	S					100				100			
5	Kottayam	C					100				92.31		7.69	
<i>J</i>	Kottayani	S	100				96			4	100			
6	Idukki	C	50			50	100							
0	IUUKKI	S					87.5			12.5	100			
7	Ernakulam	C	100				100				100			
	Linakulam	S	100								100			
8	Thrissur	C					100				100			
0	Titissui	S	100				100				95.65			4.35
9	Palakkad	C					95.59			4.41	100			
	Talakkau	S	100				97.44			2.56	100			
10	Malappuram	C	100				100				100			
10	Malappuram	S	100				100				100			
11	Kozhikode	C					100				100			
11	Koziikouc	S					94.74			5.26	100			
12	Wayanad	C					92.59	7.41			100			
12	, , ay anau	S					100				100			
13	Kannur	C	100				100				100			
13		S	82.35			17.65	89.13			10.87				
14	Kasaragod	C	100				100							
1 T	i i i i i i i i i i i i i i i i i i i	S	100				100							
For	District covered	C	99.10			0.90	98.18	0.73		1.09	99.05		0.95	
1.01	District covered	S	96.20			3.80	96.78			3.22	97.7			2.3

 $e_{0\,-}\,\text{No error}\ e_{1}\text{-Non reporting of crops actually grown}\qquad e2\text{-Reporting of crops actually not grown}$

 e_3 -Reporting incorrect area of crops

Table-4 (a) PERCENTAGE OF SURVEY NUMBERS IN WHICH ERRORS IN RECORDING CROP AREAS WERE OBSERVED: 2021-22

Sl. No.	District	Agency	types of err		neration of ER DRY	f area duri
140.		₹ ď	e ₀	e ₁	e ₂	e ₃
1	2	3	4	5	6	7
		С				
1	Thiruvananthapuram	S				
2	Y7 11	C				
2	Kollam	S				
2	D-4141-244-	C				
3	Pathanamthitta	S				
4	Alannuaha	C				
4	Alappuzha	S				
5	Kottayam	C				
J	Kuttayani	S				
6	Idukki	C				
	IUUKKI	S				
7	Ernakulam	C				
	Dinaxulum	S				
8	Thrissur	C				
	22220002	S				
9	Palakkad	C	100			
		S				
10	Malappuram	C				
	**	S				
11	Kozhikode	C				
		S				
12	Wayanad	C				
		S				
13	Kannur	C				
		S				
14	Kasaragod	C				
		S	100			
]	For District covered	C S	100			
		3		C.C.	entral Sample	S-State Sa

 $e_{0\,-}\,\text{No error}\quad e_{1\text{-Non reporting of crops actually grown}} \quad e_{2\text{-Reporting of crops actually not grown}$

e₃-Reporting incorrect area of crops

5) Discrepancies in recording Irrigation particulars of Paddy

Information on distribution of survey numbers as per the Irrigation particulars for paddy during Autumn, Winter and Summer, Summer Dry is given in Table 5(a), 5(b) and 5 (c) and 5 (d) respectively. No discrepancy is recorded in Central or State samples in recording variety of paddy by Patwari and Supervisor.

Table-5(a) DISCREPANCIES IN RECORDING IRRIGATION PARTICULARS OF PADDY DURING 2021-22 - AUTUMN

						021-22								
				Pe	rcentag	ge of su	rvey	num	bers i				ars	
Sl.	District	Agency		Ta	llied			C		Not T	allied		4	
No	District	Age	I &						erviso				twari	
			UI	I	UI	Total	I	UI	NR	Total	I	UI	NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvanantha-	C		100										
	puram	S		100										
2	Kollam	C												
		S												
3	Pathanamthitta	C S												
		C		100										
4	Alappuzha	S		100										
		C												
5	Kottayam	S		100										
		С		100										
6	Idukki	S												
7	E	C		100										
/	Ernakulam	S			100									
8	Thrissur	C												
0	1 III ISSUI	S			100									
9	Palakkad	C			100									
		S		22.54	77.46									
10	Malappuram	C			100									
		S			100									
11	Kozhikode	C S												
		C												
12	Wayanad	S												
		C			100									
13	Kannur	S			100									
1.	¥7.	C			100									
14	Kasaragod	S			100									
	For District	C		32.43	67.57									
	covered	S		24	76									
										C-Centra	al San	nple	S-State	Sample
			I-	Irrigated	UI- Un	Irrigated	NF	R-Non re	eporting					

Table-5(b) DISCREPANCIES IN RECORDING IRRIGATION PARTICULARS OF PADDY DURING 2021-22 - WINTER

						021-22						4		
				Pe	rcentag	ge of su	rvey	num	bers i	n which			ars	
Sl.	District	Agency		Ta	llied			Sun	erviso	Not T	allied		itwari	
No		Ag	I & UI	I	UI	Total	I	UI	NR	Total	I	UI	NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Thiruvanantha-	C		100										
1	puram	S		100										
2	Y7 11	C			100									
2	Kollam	S			100									
2	D. (1.11)	C		100										
3	Pathanamthitta	S												
4	Alammaka	C		71.43	28.57									
4	Alappuzha	S		100										
5	Vattavam	C		100										
3	Kottayam	S		100										
6	Idukki	C		33.33	66.67									
U	IUUKKI	S		81.25	18.75									
7	Ernakulam	C		100										
,	Linakulani	S												
8	Thrissur	C		100										
0	11113541	S		100										
9	Palakkad	C		100										
	1 uuuuuu	S		75.64	24.36									
10	Malappuram	C		36.36	63.64									
	1/2mmpp m2 mm	S		78.69	21.31									
11	Kozhikode	C		66.67	33.33									
		S			100									
12	Wayanad	C		100										
	ı	S		100										
13	Kannur	C		93.75	6.25									
		S		100										
14	Kasaragod	C		100	0.7									
		S		75	25									
	For District covered	C		84.36	15.64									
	covereu	S		82.16	17.84					C-Centra	al Sam	nnle	S_State	Sample
			T.	-Irrigated	[]]_I]n	Irrigated	NE	R-Non re	eporting		ui Sail	ibic	5-5tate	Sample
			1-	migaicu	OI- OII	migaicu	141	C TOII I	cporting					

Table-5(c) DISCREPANCIES IN RECORDING IRRIGATION PARTICULARS OF PADDY DURING 2021-22 - SUMMER

					reentee					n whiel	ı na	otionl	a re	
		Ŋ.				ge of su	ı vey	nulll	Ders I	n which Not T			al S	
Sl. No	District	Agency		Ta	llied			Sup	erviso		ame		twari	
110		Ą	I & UI	I	UI	Total	I	UI	NR	Total	I	UI	NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvanantha-	C												
	puram	S		100										
2	Kollam	C												
_		S												
3	Pathanamthitta	C												
		S		100										
4	Alappuzha	C		100										
		S		100										
5	Kottayam	C		100										
		S		100										
6	Idukki	C												
		S		100										
7	Idukki Ernakulam	C		100										
		S		100										
8	Thrissur	С		100										
		S		100										
9	Palakkad	C		100										
		S		100										
10	Malappuram	С		81.82	18.18									
	**	S		100										
11	Kozhikode	С		100										
		S		100										
12	Wayanad	C		100										
	•	S		100										
13	Kannur	C		100										
		S												
14	Kasaragod	C S												
	F D' 4 ' 4	C		98.1	1.9									
	For District covered	S		100	1.9									
		b		100						C-Centra	al San	nple	S-State	Sample
			I-	Irrigated	UI- Un	Irrigated	NF	R-Non re	eporting			•		F
				<i>G</i>		g u								

Table-5(d) DISCREPANCIES IN RECORDING IRRIGATION PARTICULARS OF PADDY DURING 2021-22 - SUMMER DRY

			Д	UKING										
				Per	centa	ge of su	rvey	num	bers i				ars	
Sl.	District	Agency		Tall	lied			C	ow	Not T	'alliec		4	
No	District	Age	I &	I	UI	Total	I	Sup UI	erviso NR	r Total	I	UI UI	twari NR	Total
,		2	UI											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvanantha- puram	C												
	P	S C												
2	Kollam	S												
		C												
3	Pathanamthitta	S												
,		C												
4	Alappuzha	S												
_	V - 44	C												
5	Kottayam	S												
6	Idukki	C												
U	Idukki	S												
7	Ernakulam	C												
,		S												
8	Thrissur	C												
		S												
9	Palakkad	C			100									
		S												
10	Malappuram	C S												
		C												
11	Kozhikode	S												
		C												
12	Wayanad	S												
4.5		C												
13	Kannur	S												
14	Kasaragod	C												
14	Masaragou	S												
For	District covered	C			100									
1.01	DISTRICT COVERCE	S												
			_							C-Centr	al San	nple	S-State	Sample
			I-I	rrigated	UI- Un	Irrigated	NF	R-Non re	eporting					

6) 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, Summer Dry is given in Table 6(a), 6(b) and 6 (c) and 6(d) respectively. No discrepancy is recorded in Central or State samples in recording variety of paddy by Patwari and Supervisor.

Table-6(a) DISCREPANCIES IN RECORDING SEED VARIETY PARTICULARS OF PADDY DURING 2021-22 - AUTUMN

						21-22 - e of sur				n whic	h par	ticul	ars	
Sl.		cy			llied		V				rallied			
No	District	Agency		1 a	mea	I		Su	perviso	r		Pa	twari	
			Hy &L	Ну	L	Total	Ну	L	NR	Total	Ну	L	NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvanantha-	C		100										
	puram	S		100										
2	Kollam	C												
		C												
3	Pathanamthitta	S												
		C		100										
4	Alappuzha	S												
_	T 7	C												
5	Kottayam	S		100										
	T1 11.	C		100										
6	Idukki	S												
7	Ernakulam	C		100										
/	Ernakulam	S			100									
8	Thrissur	C												
0	Tili issui	S		100										
9	Palakkad	C		100										
	Talakkau	S		100										
10	Malappuram	C		100										
- 0		S		100										
11	Kozhikode	C												
		S												
12	Wayanad	C												
		C		77.78	22.22									
13	Kannur	S		100	22.22									
		C		100										
14	Kasaragod	S		100										
_		C		96.4	3.6									
For	District covered	S		98.73	1.27									
										C-Centra	al Samp	le	S-State	Sample
		HY-	High Y	ielding See	ed L-L	ocal varie	ty seed	N	IR-Non	reporting				

Table-6(b) DISCREPANCIES IN RECORDING SEED VARIETY PARTICULARS OF PADDY DURING 2021-22 – WINTER

						ige of si				ı which	parti	icular	S	
		ķ		70. 1		_				Not T	- Fallied			
Sl. No.	District	Agency		Tal	llied			Sup	ervisor			Pat	twari	
1,00		A	Hy &L	Ну	L	Total	Ну	L	NR	Total	Ну	L	NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvanantha-	C		100										
1	puram	S		100										
2	Kollam	C		90.91	9.1									
2	Kolialii	S		100										
3	Pathanamthitta	C		100										
3	гашапашишиа	S												
4	Alappuzha	C		100										
	Alappuzna	S		100										
5	Kottayam	C		100										
3	Kottayani	S		100										
6	Idukki	C		50	50									
U	IUUKKI	S		100										
7	Ernakulam	C		100										
,	Ernakulani	S												
8	Thrissur	C		100										
o	Tillissur	S		100										
9	Palakkad	C		98.53	1.47									
9	raiakkau	S		98.72	1.28									
10	Malannunam	C		66.67	33.33									
10	Malappuram	S		65.57	34.43									
11	Kozbilzodo	C		55.56	44.44									
11	Kozhikode	S		36.84	63.16									
12	Wayanad	C		92.59	7.41									
12	Wayanad	S		89.29	10.71									
13	Kannur	C		68.75	31.25									
13	Kamur	S		76.09	23.91									
1.4	Kasaragod	C		54.55	45.45									
14		S		8.33	91.67									
For	District covered	C		86.55	13.45									
		S		82.75	17.25									
					ıtral Samı		State S							
		HY-l	High Yi	elding See	ed L-I	ocal vari	ety seed	l N	R-Non 1	eporting				

Table-6 (c) DISCREPANCIES IN RECORDING SEED VARIETY PARTICULARS OF PADDY DURING 2021-22 - SUMMER

						ige of su				n which	parti	cular	'S	
Cl		cy				- B - 01 50	, - ;		301311		Tallied			
Sl. No	District	Agency		Ta	llied			Sup	erviso	r		Pa	twari	
			Hy &L	Ну	L	Total	Ну	L	NR	Total	Ну	L	NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvanantha-	С												
	puram	S		100										
2	Kollam	С												
	Konam	S												
3	Pathanamthitta	C												
	1 athanaminita	S		100										
4	Alappuzha	C		100										
	Анарригна	S		100										
5	Kottayam	С		61.54	38.46									
	Kottayani	S		100										
6	Idukki	C												
0	Tuukki	S		100										
7	Ernakulam	С		100										
,	Linakulam	S		100										
8	Thrissur	С		100										
	111115541	S		95.65	4.35									
9	Palakkad	С		93.33	6.67									
	Talakkau	S		100										
10	Malappuram	С		63.64	36.36									
10	Walappuram	S		100										
11	Kozhikode	С		100										
	Kozmkouc	S		50	50									
12	Wayanad	С		100										
12	vv ay anad	S		100										
13	Kannur	С		100										
1.5		S												
14	Kasaragod	C												
		S		00.40	0.53									
For	District covered	C		90.48	9.52									
		3		98.85	1.15					C.C.	-1 C	.1.	C Ct t	C 1
		HV	-High V	ielding Se	ed I	Local var	iety see	d N	JR_Non	C-Centr		ле	s-state	Sample
		пп	-riigii I	returng Se	.cu L-	Local val	icty see	u I	AIX-INOII	reporting	5			

Table-6(d) DISCREPANCIES IN RECORDING SEED VARIETY PARTICULARS OF PADDY **DURING 2021-22 - SUMMER DRY**

			DUR			-22 - S								
				Pe	rcen	tage of s	survey	nun	nbers				rs	
Sl.	District	Agency		Tall	ied			C			Γallied		4	
No.	District	Age	Ну						erviso				twari	
			&L	Ну	L	Total	Ну	L	NR	Total	Ну	L	NR	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Thiruvanantha- puram	С												
	puram	S												
2	Kollam	C												
		S												
3	Pathanamthitta	C												
		S												
4	Alappuzha	С												
		S												
5	Kottayam	С												
		S												
6	Idukki	С												
		S												
7	Ernakulam	С												
		S												
8	Thrissur	С												
		S												
9	Palakkad	С		100										
		S												
10	Malappuram	С												
		S												
11	Kozhikode	С												
		S												
12	Wayanad	C												
		S												
13	Kannur	C												
		S												
14	Kasaragod	C												
		S		400										
For	District covered	С		100										
		S								a -	1.0			
		1137 17	1 37' 11'	C 1	T	т 1	. ,	1 .	ID N	C-Centr		ple	S-State	Sample
		HY-H	gh Yieldi	ng Seed	L-	-Local var	iety see	a N	NK-Non	reporting	5			

2.2 CHECK ON CROP CUTTING EXPERIMENTS

1. Response in Sample check on Crop Cutting Experiments

Table 7 reflects the percentage of crop cutting experiments during each season for each district for the year 2021-22. For Central and State Sample the response was 100% during autumn, winter and summer. Annual response of paddy Crop cutting for Central Sample and State Sample is 100%.

RE	SPONSE IN SA	MPI	LE CHE		Table-7 CROP C RING 202	UTTING	EXPERI	MENTS :	FOR PA	DDY					
			AUT	UMN	WIN	TER	SUM	MER	ANN	UAL					
Sl.No.	District	Agency	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	Thiruvanantha-	C	8	100	8	100	8	100	24	100					
1	puram	S	8	100	8	100	8	100	24	100					
2	Kollam	C	6	100	6	100	6	100	18	100					
2	S 6 100 6 100 6 100 18 100 C 6 100 6 100 6 100 18 100														
2	3 Pathanamthitta C 6 100 6 100 6 100 18 100														
3	r athanamunita	S	6	100	6	100	6	100	18	100					
4	Alonnugho	C	8	100	8	100	8	100	24	100					
4	Alappuzha	S	8	100	8	100	8	100	24	100					
5	Kottayam	C	6	100	6	100	6	100	18	100					
3	Kottayani	S	6	100	6	100	6	100	18	100					
6	Idukki	C	4	100	4	100	4	100	12	100					
U	Idukki	S	4	100	4	100	4	100	12	100					
7	Ernakulam	C	10	100	10	100	10	100	30	100					
/	Ernakulani	S	10	100	10	100	10	100	30	100					
8	Thrissur	C	8	100	8	100	8	100	24	100					
	Tiirissur	S	8	100	8	100	8	100	24	100					
9	Palakkad	C	10	100	10	100	10	100	30	100					
	i aiakkau	S	10	100	10	100	10	100	30	100					
10	Malannuram	C	10	100	10	100	10	100	30	100					
	Malappuram	S	10	100	10	100	10	100	30	100					
									Table 7	Continues					

Table-7
RESPONSE IN SAMPLE CHECK ON CROP CUTTING EXPERIMENTS FOR PADDY
DURING 2021-22

			AUT	UMN	WIN	TER	SUMI	MER	ANN	UAL
Sl.No.	District	Agency	No of Expts Planned	% of Response						
11	Vaghilyada	С	12	100	8	100	8	100	28	100
	Kozhikode		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	6	100	24	100
	Kamui	S	8	100	8	100	6	100	24	100
14	Vasavagad	C	4	100	4	100	6	100	12	100
	Kasaragod	S	4	100	4	100	6	100	12	100
For I	For District covered		100	100	100	100	100	100	300	100
FOLT	Jistrict covered	S	100	100	100	100	100	100	300	100

^{*}No Autumn Paddy in Wayanad district. Substituted from Kozhikode District.

2. Distribution of number of experiments

2.1 Distribution of number of experiments conducted according to important inputs

Table 8(a), 8(b) and 8(c) shows the details of paddy crop cutting experiments and Table 8(iv), 8(v), 8(vi), 8(vii), and 8(viii) shows the details of other 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.

1) Paddy Crop Cutting Experiments

Table-8(i)
DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO IMPORTANT INPUTS DURING 2021-22

Paddy-Autumn

Sl. No.	District	Agency		H/T		ge of Exper arious inpu crops	
		⋖			I	HYV	F
1	2	3	4	5	6	7	8
		С	Н	8	100	100	100
1	Thiruvananthapuram	S	П	8	100	100	100
1	1 mi uvananmapuram	C	T	8	100	100	100
		S	1	8	100	100	100
		C	C H		33.33	100	83.33
2	Kollam	S	11	6		100	66.67
2		C	T	6	33.33	100	83.33
		S	1	6		100	66.67
		C	Н	6	100	100	100
3	3 Pathanamthitta	S	11	6	66.67	100	100
3		C	T	6	100	100	100
		S	1	6	66.67	100	100
		C	Н	8	75	100	75
4	Alappuzha	S	11	8	50	100	75
_	Alappuziia	C	T	8	75	100	75
		S	-	8	50	100	75
		C	Н	6	100	100	83.33
5	Kottayam	S	Н	6	100	100	100
	Kottayam	C	T	6	100	100	83.33
		S	1	6	100	100	100
		C	Н	4	100	75	100
6	Idukki	S	11	4	100	100	100
U	IUUKKI	C	T	4	100	75	100
		S	-	4	100	100	100
		C	Н	10	80	90	70
7	Ernakulam	S	11	10	80	80	80
,	Linakulam	C	T	10	80	90	70
		S	1	10	80	80	80
		C	Н	8	37.5	100	100
8	Thrissur	S	11	8		100	62.5
8	1 III 155U1	C	T	8	37.5	100	100
		S	1	8		100	62.5
						Table-8(i)	contd

Table-8(i)
DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO IMPORTANT INPUTS DURING 2021-22

Paddy-Autumn

Sl. No.	District	Agency	Н	/T	Percentage of Experiments under various inputs for crops			
		⋖			I	HYV	F	
1	2	3	4	5	6	7	8	
		C	Н	10		100	80	
9	Palakkad	S	11	10	20	100	100	
	1 alakkau	C	Т	10		100	80	
		S	1	10	20	100	100	
		C	Н	10		100	70	
10	Malappuram	S	11	10	20	100	90	
10	waaappur am	C	T	10		100	70	
		S	1	10	20	100	90	
	11 Kozhikkode	C	Н	12		66.67	75	
11		S	11	12		58.33	58.33	
11		C	T	12		66.67	75	
		S	•	12		58.33	58.33	
		C	Т					
12	Wayanad	S						
12	wayanau	C						
		S						
		C	Н	8		87.5	87.5	
13	Kannur	S	11	8		75	50	
13	Txumui	C	Т	8		87.5	87.5	
		S	•	8		75	50	
		C	Н	4		100	100	
14	Kasaragod	S	**	4		50	75	
•	1145414504	C	Т	4		100	100	
		S	•	4		50	75	
		С	Н	100	43	93	84	
ī	For District covered	S	11	100	38	89	80	
•	of District Covered	С	T	100	43	93	84	
		S	•	100	38	89	80	

^{*}No Paddy in Wayanad district.

[H-Checked at Harvest, T- Total planned, I-Irrigated, HYV-High Yield Variety, F-Fertilizer]

Table-8(ii) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO **IMPORTANT INPUTS DURING 2021-22**

Paddy-Winter

Sl. No.	District	Agency]	H/T		ge of Exper arious inpu crops	
		₹;			I	HYV	F
1	2	3	4	5	6	7	8
		C	Н	8	100	100	100
1	Thiruvananthapuram	S	11	8	100	100	100
1	1 mi uvanantnapuram	C	Т	8	100	100	100
		S	1	8	100	100	100
		C	Н	6	33.33	33.33	33.33
2	Kollam	S	11	6	66.67	66.67	0
2	Tonam	C	Т	6	33.33	33.33	33.33
		S	1	6	66.67	66.67	0
		C	Н	6	100	100	100
3	3 Pathanamthitta	S	11	6	100	100	100
		C	T	6	100	100	100
		S	•	6	100	100	100
		C	Н	8	75	75	100
4	Alappuzha	S		8	75	100	100
·	mappuzna	C	Т	8	75	75	100
		S	•	8	75	100	100
		C	Н	6	100	100	100
5	Kottayam	S		6	100	100	83.33
	Trottayam	C	Т	6	100	100	100
		S	•	6	100	100	83.33
		C	Н	4	100	75	50
6	Idukki	S		4	100	100	100
	Tuukki	C	Т	4	100	75	50
		S	•	4	100	100	100
		C	Н	10	100	90	90
7	Ernakulam	S		10	100	90	90
,		C	Т	10	100	90	90
		S	_	10	100	90	90
		C	Н	8	100	100	100
8	Thrissur	S		8	100	100	100
J		C	Т	8	100	100	100
		S		8	100	100	100
		Table-8(i	ii) contd	•••			

Table-8(ii) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO **IMPORTANT INPUTS DURING 2021-22**

Paddy-Winter

Sl. No.	District	Agency	H	/T	Exp	ercentage o eriments ur s inputs for	ıder
					I	HYV	F
1	2	3	4	5	6	7	8
		C	Н	10	60	90	90
9	Palakkad	S	11	10	100	90	80
,	1 alakkau	C	Т	10	60	90	90
		S	1	10	100	90	80
		C	Н	10	60	80	90
10	Molonnurom	S	11	10	50	70	80
10	10 Malappuram	C	T	10	60	80	90
		S	1	10	50	70	80
		C	Н	8	0	0	25
11	Kozhikkode	S		8	0	0	37.5
11	Koznikkoue	C	Т	8	0	0	25
		S		8	0	0	37.5
		C	H T	4	100	50	50
12	Wayanad	S		4	100	100	100
12	vv ayanau	C		4	100	50	50
		S		4	100	100	100
		C	Н	8	75	75	87.5
13	Kannur	S	п	8	100	37.5	62.5
13	Kannur	C	Т	8	75	75	87.5
		S	1	8	100	37.5	62.5
		C	Н	4	100	25	75
1.4	Vacawagad	S	п	4	100	75	100
14	Kasaragod	C	7p	4	100	25	75
		S	T	4	100	75	100
		C	ŢŦ	100	76	74	81
1	For District covered	S	H	100	83	79	80
1	or District covered	C	Т	100	76	74	81
		S	1	100	83	79	80

Table-8(iii)

DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO IMPORTANT INPUTS DURING 2021-22

Paddy-Summer

Sl.		ncy	Taddy-5d			age of Experious inputs	
No.	District	Agency	H	/T	I	HYV	F
1	2	3	4	5	6	7	8
		C	Н	8	100	100	100
1	Thiruvananthapuram	S	11	8	100	87.5	87.5
1	1 mi uvananmapuram	C	Т	8	100	100	100
		S	•	8	100	87.5	87.5
		C	Н	6	100	100	100
2	Kollam	S	11	6	100	100	0
<u> </u>	ASOMMI	C	Т	6	100	100	100
		S	1	6	100	100	0
		C	Н	6	66.67	100	100
3	Pathanamthitta	S	11	6	100	100	100
3		C	Т	6	66.67	100	100
		S	1	6	100	100	100
		C H	Ц	8	100	100	100
4	Alannuzha	S	11	8	100	100	100
4	Alappuzha	C	' '	8	100	100	100
		S	1	8	100	100	100
	Kottayam	C	Н	6	100	83.33	83.33
5		S	П	6	100	100	100
3		C	Т	6	100	83.33	83.33
		S	1	6	100	100	100
		C	Н	4	100	75	100
6	Idukki	S	П	4	100	100	100
U	TUUKKI	C	Т	4	100	75	100
		S	1	4	100	100	100
		C	Н	10	100	90	90
7	Ernakulam	S	П	10	100	100	100
/	LT HAKUIAIII	C	Т	10	100	90	90
		S	1	10	100	100	100
		C	Н	8	100	100	87.5
8	Theigane	S	П	8	100	100	75
٥	Thrissur	C	Т	8	100	100	87.5
		S	1	8	100	100	75
						Table 8	(iii) contd

Table-8(iii)

DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO **IMPORTANT INPUTS DURING 2021-22**

Paddy-Summer

Sl.		ncy				Percentage of Experiments under various inputs for crops			
No.	District	Agency	H /	Γ	I	HYV	F		
1	2	3	4	5	6	7	8		
		C	TT	10	100	90	70		
9	Palakkad	S	H	10	100	100	100		
9	raiakkau	C	TD.	10	100	90	70		
		S	T	10	100	100	100		
		C	TT	10	80	100	90		
10	Malannuwam	S	H	10	100	100	90		
10	10 Malappuram	С	TD.	10	80	100	90		
		S	T	10	100	100	90		
		C	Н	8	87.5	87.5	87.5		
11	Kozhikode	S	п	8	62.5	62.5	100		
11	KUZIIIKUUC	C	Т	8	87.5	87.5	87.5		
		S	1	8	62.5	62.5	100		
		C	Н	4	100	100	50		
12	Wayanad	Wayanad	S	11	4	100	100	100	
12	vv ayanau	C	Т	4	100	100	50		
		S	T	4	100	100	100		
		C	Н	6	100	100	100		
13	Kannur	S	11	6	100	66.67	100		
13		C	Т	6	100	100	100		
		S	1	6	100	66.67	100		
		C	Н	6	100	83.33	100		
14	Kasaragod	S	**	6	100	66.67	83.33		
1 1		C	Т	6	100	83.33	100		
		S	1	6	100	66.67	83.33		
		C	Н	100	95	94	90		
	For District covered	S	**	100	97	92	89		
		C	T	100	95	94	90		
		S	1	100	97	92	89		

2) Other Crop Cutting Experiments

Table-8(iv)
DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO IMPORTANT INPUTS DURING 2021-22

Tapioca

		y	Tuploc			age of Expe	
Sl.	District	Agency	Н	/ T	under var	rious inputs	tor crops
No.		Ag			I	HYV	F
1	2	3	4	5	6	7	8
		C	Н	4	25		25
1	Thiruvananthapuram	S	11	4			25
1		C	Т	4	25		25
		S	1	4			25
		C	Н	4	25	50	25
2	Kollam	S	11	4			
		C	Т	4	25	50	25
		S	<u> </u>	4			
		C	Н				
3	3 Pathanamthitta	S					
		C	Т				
		S	•				
		C	Н				
4	Alappuzha	S					
·		C	Т				
		S	•				
		C	Н	4		50	25
5	Kottayam	S	**	4			25
	Kottayam	C	Т	4		50	25
		S	1	4			25
		C	Н				
6	Idukki	S	11				
	- Audini	C	Т				
		S	A				
		C	н	4	25	50	50
7	Ernakulam	S	11	4	25		
,	Di nanaiani	C	T	4	25	50	50
		S	1	4	25		
		C	Н	4	50	50	
8	Thrissur	S	11	4	100	50	50
	111113501	C	Т	4	50	50	
		S		4	100	50	50
		,	To be cont	d			

Table-8(iv)

DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO IMPORTANT INPUTS DURING 2021-22

Tapioca

GI.		cy				age of Expe	
Sl. No.	District	Agency	H /	Т	I	HYV	F
1	2	3	4	5	6	7	8
		C	TT	4	50		25
9	 Palakkad	S	H	4	100	50	
9	raiakkau	C	Т	4	50		25
		S	1	4	100	50	
		C	Н	4	75	50	50
10	Malappuram	S	11	4	50		25
10	Waiappuram	C	Т	4	75	50	50
		S	1	4	50		25
	11 Kozhikode	C	Н	4		25	
11		S	п	4		50	25
11	KUZIIIKUUC	C	Т	4		25	
		S	1	4		50	25
		C S	Н				
12	Wayanad	C	Т				
		C		4	50		
		S	H	4	50		75
13	Kannur	C		4	50		7.5
		S	T	4	50		75
		C		4	50		
		S	H	4			25
14	Kasaragod	C	(E)	4	50		
		S	T	4			25
			Н	40	35	27.5	20
	For District covered	S	11	40	32.5	15	25
	roi District covered	C	Т	40	35	27.5	20
		S	1	40	32.5	15	25

Table-8(v) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO IMPORTANT INPUTS DURING 2021-22

Pepper

		X	Peppe	**		age of Expe	riments	
Sl.	District	Agency	H /	\mathbf{T}	under various inputs for crops			
No.		Ag				HYV	F	
1	2	3	4	5	6	7	8	
		C	Н	4				
1	Thiruwananthanuram	S	11	4		25		
1	Thiruvananthapuram	C	Т	4				
		S	I	4		25		
		C	TT	4				
2	Kollam	S	Н	4	25			
2		С	Т	4				
		S	Т	4	25			
		C	Н					
2	3 Pathanamthitta	S	п					
3		С	TD.					
		S	T					
		С	н					
4	A11.	S						
4	Alappuzha	C	TD.					
		S	T					
		C	TT	3		33.33		
_	T 7 44	S	H	4		50		
5	Kottayam C	C	TD.	4		33.33		
		S	T	4		50		
		С	TT					
	T1 11'	S	H					
6	Idukki	C	TD.					
		S	T					
		C	TT	4	50	75		
7	E	S	H	4	75			
7	Ernakulam	C	TD.	4	50	75		
		S	T	4	75			
		C	TT	4	75			
C	mi ·	S	H	4	75	25	25	
8	Thrissur	C	TD.	4	75			
		S	T	4	75	25	25	
						To	be contd	

Table-8(v) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING **TO IMPORTANT INPUTS DURING 2021-22**

Pepper

Sl.	20.00	ncy	Терр			age of Expe	
No.	District	Agency	H	/Τ	I	HYV	F
1	2	3	4	5	6	7	8
		C	Н	4	50	25	25
9	Palakkad	S	П	4	75	25	
9	raiakkau	C	T	4	50	25	25
		S	1	4	75	25	
		C	Н	4		25	
10	Molonnuram	S	п	4	25		
10	Malappuram	C	Т	4		25	
		S	1	4	25		
		C	Н	4	50	25	
11	Kozhikode	S	н	4			
11	Koznikoue	C	T	4	50	25	
		S	1	4			
		C	Н				
12	Wayanad	S	П				
12	Wayanad	C	Т				
		S	1				
		C	Н	4		25	
13	Kannur	S	п	4			
13	Kannur	C	Т	4		25	
		S	1	4			
		C	Н	4	100		
14	Vacanacad	S	п	4	100	25	
14	Kasaragod	C	Т	4	100		
		S	1	4	100	25	
		C	Н	39	33.33	20.51	2.56
	For District covered	S	п	40	37.5	15	2.5
		C	Т	40	33.33	20.51	2.56
		S	1	40	37.5	15	2.5

Table-8(vi) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO **IMPORTANT INPUTS DURING 2021-22**

Banana

			Banana		Percentage of Experiments			
Sl.	District	ency	н	/T	under vai	rious inputs	for crops	
No.	District	Agency		, •			F	
1	2	3	4	5	6	7	8	
		C	Н	4	100			
1	Thiruvananthapuram	S		4	100	25	100	
1	i iii uvananmapuram	C	T	4	100			
		S	1	4	100	25	100	
		C	Н	4	50		25	
2	Kollam	S	п	4	25			
	Konam	C	Т	4	50		25	
		S	1	4	25			
		C	TT					
	D (1 41)4	S	H					
3	Pathanamthitta	C	m					
		S	Т					
		С		4	75			
		S	H	4	75		100	
4	Alappuzha	C	Т	4	75			
		S		4	75		100	
		C	Н	4			75	
_		S		4		25	50	
5	Kottayam	C	T	4			75	
		S		4		25	50	
		С	Н					
		S						
6	Idukki	С	Т					
		S						
		C	Н	4	100	25	100	
_		S		4	100	25	50	
7	Ernakulam	C	Т	4	100	25	100	
		S		4	100	25	50	
		С		6	100	16.67	50	
0	Therisan	S	H	6	100	16.67	100	
8	Thrissur	C	Tr	6	100	16.67	50	
			T	6	100	16.67	100	
Table-8(vi) contd								

Table-8(vi) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING **TO IMPORTANT INPUTS DURING 2021-22**

Banana

	Percentage o			of Experiments			
Sl.	District	Suc	H	/ T	under various inputs for		for crops
No.	District	Agency	11		I	HYV	F
1	2	3	4	5	6	7	8
		C	H	6	100		100
9	Palakkad	S		6	100	33.33	50
7	i alakkau	C		6	100		100
		S		6	100	33.33	50
		C	Н	6	83.33	16.67	100
10	Malammana	S		6	66.67		50
10	Malappuram	C	Т	6	83.33	16.67	100
		S		6	66.67		50
		C	TT	4	75	25	75
11	Kozhikode	S	H	4	50		50
11	Koznikode	C	T	4	75	25	75
		S	T	4	50		50
		C	Н				
12	Wayanad	S					
	, , , u.j u.=.u.u	C	T				
		S		4	100	50	100
		C	H	4		16.67 25 25 50 50 25 25	100
13	Kannur	S		4	75 100	50	100
		C	T	4		50	
		S		4	75		100
		C	Н	4	100	25	7.5
14	Kasaragod	S		4	100	25	75
		C	T	4	100	27	7.
		S		4	100		75
		C	Н	50	82	12	60
	For District covered	S C		50	74	14	66
			Т	50	82	12	60
		S	•	50	74	14	66

Table-8(vii) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING TO **IMPORTANT INPUTS DURING 2021-22**

Coconut

No. District Factor No. District Factor No. District No. District No. No	Sl.	200	ncy			Percentage of Experiments under various inputs for crops		
Thiruvananthapuram		District	Agency	Н	/T			
Thiruvananthapuram	1	2	3	4	5	6	7	8
Thiruvananthapuram			C	Н	4			
C	1		S		4			
Record S	1	Thiruvananthapuram	C	Т	4			
C			S		4			
C			C	Н	4	50		
C			S		4	25		
S	2	Kollam	C	Т	4	50		
Pathanamthitta			S	_	4	25		
Pathanamthitta			С					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				Н				
Alappuzha	3	Pathanamthitta						
4 Alappuzha S 4 25 8 T 4 25 8 T 4 25 8 T 4 4 C T 4 25 C T 4 25 B T 4 4 C T 4 50 C T 4 50 25 S 4 4 50 25 S 4 4 50 25 S 4 50 25 S 4 50 25 S 4 50 25 S 4 6 83.33 B T 6 83.33 6 B T 6 83.33 6 B T 6 83.33 6			S	Т				
4 Alappuzha S 4 25 5 T 4 25 6 Kottayam C H 4 25 6 Kottayam C H 4 25 8 T 4 25 4 25 8 T 4 4 25 4 25 8 T T 4 4 4 4 25 4 4 4 50 25 5 4 4 4 50 25 5 4 4 50 25 5 4 4 50 25 5 4 4 50 25 5 4 4 50 25 5 4 6 83.33 6 100 6 83.33 6 100 6 83.33 6 100 6 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 10		Alappuzha	С	н	4	25		
Alappuzha C			S		4			
S	4			Т	4	25		
5 Kottayam S 4 25 6 T 4 25 6 H C H C 8 T C H C T 8 Thrissur C H 4 50 25 8 T 4 50 25 4 C T 4 50 25 8 T 6 83.33 T 6 100 T 6 83.33 T 6 100 T 6 83.33 T 8 T 6 83.33 T T				•	4			
5 Kottayam S 4 25 6 T 4 25 6 H C H C 8 T C H C T 8 Thrissur C H 4 50 25 8 T 4 50 25 4 C T 4 50 25 8 T 6 83.33 T 6 100 T 6 83.33 T 6 100 T 6 83.33 T 8 T 6 83.33 T T		Kottayam	С	н	4			25
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					4			
Figur S	5			Т				25
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				•				
6 Idukki S H <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Idukki		Н				
S T C H 4 50 25 S 4 4 50 25 C T 4 50 25 S 4 4 4 4 B Thrissur C T 6 83.33 C T 6 83.33 S 6 100 C T 6 83.33 S 6 100	6							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				Т				
Frnakulam S				Н	4	50	25	
7 Ernakulam C T 4 50 25 S 4			S		4			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7	Ernakulam	C T 4 4 50 25 S T 4 50 25	25				
8 Thrissur C S H 6 83.33 6 100 C T 6 83.33 6 100				•				
8 Thrissur S H 6 100 C T 6 83.33 S 100						83 33		
C T 6 83.33 S 6 100				Н				
S 6 100	8	Thrissur						
				Т				
				ole-8(vii) co		- 30		

Table-8(vii) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING **TO IMPORTANT INPUTS DURING 2021-22**

Coconut

Sl.	D: 4 : 4	ncy	Cocont			entage of Experiments various inputs for cro		
No.	District	Agency	H /	Τ	I	HYV	F	
1	2	3	4	5	6	7	8	
		C	Н	6	100		33.33	
9	Palakkad	S		6	83.33			
	1 alannau	C	Т	6	100		33.33	
		S		6	83.33			
		C	Н	6	16.67		50	
10	Molonnumore	S		6	33.33		16.67	
10	Malappuram	C	Т	6	16.67		50	
		S		6	33.33		16.67	
		C	TT	4	25			
11	171.9 1 -	S	Н	4				
11	Kozhikode	C	Т	4	25			
		S		4				
	Warrand	C	Н					
10		S						
12	Wayanad	C	Т					
		S						
	IZ	C	Н	4	100			
10		S		4				
13	Kannur	C	Т	4	100			
		S		4				
		C	TY	4	100		100	
1.4	17	S	Н	4	100			
14	Kasaragod	C	TF.	4	100		100	
		S	Т	4	100			
		C	TT	50	52	2	20	
	Ear District assessed	S	Н	50	36		2	
	For District covered		Tr.	50	52	2	20	
			Т	50	36		2	

Table-8(viii) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING **TO IMPORTANT INPUTS DURING 2021-22**

Arecanut

Sl.	District	Agency	H	/T	Percenta under vari	Percentage of Experime under various inputs for o		
No.			4 5		I	HYV	F	
1	2	3	4		6	7	8	
1		С	H					
	Thiruvananthapuram	S						
	-	С	Т					
		S						
		С	Н		50			
2	Kollam	S						
		C	т	4	50			
		S	-	4				
		C	н					
3	Pathanamthitta	S	11					
3	Fauianamunua	C	/ID					
		S	1					
		C	Н					
_		S C						
4	Alappuzha		Т					
		S						
		C	Н	4				
		S		4				
5	Kottayam	С		4				
		S	Т					
		C						
		S	H					
6	Idukki	C	H 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					
		S						
		C		4		25		
-		S	Н					
7	Ernakulam	C	т	4		25		
		S	1					
		C	н	4	25	100		
8	Thrissur	S	**	4	100			
U	A 111 1/3/3/41	C	H T H 4 4 4 4 4 H T H 4 4 4 4 4 4 4 4 4 4 4 4	25	100			
		S			100			
		Table	8(viii) contd.					

Table-8(viii) DISTRIBUTION OF NUMBER OF EXPERIMENTS CONDUCTED ACCORDING **TO IMPORTANT INPUTS DURING 2021-22**

Arecanut

Sl.	D: 4 : 4	ncy	Areca		Percentage of Experiments un various inputs for crops		
No.	District	Agency	H	H/T		HYV	F
1	2	3	4	5	6	7	8
		C	Н	4	50	50	
9	Palakkad	S		4	100 2	25	25
,	i alakkau	C	Т	4	50	50	
		S		4	100	25	25
		C	Н	4			
10	Molonnurom	S	11	4	75		
10	Malappuram	C	T	4			
		S	•	4	75		
		C	Н Т	4		25	
11	Kozhikode	S		4			
11	Koznikode	C		4		25	
		S		4			
		C	Н				
12	Wayanad	S					
12	Wayanad	C	Т				
		S					
		C	Н	4			
13	Kannur	S	п	4	25		
13	Kamur	C	Т	4			
		S	1	4	25		
		C	TT	4	25	100	100
1.4	Vacanagad	S	Н	4	50		25
14	Kasaragod	С	т	4	25	100	100
		S	Т	4	50		25
			TT	40	15	30	10
1	For District covered	S	Н	40	35	2.5	5
1	for District covered	C	Т	40	15	30	10
		S	Т	40	35	2.5	5

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

The extent of participation at harvest stage is presented in the table 9(i), 9(ii), 9(ii), 9(iv), 9(v) and 9(v) shows the details of paddy crop cutting experiments and Table 9(vii), 9(viii), 9(xi), 9(xi), 9(xii), 9(xii), 9(xiv), 9(xv), and 9(xv) shows the details of other crop cutting experiments

Table 9(i)

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

STATE: KERALA YEAR:2021-22
SEASON:AUTUMN CROP:PADDY STATE SAMPLE

SEASON:AUTUMN CROF:FADD1 STATE SAWFLE										
				No. of	f Experiments	1				
Sl. No.	District	Planned	Checked at harvest	At post- harvest	Lost	Rejected for analysis	For which schedules are not received			
1	2	3	4	5	6	7	8			
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	12							
12	Wayanad	4	*	*	*	*	*			
13	Kannur	8	8							
14	Kasaragod	4	4							
,	Total for all crops	100	100							

st There is no autumn paddy in Wayanad district and substituted to Kozhikode district.

Table 9(ii)

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

STATE: KERALA

YEAR:2021-22

CROP:PADDY **SEASON:AUTUMN CENTRAL SAMPLE**

				No	. of Experin	nents	
Sl. No.	District	Planned	Checked at harvest	At post- harvest	Lost	Rejected for analysis	For which schedules are not received
1	2	3	4	5	6	7	8
1	Thiruvananthapur am	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	12				
12	Wayanad	4	*				
13	Kannur	8	8				
14	Kasaragod	4	4				
T	otal for all crops	100	100				

^{*}There is no autumn paddy in Wayanad district and substituted to Kozhikode district.

Table 9 (iii)

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

STATE:KERALA YEAR:2021-22

SEA	ASON: WINTER	AIE:KEK		PADDY	KEAR:2021		ATE SAMPLE			
		No. of Experiments								
Sl. No.	District	Planned	Checked at harvest	At post- harvest	Lost	Rejected for analysis	For which schedules are not received			
1	2	3	4	5	6	7	8			
1	Thiruvananthapura m	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	Kasaragod	4	4							
	Total	100	100							

Table 9 (iv)

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

STATE:KERALA

YEAR:2021-22

SEASON:WINTER

CROP: PADDY

CENTRAL SAMPLE

- CI				No.	of Experime	nts	
Sl. No.	District	Planned	Checked at Harvest	At post- harvest	Lost	Rejected for Analysis	For which schedules are not received
1	2	3	4	5	6	7	8
1	Thiruvananthapu ram	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	Kasaragod	4	4				
	Total		100				

Table 9(v)

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

STATE:KERALA YEAR:2021-22

SE	ASON : SUMMER			PADDY	21111.2021 22		TE SAMPLE
				No. of E	xperiments	1	
Sl. No.	District	Planned	Checked at harvest	At post- harvest	Lost	Rejected for analysis	For which schedules are not received
1	2	3	4	5	6	7	8
1	Thiruvananthapura m	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	6	6				
14	Kasaragod	6	6				
	State Total	100	100				

Table 9 (vi)

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

STATE: KERALA YEAR: 2021-22

SEASON: SUMMER CROP: PADDY CENTRAL SAMPLE

				No. of I	Experiments		
Sl. No.	District	Planned	Checked at harvest	At post- harvest	Lost	Rejected for analysis	For which schedules are not received
1	2	3	4	5	6	7	8
1	Thiruvananthapura m	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	6	6				
14	Kasaragod	6	6				
	State Total	100	100				

Table 9(vii)

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

STATE:KERALA

YEAR: 2021-22

SEASON:ANNUAL

CROP:BANANA

STATE SAMPLE

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

Table 9 (viii)

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

STATE: KERALA **YEAR: 2021-22**

SEASON: ANNUAL CROP: BANANA CENTRAL SAMPLE

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

Table 9 (ix)

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

STATE:KERALA **YEAR: 2021-22**

SEASON:ANNUAL **CROP:TAPIOCA** STATE SAMPLE

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

Table 9 (x)

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

STATE: KERALA **YEAR: 2021-22**

SEASO	ASON: ANNUAL CROP: TAPIOCA CENTRAL SAMPLE									
				No. of Exp	periments	5				
Sl.No.	District	Planned	Checked at harvest	At post- harvest	Lost	Rejected for analysis	For which schedules are not received			
1	2	3	4	5	6	7	8			
1	Thiruvananthapuram	4	4							
2	Kollam	4	4							
3	Pathanamthitta									
4	Alappuzha									
5	Kottayam	4	4							
6	Idukki									
7	Ernakulam	4	4							
8	Thrissur	4	4							
9	Palakkad	4	4							
10	Malappuram	4	4							
11	Kozhikode	4	4							
12	Wayanad									
13	Kannur	4	4							
14	Kasaragod	4	4							
	State Total	40	40							

Table 9 (xi)

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

STATE:KERALA

YEAR:2021-22

SEASON:PERENNIAL

CROP:COCONUT

STATE SAMPLE

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

Table 9 (xii)

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

STATE:KERALA

YEAR:2021-22

SEASC	ON: PERENNIAL		CROP:COC	CONUT		CENTRAL SAMPLE	
				No. of Ex	perimen	ts	
Sl. No.	District	Planned	Checked at harvest	At post- harvest	Lost	Rejected for analysis	For which schedules are not received
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	4	4				
2	Kollam	4	4				
3	Pathanamthitta						
4	Alappuzha	4	4				
5	Kottayam	4	4				
6	Idukki						
7	Ernakulam	4	4				
8	Thrissur	6	6				
9	Palakkad	6	6				
10	Malappuram	6	6				
11	Kozhikode	4	4				
12	Wayanad						
13	Kannur	4	4				
14	Kasaragod	4	4				
	State Total	50	50				

Table 9 (xiii)

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

STATE:KERALA

YEAR:2021-22

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

Table 9(xiv)

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

STATE:KERALA

YEAR:2021-22

SEASON: PERENNIAL CROP: PEPPER CENTRAL SAMPLE

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

 $^{^{*}}$ One CC lost in Kottayam district due to non-reporting of CC date by the cultivator.

Table 9 (xv)

CROPWISE NUMBER OF EXPERIMENTS PLANNED FOR CHECK AT HARVEST AND THE RESPONSE ACHIEVED

STATE: KERALA **YEAR: 2021-22**

SEASON: PERENNIAL CROP: ARECANUT STATE SAMPLE

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

STATE: KERALA YEAR: 2021-22

SEASON: PERENNIAL CROP: ARECANUT CENTRAL SAMPLE

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

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 weighment of produce
- E14 Inadequate arrangement for storing the produce for driage
- E15 Error in reporting proportion of experimental crops in mixture/wrong reporting of constituents in mixture
- E16 any one of the items missing

4. Estimation on Average Yield Rates

4.1) Estimated yield rates of high yielding and other varieties of crops for irrigated and un-irrigated categories for paddy during Autumn, Winter and Summer for State and Central samples and the whole year crops Banana, Tapioca, Coconut, Pepper and Arecanut for State and Central samples are given in the Tables 10(i), 10(ii), 10(iii), 10(iv), 10(v), 10(vi), 10(vii), 10(viii), 10(ix), 10(xi), 10(xi), 10(xiv), 10(xiv), 20(xiv), 20(

Table 10(i) ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES STATE: KERALA **YEAR: 2021-22 SEASON: AUTUMN CROP: PADDY** STATE SAMPLE

		ts. at			HY	varieties					Oth	ner varieties	S				Both 1	HY & Other	rs	
Sl.No.	District	exp ked 3	Ir	rigated	Un-	irrigated		Total	Irr	igated	Un-	irrigated		Total	Ir	rigated	Un	-irrigated	ŗ	Гotal
51.110.	District	No. of expts. Checked at	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	Thiruvanantha- puram	8	8	3612.56			8	3612.56							8	3612.56			8	3612.56
2	Kollam	6			6	3656.47	6	3656.47									6	3656.47	6	3656.47
3	Pathanamthitta	6	4	3657.55	2	3072.96	6	3462.69							4	3657.55	2	3072.96	6	3462.69
4	Alappuzha	8	4	4241.46	4	559.19	8	2400.32							4	4241.46	4	559.19	8	2400.32
5	Kottayam	6	6	3554.24			6	3554.24							6	3554.24			6	3554.24
6	Idukki	4	4	3263.58			4	3263.58							4	3263.58			4	3263.58
7	Ernakulam	10	8	3693.74			8	3693.74			2	4345.69	2	4345.69	8	3693.74	2	4345.69	10	3824.13
8	Thrissur	8			8	3174.92	8	3174.92									8	3174.92	8	3174.92
9	Palakkad	10	2	3330	8	3504.36	10	3469.49							2	3330	8	3504.36	10	3469.49
10	Malappuram	10	2	5167.97	8	3573.92	10	3892.73							2	5167.97	8	3573.92	10	3892.73
11	Kozhikode	12			7	1649.57	7	1649.57			5	451.95	5	451.95			12	1150.56	12	1150.56
12	Wayanad																			
13	Kannur	8			6	2152.39	6	2152.39			2	1927.94	2	1927.94			8	2096.28	8	2096.28
14	Kasaragod	4			2	1799.16	2	1799.16			2	3760	2	3760			4	2779.58	4	2779.58
	State Total	100	38	3721.64	51	2753.07	89	3166.62	0	0	11	2029.73	11	2029.73	38	3721.64	62	2624.74	100	3041.56

Table 10 (ii) ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED **CATEGORIES**

STATE: KERALA **YEAR: 2021-22 SEASON: AUTUMN CROP: PADDY CENTRAL SAMPLE**

		est			HY	varieties		~			Othe	er varieties]	Both I	HY & Other	rs	
		expts. at harvest	Ir	rigated	Un-	irrigated		Total	Ir	rigated	Un-	irrigated		Total	Ir	rigated	Un-	irrigated	,	Total
Sl.No.	District	No. of ex Checked at	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.	Kg/ Yield Ha Rate						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvanantha- puram	8	8	4641.95	0	0	8	4641.95							8	4641.95			8	4641.95
2	Kollam	6	2	3592.27	4	3878.38	6	3783.01							2	3592.27	4	3878.38	6	3783.01
3	Pathanamthitta	6	6	2297.08			6	2297.08							6	2297.08			6	2297.08
4	Alappuzha	8	6	4570.13	2	2567.72	8	4069.52							6	4570.13	2	2567.72	8	4069.52
5	Kottayam	6	6	3178.28			6	3178.28							6	3178.28			6	3178.28
6	Idukki	4	3	2350.87			3	2350.87	1	2006.26			1	2006.26	4	2264.72			4	2264.72
7	Ernakulam	10	8	3029.09	1	3370.5	9	3067.02			1	3174.37	1	3174.37	8	3029.09	2	3272.43	10	3077.76
8	Thrissur	8	3	4219.73	5	3518.08	8	3781.2							3	4219.73	5	3518.08	8	3781.2
9	Palakkad	10			10	3364.04	10	3364.04									10	3364.04	10	3364.04
10	Malappuram	10			10	4018.07	10	4018.07									10	4018.07	10	4018.07
11	Kozhikode	12			8	2353.29	8	2353.29			4	313.96	4	313.96			12	1673.51	12	1673.51
12	Wayanad																			
13	Kannur	8			7	4298.37	7	4298.37			1	3327.82	1	3327.82			8	4177.05	8	4177.05
14	Kasaragod	4			4	4089	4	4089									4	4089	4	4089
	State Total	100	42	3536.61	51	3543.17	93	3540.21	1	2006.26	6	1293	7	1394.9	43	3501.02	57	3306.31	100	3390.04

'I'a bi	_	74	/:::\
Tabl	œ	11	(III)

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

	STATE: K	ERAL	١		}	EAR: 2021	1-22		SE	ASON: WI	NTE	R		CROP: PA	ADDY	7	STA	TE SAMP	LE	
		·			НУ	Varieties					Oth	er Varieties					Both	HY & Other	rs	
Sl		Expted at sections.	Ir	rigated	Un	-Irrigated		Total	I	rrigated	Un	-Irrigated		Total	I	rrigated	Un	-Irrigated		Total
No.	District	No. of Expts. Checked at Harvest	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	Thiruvanantha- puram	8	8	2609.47			8	2609.47							8	2609.47			8	2609.47
2	Kollam	6	4	3687.9			4	3687.9			2	3336.4	2	3336.4	4	3687.9	2	3336.4	6	3570.73
3	Pathanamthitta	6	6	4353.87			6	4353.87							6	4353.87			6	4353.87
4	Alappuzha	8	6	3998.22	2	1518.19	8	3378.21							6	3998.22	2	1518.19	8	3378.21
5	Kottayam	6	6	3340.18			6	3340.18							6	3340.18			6	3340.18
6	Idukki	4	4	3270.29			4	3270.29							4	3270.29			4	3270.29
7	Eranakulam	10	9	3433.56			9	3433.56	1	2551.17			1	2551.17	10	3345.32			10	3345.32
8	Thrissur	8	8	4338.47			8	4338.47							8	4338.47			8	4338.47
9	Palakkad	10	9	5249.91			9	5249.91	1	1550.4			1	1550.4	10	4879.96			10	4879.96
10	Malappuram	10	4	3547.57	3	3895.22	7	3696.56	1	1433.36	2	1948.24	3	1776.61	5	3124.72	5	3116.43	10	3120.58
11	Kozhikode	8									8	1615.41	8	1615.41			8	1615.41	8	1615.41
12	Wayanad	4	4	4041.07			4	4041.07							4	4041.07			4	4041.07
13	Kannur	8	3	3424.03			3	3424.03	5	1704.98			5	1704.98	8	2349.62			8	2349.62
14	Kasaragod	4	3	4187.04			3	4187.04	1	793.73			1	793.73	4	3338.71			4	3338.71
	State Total	100	74	3850.12	5	2944.41	79	3792.8	9	1650.39	12	1957.71	21	1826	83	3611.6	17	2247.92	100	3379.77

Table 10 (iv)

ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES **STATE: KERALA** YEAR: 2021-22 **SEASON: WINTER CROP: PADDY** CENTRAL SAMPLE

		,			HY	Varieties					Othe	er Varieties]	Both 1	HY & Others	S	
Sl		Expts ed af	Ir	rigated	Un	-Irrigated		Total	I	rrigated	Un	-Irrigated		Total	Ir	rigated	Un	-Irrigated		Total
No.	District	No. of Expts. Checked at Harvest	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	Thiruvanantha puram	8	8	2510.76			8	2510.76							8	2510.76			8	2510.76
2	Kollam	6	2	4579			2	4579			4	755.26	4	755.26	2	4579	4	755.26	6	2029.84
3	Pathanamthitta	6	6	2807.82			6	2807.82							6	2807.82			6	2807.82
4	Alappuzha	8	6	3124.71			6	3124.71			2	85.12	2	85.12	6	3124.71	2	85.12	8	2364.81
5	Kottayam	6	6	4166.72			6	4166.72							6	4166.72			6	4166.72
6	Idukki	4	3	4461.54			3	4461.54	1	2248.44			1	2248.44	4	3908.26			4	3908.26
7	Ernakulam	10	9	3494.27			9	3494.27	1	3662.46			1	3662.46	10	3511.09			10	3511.09
8	Thrissur	8	8	3095.15			8	3095.15							8	3095.15			8	3095.15
9	Palakkad	10	5	6271.52	4	4211.35	9	5355.89	1	2318			1	2318	6	5612.6	4	4211.35	10	5052.1
10	Malappuram	10	6	4754.61	2	4754.61	8	4754.61	0	0	2	2704.52	2	2704.52	6	4754.61	4	3729.57	10	4344.59
11	Kozhikode	8									8	1551.51	8	1551.51			8	1551.51	8	1551.51
12	Wayanad	4	2	3592.27			2	3592.27	2	2816.22			2	2816.22	4	3204.25			4	3204.25
13	Kannur	8	6	4357.69			6	4357.69			2	1355.9	2	1355.9	6	4357.69	2	1355.9	8	3607.24
14	Kasaragod	4	1	4533.98			1	4533.98	3	3862.56			3	3862.56	4	4030.42			4	4030.42
	State Total	100	68	3782.11	6	4392.44	74	3831.6	8	3181.13	18	1318.01	26	1891.28	76	3718.85	24	2086.62	100	3327.12

									Т	able 10(v)										
	ESTIMATED YII STATE: KERAL		ATE			IELDIN(2021-22	3 AN			RIETIES (N: SUMME		ROPS F		RRIGATE CROP: PAD		D UNIRR	IGA'	FED CAT		
	STATE: KEKAL			11		Varieties		SE	ASU	N. SUMME		r Varieties	•	KOF: FAD	ועי	I	Both H	IY & Other		LE
		ecke st	Iı	rrigated	UN-	-Irrigated		Total	I	rrigated	UN-	Irrigated		Total	Ir	rigated	UN-	-Irrigated		Total
Sl. No.	District	No.ofexpts.Checked at harvest		et e		ı		te		te (ite 0		e te		et e		e e		te
140.		ofexp at h	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.	Ze	Yie K	Z 9	Yie K	e N	Yie K	Z e	Yie K	Z e	Yie K	Z 9	Yie K	Z 9	Yie K	Z	Yie K	Z 2	Yie K
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Thiruvanantha- puram	8	7	3134.03			7	3134.03	1	3905.04	0	0	1	3905.04	8	3230.41			8	3230.41
2	Kollam	6	6	2848.99			6	2848.99							6	2848.99			6	2848.99
3	Pathanamthitta	6	6	1931.13			6	1931.13							6	1931.13			6	1931.13
4	Alappuzha	8	6 2848.99 6 1931.13 8 3407.53				8	3407.53							8	3407.53			8	3407.53
5	Kottayam	6	6	3806.88			6	3806.88							6	3806.88			6	3806.88
6	Idukki	4	4	5249.09			4	5249.09							4	5249.09			4	5249.09
7	Ernakulam	10	10	3532.64			10	3532.64							10	3532.64			10	3532.64
8	Thrissur	8	8	6278.54			8	6278.54							8	6278.54			8	6278.54
9	Palakkad	10	10	4902.17			10	4902.17							10	4902.17			10	4902.17
10	Malappuram	10	10	6462.32			10	6462.32							10	6462.32			10	6462.32
11	Kozhikode	8	4	3082.92	1	175.49	5	2501.44	1	3911.92	2	765.93	3	1814.59	5	3248.72	3	569.12	8	2243.87
12	Wayanad	4	4	3212.28			4	3212.28							4	3212.28			4	3212.28
13	Kannur	6	4	3117.8			4	3117.8	2	3596.47			2	3596.47	6	3277.36			6	3277.36
14	Kasaragod	6	4	3539.06			4	3539.06	2	3524.9			2	3524.9	6	3534.34			6	3534.34
	State Total	100	91	4095.87	1	175.49	92	4053.26	6	3676.62	2	765.93	8	2948.95	97	4069.94	3	569.12	100	3964.92

								r ·	Fable	10 (vi)										
	ESTIMATED YI	ELD F	RATE	S OF HIG	H YIE	LDING A	ND O	THER VA	ARIE'	TIES OF	CRO	PS FOR	IRR	IGATED	ANI	UNIRRI	GA7	TED CATI	EGOR	IES
	STATE: KERALA			VFA	R: 202	1-22		SEASON	J. STIN	MMFD			CI	ROP: PAD	DV		(CENTRAL	SAMD	TF
	STATE. REKALE			ILA		Varieties		BEASOI	· BUI		Othor	Varieties	CI	XOI . I AD				HY & Othe		
		heck est						T . 1						m . 1	_		1			T
Sl.	District	ts.C	11	rigated	UN	-Irrigated		Total	Ir	rigated	UN-	Irrigated		Total		rrigated	UI	N-Irrigated		Total
No	District	o.ofexpts.Che	of ts.	ld te Ha	of ts.	id te Ha	of ts.	te Ha	of ts.	te Ed	of ts.	te Ha	of ts.	Ha Ha	of ts.	ld te Ha	10 t	ld te Ha	of ts.	ld te Ha
		No.ofexpts.Check ed at harvest	No. of expts.	Yield Rate Kg/Ha	No. of events	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha												
		-															1			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	8	19	20	21
1	Thiruvanantha- puram	8	8	2768.07			8	2768.07							8	2768.07			8	2768.07
2	Kollam	6	6	2353.71			6	2353.71							6	2353.71			6	2353.71
3	Pathanamthitta	6	4	1528.3	2	76.28	6	1044.29							4	1528.3	2	76.28	6	1044.29
4	Alappuzha	8	8	5508.06			8	5508.06							8	5508.06			8	5508.06
5	Kottayam	6	5	4980.59			5	4980.59	1	4060.26			1	4060.26	6	4827.2			6	4827.2
6	Idukki	4	3	4254.87			3	4254.87	1	1292.17			1	1292.17	4	3514.2			4	3514.2
7	Ernakulam	10	9	2612.82			9	2612.82	1	1893.14			1	1893.14	10	2540.85			10	2540.85
8	Thrissur	8	8	5272.47			8	5272.47							8	5272.47			8	5272.47
9	Palakkad	10	9	3974.4			9	3974.4	1	727.22			1	727.22	10	3649.68			10	3649.68
10	Malappuram	10	8	5423.89	2	3433.98	10	5025.91							8	5423.89	2	3433.98	10	5025.91
11	Kozhikode	8	7	3211.01			7	3211.01			1	2376.4	1	2376.4	7	3211.01	1	2376.4	8	3106.69
12	Wayanad	4	4	3923.46			4	3923.46							4	3923.46			4	3923.46
13	Kannur	6	6	4549.54			6	4549.54							6	4549.54			6	4549.54
14	Kasaragod	6	5	4411.12			5	4411.12	1	3504.13			1	3504.13	6	4259.96			6	4259.96

2295.38

2308.89

2376.4

95

3873.35 5

1879.38

100

3773.66

3961.02

100

1755.13

3867.15

State Total

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	a hII	1	11 1	(vii)	
16			v	V 11 /	

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

		STAT	E: KI	ERALA		YEAR: 202	1-22	SEASO	ON: A	NNUAL		CROP:BA	ANANA	1	STA	TE SAMI	PLE			
		pa			HY	Varieties					Othe	r Varieties				В	oth H	Y & Other	S	
		heck	Ir	rigated	UN-	Irrigated		Total	In	igated	UN-I	rrigated	1	Total	Irr	igated	UN-	Irrigated		Total
Sl. No	District	No.ofexpts.Checked at harvest	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	Thiruvanantha- puram	4	1	35566.7			1	35566.67	3	14489			3	14488.9	4	19758.3			4	19758.33
2	Kollam	4							1	16000	3	13244.4	4	13933.3	1	16000	3	13244.4	4	13933.33
3	Pathanamthitta																			
4	Alappuzha	4							3	15411	1	15333.3	4	15391.7	3	15411.1	1	15333.3	4	15391.67
5	Kottayam	4			1	22466.67	1	22466.67			3	18288.9	3	18288.9			4	19333.3	4	19333.33
6	Idukki																			
7	Ernakulam	4	1	44466.7			1	44466.67	3	19644			3	19644.4	4	25850			4	25850
8	Thrissur	6	1	29666.7			1	29666.67	5	19793			5	19793.3	6	21438.9			6	21438.89
9	Palakkad	6	2	31333.3			2	31333.33	4	18042			4	18041.7	6	22472.2			6	22472.22
10	Malappuram	6							4	19825	2	12716.7	6	17455.6	4	19825	2	12716.7	6	17455.56
11	Kozhikode	4							2	17467	2	18383.3	4	17925	2	17466.7	2	18383.3	4	17925
12	Wayanad	0																		
13	Kannur	4							3	18080	1	11866.7	4	16526.7	3	18080	1	11866.7	4	16526.67
14	Kasaragod	4	1	46666.7			1	46666.67	3	18400			3	18400	4	25466.7			4	25466.67
	State Total	50	6	36505.6	1	22466.67	7	34500	31	18046	12	15333.3	43	17289.3	37	21039.8	13	15882.1	50	19698.8

Table 10 (viii)

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

STATE: KERALA **YEAR: 2021-22 SEASON: ANNUAL** CROP:BANANA CENTRAL SAMPLE

		eq			HY	Varieties					Othe	r Varieties					Both 1	HY & Others	S	
		heck	1	rrigated	UN-I	rrigated		Total	Ir	rigated	UN	-Irrigated		Total	Iı	rigated		UN-Irrigated	l	Total
Sl. No	District	No.ofexpts.Checked at harvest	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	Thiruvanantha- puram	4							4	13083.3			4	13083.3	4	13083.3			4	13083.33
2	Kollam	4							2	9466.67	2	11200	4	10333.3	2	9466.67	2	11200	4	10333.33
3	Pathanamthitta																			
4	Alappuzha	4							3	14911.1	1	12333.3	4	14266.7	3	14911.1	1	12333.3	4	14266.67
5	Kottayam	4									4	13933.3	4	13933.3			4	13933.3	4	13933.33
6	Idukki																			
7	Ernakulam	4	1	27666.7			1	27666.67	3	15066.7			3	15066.7	4	18216.7			4	18216.67
8	Thrissur	6	1	17986.7			1	17986.67	5	11733.3			5	11733.3	6	12775.6			6	12775.56
9	Palakkad	6							6	17577.8			6	17577.8	6	17577.8			6	17577.78
10	Malappuram	6	1	32466.7			1	32466.67	4	17708.3	1	20400	5	18246.7	5	20660	1	20400	6	20616.67
11	Kozhikode	4	1	24000			1	24000	2	15316.7	1	12533.3	3	14388.9	3	18211.1	1	12533.3	4	16791.67
12	Wayanad																			
13	Kannur	4	2	23283.3			2	23283.33	2	16783.3			2	16783.3	4	20033.3			4	20033.33
14	Kasaragod	4							4	16550			4	16550	4	16550			4	16550
	State Total	50	6	24781.1	0	0	6	24781.11	35	15044.8	9	13711.1	44	14772	41	16469.6	9	13711.1	50	15973.07

		Table 10 (ix)		
ESTIMATED YIELD RA	TES OF HIGH YIELDING AN	ND OTHER VARIETIES OF (CROPS FOR IRRIGATED A	AND UNIRRIGATED CATEGORIES
STATE: KER	RALA YEAR: 2021-22	SEASON: ANNUAL	CROP:TAPIOCA	STATE SAMPLE

	51	AIE:	KEK	ALA		YEAK:	2021-	-22	5E	ASON: AN	NUAL		CKU	P:TAPIOC	A	51.	AILS	SAMPLE		
		pa			HY	Varieties					Other	Varieties					Both	HY & Other	rs	
		heck	Ir	rigated	UN-I	[rrigated		Total	Ir	rigated	UN-	Irrigated		Total	I	rrigated	UN-	-Irrigated		Total
Sl. No	District	No.ofexpts.Checked at harvest	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	Thiruvanantha- puram	4									4	43937.5	4	43937.5			4	43937.5	4	43937.5
2	Kollam	4									4	27562.5	4	27562.5			4	27562.5	4	27562.5
3	Pathanamthitta																			
4	Alappuzha																			
5	Kottayam	4									4	30906.3	4	30906.3			4	30906.25	4	30906.25
6	Idukki																			
7	Ernakulam	4							1	34000	3	36416.7	4	35812.5	1	34000	3	36416.67	4	35812.5
8	Thrissur	4	2	50000			2	50000	2	52500			2	52500	4	51250			4	51250
9	Palakkad	4	2	70000			2	70000	2	70813			2	70812.5	4	70406.3			4	70406.25
10	Malappuram	4							2	40563	2	25687.5	4	33125	2	40562.5	2	25687.5	4	33125
11	Kozhikode	4			2	76250	2	76250			2	60625	2	60625			4	68437.5	4	68437.5
12	Wayanad																			
13	Kannur	4							2	69688	2	24750	4	47218.8	2	69687.5	2	24750	4	47218.75
14	Kasaragod	4									4	36681.3	4	36681.3			4	36681.25	4	36681.25
	State Total	40	4	60000	2	76250	6	65416.67	9	55681	25	35509	34	40848.5	13	57009.6	27	38526.85	40	44533.75

Γabl	le	10	(x)	

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

		ST	ATE:	KERALA	\	YEAR:	2021-	-22 SF	EASON	: ANNUAL		CROP	TAP	IOCA	C	ENTRAL S	SAMP	LE		
		pe			Н	Y Varieties				(Other Va	rieties					Both	HY & Oth	ers	
		heck	Ir	rigated	UN-	-Irrigated		Total	I	rrigated	UN-Ir	rigated	ŗ	Fotal	Iı	rigated	UN-	Irrigated		Total
Sl. No	District	No.ofexpts.Checked at harvest	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	Thiruvanantha- puram	4							1	17750	3	16416 .67	4	16750	1	17750	3	16416.67	4	16750
2	Kollam	4	1	66750	1	38250	2	52500			2	33750	2	33750	1	66750	3	35250	4	43125
3	Pathanamthitta																			
4	Alappuzha																			
5	Kottayam	4			2	24812.5	2	24812.5			2	29375	2	29375			4	27093.75	4	27093.75
6	Idukki																			
7	Ernakulam	4			2	49625	2	49625	1	102250	1	8000	2	55125	1	102250	3	35750	4	52375
8	Thrissur	4	2	20125			2	20125			2	24250	2	24250	2	20125	2	24250	4	22187.5
9	Palakkad	4							2	29250	2	43125	4	36188	2	29250	2	43125	4	36187.5
10	Malappuram	4	2	53375			2	53375	1	22500	1	11000	2	16750	3	43083.3	1	11000	4	35062.5
11	Kozhikode	4			1	13000	1	13000			3	15541 .67	3	15542			4	14906.25	4	14906.25
12	Wayanad																			
13	Kannur	4							2	64812.5	2	19312 .5	4	42063	2	64812.5	2	19312.5	4	42062.5
14	Kasaragod	4							2	31562.5	2	22250	4	26906	2	31562.5	2	22250	4	26906.25
	State Total	40	5	42750	6	33354.17	11	37625	9	43750	20	22950	29	29405	14	43392.9	26	25350.96	40	31665.63

											Table	10 (xi)								
	ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARITIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES STATE: KERALA YEAR: 2021-22 SEASON: PERENNIAL CROP: COCONUT STATE SAMPLE HY Varieties Other Varieties Both HY & Others UN- UN-																			
	Si	ГАТЕ	: KE	RAL				EAR: 202	21-22	SEA				CROP:CO	CONU	Γ S				
		at					ties				Othe	r Varieties					Both 1	HY & Others		
		ecked st		gate d	Irri	gate d	7	Fotal	Irr	rigated	UN-	Irrigated]	Γotal	Ir	rigated	UN-l	Irrigated		Total
Sl. No.	District	No.ofexpts.Checked harvest	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	Thiruvanantha- puram	4									4	8467.1	4	8467.1			4	8467.1	4	8467.1
2	Kollam	4							1	4956	3	5250	4	5176.5	1	4956	3	5250	4	5176.5
3	Pathanamthitta																			
4	Alappuzha	4									4	12264.8	4	12264.8			4	12264.8	4	12264.75
5	Kottayam	4									4	8057.1	4	8057.1			4	8057.1	4	8057.1
6	Idukki																			
7	Ernakulam	4									4	6938.8	4	6938.8			4	6938.8	4	6938.8
8	Thrissur	6							6	10685			6	10684.5	6	10684.5			6	10684.53
9	Palakkad	6							5	9414	1	3412.8	6	8413.5	5	9413.64	1	3412.8	6	8413.5
10	Malappuram	6							2	12041	4	12365.6	6	12257.3	2	12040.8	4	12365.6	6	12257.33
11	Kozhikode	4									4	11556.3	4	11556.3			4	11556.3	4	11556.25
12	Wayanad																			
13	Kannur	4									4	6972	4	6972			4	6972	4	6972
14	Kasaragod	4							4	12036			4	12036	4	12036			4	12036
	State Total	50	0	0	0	0	0	0	18	10464	32	8926.54	50	9480.12	18	10464.3	32	8926.54	50	9480.12

									Tab	ole 10 (xii)										
	ESTIMATED Y	TELD R	ATE	S OF HIG	GH YIE	LDIN	G AND	OTHER	VAF	RITIES OF	CRO				ND UN	NIRRIGA	TEI	CATEG	ORI	ES
	STAT	E: KER	ALA	YEA	R: 2021			SEASON	: PEF	RENNIAL		CROP	:COC	ONUT	(CENTRAI				
		 	-	• 4 1		arieties				T 1 1 1	-	r Varieties		T 4 1	-	• 4 1	-	HY & Oth	ers	TD 4.1
Sl.		at at	Ir	rigated	UN-Irr	igated	1	otal		Irrigated	UN	-Irrigated		Total	Ir	rigated	UN	-Irrigated		Total
No.	District	No.ofexpts.Ch ecked at harvest	No. of expts.	Yield Rate Kg/Ha	No. of expts.	Yield Rate Kg/Ha	No. of expts.		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	Thiruvanantha- puram	4									4	10498.8	4	10498.8			4	10498.8	4	10498.75
2	Kollam	4							2	4893	2	7350	4	6121.5	2	4893	2	7350	4	6121.5
3	Pathanamthitta	0																		
4	Alappuzha	4							1	10285.8	3	8184.4	4	8709.75	1	10285.8	3	8184.4	4	8709.75
5	Kottayam	4									4	6944.3	4	6944.3			4	6944.3	4	6944.3
6	Idukki																			
7	Eranakulam	4	1	10324.6			1	10324.6	1	5810.2	2	6980.6	3	6590.47	2	8067.4	2	6980.6	4	7524
8	Thrissur	6							5	8833.28	1	14914.4	6	9846.8	5	8833.28	1	14914.4	6	9846.8
9	Palakkad	6							6	8160.7			6	8160.7	6	8160.7			6	8160.7
10	Malappuram	6							1	4500.8	5	13669.4	6	12141.3	1	4500.8	5	13669.4	6	12141.33
11	Kozhikode	4							1	11610	3	10133.7	4	10502.8	1	11610	3	10133.7	4	10502.75
12	Wayanad																			
13	Kannur	4							4	8526			4	8526	4	8526			4	8526
14	Kasaragod	4							4	16411.8			4	16411.8	4	16411.8			4	16411.8
	State Total	50	1	10324.6	0	0	1	10324.6	25	9394.98	24	9860.38	49	9622.93	26	9430.74	24	9860.38	50	9636.97

Table 10) (xiii)
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ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARITIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES

	STAT	ГЕ: КІ	ERAL	A	YI	EAR: 2021	1-22		SEAS	ON: PEREN	NIAI	L C	ROP:	PEPPER		STAT	E SAN	MPLE		
		pa			HY V	arieties					Othe	r Varieties					Both H	Y & Others	;	
		heck	Iı	rigated	UN-I	rrigated		Total	I	rrigated	UN	-Irrigated		Total	Irı	igated	UN-	Irrigated	7	Fotal
SI. No.	District	No.ofexpts.Checked at harvest	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	Thiruvanantha- puram	4			1	517.68	1	517.68			3	346.1	3	346.1			4	388.99	4	388.99
2	Kollam	4							1	498	3	367.36	4	399.99	1	497.88	3	367.36	4	399.99
3	Pathanamthitta																			
4	Alappuzha																			
5	Kottayam	4			2	373.96	2	373.96			2	487.62	2	487.62			4	430.79	4	430.79
6	Idukki																			
7	Ernakulam	4							3	321	1	194.31	4	289.27	3	320.92	1	194.31	4	289.27
8	Thrissur	4	1	530.15			1	530.15	2	604	1	1028.76	3	745.48	3	579.28	1	1028.76	4	691.65
9	Palakkad	4	1	1171.75			1	1171.75	2	308	1	1071.29	3	562.65	3	596.14	1	1071.29	4	714.93
10	Malappuram	4							1	677	3	105.83	4	248.58	1	676.8	3	105.83	4	248.58
11	Kozhikode	4									4	332.9	4	332.9			4	332.9	4	332.9
12	Wayanad																			
13	Kannur	4									4	230.98	4	230.98			4	230.98	4	230.98
14	Kasaragod	4	1	631.34			1	631.34	3	572			3	572.19	4	586.97			4	586.97
	State Total	40	3	777.74	3	421.87	6	599.81	12	473	22	362.86	34	401.8	15	534.11	25	369.94	40	431.51

Table 10 (xiv)

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

	STA	TE: KI	ERAL	A	7	EAR: 2021	1-22	SE	ASON	N: PERENN	IAL	CR	OP:P	EPPER	(CENTRAL	SAM	PLE		
		ಶ			Н	Varieties					Othe	r Varieties				Во	oth HY	& Others	3	
		heck	Ir	rigated	UN	-Irrigated		Total	I	rrigated	UN	I-Irrigated		Total	Iı	rigated	UN-	Irrigated		Total
Sl. No.	District	No.ofexpts.Checked at harvest	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	Thiruvanantha- puram	4									4	119.7	4	119.7			4	119.7	4	119.7
2	Kollam	4									4	281.94	4	281.94			4	281.94	4	281.94
3	Pathanamthitta																			
4	Alappuzha																			
5	Kottayam	3			1	226.58	1	226.58		0	2	141.89	2	141.89			3	170.12	3	170.12
6	Idukki																			
7	Ernakulam	4	1	713.46	2	436.11	3	528.56	1	222.18			1	222.18	2	467.82	2	436.11	4	451.96
8	Thrissur	4							3	147.02	1	431.89	4	218.24	3	147.02	1	431.89	4	218.24
9	Palakkad	4	1	439.96			1	439.96	1	249.31	2	380.56	3	336.81	2	344.63	2	380.56	4	362.6
10	Malappuram	4			1	118.79	1	118.79			3	428.71	3	428.71			4	351.23	4	351.23
11	Kozhikode	4	1	955.44			1	955.44	1	943.71	2	501.18	3	648.69	2	949.57	2	501.18	4	725.38
12	Wayanad																			<u> </u>
13	Kannur	4			1	577.81	1	577.81			3	266.17	3	266.17			4	344.08	4	344.08
14	Kasaragod	4							4	837.02			4	837.02	4	837.02			4	837.02
	State Total	39	3	702.95	5	359.08	8	488.03	10	520.43	21	293.83	31	366.93	13	562.55	26	306.38	39	391.77

Table 10 (xv)

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

STATE: KERALA **YEAR: 2021-22** SEASON: PERENNIAL **CROP: ARECANUT** STATE SAMPLE

					HY	varieties					Othe	r varieties]	Both 1	Hy & Others	5	
		at a	Iı	rrigated	Un	-irrigated		Total	I	rrigated	Un-	irrigated		Total	I	rrigated	Un	-irrigated		Total
Sl. No.	District	Checked at	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	Thiruvanantha- puram	4									4	848.38	4	848.38			4	848.38	4	848.38
2	Kollam	4									4	1365.04	4	1365.04			4	1365.04	4	1365.04
3	Pathanamthitta																			
4	Alappuzha																			
5	Kottayam	4									4	1294.44	4	1294.44			4	1294.44	4	1294.44
6	Idukki																			
7	Eranakulam	4									4	923.39	4	923.39			4	923.39	4	923.39
8	Thrissur	4							4	1000			4	1000.09	4	1000.09			4	1000.09
9	Palakkad	4	1	3499.96			1	3499.96	3	1160			3	1159.74	4	1744.79			4	1744.79
10	Malappuram	4							3	917	1	904.17	4	914.07	3	917.37	1	904.17	4	914.07
11	Kozhikode	4									4	811.93	4	811.93			4	811.93	4	811.93
12	Wayanad																			
13	Kannur	4							1	1338	3	926.08	4	1028.94	1	1337.52	3	926.08	4	1028.94
14	Kasaragod	4							2	2748	2	2719.46	4	2733.72	2	2747.98	2	2719.46	4	2733.72
	State Total	40	1	3499.96	0	0	1	3499.96	13	1313	26	1157.46	39	1209.21	14	1468.94	26	1157.46	40	1266.48

Table 10 (xvi)

ESTIMATED YIELD RATES OF HIGH YIELDING AND OTHER VARIETIES OF CROPS FOR IRRIGATED AND UNIRRIGATED CATEGORIES STATE: KERALA **YEAR: 2021-22 SEASON: PERENNIAL CROP: ARECANUT CENTRAL SAMPLE**

		d at			HY	varieties					Othe	r varieties]	Both H	y & Others	;	
O	D:-4:-4	checke vest	Ir	rigated		Un- igated		Total	I	rrigated	Un-	irrigated		Total	I	rrigated	Un-	irrigated		Total
Sl.No.	District	No.of expts checked harvest	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	Thiruvanantha puram	4									4	365.02	4	365.02			4	365.02	4	365.02
2	Kollam	4			2	736.9	2	736.9			2	851.94	2	851.94			4	794.42	4	794.42
3	Pathanamthitta																			
4	Alappuzha																			
5	Kottayam	4									4	666.17	4	666.17			4	666.17	4	666.17
6	Idukki																			
7	Eranakulam	4							1	933.95	3	1312.19	4	1217.63	1	933.95	3	1312.19	4	1217.63
8	Thrissur	4	1	584.27			1	584.27	3	958.87			3	958.87	4	865.22			4	865.22
9	Palakkad	4			2	650.91	2	650.91	2	637.09			2	637.09	2	637.09	2	650.91	4	644
10	Malappuram	4									4	875.62	4	875.62			4	875.62	4	875.62
11	Kozhikode	4							1	948.75	3	1334.02	4	1237.7	1	948.75	3	1334.02	4	1237.7
12	Wayanad																			
13	Kannur	4									4	1618.27	4	1618.27			4	1618.27	4	1618.27
14	Kasaragod	4	1	3729.48			1	3729.48	3	2443.36			3	2443.36	4	2764.89			4	2764.89
	State Total	40	2	2156.88	4	693.91	6	1181.57	10	1336.35	24	989.29	34	1091.36	12	1473.11	28	947.09	40	1104.89

4.2) Crop-wise rate of application of fertilizers and differential yield rates according to inputs for paddy during Autumn, Winter and Summer for State and Central samples and for the whole year crops Banana, Tapioca, Coconut, Pepper and Arecanut for State and Central samples are given in the Tables 11(i), 11(ii), 11(iii), 11(v), 11(v), 11(vi), 11(vii), 11(xii), 11(xii), 11(xii), 11(xiv), 11(xv) & 11(xvi) respectively.

Table 11 (i) - CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS

STATE: KERALA YEAR: 2021-22 SEASON: AUTUMN CROP: PADDY STATE SAMPLE

Sl.	District	Expts. Checked at harvest stage		Expts. Treated with Fertilizers only			Expts. Not Treated								
No.	District				Yield		No. of E	xperiment	S]	Rate of App	olication		with Fertilizers	
		No.	. Yield Rate	No.	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	Thiruvanantha- puram	8	3612.56	4	3632.83	8	7	7	8	3612.56	55.99	20.87	34.03		
2	Kollam	6	3656.47			4	4	4	4	3175.26	33.85	19.25	19.5	2	4618.9
3	Pathanamthitta	6	3462.69			6	6	6	6	3462.69	37.1	29.2	38.2		
4	Alappuzha	8	2400.32	4	4241.46	6	6	5	6	3187.75	73.93	40.26	50.8	2	38.04
5	Kottayam	6	3554.24	6	3554.24	6	6	6	6	3554.24	67.01	51.27	74.65		
6	Idukki	4	3263.58	4	3263.58	4	4	4	4	3263.58	45.23	24.18	19.82		
7	Ernakulam	10	3824.13	2	3161.66	8	8	7	8	3693.74	35.75	16.13	32.29	2	4345.69
8	Thrissur	8	3174.92	3	3348.8	5	5	5	5	3560.77	30.6	14.8	32.4	3	2531.84
9	Palakkad	10	3469.49	8	3183.85	10	8	9	10	3469.49	50.09	34.28	51.2		
10	Malappuram	10	3892.73	3	3874.41	9	6	2	9	3660.28	29.74	12.32	23.95	1	5984.76
11	Kozhikode	12	1150.56	1	639.2	6	6	3	7	1443.3	43.03	37.23	44	5	740.72
12	Wayanad														
13	Kannur	8	2096.28			4	3	2	4	2464.85	54.5	19.67	79	4	1727.7
14	Kasaragod	4	2779.58			3	3	3	3	2751.07	29.67	29.67	46	1	2865.12
	State Total	100	3041.56	35	3428	79	72	63	80	3238.64	45.11	26.86	41.99	20	2253.25

Table 11 (i)

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

STATE: KERALA YEAR:2021-22 SEASON: AUTUMN **CROP: PADDY** STATE SAMPLE

Sl. No.	District Expts.Treated with Manure only		with Manure Treated			epts. Not ated with Ianure	(be Fer	ts. Treated oth) with tilizers & Manure	with I	Not Treated 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			4	3592.29	4	3632.83	4	3592.29			8	3612.56
2	Kollam	2	4618.9	6	3656.47			4	3175.26			6	3656.47
3	Pathanamthitta			6	3462.69			6	3462.69			6	2254.58
4	Alappuzha	2	38.04	4	559.19	4	4241.46	2	1080.34				2400.32
5	Kottayam					6	3554.24					6	3554.24
6	Idukki					4	3263.58					4	3263.58
7	Ernakulam			6	3871.11	4	3753.67	6	3871.11	2	4345.69	8	3693.74
8	Thrissur	2	3236.56	4	3557.64	4	2792.2	2	3878.72	1	1122.4	7	3468.14
9	Palakkad			2	4612.05	8	3183.85	2	4612.05			10	3469.49
10	Malappuram	1	5984.76	7	3900.58	3	3874.41	6	3553.22			10	3892.73
11	Kozhikode	5	740.72	11	1197.05	1	639.2	6	1577.32			12	1150.56
12	Wayanad												
13	Kannur	3	2059.06	7	2290.94	1	733.61	4	2464.85	1	733.61	7	2290.94
14	Kasaragod	1	2865.12	4	2779.58			3	2751.07			4	2779.58
	State Total	16	2157.35	61	2846.37	39	3346.85	45	3091.36	4	2636.85	96	2982.92

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

CROP: PADDY STATE:KERALA YEAR:2021-22 SEASON: AUTUMN CENTRAL SAMPLE

Sl.			ts. Checked arvest stage	-	reated with izers only	Experiments with Fertilizers									Expts. Not Treated with Fertilizers	
No.	District						No. of E	xperimen	ts	Ra	te of Appli	ication		No.	Yield	
		No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K		Rate	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	Thiruvananthapuram	8	4641.95	1	4213.08	8	8	8	8	4641.95	92.25	28.73	44.5			
2	Kollam	6	3783.01	4	3603.49	5	4	4	5	3659.96	35.14	17.25	29.85	1	4398.24	
3	Pathanamthitta	6	2297.08			6	6	6	6	2297.08	45.5	18.17	53.17			
4	Alappuzha	8	4069.52	5	4730.96	6	6	6	6	4570.13	76.33	30.5	68.5	2	2567.72	
5	Kottayam	6	3178.28	4	3602.07	4	5	4	5	3510.49	33.5	30	38.75	1	1517.24	
6	Idukki	4	2264.72	2	1712.82	4	4	3	4	2264.72	66.5	46	67.33			
7	Ernakulam	10	3077.76	2	3085.38	7	5	6	7	3114.18	67.71	25.6	48.5	3	2992.77	
8	Thrissur	8	3781.2	2	4876	8	7	6	8	3781.2	30	14.43	34.5			
9	Palakkad	10	3364.04	5	4292	8	8	8	8	3523.79	65.63	29.63	60.25	2	2725.05	
10	Malappuram	10	4018.07	4	4620.31	7	5	4	7	3793.04	56.14	19.4	52.5	3	4543.15	
11	Kozhikode	12	1673.51	4	2367.86	9	8	8	9	2098.5	54.54	16.75	46.88	3	398.56	
12	Wayanad															
13	Kannur	8	4177.05			7	5	4	7	4063.45	18.14	22.2	16.75	1	4972.23	
14	Kasaragod	4	4089			4	4		4	4089	24.75	24.75				
	State Total	100	3390.04	33	3801.55	83	75	67	84	3496.75	51.24	24.88	46.79	16	2829.79	

Table 11 (ii) CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS YEAR:2021-22 SEASON: AUTUMN **CENTRAL SAMPLE** STATE:KERALA **CROP: PADDY**

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			7	4703.22	1	4213.08	7	4703.22			8	4641.95
2	Kollam	1	4398.24	2	4142.05	4	3603.49	1	3885.86			6	3783.01
3	Pathanamthitta			6	2297.08			6	2297.08			6	1796.59
4	Alappuzha	2	2567.72	3	2967.13	5	4730.96	1	3765.96				4069.52
5	Kottayam	1	1517.24	2	2330.7	4	3602.074	1	3144.16			6	3178.28
6	Idukki			2	2816.61	2	1712.82	2	2816.61			4	2264.72
7	Ernakulam	1	2433.44	6	3010.32	4	3178.91	5	3125.7	2	3272.43	8	3029.09
8	Thrissur			6	3416.27	2	4876	6	3416.27			8	3781.2
9	Palakkad			3	2243.43	7	3844.3	3	2243.43	2	2725.05	8	3523.79
10	Malappuram	3	4543.15	6	3616.58	4	4620.31	3	2690.01			10	4018.07
11	Kozhikode	2	573.4	7	1508.83	5	1904.06	5	1883.01	1	48.88	11	1821.20
12	Wayanad												
13	Kannur	1	4972.23	8	4177.05			7	4063.45			8	4177.05
14	Kasaragod			4	4089			4	4089			4	4089
	State Total		3021.17	62	3250.14	38	3618.29	51	3299.53	5	2408.77	95	3410.07

							Table 1	1 (iii)							
	CROPW	ISE RA	ATE OF APP	LICAT	ION OF FE	RTILIZ	ZERS ANI) DIFFERI	ENTIAL YII	ELD RATES	S ACCOR	DING TO	INPUTS		
	STATE: KERALA		Yl	EAR: 2	021-22		SEASO	N: WINTE	R	CROP: PA	DDY		STATE SA	MPLE	
Sl.		_	ts. Checked arvest stage	with	s. Treated Fertilizers only				Expts. Wi	th Fertilizer	es.			treat	ots. Not ted with tilizers
No.	District				Yield			No. of Ex	xpts.		Ra	te of Applic	cation		Yield
		No.	Yield Rate	No.	Rate	N	P	K	Exclusiv e Total	Yield Rate	N	P	K	No.	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	8	2609.47	4	1535.52	8	8	8	8	2609.47	44.71	18.62	29.49		
2 Kollam 6 3570.73 8 6 6 6 6 6 4353.87 49.53 27 45.3														6	3570.73
3 Pathanamthitta 6 4353.87 5 4346.38 6 6 6 6 4353.87 49.53 27 45.3															
4	Alappuzha	8	3378.22	7	3277.30	8	8	8	8	3378.22	66.49	37.63	8		
5	Kottayam	6	3340.18	4	4050.72	5	4	5	5	3622.17	85	60.25	99.2	1	1930.24
6	Idukki	4	3270.29	4	3270.29	4	4	4	4	3270.29	52.8	43.55	25.13		
7	Ernakulam	10	3345.32	5	1516.67	9	7	7	9	2832.99	23.78	18	15.71	1	2551.17
8	Thrissur	8	4338.47	5	4171.13	8	7	7	8	4338.47	60.13	29	63.57		
9	Palakkad	10	4879.96	7	5529.54	8	8	7	8	5516.65	126.52	89.89	66.54	2	2333.2
10	Malappuram	10	3120.58			8	5	2	8	3534.84	54.22	25.76	20.5	2	1463.54
11	Kozhikode	8	1615.41	1	81.49	2	2	1	3	1402.58	71.8	16.3	9	5	1743.10
12	Wayanad	4	4041.07	3	4036.71	4	2	4	4	4041.07	17.56	10.5	25.55		
13	Kannur	8	2349.62	1	5015.92	5	5	3	5	2531.98	46.36	10.5	39	3	2045.68
14	Kasaragod	4	3338.71			3	3	4	4	3338.71	20	20	23.75		
	State Total	100	3379.77	46	3575.05	78	69	66	80	3552.75	55.3	31.31	36.21	20	2417.59
							conto	i							

						Table 11	(iii)						
	CROPWISI	E RATE C	F APPLICAT	ION OF	FERTILIZEI	RS AND I	DIFFERENTI	AL YIEL	D RATES AC	CORDING	TO INPUT	'S	
	STATE: KERAL	A	YEAR: 2021	1-22	SEAS	ON: WIN	TER	CRO	P: PADDY		STATE SA	AMPLE	
Sl. No.	District		Treated with nure only	_	Treated with nanure	-	Not Treated manure	with F	reated (both) ertilizers & lanure		otTreated tilizers & nure	Fertilize	Freated with rs or Manure or both
140.		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			4	3683.42	4	1535.52	4	3683.42			8	2609.47
2	Kollam 6 3570.73 6 3570.73								6	3570.73			
3	Pathanamthitta									6	2518.63		
4	Alappuzha			1	4084.61	7	3277.30	1	4084.61			8	3378.22
5	Kottayam	1	1930.24	2	1919.10	4	4050.72	1	1907.97			6	3340.18
6	Idukki					4	3270.29					4	3270.29
7	Ernakulam	1	2551.17	5	4092.95	5	1516.67	4	4478.4			10	2804.81
8	Thrissur			3	4617.38	5	4171.13	3	4617.38			8	4338.47
9	Palakkad	1	1550.4	2	3488.4	8	5227.85	1	5426.4	1	3116	9	5075.96
10	Malappuram			8	3534.84	2	1463.54	8	3534.84	2	1463.54	8	3534.84
11	Kozhikode	4	2047.39	6	2052.63	2	303.73	2	2063.13	1	525.97	7	1771.04
12	Wayanad			1	4054.16	3	4036.71	1	4054.16			4	4041.07
13	Kannur	2	2338.7	6	2053.57	2	3237.78	4	1911	1	1459.64	7	2476.76
14	Kasaragod			4	3338.71			4	3338.71			4	3338.71
	State Total	15	2688.21	49	3267.16	51	3381.98	34	3522.58	5	1605.74	95	3300.33

							Table 1	11 (iv)							
	CROP	WISE	RATE OF A	PPLIC	ATION OF I	FERTILIZ	ZERS AN	D DIFFER	RENTIAL YI	ELD RATE	S ACCORI	DING TO I	NPUTS		
	STATE: KER	ALA		YEAR:	: 2021-22	SE	ASON: W	INTER	CRC	P: PADDY	-	CENTI	RAL SAMI	PLE	
Sl.	24		s. Checked arvest stage		ts. Treated Fertilizers only				Expts. Wi	th Fertilizei	rs			trea	pts. Not ited with rtilizers
No.	District		Yield		Yield			No. of Ex	_		Rate	e of Applica	tion		Yield
		No.	Rate	No.	Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No.	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	8	2510.76	2	4451.18	8	6	7	8	2510.76	51.94	32.83	65		
2	Kollam	6	2029.84	1	4696.8	2	2	2	2	4579	32.2	12.5	27.5	4	755.26
3 Pathanamthitta 6 2807.82 2 3129.56 6 6 6 6 2807.82 59.26 38.4 53.17															
4	Alappuzha	8	2364.81	5	3059.60	8	8	3	8	2364.81	60.25	35.5	74		
5	Kottayam	6	4166.72	6	4166.72	6	6	6	6	4166.72	152.33	85.83	96.67		
6	Idukki	4	3908.26	1	4266.55	2	2	2	2	4374.40	56	38.5	21.5	2	3442.12
7	Ernakulam	10	3511.09	5	3658.03	9	9	6	9	3494.27	37.89	32.44	33.5	1	3662.46
8	Thrissur	8	3095.15	5	2934.17	8	8	6	8	3095.15	41.88	11.5	34.17		
9	Palakkad	10	5052.1			9	7	5	9	5355.89	73.44	34.29	49	1	2318
10	Malappuram	10	4344.59	1	5039.39	9	9	4	9	4610.22	35.22	20.11	24.5	1	1953.89
11	Kozhikode	8	1551.51			2	2		2	2576.13	35	35		6	1209.97
12	Wayanad	4	3204.24	1	3635.28	2	2	1	2	3668.94	60	26.5	67	2	2739.55
13	Kannur	8	3607.24	1	5652.92	7	4	4	7	4005.56	61.36	39.25	63.75	1	819
14	Kasaragod	4	4030.41	3	4074.72	3	3	2	3	4074.72	15.67	15.67	9	1	3897.50
	State Total	100	3327.12	33	3755.63	81	74	54	81	3671.81	55.17	32.74	47.6	19	1857.64
							cont	d							

						Tal	ole 11 (iv)						
	CROPWISE	RATE (OF APPLICA	TION (OF FERTILIZ	ZERS A	AND DIFFERE	NTIAL Y	YIELD RATES A	CCORI	DING TO INPUTS		
	STATE: KERALA		YEAR: 2021	-22	SEASO	N: WI	NTER	CROP:	PADDY		CENTRAL S	AMPLE	2
Sl.	District	_	Treated with nure only	_	Treated with manure		ots. Not Treated with manure		s. Treated (both) h Fertilizers & Manure		s.NotTreated with ilizers & Manure	Fer	Treated with tilizers or ure or both
110.		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			6	1863.95	2	4451.18	6	1863.95			8	2510.76
2	Kollam	3	554.81	4	1531.41	2	3026.7	1	4461.2	1	1356.6	5	2164.49
3	Pathanamthitta			4	2646.95	2	3129.56	4	2646.95			6	2807.82
4	Alappuzha			3	1206.83	5	3059.60	3	1206.83			8	2364.81
5	Kottayam					6	4166.72					6	4166.72
6	Idukki	2	3442.12	3	3788.84	1	4266.55	1	4482.26			4	3908.26
7	Ernakulam			4	3289.57	6	3658.77	4	3289.57	1	3662.46	9	3494.27
8	Thrissur			3	3363.46	5	2934.17	3	3363.46			8	3095.15
9	Palakkad	1	2318	10	5052.1			9	5355.89			10	5052.1
10	Malappuram			8	4556.58	2	3496.64	8	4556.58	1	1953.89	9	4610.22
11	Kozhikode	5	1264.55	7	1639.29	1	937.11	2	2576.13	1	937.11	7	1639.28
12	Wayanad	1	1929.84	2	2816.22	2	3592.27	1	3702.6	1	3549.26	3	3089.24
13	Kannur	1	819	7	3315	1	5652.92	6	3731			8	3607.24
14	Kasaragod	1	3897.50	1	3897.50	3	4074.72					4	4030.42
	State Total	14	1702.55	62	3182.52	38	3563.03	48	3614.18	5	2291.87	95	3381.6

						Tab	le 11(v)								
	CROP	WISE R	RATE OF APPL	ICATIO	N OF FERTIL	IZERS A	ND DIFI	FERENT	TIAL YIELI	O RATES AC	CCORDING	G TO INP	UTS		
	STATE: KERAI	ĹA	YEAR:	2021-22	SF	EASON: S	UMME	R	CROP	: PADDY		STA	TE SAM	PLE	
		_							Expts. W	Vith Fertilize	rs .			Ex	pts. Not
Sl. No.	District	-	s. Checked at arvest stage	-	Treated with ilizers only			No. of	Expts.		Rate	of Applica	ntion	trea	nted with rtilizers
		No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusiv e 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 3230.408 1 4015.56 7 7 7 7 3134.031 58.29 20.45 43.89												1	3905.04	
2	Kollam	6	2848.992											6	2848.992
3	Pathanamthitta	6	1931.125	4	1773.67	6	6	6	6	1931.125	43.49	21	28.74		
4	Alappuzha	8	3407.531	7	2112.32	8	8	8	8	2563.546	68.36	45.33	49.58		
5	Kottayam	6	3806.88	4	3550.41	6	6	6	6	3806.88	94	66	89.83		
6	Idukki	4	5249.09	4	5249.09	4	3	3	4	5249.09	49.75	30	20.33		
7	Ernakulam	10	3532.636	4	3625.455	10	10	9	10	3532.636	27.9	16.8	23.22		
8	Thrissur	8	6278.54	6	6283.6	6	6	6	6	6283.6	47.33	20.83	51.5	2	6263.36
9	Palakkad	10	4902.168	7	4913.472	10	10	10	10	4902.168	82.6	41.86	58.94		
10	Malappuram	10	6462.315	5	6076.347	9	9	7	9	6322.644	164.81	58.27	30.85	1	7719.36
11	Kozhikode	8	2243.87	3	2246.003	8	7	5	8	2235.644	45.85	34.54	48.52		
12	Wayanad	4	3212.279			4		4	4	2800.761	35.54				
13	Kannur	6	3277.358	3	3768.259	6	4	2	6	3277.358	107.33	41.25	78		
14	Kasaragod	6	3534.336	2	3441.824	5	5		5	3689.152	20.8	20.8		1	2760.256
	State Total	100	3964.92	50	4060.01	89	81	73	89	3865.42	65.08	34.76	43.62	11	4000.48
						Tabl	e contd.								

Table 11(v)

	STATE: KERALA	1	YEAR: 2021-2	22	SEASON	: SUMM	IER CF	ROP: PA	DDY		STATE SAMP	LE	
Sl. No.	District	_	Treated with	_	s. Treated n manure		Not Treated h manure	(b Fe	ts. Treated oth) with rtilizers & Manure	with 1	s.notTreated Fertilizers & Manure	with	pts. Treated Fertilizers or nure 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	3905.04	7	3118.243	1	4015.56	6	2987.11			8	3230.408
2	Kollam	6	2848.992	6	2848.992							6	2848.992
3	Pathanamthitta			2	2246.036	4	1773.67	2	2246.036			6	1931.125
4	Alappuzha			1	5722.124	7	2112.32	1	5722.124			8	2563.546
5	Kottayam			2	4319.82	4	3550.41	2	4319.82			6	3806.88
6	Idukki					4	5249.09					4	5249.09
7	Ernakulam			6	3470.757	4	3625.455	6	3470.757			10	3532.636
8	Thrissur	2	6263.36	2	6263.36	6	6283.6					8	6278.54
9	Palakkad			1	4235.232	7	4913.472	1	4235.232			10	4902.168
10	Malappuram	1	7719.36	4	6919.044	5	6076.347	3	6652.272			10	6462.315
11	Kozhikode			4	2786.786	4	1700.954	4	2786.786			7	2555.022
12	Wayanad			4	3176.529			4	1503.072			4	3176.529
13	Kannur			3	2786.457	3	3768.259	3	2786.457			6	3277.358
14	Kasaragod	1	2760.256	4	3580.592	2	3441.824	3	3854.037			6	3534.336
	State Total	11	4000.48	46	3686.37	51	3981.69	35	3396.4	0	0	99	3934.66

					ŗ	Table 11	(vi)								
	CROPWISE	E RATI	E OF APPLICAT	TION OF	FERTILIZER	S AND	DIFFER	ENTL	AL YIELD R	ATES ACC	ORDING	TO INP	UTS		
	STATE: KERAL	1	YEAR: 202	21-22	SEASON	N: SUMI	MER		CROP: PAD	DY	CE	NTRAL	SAMPL	Æ	
			ts. Checked at arvest stage		Treated with ilizers only				Expts. Wit	th Fertilizer	s			trea	pts. Not ated with rtilizers
Sl.No	District							No. o	f Expts.		Rate o	of Applica	ation		Yield
		No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	K	No	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	8	2768.066			8	7	8	8	2768.07	61	29.14	44.13		
2 Kollam 6 2353.713 2 5679.1 6 6 6 6 2353.71 49.83 18 30.67															
3 Pathanamthitta 6 1044.29 3 574.069 6 6 4 6 1044.29 80.5 31.33 54.75															
4	Alappuzha	8	5508.063	5	4767.81	8	8	7	8	5508.06	82.75	44	60.86		
5	Kottayam	6	4827.198			5	5	5	5	4980.59	76.2	39.6	57.2	1	4060.26
6	Idukki	4	3514.198	1	1292.17	4	4	2	4	3514.2	87.25	44	57.5		
7	Ernakulam	10	2540.851	5	2884.19	9	9	7	9	2612.82	40.89	22.33	23	1	1893.14
8	Thrissur	8	5272.474	5	6098.13	7	7	7	7	5684.5	78.71	37.71	53.57	1	2388.32
9	Palakkad	10	3649.6848	4	5491.86	7	7	6	7	5029.74	75.29	46.43	50.17	3	429.552
10	Malappuram	10	5025.909	4	5256.92	9	9	8	9	5191.65	53.44	27.56	29.5	1	3534.256
11	Kozhikode	8	3106.686	3	3998.45	7	6	4	7	3447.09	18.2	10.57	19.5	1	723.888
12	Wayanad	4	3923.46	1	4616.05	2	1	2	2	4448.43	15.84	11	14.2	2	3398.49
13	Kannur	6	4549.543			6	3	5	6	4549.54	45.33	24.33	40.8		
14	Kasaragod	6	4259.957	1	4508.54	6	5	4	6	4259.96	32.17	23.6	30.75		
	State Total	100	3773.66	34	4330.54	90	83	75	90	3963.11	56.96	29.26	40.47	10	2068.55
						Page con	ntd.								

					T	able 11(vi)						
	CROPWISE	RATE OF	APPLICATI	ON OF F	ERTILIZERS	AND DI	FFERENTIA	L YIELI	O RATES AC	CORDI	NG TO INPU	TS	
ST	TATE: KERALA	YEAR	: 2021-22	S	EASON: SUM	IMER	(CROP: I	PADDY		CEN	NTRAL	SAMPLE
Sl. No.	District		Freated with nure only	_	Freated with nanure		Not Treated manure	(bo Fer	ts. Treated oth) with tilizers & Manure	with F	NotTreated Fertilizers & Manure	Fertiliz	Treated with ers 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			8	2768.07			8	2768.07			8	2768.066
2	Kollam			4	691.02	2	5679.10	4	691.02			6	2353.713
3	Pathanamthitta			3	1514.51	3	574.07	3	1514.51			6	1044.29
4	Alappuzha			3	6741.82	5	4767.81	3	6741.82			8	5508.063
5	Kottayam	1	4060.26	6	4827.2			5	4980.59			6	4827.198
6	Idukki			3	4254.87	1	1292.17	3	4254.87			4	3514.198
7	Ernakulam	1	1893.14	5	2197.51	5	2884.19	4	2273.61			10	2540.851
8	Thrissur	1	2388.32	3	3896.38	5	6098.13	2	4650.42			8	5272.474
9	Palakkad			3	4413.58	7	3322.3	3	4413.58	3	429.55	7	5029.742
10	Malappuram	1	3534.256	6	4871.9	4	5256.92	5	5139.43			10	5025.909
11	Kozhikode			4	3033.57	4	3179.81	4	3033.57	1	723.89	7	3447.086
12	Wayanad	1	3614.004	2	3947.41	2	3899.51	1		1	3182.98	3	4170.288
13	Kannur			6	4549.54			6	4549.54			6	4549.543
14	Kasaragod			5	4210.24	1	4508.54	5	4210.24			6	4259.957
	State Total	5	3098	61	3687.41	39	3908.56	56	3663.59	5	1039.1	95	3917.58

							Table 1	1 (vii)							
	CROP	WISE I	RATE OF AP	PLICAT	TON OF FE	ERTILIZE	ERS ANI) DIF	FERENTIAL	YIELD RA	TES ACCO	RDING TO	O INPUTS		
	STATE	: KER	ALA	YEAR:	2021-22	SEA	SON: Al	NNUA	L CR	OP: BANA	NA	STATE	SAMPLE		
a.		_	ts. Checked arvest stage	with I	. Treated Fertilizers					With Fertiliz					Not treated Fertilizers
Sl. No.	District	at 116	ar vest stage	•	only			No. of	Expts.		Rate	of Applica	tion	With	r ci tilizers
		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	19758.33	1	16400	4	3	1	4	19758.33	258.21	154.84	133.43		
															13933.33
3	3 Pathanamthitta														
4															
5	Kottayam	4	19333.33	1	26933.3	2	2	1	2	23883.33	205	90	100	2	14783.33
6	Idukki														
7	Ernakulam	4	25850			2		2	2	24733.33	230		330	2	26966.67
8	Thrissur	6	21438.89			6	4	4	6	21438.89	115.67	74	180		
9	Palakkad	6	22472.22			4	3	2	3	18100	376	213.33	360	2	31333.33
10	Malappuram	6	17455.56			2	1	2	3	14988.89	235	240	309	3	19922.22
11	Kozhikode	4	17925			2	1	1	2	21400	162.5	164	164	2	14450
12	Wayanad														
13	Kannur	4	16526.67			4	4	3	5	13221.33	143	149	233.33		
14	Kasaragod	4	25466.67			3	3	2	3	18400	48.67	48.67	34.5	1	46666.67
	State Total	50	19698.8	2	21666.7	33	25	19	34	18524.71	193.08	138.93	220.43	16	21077.08
							Table c	ontd							

Table	11	(vii)

	STATE: KERALA		YEAR: 20	021-22	SEASO	ON: ANI	NUAL	CR	OP: BANANA		STATE SAN	MPLE	
Sl. No.	District		pts. Treated manure only	Expts	s. Treated with manure		Not Treated h manure	(pts. Treated both) with ertilizers & Manure	with	s.NotTreated Fertilizers & Manure		Treated with s 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			3	20877.78	1	16400	3	20877.8			4	19758.3
2	Kollam	4	13933.33	4	13933.33							4	13933.3
3	Pathanamthitta												
4	Alappuzha			4	15391.67			4	15391.7			4	15391.7
5	Kottayam	2	14783.33	3	16800	1	26933.33	1	20833.3			4	19333.3
6	Idukki												
7	Ernakulam	2	26966.67	4	25850			2	24733.3			4	25850
8	Thrissur			6	21438.89			6	21438.9			6	21438.9
9	Palakkad	2	31333.33	6	22472.22			4	18041.7			6	22472.2
10	Malappuram	3	19922.22	6	17455.56			3	14988.9			6	17455.6
11	Kozhikode	2	14450	4	17925			2	21400			4	17925
12	Wayanad												
13	Kannur			4	16526.67			4	16526.7			4	16526.7
14	Kasaragod	1	46666.67	4	25466.67			3	18400			4	25466.7
	State Total	16	21077.08	48	19616.81	2	21666.67	32	18886.7	0	0	50	19698.8

								Table	e 11 (viii)						
	CI	ROPW	ISE RATE O	F APP	LICATION	OF F	ERTILIZ	ZERS A	ND DIFFER	ENTIAL YIEL	D RATES	ACCORI	DING TO	INPUTS	
	STA	TE: K	ERALA	7	YEAR: 2021	1-22	S	EASON	: ANNUAL	CROF	:BANAN	A C	ENTRAL	SAMPLE	E
		Exp	ts. Checked		s. Treated Fertilizers				Expts.	With Fertilize	·s			Expts.	Not treated with
Sl.	District	at H	arvest stage	WILII	only			No	of Expts.		Rate	of Applic	ation		Fertilizers
No	2.50.	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 Thiruvanantha- puram 4 13083.33 2 2 Kollam 4 10333.33 1 10666.7 1 1 1 1 1 10666.67														4	13083.33
2	Kollam	4	10333.33	1	10666.7	1	1	1	1	10666.67	96	96	144	3	10222.22
3 Pathanamthitta															
4	Alappuzha	4	14266.67											4	14266.67
5	Kottayam	4	13933.33			3	3	3	3	16222.22	265.33	265.33	230.33	1	7066.67
6	Idukki														
7	Eranakulam	4	18216.67			4	3	3	4	18216.67	181	126.33	179.33		
8	Thrissur	6	12775.56			3	1	1	3	13217.78	163.33	99	237	3	12333.33
9	Palakkad	6	17577.78	1	19733.3	6	4	6	6	17577.78	146.73	80.5	113.17		
10	Malappuram	6	20616.67			6	3	3	6	20616.67	162.83	222	157		
11	Kozhikode	4	16791.67			3	3	1	3	18211.11	54.33	54.33	120	1	12533.33
12	Wayanad														
13	Kannur	4	20033.33			4	4	4	4	20033.33	360	276.5	279.25		
14	Kasaragod	4	16550											4	16550
	State Total	50	15973.07	2	15200	30	22	22	30	17859.56	178.69	152.5	182.51	20	13143.33

					Ta	able 11 (v	iii)						
	CROPWISE	RATE C	F APPLICAT	ION OF I	FERTILIZER!	S AND D	IFFERENTI	AL YIE	CLD RATES AC	CCORD	ING TO INPU	TS	
	STATE: KERA	ALA	YEAR: 20)21-22	SEASON	N: ANNU	AL	CROP	:BANANA	CE	NTRAL SAM	IPLE	
Sl. No.	District		Treated with	_	Freated with nanure	-	Not Treated manure	with	Treated (both) Fertilizers & Manure	with I	.NotTreated Fertilizers & Manure	Fe	Treated with rtilizers or nure or both
NO.		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	4	13083.33	4	13083.33							4	13083.33
2	Kollam	3	10222.22	3	10222.22	1	10666.67					4	10333.33
3	Pathanamthitta												
4	Alappuzha	4	14266.67	4	14266.67							4	14266.67
5	Kottayam	1	7066.667	4	13933.33			3	16222.2			4	13933.33
6	Idukki												
7	Ernakulam			4	18216.67			4	18216.7			4	18216.67
8	Thrissur	3	12333.33	6	12775.56			3	13217.8			6	12775.56
9	Palakkad			5	17146.67	1	19733.33	5	17146.7			6	17577.78
10	Malappuram			6	20616.67			6	20616.7			6	20616.67
11	Kozhikode	1	12533.33	4	16791.67			3	18211.1			4	16791.67
12	Wayanad												
13	Kannur			4	20033.33			4	20033.3			4	20033.33
14	Kasaragod	4	16550	4	16550							4	16550
	State Total	20	13143.33	48	16005.28	2	15200	28	18049.5	0	0	50	15973.07

						T	able 11 (ix)							
	CROPWIS	SE RATE	OF APPLI	CATION	OF FERT	ILIZER	S AND D	IFFERE	NTIAL YIE	LD RATES	ACCORI	DING TO	INPUTS		
	STATE: KERALA	1	YEAI	R: 2021-2	2	SEAS	ON: AN	NUAL	C	ROP: TAP	IOCA	S	TATE SAI	MPLE	
Sl.		Expts. (Checked at		Treated ertilizers				Expts. Wit	th Fertilizer	s				Not treated
No.	District	Harve	est stage		aly			No. of E	Expts.		Rate	of Applic	ation	with H	Fertilizers
		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	43937.5			1	1	1	1	40000	88.92	49.4	118.56	3	45250
2	Kollam	4	27562.5											4	27562.5
3	Pathanamthitta														
4 Alappuzha 4 30906.25 1 1 1 39000 24 24 61															
5	Kottayam		1	1	1	1	39000	24	24	61	3	28208.33			
6	Idukki														
7	Ernakulam	4	35812.5											4	35812.5
8	Thrissur	4	51250			2	1	1	2	40750	23	15	25	2	61750
9	Palakkad	4	70406.25											4	70406.25
10	Malappuram	4	33125			1	1		1	41375	92	92		3	30375
11	Kozhikode	4	68437.5			1	1		1	71000	88.92	88.92		3	67583.33
12	Wayanad														
13	Kannur	4	47218.75	1	28500	2	2	3	3	55958.33	75	75	90	1	21000
14	Kasaragod	4	36681.25			1	1		1	73750	50	50		3	24325
	State Total	40	44533.75	1	28500	9	8	6	10	51450	63.12	56.33	73.64	30	42228.33
						1	able contd	•••							

Table 11(ix

	Si	TATE: K	ERALA Y	YEAR: 2	021-22 S	EASON: A	NNUAL	CROP:TA	APIOCA	STATE	SAMPLE		
Sl. No.	District		. Treated with anure only	Expts	. Treated with manure	_	ot Treated with nanure	with F	Treated (both) Tertilizers & Manure		tTreated with		s. Treated with ers 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	3	45250	4	43937.5			1	40000			4	43937.5
2	Kollam	4	27562.5	4	27562.5							4	27562.5
3	Pathanamthitta												
4	Alappuzha												
5	Kottayam	3	28208.333	4	30906.25			1	39000			4	30906.25
6	Idukki												
7	Ernakulam	1	34000	1	34000	3	36416.667			3	36416.67	1	34000
8	Thrissur	2	61750	4	51250			2	40750			4	51250
9	Palakkad	3	73458.333	3	73458.333	1	61250			1	61250	3	73458.333
10	Malappuram	3	30375	4	33125			1	41375			4	33125
11	Kozhikode	3	67583.333	4	68437.5			1	71000			4	68437.5
12	Wayanad												
13	Kannur	1	21000	3	53458.333	1	28500	2	69687.5			4	47218.75
14	Kasaragod	2	26300	3	42116.667	1	20375	1	73750	1	20375	3	42116.667
	State Total	25	43039	34	45940.44	6	36562.5	9	54000	5	38175	35	45442.14

						Т	able 11 ((x)							
	CROPW	ISE RA	ATE OF APP	LICATI	ON OF FERT	ILIZERS	S AND D	IFFERE	NTIAL YIE	LD RATES A	ACCORD	ING TO I	NPUTS		
	STATE	: KERA	ALA	YEA	R: 2021-22 S	EASON:	ANNUA	L	CROP: TA	PIOCA	CEN	TRAL SA	MPLE		
		E4	Charland	Expt	ts. Treated				Expts. Wit	th Fertilizers				E4	NI - 4 4 4 - J
Sl. No.	District		s. Checked arvest stage	with	Fertilizers only			No. of	Expts.		Rate	of Applic	ation		Not treated Fertilizers
110.		No.	Yield Rate	No.	Yield Rate	N	P	K	Exclusive Total	Yield Rate	N	P	К	No.	Yield Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	16750			1	1	1	1	17750	50	50	50	3	16416.67
2	2 Kollam 4 43125 1 1 1 1 38250 101 101 101 3 44750 3 Pathanamthitta 0 <t< th=""></t<>														
3	2 7 45125 1 1 1 1 50250 101 101 5 44750														
4 Alappuzha															
5	Kottayam	4	27093.75			1	1	1	1	29125	30	30	60	3	26416.67
6	Idukki														
7	Ernakulam	4	52375			2	2		2	80125	43.5	43.5		2	24625
8	Thrissur	4	22187.5											4	22187.5
9	Palakkad	4	36187.5			1	1	1	1	47250	95	95	285	3	32500
10	Malappuram	4	35062.5			2	2	1	2	53375	59.3	59.5	89	2	16750
11	Kozhikode	4	14906.25											4	14906.25
12	Wayanad														
13	Kannur	4	42062.5											4	42062.5
14	Kasaragod	4	26906.25											4	26906.25
	State Total	40	31665.63	0	0	8	8	5	8	49921.88	63.13	63.17	117	32	27101.56
						Ta	ble conto	d							

						Table	e 11 (x)						
	CROPWISE R	ATE O	F APPLICAT	O NOI	F FERTILIZI	ERS AN	D DIFFERE	NTIAL Y	IELD RATES	ACCO	RDING TO I	NPUTS	
	STATE: KERAL	A	YEAR:	2021-2	SEA	ASON:	ANNUAL	CRO	P:TAPIOCA		CENTRAL S	SAMPLE	E
Sl. No.	District		. Treated with anure only	_	Treated with manure		. Not Treated th manure	with F	reated (both) ertilizers & Ianure	with	s.NotTreated Fertilizers & Manure	Fertiliz	Treated with ers 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	2	11000	3	13250	1	27250	1	17750	1	27250	3	13250
2	Kollam	3	44750	4	43125			1	38250			4	43125
3	Pathanamthitta												
4	Alappuzha												
5	Kottayam	2	33250	3	31875	1	12750	1	29125	1	12750	3	31875
6	Idukki												
7	Ernakulam	2	24625	4	52375			2	80125			4	52375
8	Thrissur	4	22187.5	4	22187.5							4	22187.5
9	Palakkad	2	38000	3	41083.33	1	21500	1	47250	1	21500	3	41083.33
10	Malappuram	2	16750	4	35062.5			2	53375			4	35062.5
11	Kozhikode	3	16375	3	16375	1	10500			1	10500	3	16375
12	Wayanad												
13	Kannur	3	28875	3	28875	1	81625			1	81625	3	28875
14	Kasaragod	4	26906.25	4	26906.25							4	26906.25
	State Total	27	26430.56	35	31800	5	30725	8	49921.9	5	30725	35	31800

						Tab	ole 11 (xi)							
	CROPW	ISE RAT	E OF APPLI	CATION	OF FERT				TIAL YIELD	RATES AC	CORDING	G TO INPU	U TS		
	STATE:			AR: 202		EASON: PI			CROP: CO			TE SAMI			
Sl.	District		Checked at vest stage	with F	. Treated Fertilizers only			No of E		ı Fertilizers	Data	of America	4:	trea	pts. Not ited with rtilizers
No.	District	No.	Yield Rate (No/Hec)	No.	Yield Rate	N	P	No. of E	Exclusive Total	Yield Rate	N	of Applica P	K	No.	Yield Rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	8467.1											4	8467.1
2	Kollam	4	5176.5											4	5176.5
3 Pathanamthitta 4 Alappuzha 4 12264.75															
4 Alappuzha 4 12264.75 4															12264.75
5	1 22 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2													4	8057.1
6	Idukki														
7	Eranakulam	4	6938.8											4	6938.8
8	Thrissur	6	10684.5333											6	10684.533
9	Palakkad	6	8413.5											6	8413.5
10	Malappuram	6	12257.333			1	1	1	1	24081.6	23.2	17.6	5	5	9892.48
11	Kozhikode	4	11556.25											4	11556.25
12	Wayanad														
13	Kannur	4	6972											4	6972
14	Kasaragod	4	12036											4	12036
	State Total	50	9480.12	0	0	1	1	1	1	24081.6	23.2	17.6	5	49	9182.13
						Tabl	e contd.								

					Ta	ble 11 (xi)	1						
	CROPW	ISE RA	TE OF APPLICA	TION OF	FERTILIZERS	AND DIF	FERENTIAL Y	YIELD RA	TES ACCORI	DING TO	O INPUTS		
	STATE: KE	RALA	YEAR: 2	2021-22	SEASO	N: PEREN	INIAL (CROP: CO	CONUT	STA	TE SAMPLE		
Sl.	District	_	ts. Treated with nanure only	-	. Treated with manure	_	ot Treated with manure	with F	Treated (both) Tertilizers & Manure		NotTreated with izers & Manure	with	ts. Treated Fertilizers or ure or both
No.		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					4	8467.1			4	8467.1		
2	Kollam	4	5176.5	4	5176.5							4	5176.5
3	Pathanamthitta												
4	Alappuzha	3	13445.8	3	13445.8	1	8721.6			1	8721.6	3	13445.8
5	Kottayam	2			10357.6	2	5756.6			2	5756.6	2	10357.6
6	Idukki												
7	Eranakulam					4	6938.8			4	6938.8		
8	Thrissur	6	10684.533	6	10684.533							6	10684.53
9	Palakkad	3	7204.8	3	7204.8	3	9622.2			3	9622.2	3	7204.8
10	Malappuram	5	9892.48	6	12257.333			1	24081.6			6	12257.33
11	Kozhikode					4	11556.25			4	11556.25		
12	Wayanad												
13	Kannur	2	6405	2	6405	2	7539			2	7539	2	6405
14	Kasaragod	3	12280.8	3	12280.8	1	11301.6			1	11301.6	3	12280.8
	State Total	28	9521.25	29	10023.33	21	8729.98	1	24081.6	21	8729.98	29	10023.33

						Т	Table 11 (x	xii)							
	CROP	WISE R	ATE OF API	PLICAT	ION OF FE	RTILIZER	S AND D	IFFERE	NTIAL YIEI	D RATES A	CCORDIN	IG TO IN	PUTS		
	STATE	E: KERA	ALA YE	AR: 202	21-22 S	EASON: P	ERENNIA	A L	CROP: CC	CONUT	CENT	RAL SAN	IPLE		
				Exnts	s. Treated				Expts. Wit	h Fertilizers				Ex	pts. Not
Sl.	District		s. Checked arvest stage	with I	Fertilizers only			No. of E	Expts.		Rate	of Applica	ation	trea	ated with rtilizers
No.		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	10498.75											4	10498.75
2 Kollam 4 6121.5 4 6121.5 3 Pathanamthitta 4 6121.5 4 6121.5															
3	3 Pathanamthitta														
4	Alappuzha	4	8709.75											4	8709.75
5	Kottayam	4	6944.3			1	1	1	1	14851.6	84	84	34	3	4308.53
6	Idukki														
7	Eranakulam	4	7524											4	7524
8	Thrissur	6	9846.8											6	9846.8
9	Palakkad	6	8160.7	2	8650.5	2		2	2	8650.5	15		74	4	7915.8
10	Malappuram	6	12141.33			3	3	3	3	14693.33	76	72.33	69.33	3	9589.33
11	Kozhikode	4	10502.75											4	10502.75
12	Wayanad														
13	Kannur	4	8526											4	8799
14	Kasaragod	4	16411.8			4	4	4	4	16411.8	48.25	48.25	48.25		
	State Total	50	9636.97	2	8650.5	10	8	10	10	14187.98	55.81	68.19	56.4	40	8526.51
	Unit:no./hec.												Ta	ble cont	d

						Table 11 (2	xii)						
	CROPWIS	SE RATE	OF APPLICA	TION O	F FERTILIZE	RS AND D	IFFERENTIAI	YIELD	RATES ACC	ORDING	TO INPUTS		
	STATE: K	ERALA	YEAR: 2021	-22	SEASON: 1	PERENNIA	AL CRO	P:COCC	ONUT	CENTR	AL SAMPLE		
Sl. No.	District	-	Treated with nure only	_	Treated with nanure	_	ot Treated with	with H	Treated (both) Tertilizers & Manure	with I	.NotTreated Fertilizers & Manure	Fertiliz	. Treated with zers 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	14255.6	1	14255.6	3	9246.47			3	9246.47	1	14255.6
2	Kollam	3	6566	3	6566	1	4788			1	4788	3	6566
3	Pathanamthitta												
4	Alappuzha				4	8709.75			4	8709.75			
5	Kottayam			1	14851.6	3	4308.53	1	14851.6	3	4308.53	1	14851.6
6	Idukki												
7	Ernakulam	3	7928.07	3	7928.07	1	6311.8			1	6311.8	3	7928.07
8	Thrissur	6	9846.8	6	9846.8							6	9846.8
9	Palakkad	2	8934.9	2	8934.9	4	7773.6			2	6896.7	4	8792.7
10	Malappuram	2	8444.8	5	12193.92	1	11878.4	3	14693.3	1	11878.4	5	12193.92
11	Kozhikode	1	11051	1	11051	3	10320			3	10320	1	11051
12	Wayanad												
13	Kannur	3	9828	3	9828	1	5712			1	5712	3	9828
14	Kasargod			4	16411.8			4	16411.8			4	16411.8
	State Total	21	9148.24	29	10920.41	21	7916.6	8	15572.4	19	7839.35	31	10773.96

							Table 11	(xiii)							
	CROPV	VISE R	RATE OF APP	LICAT	TION OF FER	TILIZE	RS AND	DIFFE	RENTIAL YIF	ELD RATES A	CCORD	OING TO	INPUTS		
	STATE:	KERA	ALA	YEAF	R: 2021-22	SEA	SON: PE	ERENN	IAL CR	ROP: PEPPER	l	STATE S	SAMPLE		
		Evnt	s. Checked at		ts. Treated				Expts. Wit	th Fertilizers				Evnte	s. Not treated
Sl. No.	District		rvest stage	with	Fertilizers only			No.	of Expts.		Rate	of Applic	ation		h Fertilizers
110.		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	388.99											4	388.99
2 Kollam 4 399.99 4 3 Pathanamthitta 4 4 4															399.99
3	3 Pathanamthitta														
3 Pathanamthitta															
5	Kottayam	4	430.79											4	430.79
6	Idukki														
7	Ernakulam	4	289.27											4	289.27
8	Thrissur	4	691.65			1	1		1	654.80	25	12		3	703.93
9	Palakkad	4	714.93											4	714.93
10	Malappuram	4	248.58											4	248.58
11	Kozhikode	4	332.9											4	332.9
12	Wayanad														
13	Kannur	4	230.98											4	230.98
14	Kasaragod	4	586.98											4	586.98
	State Total	40	431.51	0	0	1	1	0	1	654.8	25	12	0	39	425.78
Table	contd									'					

						Table 1	11 (xiii)						
	CROPWIS	E RATE	OF APPLICA	ATION C	F FERTILIZ	ERS AN	D DIFFEREN	TIAL Y	IELD RATES A	CCORE	ING TO INPU	TS	
	STATE: KERAL	ι A	YEAR:	2021-22	S	EASON	: PERENNIAI		CROP:PEPI	PER	STATE S	AMPLE	
Sl. No.	District		Treated with nure only	_	Treated with nanure		Not Treated h manure	with	Treated (both) Fertilizers & Manure	with	s.NotTreated Fertilizers & Manure	Fertilize	Treated with ers 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					4	388.99			4	388.99		
2	Kollam	4 399.99			399.99							4	399.99
3	Pathanamthitta												
4	Alappuzha												
5	Kottayam	3	415.51	3	415.51	1	476.62			1	476.62	3	415.51
6	Idukki												
7	Ernakulam					4	289.27			4	289.27		
8	Thrissur	2	541.51	3	579.28	1	1028.76	1	654.80	1	1028.76	3	579.28
9	Palakkad	1	1171.75	1	1171.75	3	562.66			3	562.66	1	1171.75
10	Malappuram	3	285.73	3	285.73	1	137.12			1	137.12	3	285.73
11	Kozhikode	2	284.14	2	284.14	2	381.66			2	381.66	2	284.14
12	Wayanad												
13	Kannur					4	230.98			4	230.98		
14	Kasaragod	2	809.15	2	809.15	2	364.79			2	364.79	2	809.15
	State Total	17	479.12	18	488.88	22	384.56	1	654.8	22	384.56	18	488.88

						Table 1	11 (xiv)								
	CROPW	ISE RAT	E OF APPLIC	ATION O	F FERTILI	ZERS AN	D DIFFE	RENTIA	AL YIELD R.	ATES ACC	ORDING	TO INP	UTS		
	STATE: KER	RALA	YEA	R: 2021-22	2 SEAS	SON: PEF	RENNIAL	1	CROP: PI	EPPER	CEN	TRAL S	SAMPL	E	
		Expts	s. Checked at		Treated				Expts. With	Fertilizers					pts. Not
Sl. No.	District		rvest stage		ertilizers nly			No. of E	Expts.		Rate o	f Applic	ation		ted with rtilizers
		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	119.71											4	119.71
2	Kollam	4	281.94											4	281.94
3	Pathanamthitta														
4	Alappuzha														
5	Kottayam	3	170.12											3	170.12
6	Idukki														
7	Ernakulam	4	451.96											4	451.96
8	Thrissur	4	218.24											4	218.24
9	Palakkad	4	362.6			1			1	439.96	15			3	336.81
10	Malappuram	4	351.23											4	351.23
11	Kozhikode	4	725.38											4	725.38
12	Wayanad														
13	Kannur	4	344.08											4	344.08
14	Kasaragod	4	837.02											4	837.02
	State Total	39	391.77	0	0	1	0	0	1	439.96	15	0	0	38	390.5
						Table o	contd								

Table 11 (xiv)

	STATE: KERALA		YEAR: 20	21-22	SE	CASON: P	ERENNIAL	(CROP: PEPPER	<u> </u>	CENTRAL SA	AMPLE	
Sl. No.	District		Treated with nure only	-	Freated with nanure	_	ot Treated with	with	Treated (both) Fertilizers & Manure		otTreated with ers & Manure	Ferti	reated with ilizers or re 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	201.65	1	201.65	3	92.39			3	92.39	1	201.65
2	Kollam					4	281.94			4	281.94		
3	Pathanamthitta												
4	Alappuzha												
5	Kottayam	1	226.58	1	226.58	2	141.89			2	141.89	1	226.58
6	Idukki												
7	Eranakulam	1	713.46	1	713.46	3	364.79			3	364.79	1	713.46
8	Thrissur	2	119.34	2	119.34	2	317.14			2	317.14	2	119.34
9	Palakkad	2	390.83	3	407.20	1	228.78	1	439.96	1	228.77	3	407.20
10	Malappuram					4	351.23			4	351.23		
11	Kozhikode	2	949.57	2	949.57	2	501.18			2	501.18	2	949.57
12	Wayanad												
13	Kannur	4	344.08	4	344.08							4	344.08
14	Kasaragod	4	837.01	4	837.02							4	837.02
	State Total	17	516.8	18	512.53	21	288.26	1	439.96	21	288.26	18	512.53

Table 11 (xv)

CROPWISE RATE OF APPLICATION OF FERTILIZERS AND DIFFERENTIAL YIELD RATES ACCORDING TO INPUTS STATE: KERALA YEAR: 2021-22 **SEASON: PERENNIAL CROP: ARECANUT** STATE SAMPLE

		Expt	ts. Checked		ts. Treated				Expts. With	Fertilizers				Evnte	Not treated
Sl. No.	District		t harvest	with	Fertilizers only		N	o. of Expo	eriments		Rate	of Applica	ation		Fertilizers
NO.		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	848.38											4	848.38
2	Kollam	4	1365.04											4	1365.03
3	Pathanamthitta														
4	Alappuzha														
5	Kottayam	4	1294.44											4	1294.44
6	Idukki														
7	Eranakulam	4	923.39											4	923.39
8	Thrissur	4	1000.09											4	1000.09
9	Palakkad	4	1744.79				1	1	1	3499.96		12.5	9	3	1159.74
10	Malappuram	4	914.07											4	914.07
11	Kozhikode	4	811.93											4	811.93
12	Wayanad														
13	Kannur	4	1028.94											4	1028.94
14	Kasaragod	4	2733.72			1	1		1	2842.01	49	49		3	2697.62
	State Total	40	1266.48	0	0	1	2	1	2	3170.99	49	49	0	38	1166.24

STATE: KERALA **YEAR: 2021-22 SEASON: PERENNIAL CROP: ARECANUT** STATE SAMPLE Expts. treated Expts. treated with Expts. treated Expts. treated with Expts. not treated with Expts. not treated with (both) with fertilizer or Sl. fertilizer & manure with manure only manure manure **District** fertilizer &manure manure or both No. No. **Yield Rate** No. Yield Rate No. **Yield Rate** No. **Yield Rate** No. **Yield Rate** No. **Yield Rate** 2 17 18 19 20 22 23 24 25 26 27 28 1 21 848.378 1 Thiruvananthapuram 4 4 848.378 2 4 **Kollam** 4 1365.039 1365.039 3 **Pathanamthitta** 4 Alappuzha Kottavam 5 4 1294.436 4 1294.436 6 Idukki 923.39 7 Eranakulam 4 923.39 4 3 8 **Thrissur** 946.182 3 946.182 1 1161.833 1161.833 3 946.182 9 **Palakkad** 2 1327.173 3 2326.393 1 824.875 1 6999.9166 3200.423 3 2051.435 1 Malappuram 3 917.372 3 917.372 918.1492 459.075 3 917.372 10 1 1 11 Kozhikode 4 811.928 4 811.928 Wayanad 12 2 2 2 2 1362.811 2 13 Kannur 695.064 695.064 1362.811 695.064 Kasaragod 3 2697.622 4 2842.012 4 14 2733.72 1 2733.72 **State Total** 13 1363.69 15 1659.66 25 1064.13 2 9841.9286 25 1140.79 15 1604.67

STATE: KERALA **YEAR: 2021-22** SEASON: PERENNIAL **CENTRAL SAMPLE CROP: ARECANUT**

		E	ta Chaolad	Even 40	twooted with				Evnte with	h fertilizers				E-m-4	not twoots d
Sl.			ts. Checked t harvest		treated with			No. of E		n ter unizers	Rate	e of applic	ation		s. not treated n fertilizers
No.	District	No.	Yield rate	No.	Yield rate	N	P	K	Exclusive Total	Yield rate	N	Р	K	No.	Yield rate
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	4	365.02											4	365.02
2	Kollam	4	794.42											4	794.42
3	Pathanamthitta														
4	Alappuzha														
5	Kottayam	4	666.17											4	666.17
6	Idukki														
7	Eranakulam	4	1217.63											4	1217.63
8	Thrissur	4	865.22											4	865.22
9	Palakkad	4	644											4	644
10	Malappuram	4	875.62											4	875.62
11	Kozhikode	4	1237.70											4	1237.70
12	Wayanad														
13	Kannur	4	1618.28											4	1618.28
14	Kasaragod	4	2764.89			4	4	4	4	2764.89	82	82	82		
	State Total	40	1104.9	0	0	4	4	4	4	2764.89	82	82	82	36	920.45

STATE: KERALA YEAR: 2021-22 SEASON: PERENNIAL CROP: ARECANUT CENTRAL SAMPLE Expts. treated with Expts. treated **Expts.** treated with Expts. treated with Expts. not treated with Expts. not treatedwith (both) with fertilizer or Sl. fertilizer &manure manure only manure manure **District** fertilizer &manure manure or both No. No. No. **Yield Rate** No. **Yield Rate** No. **Yield Rate** No. Yield Rate No. **Yield Rate** Yield Rate 2 17 18 19 20 22 23 24 27 28 1 21 25 26 Thiruvananthapuram 133.12 133.12 3 442.33 3 442.33 133.12 1 1 1 1 2 **Kollam** 3 743.36 3 743.36 1 947.61 1 947.61 3 743.36 3 **Pathanamthitta** Alappuzha 4 5 1099.32 1 1099.32 3 521.79 3 521.79 1099.32 Kottayam 1 1 Idukki 6 Eranakulam 2 2 7 1129.41 2 1129.41 1305.85 2 1305.85 2 1129.41 4 4 865.22 8 **Thrissur** 865.22 865.22 4 9 Palakkad 2 637.09 2 637.09 2 650.91 2 650.91 2 637.09 Malappuram 2 1025.34 2 1025.34 2 725.89 2 725.89 1025.34 Kozhikode 4 1237.70 4 1237.70 11 Wayanad 12 13 Kannur 4 1618.28 4 1618.28 14 Kasaragod 4 2764.89 4 2764.89 4 2764.89 15 833.81 19 21 982.34 4 2764.89 21 982.34 19 1240.35 **State Total** 1240.35

5. Supply and use of Crop Cutting Equipment

The information on supply and use of crop cutting equipment such as Tapes, Pegs, Balance and Weights collected during the Sample Check survey 2021-22 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 equipment are noticed. Use of non-standard equipment should be avoided.

	Table 12 (i)	
	State wise Position of Supply and Use of Equipments	
State: Kerala		Year: 2021-22

						N	o of experi	ments supe	rvised (Ha	rvest and P	ost harvest	for which	equipment	was		
		>				Supp	olied				N	ot Supplie	d			
	Crop	Agency	Item of Equipment	And		d locally ed one	But not used	But not required	Total		y procured ne	And also not used	As not	Total	Information about supply not	Total of columns 8,13 &
				Used	Standard	Non- Standard	though required	to be used	Total	Standard	Non- Standard	though required	required	Total	available	14
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			Tape	100					100							100
			Balance	94	6				100							100
		S	Weight													
	Paddy		Pegs	97	2	1			100							100
((Autumn)		Tape	94	3	1		1	99	1				1		100
			Balance	93				1	94	6				6		100
		С	Weight	6					6	0						6
			Pegs	44	16				60	22	18			40		100

Table 12 (i)

State wise Position of Supply and Use of Equipments

State: Kerala

Year: 2021-22

					N	o of experi	ments supe	vised (Ha	rvest and P	ost harvest)) for which	equipment	was		
	<u>\$</u>				Supp	plied				N	ot Supplie	d		T	Tatal of
Crop	Agency	Item of Equipment	And	But used procur		But not used	But not required	Total		y procured ne	And also not used	As not	Total	Information about supply not	Total of columns 8,13 &
			Used	Standard	Non- Standard	though required	to be used	10tai	Standard	Non- Standard	though required	required	1 Otai	available	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		Tape	100					100							100
	C	Balance	93	7				100							100
	S	Weight	1	6				7							7
Paddy		Pegs	98	2				100							100
(Winter)		Tape	91	8	1			100							100
		Balance	89	9			2	100							100
	С	Weight	6					6				6	6		12
		Pegs	48	17	3	1		69	13	18			31		100
		Tape	100					100							100
	G.	Balance	97	3				100							100
	S	Weight	0	3				3							3
Paddy		Pegs	99	1				100							100
(Summer)		Tape	89	7	1			97	3				3		100
		Balance	87	10			2	99	1				1		100
	С	Weight	2				6	8				4	4		12
		Pegs	36	19	1		1	57	13	30			43		100

Table 12 (ii)

State wise Position of Supply and Use of Equipments

State: Kerala Year: 2021-22

					N	lo of experi	iments supe	rvised (Ha	rvest and P	ostharvest)	for which	equipment v	was		
	>-				Supp						ot Supplie				
Crop	Agency	Item of Equipment	And	But used procur	d locally ed one	But not used	But not required	Total	Used locall		And also not used	As not	Total	Information about supply not	Total of columns 8,13 &
			used	Standard	Non- Standard	though required	to be used	Totai	Standard	Non- Standard	though required	required	Totai	available	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		Tape	40					40							40
	S	Balance	24	2				26							26
	ъ	Weight	14					14							14
Tapioca		Pegs	37				3	40							40
Tuplocu		Tape	37	1				38	1	1			2		40
	c	Balance	34	3				37	3				3		40
		Weight	7				3	10							10
		Pegs	11	3			8	22	4	7		7	18		40
		Tape													0
	S	Balance	48	2				50							50
	S	Weight	1	1				2							2
Banana		Pegs													0
Dunana		Tape					9	9							9
	c	Balance	42	2				44	6				6		50
		Weight		2			4	6	1			3	4		10
		Pegs					9	9							9

Table 12 (iii)

State wise Position of Supply and Use of Equipments

State: Kerala Year: 2021-22

	Sta	ite: Keraia											1 ear: 20	141-44	
					N	lo of experi	ments supe	rvised (Ha	rvest and P	ostharvest)	for which	equipment '	was		
	ે	Item of			Supp	plied				N	ot Supplied	ì		Information	Total of
Crop	Agency	Equipment	And	But used procur	d locally ed one	But not used	But not required	Total		y procured ne	And also not used	As not	Total	about supply not	columns 8,13 &
			used	Standard	Non- Standard	though required	to be used	Total	Standard	Non- Standard	though required	required	Total	available	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		Tape													0
	G	Balance													0
	S	Weight													0
Coconut		Pegs													0
Coconut		Tape					8	8							8
	с	Balance					8	8							8
	C	Weight					8	8							8
		Pegs					8	8							8
		Tape													0
	S	Balance	38	2				40							40
	S	Weight		2				2							2
Pepper		Pegs													0
Террег		Tape					6	6							6
	c	Balance	37	1				38	1				1		39
	C	Weight	7					7							7
		Pegs					6	6							6
		Tape													0
	S	Balance	38	2				40							40
	J	Weight													0
Arecanut		Pegs													0
Miccanut		Tape					8	8				2	2		10
	c	Balance	36	2				38	2				2		40
		Weight	8					8				2	2		10
		Pegs					8	8				2	2		10

6. Comparison of ICS and GCES yield Estimates

The district yield rates of rice under ICS and GCES during the year 2021-22 for Central and State samples are given in Table 13(i). Trend of yield rate for rice under ICS and GCES during Autumn, Winter and Summer from 2017-18 to 2021-22 are given in Chart 8, 9, 10 respectively {Table 13(iii)}. District wise yield rate of rice under GCES and ICS are given in Chart 11, 12 and 13 respectively. Season wise yield rate under GCES and ICS for rice is given in Chart 14. A graphical representation of yield rates of Tapioca, Banana, Coconut, Pepper and Arecanut are given in Chart 15 to 19. A graphical representation of crop wise yield rates of important crops during 2021-22 is given in Chart-20.

Table 13 (i)

Comparison of Yield Rates (Kg/Ha) of Rice Under GCES and ICS

State: Kerala

Year:2021-22

			Autumn			Winter			Summer	
Sl. No.	District]	ICS		IC	cs .		ICS	
110.		GCES	State Sample	Central Sample	GCES	State Sample	Central Sample	GCES	State Sample	Central Sample
1	Thiruvananthapuram	2616	2373.45	3049.76	2130	1714.42	1649.57	2480	2122.38	1818.62
2	Kollam	2294	2402.30	2485.44	2279	2345.97	1333.60	2263	1871.79	1546.39
3	Pathanamthitta	1973	2274.99	1509.18	2256	2860.49	1844.74	2439	1268.75	686.10
4	Alappuzha	2030	1577.01	2673.67	2421	2219.48	1553.68	2664	2238.75	3618.80
5	Kottayam	2965	2335.14	2088.13	2794	2194.50	2737.54	2715	2501.12	3171.47
6	Idukki	1745	2144.17	1487.92	1861	2148.58	2567.73	3047	3448.65	2308.83
7	Ernakulam	1698	2512.45	2022.09	2341	2197.88	2306.79	2472	2320.94	1669.34
8	Thrissur	1931	2085.92	2484.25	2741	2850.37	2033.51	3651	4125.00	3464.01
9	Palakkad	2707	2279.45	2210.17	3560	3206.13	3319.23	3112	3220.73	2397.84
10	Malappuram	2104	2557.52	2639.87	2790	2050.22	2854.40	4186	4245.74	3302.02
11	Kozhikode	931	755.92	1099.50	1106	1061.32	1019.34	2158	1474.22	2041.10
12	Wayanad				2819	2654.98	2105.19	2584	2110.47	2577.71
13	Kannur	2216	1377.26	2744.32	2194	1543.70	2369.96	2323	2153.23	2989.05
14	Kasargod	2054	1826.18	2686.47	2105	2193.53	2647.99	2304	2322.06	2798.79
	State Total	2542	1998.30	2227.26	3066	2220.51	2185.92	2902	2604.95	2479.29

Table 13 (ii)

Comparison of Yield Rates (Kg/Ha) of Important Crops Under GCES and ICS

State: Kerala Year:2021-22

			Tapioca(Kg/Ha)			Banana(Kg/H	Ia)
Sl. No.	District	GCES	10	CS	GCES]	ICS
		GCES	State Sample	Central Sample	GCES	State Sample	Central Sample
1	Thiruvananthapuram	34611	43937.5	16750	7456	19758.33	13083.33
2	Kollam	43374	27562.5	43125	6962	13933.33	10333.33
3	Pathanamthitta	48840			7688		
4	Alappuzha	42773			6905	15391.67	14266.67
5	Kottayam	49978	30906.25	27093.75	9976	19333.33	13933.33
6	Idukki	55105			10731		
7	Eranakulam	53141	35812.5	52375	9428	25850	18216.67
8	Thrissur	53622	51250	22187.5	10047	21438.89	12775.56
9	Palakkad	43468	70406.25	36187.5	9842	22472.22	17577.78
10	Malappuram	46354	33125	35062.5	9033	17455.56	20616.67
11	Kozhikode	43930	68437.5	14906.25	11621	17925	16791.67
12	Wayanad	42652			9493		
13	Kannur	45010	47218.75	42062.5	10033	16526.67	20033.33
14	Kasaragod	43375	36681.25	26906.25	10863	25466.67	16550
	State Total	45027	44533.75	31665.63	9409	19698.8	15973.07

Table 13 (iii)

Comparison of Yield Rates of Important Crops Under GCES and ICS

State: Kerala Year:2021-22

Sl. No.	District	Coconut (No./Ha)			Pepper (Kg/Ha)			Arecanut (Kg/Ha)		
		GCES	ICS			ICS			ICS	
			State Sample	Central Sample	GCES	State Sample	Central Sample	GCES	State Sample	Central Sample
1	Thiruvananthapuram	7053	8467.1	10498.75	293	388.99	119.7	368	848.38	365.02
2	Kollam	6248	5176.5	6121.5	253	399.99	281.94	660	1365.04	794.42
3	Pathanamthitta	5386			321			697		
4	Alappuzha	6051	12264.75	8709.75	167			289		
5	Kottayam	5021	8057.1	6944.3	307	430.79	170.12	722	1294.44	666.17
6	Idukki	3454			502			1000		
7	Eranakulam	4862	6938.8	7524	218	289.27	451.96	743	923.39	1217.63
8	Thrissur	6777	10684.53	9846.8	268	691.65	218.24	727	1000.09	865.22
9	Palakkad	8260	8413.5	8160.7	430	714.93	326.6	700	1744.79	644
10	Malappuram	9437	12257.33	12141.33	252	248.58	351.23	962	914.07	875.62
11	Kozhikode	8135	11556.25	10502.75	222	332.9	725.38	814	811.93	1237.7
12	Wayanad	6859			397			361		
13	Kannur	6076	6972	8526	332	230.98	344.08	945	1028.94	1618.27
14	Kasaragod	8908	12036	16411.8	525	586.97	837.02	2508	2733.72	2764.89
State Total		7231	9480.12	9636.97	426	431.51	391.77	1101	1266.48	1104.89

CHART-8
TREND OF YIELD RATES OF RICE UNDER ICS & GCES 2017-18 TO 2021-22

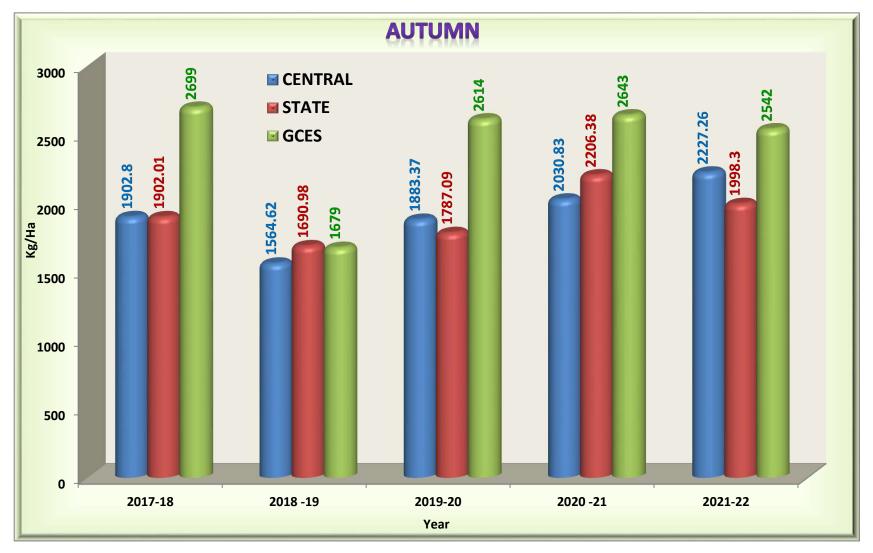


CHART-9
TREND OF YIELD RATES OF RICE UNDER ICS & GCES 2017-18 TO 2021-22

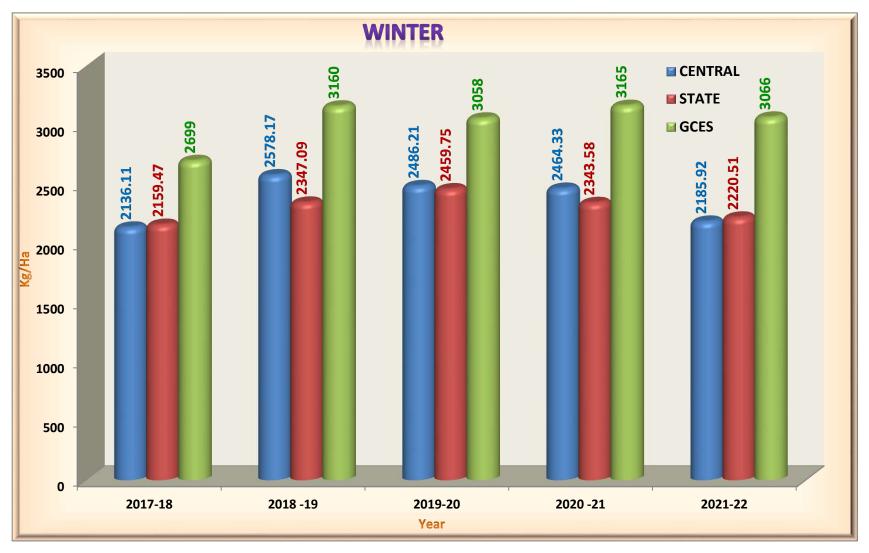


CHART-10
TREND OF YIELD RATES OF RICE UNDER ICS & GCES 2017-18 TO 2021-22

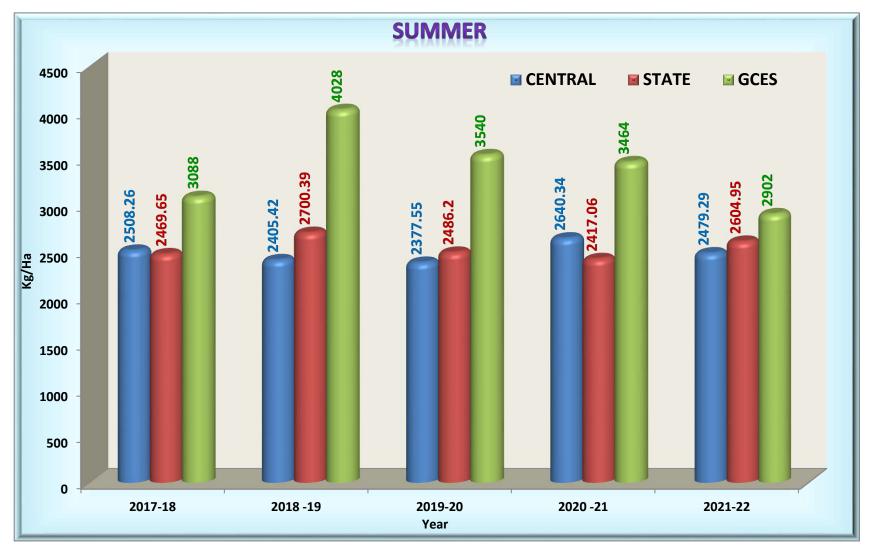


CHART-11

DISRTICTWISE YIELD RATES OF RICE— ICS & GCES 2021-22

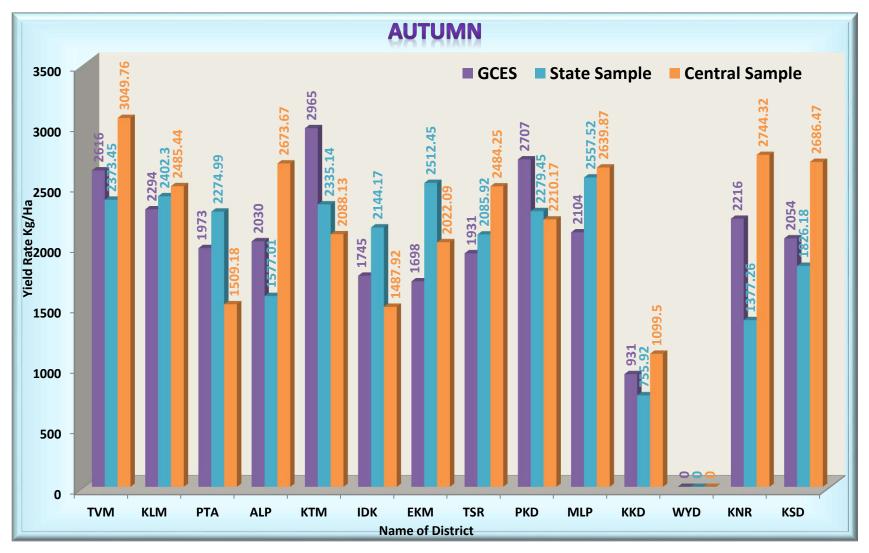


CHART-12

DISRTICTWISE YIELD RATES OF RICE— ICS & GCES 2021-22

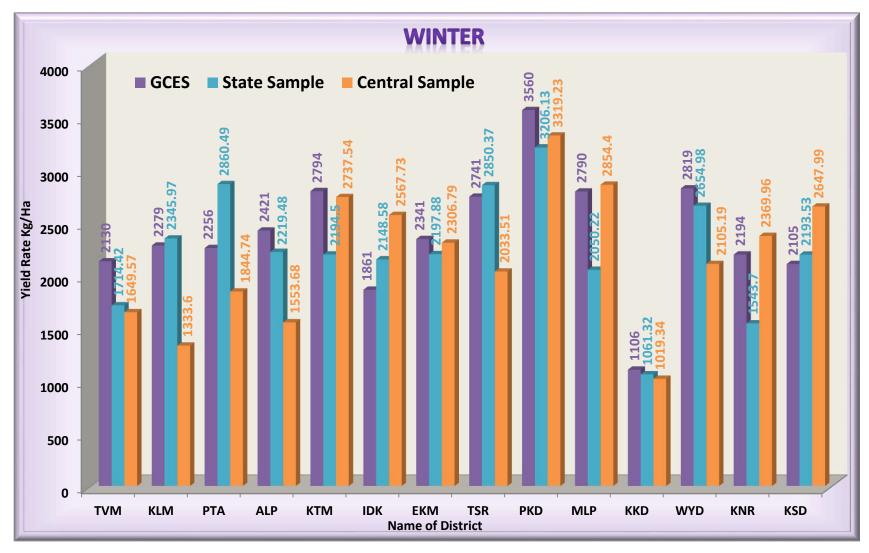


CHART-13

DISRTICTWISE YIELD RATES OF RICE— ICS & GCES 2021-22

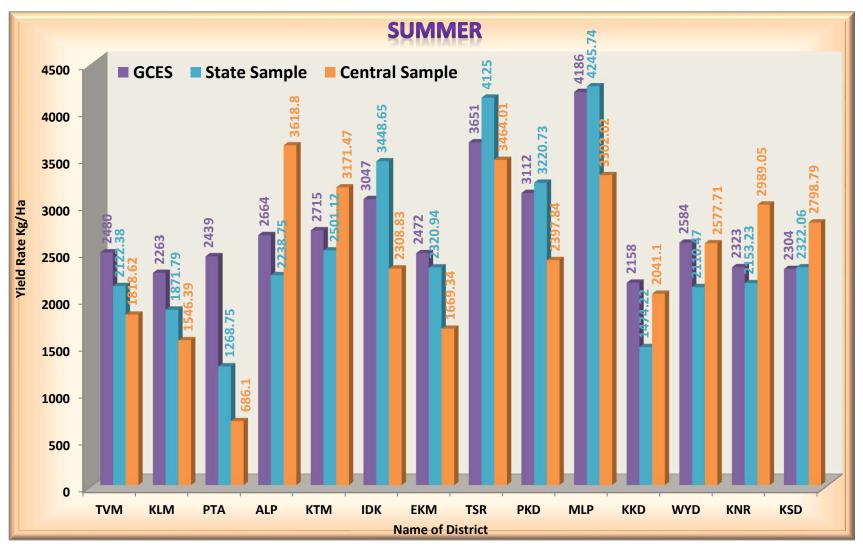


CHART-14

SEASONWISE YIELD RATE OF RICE UNDER GCES & ICS 2021-22

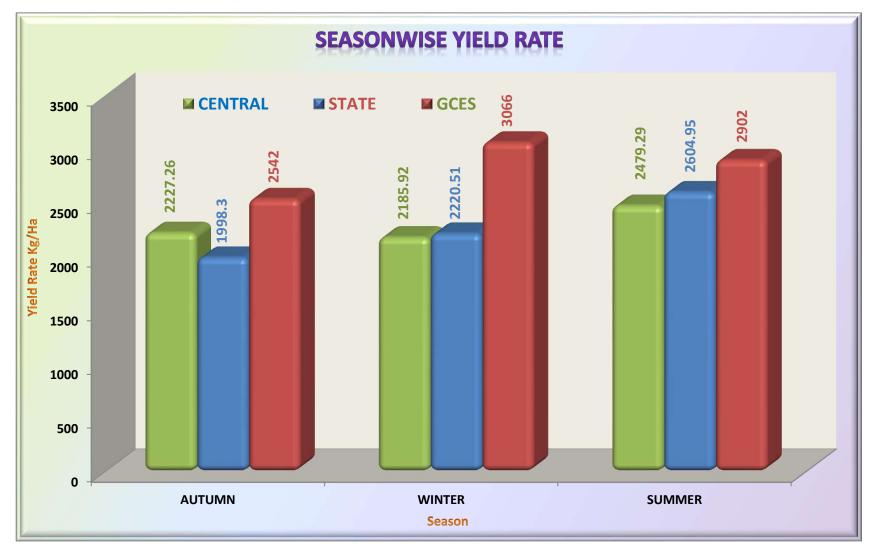


CHART-15

DISTRICTWISE YIELD RATE OF TAPIOCA UNDER GCES & ICS 2021-22

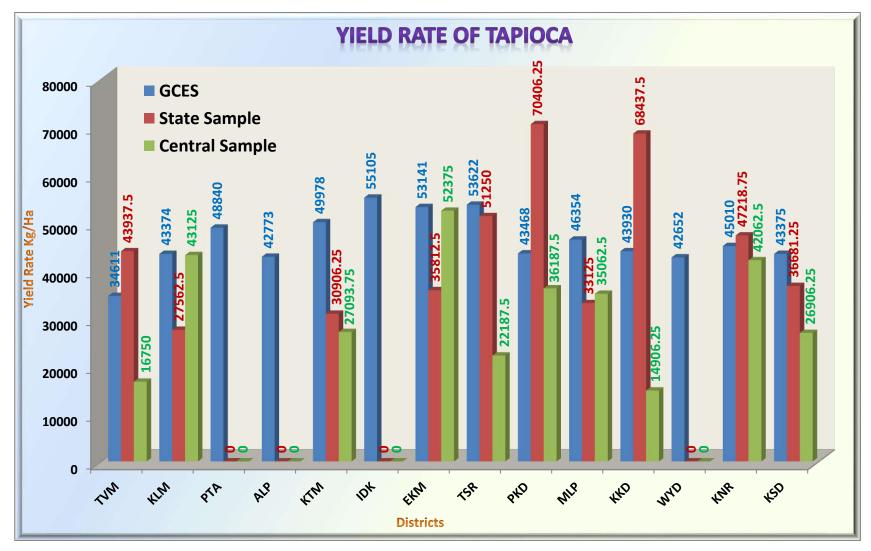


CHART-16

DISTRICTWISE YIELD RATE OF BANANA UNDER GCES & ICS 2021-22

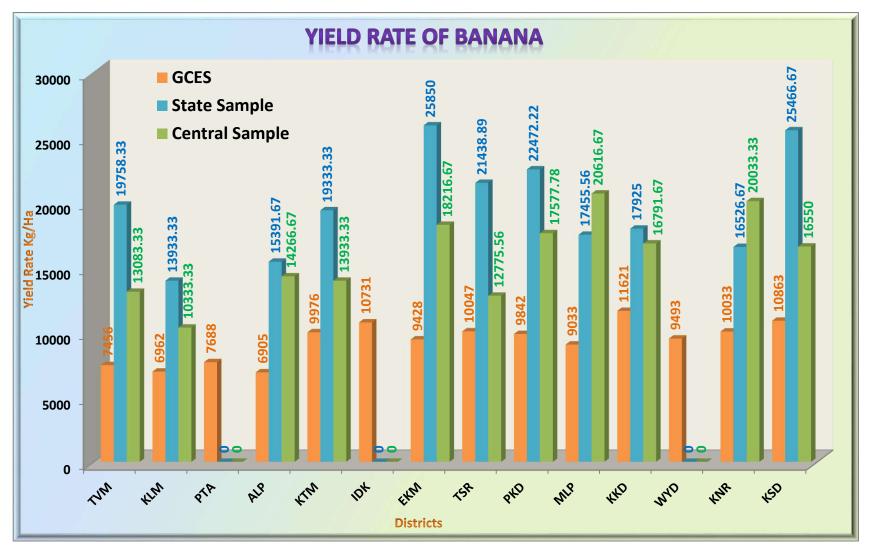


CHART-17

DISTRICTWISE YIELD RATE OF COCONUT UNDER GCES & ICS 2021-22

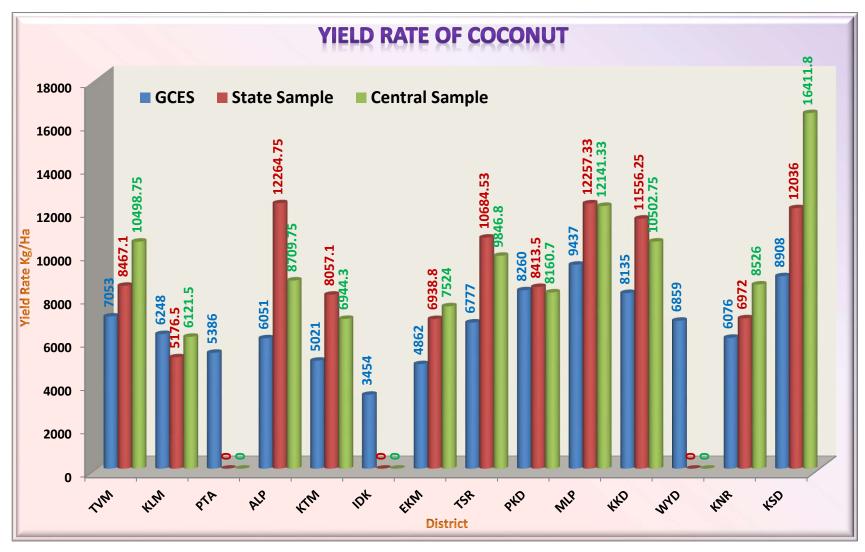


CHART-18

DISTRICTWISE YIELD RATE OF PEPPER UNDER GCES & ICS 2021-22

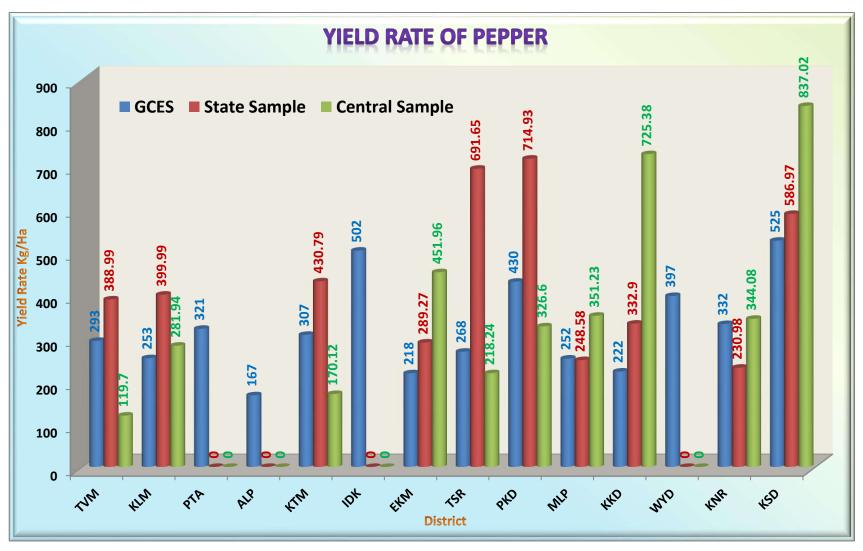


CHART-19

DISTRICTWISE YIELD RATE OF ARECANUT UNDER GCES & ICS 2021-22

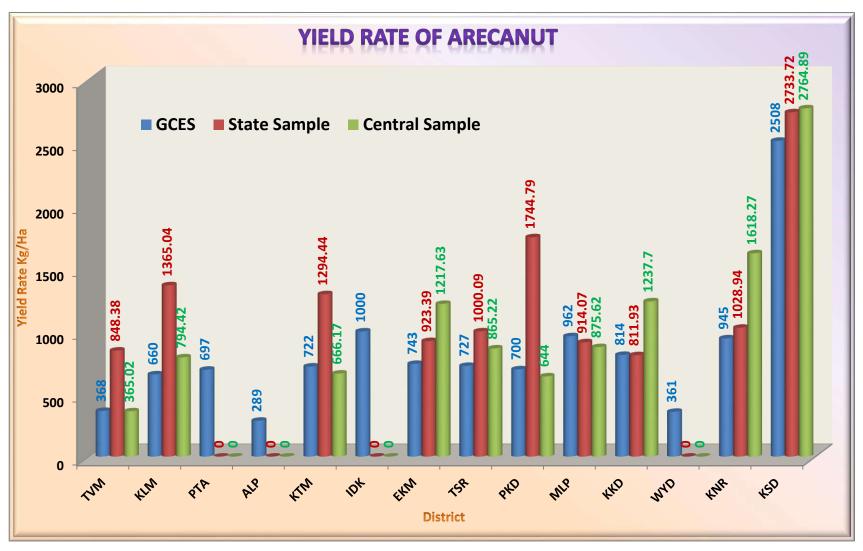


CHART-20

CROPWISE YIELD RATE OF IMPORTANT CROPS UNDER GCES & ICS 2021-22

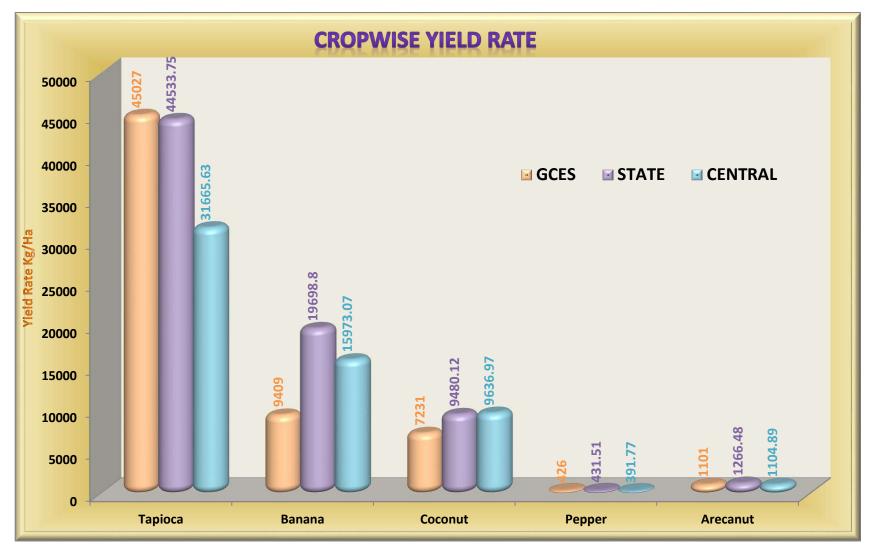


Table 14 TREND OF YIELD RATES (Kg/Ha) OF RICE UNDER GCES & ICS 2017-18 to 2021-22

YEAR	AUTUMN			WINTER			SUMMER		
	CENTRAL	STATE	GCES	CENTRAL	STATE	GCES	CENTRAL	STATE	GCES
2017-18	1902.8	1902.01	2699	2136.11	2159.47	2699	2508.26	2469.65	3088
2018 -19	1564.62	1690.98	1679	2578.17	2347.09	3160	2405.42	2700.39	4028
2019-20	1883.37	1787.09	2614	2486.21	2459.75	3058	2377.55	2486.2	3540
2020 -21	2030.83	2206.38	2643	2464.33	2343.58	3165	2640.34	2417.06	3464
2021-22	2227,26	1998.30	2542	2185.92	2220.51	3066	2479.29	2604.95	2902

List of Abbreviations used

Sl.No	Abbreviation	Expanded form
1	C	Central Sample
2	S	State Sample
3	ICS	Improvement of Crop Statistics
4	GCES	General Crop Estimation Survey
5	HY	High Yielding
6	L	Local variety
7	I	Irrigated
8	UI	Un-irrigated
9	Н	Harvested
10	Т	Total planned
11	Kg	Kilogram
12	На	Hectare
13	N	Nitrogen
14	P	Phosphorous
15	K	Potassium
16	NR	Non-Reporting
17	Expts	Experiments
18	F	Fertilizer
19	HYV	High Yielding Variety