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GOVERNMENT OF KERALA

**CONSOLIDATED RESULTS OF CROP
ESTIMATION SURVEYS
ON
PADDY & TAPIOCA
1974—1975**



GOVERNMENT OF KERALA

1976

BUREAU OF ECONOMICS AND STATISTICS
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Estimation Surveys**

on

Paddy & Tapioca

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FOREWORD

This report of "Consolidated Results of Crop Estimation Surveys on Paddy and Tapioca—1974-75" is prepared on the basis of the recommendations made in the conference of the State Statisticians in charge of Crop Estimation Surveys, to fall in line with the reports published at the All India level. The report deals with brief descriptions of the crop cutting surveys on paddy and tapioca, the most important food crops cultivated in the State, conducted during 1974-75, by the Bureau of Economics and Statistics.

The important results of the survey including the estimated mean yield of paddy and the production of rice during each of the three paddy seasons, viz. Autumn, Winter, and Summer, in each district and the State are given in tables 1 to 6. The results of the crop cutting survey on tapioca conducted during the year 1974-75 are given in tables 7 and 8.

Trivandrum,
4-12-1975.

N. GOPALAKRISHNAN NAIR,
Director.

CONSOLIDATED RESULTS OF CROP ESTIMATION SURVEYS ON PADDY AND TAPIOCA 1974-75

1. Introduction

This is a brief review of the crop estimation surveys on paddy and tapioca conducted in Kerala State, by the Bureau of Economics and Statistics during 1974-75. The salient features of these surveys are described in the report in a comprehensive manner. In Kerala crop cutting surveys are conducted only on two seasonal crops, viz., paddy and tapioca as they are the most important food crops cultivated in the State. The important findings of the surveys such as yield estimates of rice and tapioca, area under high yielding variety of paddy, yield rates of irrigated and unirrigated plots of paddy etc. are presented in the tables appended to this report.

2. Objective, Coverage and Design

The primary object of these surveys is to obtain, through crop cutting experiments, precise estimates of average yield per hectare of paddy at the taluk level and tapioca at the district level and to estimate the average yield and total out-turn of the crops for the State.

Though the surveys cover all the eleven districts in the State, it is limited to the taluks where the crop is actually raised during each season, as far as paddy is concerned.

A stratified multi-stage random sampling design is adopted for the crop cutting survey on paddy. The taluk is treated as a stratum and within each taluk, villages are selected as the first stage sampling units. In each selected village, survey subdivision numbers are selected to form second stage units and within each survey subdivision number, a square plot of side 5 metres is selected as the ultimate sampling unit. In the case of survey subdivision numbers having more than one kandom/patch, one kandom will be selected and only in that kandom the square plot of side 5 metres will be located. The produce of the plot is harvested threshed and winnowed and the weight of the wet grain is recorded. Driage ratio is determined by processing sample grains taken from a sub sample of the plots harvested.

Crop cutting surveys on paddy are conducted separately during each of the three seasons, viz., Autumn (Virippu), Winter (Mundakan) and Summer (Punja). In the case of tapioca, the survey is conducted only once in an year.

Regarding the conduct of crop cutting survey on paddy, six villages are chosen in each stratum (taluk) by simple random sampling method and from each selected village, a sample of three plots is selected by systematic sampling method. Thus normally in a taluk eighteen experiments are conducted during each crop season. But during Summer 1975, two villages are additionally selected in Kuttanad Taluk to provide adequate representation to the paddy fields in the kayal area.

As far as tapioca is concerned the survey is conducted in all the taluks where the crop is raised during the year under review. Five census villages where tapioca is raised on a large scale are selected from the list of census villages selected for the first round of land utilisation survey (L. U. S.) 1974-75. The number of crop cutting experiments to be conducted in each of these 5 villages is fixed as three so that the total number of experiments to be conducted in a taluk is 15. In each of the selected village, from a list of plots (both dry and wet) selected for the land utilisation survey, three plots are selected by simple random sampling method. If any one of these plots is not cultivated with tapioca, another plot is selected so as to make up the number of experiments in a village to 3. It is essential that in each selected plot there should be a minimum area of 2×2 metres under tapioca. If a selected plot contains more than one patch under tapioca, satisfying the above requirements, then one patch is selected by simple random sampling method. In the selected plot/patch a square cut of 2×2 metres will be located at random for conducting the experiment.

All the tapioca plants inside the 2×2 metre square plot will be harvested. The produce will be cleaned by removing the soil sticking to the tubers and then weighed.

3. Sample Size

The total number of experiments planned for the survey on paddy during 1974-75, according to the seasons are given below :

Sl. No.	Season	No. of experiments planned
(1)	(2)	(3)
1	Autumn 1974	939
2	Winter 1975	968
3	Summer 1975	837
	Total	2744

The district-wise break up of the total number of experiments planned for the crop cutting survey on paddy during 1974-75 is given in table 1 in the appendix.

The total number of experiments planned in the case of tapioca during the year under review was 780. The district-wise split up of the total number of experiments planned for the survey is as below:

CROP COVERAGE AND SAMPLE SIZE—TAPIOCA

Year : 1974-75.

Sl. No.	District	Total number of experiments planned
(1)	(2)	(3)
1	Trivandrum	60
2	Quilon	90
3	Alleppey	60
4	Kottayam	75
5	Idukki	55
6	Ernakulam	90
7	Trichur	75
8	Palghat	65
9	Malappuram	60
10	Kozhikode	60
11	Cannanore	90
State total		780

4. Field work

The field work of the surveys comprising selection of fields, identification of selected fields, location and marking of plots for crop cutting experiments, harvesting the crops and recording the weight of produce after the usual processing is carried out by the field staff of the Bureau of Economics and Statistics. The field work relating to the surveys is attended to by the Investigators under the supervision of the Statistical Inspectors and District Statistical Officers. It is reported that 126 Investigators attended to the field work of the crop cutting survey on paddy during Autumn 1974, 137 during Winter 1975 and 120 during Summer 1975.

The planning of the survey, quality check of the work of the field staff and the statistical analysis of the data collected are done at the Directorate of the Bureau of Economics and Statistics.

5. Training

No formal training classes were held to impart refresher training to the Investigators at the district headquarters. However, all the Investigators attending to the crop cutting survey are adequately trained by the Statistical Inspectors.

6. Response

The number of experiments planned, analysed and the percentage response in respect of paddy during the three seasons in each district are given in table No. 2 in the appendix. Similar information relating to tapioca is given in table No. 7 in the appendix.

7. Supervision

The supervision of the field work is done by the Statistical Inspectors and District Statistical Officers. Since 1967-68, a fixed programme for inspection at harvest stage in the case of crop cutting experiments on paddy has been arranged so that in each taluk seven out of 18 experiments are to be inspected at harvest stage during each paddy crop season at the rate of six experiments by the Statistical Inspectors and one by the District Statistical Officer. Further the District Statistical Officer has to conduct harvest stage inspection on three pre-assigned samples in his district. Over and above this, inspection at pre-harvest and post-harvest stages will also have to be conducted by the Statistical Inspectors and District Statistical Officers.

Number of experiments inspected at the 3 stages are given below in percentages :

Sl. No.	Season	No. of experiments inspected (in percentages) at		
		Harvest	Pre-harvest	Post-harvest
(1)	(2)	(3)	(4)	(5)
1	Autumn 1974	32.4	29.5	7.8
2	Winter 1975	34.6	30.0	6.3
3	Summer 1975	30.2	16.8	5.7

Independent estimates of average yield of paddy based on harvest stage inspection are given in table 3 in the appendix.

As far as the crop cutting survey on tapioca is concerned, the Statistical Inspector has to conduct harvest stage inspection on 5 experimental plots in his taluk, while the District Statistical Officer has to supervise personally the harvest in 3 experimental plots in his district.

8. Results

The estimated mean yield of paddy together with percentage sampling error and the total production of rice during the 3 seasons of 1974-75 are given in table 4 in the appendix.

Usually the results of State series of Experiments and I. A. D. P. series of experiments conducted in Alleppey and Palghat districts are pooled for framing combined estimates. But in Autumn 74, the results of I. A. D. P. series of experiments obtained from Alleppey districts are found to be not poolable. In Palghat district, the I. A. D. P. series of experiments were not conducted during Autumn and Winter during the year under report due to the non-co-operation of the Village Extension Officers. Though the I. A. D. P. series of experiments were conducted in Alleppey District during Winter and Summer 75, the response was too low to frame any reliable estimate.

The State Government have already issued instructions to the Block Development Officers for the conduct of I. A. D. P. series of experiments with the Village Extension Officers in Alleppey and Palghat districts. It is hoped that the experiments will be conducted in 1975-76.

The results of experiments conducted for ascertaining the percentage recovery of dry paddy (dry grain) from harvested produce are given in table 5. The mean yield of paddy per hectare estimated for irrigated and unirrigated areas in respect of each district and the State are also given in this table.

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

The statement showing the percentage of area under different improved agricultural practices during each of the 3 paddy crop seasons are given in table 6.1, 6.2 and 6.3.

The estimated yield rate and the total production of raw Tapioca in each district and in the State are presented in table 8.

APPENDIX

Table No. 1.

CROP COVERAGE AND SAMPLE SIZE—RICE, 1974-75.

Sl. No.	District	Total number of Experiments planned for the year			
		Autumn	Winter	Summer	Total
(1)	(2)	(3)	(4)	(5)	(6)
1.	Trivandrum	72	72	72	216
2.	Quilon	108	108	66	282
3.	Alleppey	126	108	113	347
4.	Kottayam	87	89	61	237
5.	Idukki	24	51	3	78
6.	Ernakulam	126	108	108	342
7.	Trichur	90	90	78	258
8.	Palghat	90	90	84	264
9.	Malappuram	72	72	72	216
10.	Kozhikode	54	72	72	198
11.	Cannanore	90	108	108	306
	State	939	968	837	2744

Table No. 2

RESPONSE PERCENTAGES—CROP-PADDY—YEAR 1974-75

District	Autumn			Winter			Summer			Total		
	No. of experi- ments	Per- cent- age	No. of experi- ments	Per- cent- age	No. of experi- ments	Per- cent- age	No. of experi- ments	Per- cent- age	No. of experi- ments	Per- cent- age	Total	
												Plan- ned
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Trivandrum	72	70	97	72	70	97	72	66	92	216	206	95
Quilon	108	99	92	108	102	94	66	61	92	282	262	93
Alleppey	126	119	94	108	93	86	113	100	88	347	312	90
Kottayam	87	85	98	89	83	93	61	60	98	237	228	96
Idukki	24	22	92	31	49	96	3	3	100	78	74	95
Ernakulam	126	107	85	108	96	89	108	88	81	342	291	85
Trichur	90	90	100	90	90	100	78	76	97	258	256	99
Palghat	90	90	100	90	82	91	84	71	85	264	243	92
Malappuram	72	70	97	72	69	96	72	66	92	216	205	95
Kozhikode	54	50	93	72	68	94	72	69	96	198	187	94
Cannanore	90	83	92	108	100	93	108	91	84	306	274	90
State	939	885	94	968	902	93	837	751	90	2744	2538	92

Table No. 3

SUPERVISION OF FIELD WORK-RICE-INDEPENDENT ESTIMATE OF MEAN
YIELD OF PADDY BASED ON HARVEST STAGE INSPECTION
1974-1975

District	Season	No. of experi- ments		Meanyield rate of paddy (Kg./Hect.)		Driage Ration used for columns 5& 6
		Planned for inspection at harvest stage	Inspected at harvest stage	Before Driage	After Driage	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. Trivandrum	Autumn	31	24	2204	1772	0.804
	Winter	31	26	3033	2617	0.863
	Summer	31	24	2257	1907	0.845
2. Quilon	Autumn	45	39	2564	2220	0.866
	Winter	45	39	2708	2410	0.890
	Summer	30	19	2279	2015	0.884
3. Alleppey	Autumn	52	27	1884	1690	0.897
	Winter	45	32	2429	2191	0.902
	Summer	47	35	3333	3123	0.937
4. Kottayam	Autumn	37	29	2520	2328	0.924
	Winter	38	35	2602	2318	0.891
	Summer	28	23	3607	3275	0.908
5. Idukki	Autumn	13	10	2664	2259	0.848
	Winter	24	18	3217	2940	0.914
	Summer	2	1	2600	2444	0.940
6. Ernakulam	Autumn	52	31	2160	1931	0.894
	Winter	45	32	2486	2175	0.875
	Summer	45	26	2403	2071	0.862
7. Trichur	Autumn	38	26	1992	1771	0.885
	Winter	38	35	2265	2072	0.914
	Summer	34	30	2626	2269	0.86
8. Palghat	Autumn	38	38	3348	2849	0.851
	Winter	38	20	4163	3797	0.912
	Summer	36	15	3526	3117	0.884

	(1)	(2)	(3)	4)	(5)	(6)	(7)
9. Malappuram		Autumn	31	12	1620	1452	0·896
		Winter	31	21	2345	2122	0·905
		Summer	31	19	2574	2250	0·874
10. Kozhikode		Autumn	24	21	1628	1325	0·814
		Winter	31	31	2053	1844	0·898
		Summer	31	12	2309	2113	0·915
11. Cannanore		Autumn	38	30	2316	2061	0·890
		Winter	45	23	1899	1747	0·920
		Summer	45	23	1884	1714	0·910
STATE		Autumn	399	287	2344	2058	0·878
		Winter	411	312	2596	2334	0·899
		Summer	360	227	2704	2409	0·891

Table No. 4
YIELD ESTIMATE—RICE 1974-1975.

District	Season	Area under crop (Hect.)		No. of experiments	Respo- nse %	Estimated yield in kg./hect. of paddy	Sampling error (per- centage)	Total pro- duction of rice in tonnes	
		Total	Cover- age						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Trivandrum	Autumn	18561	100	72	70	97	1976	4.96	24097
	Winter	20188	100	72	70	97	2444	3.23	32413
	Summer	1177	100	72	66	92	1975	6.38	1527
Quilon	Autumn	21161	100	108	99	92	2084	4.85	28977
	Winter	29369	100	108	102	94	2488	4.82	48003
	Summer	1156	100	66	61	92	1660	12.95	1261
Alleppey	Autumn	30518	100	126	119	94	1673	13.57	33546
	Winter	23572	100	108	93	86	2007	5.13	31082
	Summer	42369	100	113	100	88	3327	5.08	92603
Kottayam	Autumn	8030	100	87	85	98	2174	4.69	11470
	Winter	19019	100	89	83	93	2358	6.45	29463
	Summer	17297	100	61	60	98	3409	5.05	38747
Idukki	Autumn	4031	100	24	22	92	2359	8.22	6248
	Winter	9189	100	51	49	96	2694	4.86	16264
	Summer	52	100	3	3	100	1974	Nil	67
Ernakulam	Autumn	37378	100	126	107	85	1886	5.14	46321
	Winter	40270	100	108	96	89	2441	4.22	64586
	Summer	10215	100	108	83	81	2162	7.03	14509
Trichur	Autumn	34569	100	90	90	100	1923	5.10	43669
	Winter	60131	100	90	90	100	2140	4.77	84529
	Summer	14266	100	78	76	97	2329	9.15	21833

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Palghat	Autumn	100906	100	90	90	100	2792	4.51	185094
	Winter	82274	100	90	82	91	3175	4.85	171607
	Summer	1943	100	84	71	85	2547	4.83	3252
Malappuram	Autumn	50596	100	72	70	97	1503	5.92	49969
	Winter	35961	100	72	69	96	1812	9.22	42804
	Summer	5461	100	72	66	92	3215	8.90	11535
Kozhikode	Autumn	24875	100	54	50	93	1335	8.84	21817
	Winter	35146	100	72	68	94	1900	5.74	43875
	Summer	3825	100	72	69	96	1983	6.61	4983
Cannanore	Autumn	64302	100	90	83	92	1996	4.41	84337
	Winter	29717	100	108	100	93	1924	6.60	37560
	Summer	3942	100	108	91	84	2271	11.10	5883
State	Autumn	394927	100	939	885	94	2064	2.13	535545
	Winter	384836	100	968	902	93	2382	1.85	602186
	Summer	101703	100	837	751	90	2936	2.90	196200

Table No. 5

DATA ON DRIAGE (PERCENTAGE RECOVERY OF FINAL PRODUCE (DRY PADDY) FROM HARVESTED PRODUCE) AND YIELD FROM IRRIGATED AND UNIRRIGATED PLOTS—RICE 1974-75.

District	Season	Driage Experiment				Irrigated plots		Un-irrigated plots	
		Number planned	Number analysed	percentage	No.	Mean yield of dry paddy @ (kg. hect.)	Mean yield of dry paddy @ (kg. hect.)	Number	Number
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Trivandrum	Autumn	12	10	83	25	2048	45	1924	
	Winter	12	12	100	44	2561	26	2307	
	Summer	12	11	92	48	2065	18	1692	
Quilon	Autumn	17	16	94	6	2522	93	2054	
	Winter	17	17	100	19	2242	83	2543	
	Summer	12	11	92	32	1981	29	1719	
Alleppey	Autumn	21	18	86	1	1472	118	1652	
	Winter	15	18	120	18	2200	75	1950	
	Summer	18	19	106	47	3352	53	3062	
Kottayam	Autumn	15	14	93	1	3319	84	2214	
	Winter	15	15	100	31	2707	52	2232	
	Summer	10	10	100	47	3266	13	3310	
Idukki	Autumn	4	3	75	..	..	22	2229
	Winter	8	7	88	8	2986	41	2618	
	Summer	1	1	100	..	..	3	1974

Table No. 5 (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Ernakulam	Autumn	19	16	84	36	2035	71	1812
	Winter	18	18	100	74	2509	22	2127
	Summer	18	18	100	86	2014	2	1703
Trichur	Autumn	15	18	120	14	2284	76	1609
	Winter	15	18	120	39	2127	51	1809
	Summer	13	13	100	75	2400	1	1235
Palghat	Autumn	15	15	100	31	3207	59	2591
	Winter	14	12	86	54	3360	28	2487
	Summer	12	11	92	54	2953	17	2410
Malappuram	Autumn	12	12	100	4	2401	66	1390
	Winter	12	12	100	30	1770	39	2011
	Summer	12	12	100	63	2734	3	1058
Kozhikode	Autumn	9	7	78	2	1167	48	1269
	Winter	12	12	100	17	2534	68	1743
	Summer	12	11	92	17	2534	52	2407
Cannanore	Autumn	15	14	93	10	2251	73	1894
	Winter	18	20	111	43	1837	57	1732
	Summer	15	18	120	53	2048	38	1932
State	Autumn	154	143	93	130	2386	755	1857
	Winter	156	161	103	360	2458	542	2112
	Summer	135	135	100	522	2510	229	2354

@ Simple average

Table No. 6.1

Crop Estimation Survey

STATEMENT SHOWING THE PERCENTAGE AREA UNDER DIFFERENT IMPROVED AGRICULTURAL PRACTICES

Crop: Paddy

Season and year—Autumn 1974

District	Percentage area under								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	High yielding variety	other varieties	chemical fertilisers	other manures	not manured	treatment of insecticides	untreated by insecticides	Remarks	
Trivandrum	4.29	95.71	81.43	18.57	..	34.29	65.71	..	..
Quilon	16.16	83.84	84.85	12.12	3.03	34.34	65.66	..	..
Alleppey	25.21	74.79	75.63	11.76	12.61	45.38	54.62	..	..
Kottayam	23.53	76.47	89.41	4.71	5.88	68.24	31.76	..	..
Idukki	27.27	72.73	54.55	45.45	..	40.91	59.09	..	..
Ernakulam	24.30	75.70	56.07	24.30	19.63	46.73	53.27	..	..
Trichur	25.56	74.44	37.78	61.11	1.11	37.78	62.22	..	..
Palghat	27.78	72.22	76.67	21.11	2.22	17.78	82.22	..	..
Malappuram	14.29	85.71	32.86	65.71	1.43	25.71	74.29	..	..
Kozhikode	10.00	90.00	36.00	56.00	8.00	60.00	40.00	..	..
Cannanore	10.84	89.16	46.99	51.81	1.20	28.92	71.08	..	..
State	19.55	80.45	63.50	30.51	5.99	36.61	63.39	..	..

Table No. 6.2

Crop Estimation Survey

STATEMENT SHOWING THE PERCENTAGE AREA UNDER DIFFERENT IMPROVED AGRICULTURAL PRACTICES

Season and year—Winter 1975

Crop: Paddy

District	Percentage area under								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	High yielding variety	other varieties	chemical fertilisers	other manures	not manured	treatment of insecticides	untreated by insecticides	Remarks	
Trivandrom	11.43	88.57	92.86	7.14	..	65.71	34.29	..	..
Quilon	1.96	98.04	77.45	22.55	..	32.35	67.65	..	..
Alleppey	13.98	86.02	70.97	19.35	9.68	40.86	59.14	..	..
Kottayam	32.53	67.47	95.18	3.62	1.20	96.39	3.61	..	..
Idukki	30.61	69.39	69.39	18.37	12.24	85.71	14.29	..	..
Ernakulam	13.54	86.46	70.83	16.67	12.50	71.88	28.12	..	..
Trichur	12.20	87.80	47.78	52.22	..	57.78	42.22	..	..
Palghat	4.18	95.12	76.83	14.63	8.54	64.63	35.37	..	..
Malappuram	24.6	75.36	66.67	15.94	17.39	71.01	28.99	..	..
Kozhikode	16.18	83.82	52.94	25.00	22.06	25.00	75.00	..	..
Cannanore	15.00	85.00	65.00	31.00	3.00	60.00	40.00	..	..
State	15.08	84.92	71.51	21.28	7.21	59.76	40.24	..	..

Table No. 6.3

Crop Estimation Survey

STATEMENT SHOWING THE PERCENTAGE AREA UNDER DIFFERENT IMPROVED AGRICULTURAL PRACTICES

Crop: Paddy

Season and year—Summer 1975

District	Percentage area under									Remarks
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	High yielding variety	Other varieties	Chemical fertilisers	Other manure	Not manured	Treatment of insecticides	Untreated by insecticides			
Trivandrum	66.67	33.33	96.97	3.03	..	86.36	13.64			
Quilon	4.92	95.08	93.44	6.56	..	55.74	44.26			
Alleppey	36.00	64.00	99.00	1.00	..	92.00	8.00			
Kottayam	26.97	73.33	100.00	..	..	98.33	1.67		
Idukki	..	100.00	100.00	..	..	..	100.00		
Ernakulam	32.95	67.05	98.86	1.14	..	86.36	13.64			
Trichur	48.68	51.32	80.26	18.42	1.32	90.79	9.21			
Palghat	50.70	49.30	76.06	23.94	..	53.52	46.48			
Malappuram	53.03	46.97	89.39	10.61	..	34.85	15.15			
Kozhikode	65.22	34.78	79.71	20.29	..	52.17	47.83			
Cannanore	43.96	56.04	79.12	18.68	2.20	81.32	18.68			
State	42.74	57.26	89.35	10.25	0.40	78.70	21.30			

Table No. 7
RESPONSE-CROP-TAPIOCA (1974-75)

District	No. of experiments		Percentage response
	Planned	Analysed	
(1)	(2)	(3)	(4)
Trivandrum	60	44	73
Quilon	90	87	97
Alleppey	60	30	50
Kottayam	75	63	84
Idukki	55	55	100
Ernakulam	90	73	81
Trichur	75	64	85
Palghat	65	37	57
Malappuram	60	48	80
Kozhikade	60	57	95
Cannanore	90	78	87
State	780	636	82

Table No. 8

YIELD ESTIMATES—TAPIOCA (1974-75)

District	Area under crop		No. of experiments		Response per-centage	Estimated mean yield (tonnes/hect.)	Total production of raw tapioca (tonnes)
	Total area (Hect.)	Coverage	Planned	Analysed			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Trivandrum	78625	100	60	44	73	14.96	1176230
Quilon	99688	100	90	87	97	19.27	1920988
Alleppey	19124	100	60	30	50	18.65	356663
Kottayam	40120	100	75	63	84	20.63	827676
Idikki	3124	100	55	55	100	20.61	64386
Ernakulam	12171	100	90	73	81	16.52	201065
Trichur	8617	100	75	64	85	18.44	158897
Palghat	13373	100	65	37	57	18.52	247668
Malappuram	23648	100	60	48	80	12.29	290634
Kozhikode	11139	100	60	57	95	14.70	163743
Cannanore	8251	100	90	78	87	26.32	217166
State	317880	100	780	636	82	17.70	5625116

