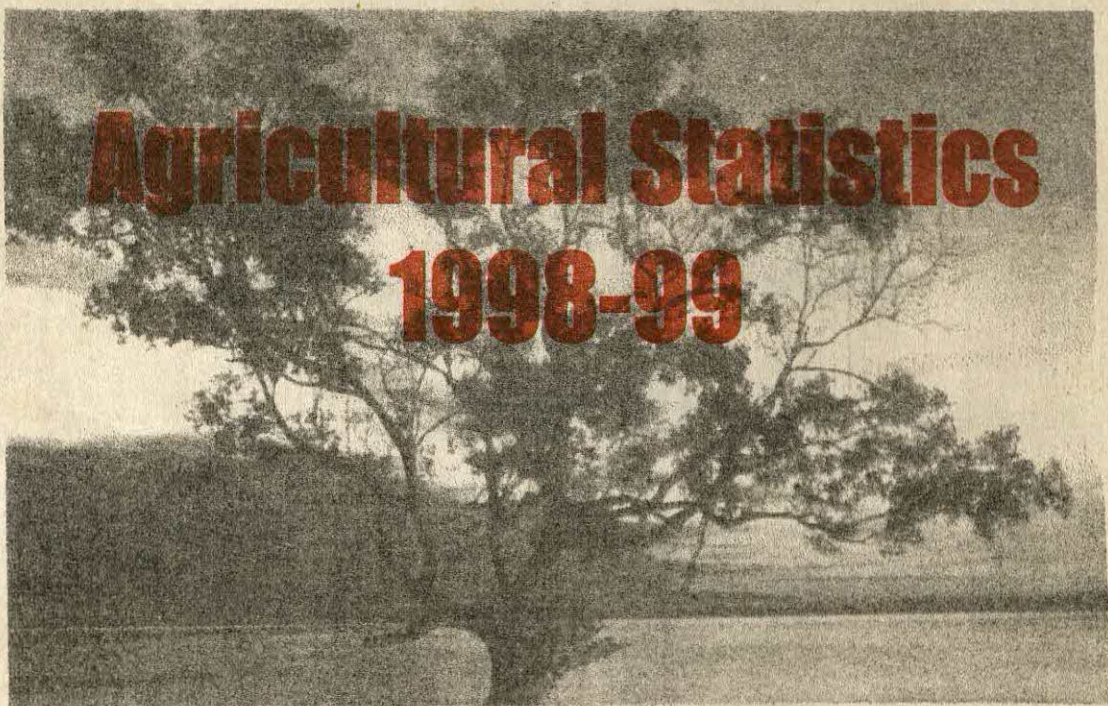


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Government of Kerala



Department of Economics & Statistics
Thiruvananthapuram
December 2000



Government of Kerala

Agricultural Statistics

1998-99

Department of Economics & Statistics

Thiruvananthapuram

December, 2000



Preface

Agricultural Statistics of Kerala is one of the important publications of the Department of Economics & Statistics. This publication deals with the various aspects of the agricultural economy of the State for the agricultural year 1998-99. The data relating to land use, area under crops and irrigation are collected and estimated every year. Production of important crops are estimated based on the results of crop cutting experiments and Area enumeration conducted in the selected samples in each Block. Being Kerala is a non-land record state the scheme Establishment of an Agency for Reporting of Agricultural Statistics (EARAS) is implemented in the State since 1975-76 with 50% Central assistance. This report was prepared in the Agricultural Statistics division of the Department of Economics & Statistics.

I hope that this will serve very valuable information on the performance of Agricultural sectors during 1998-99 to Planners, Administrators and Research workers in this field.

Suggestions for the improvement of the report are welcome.

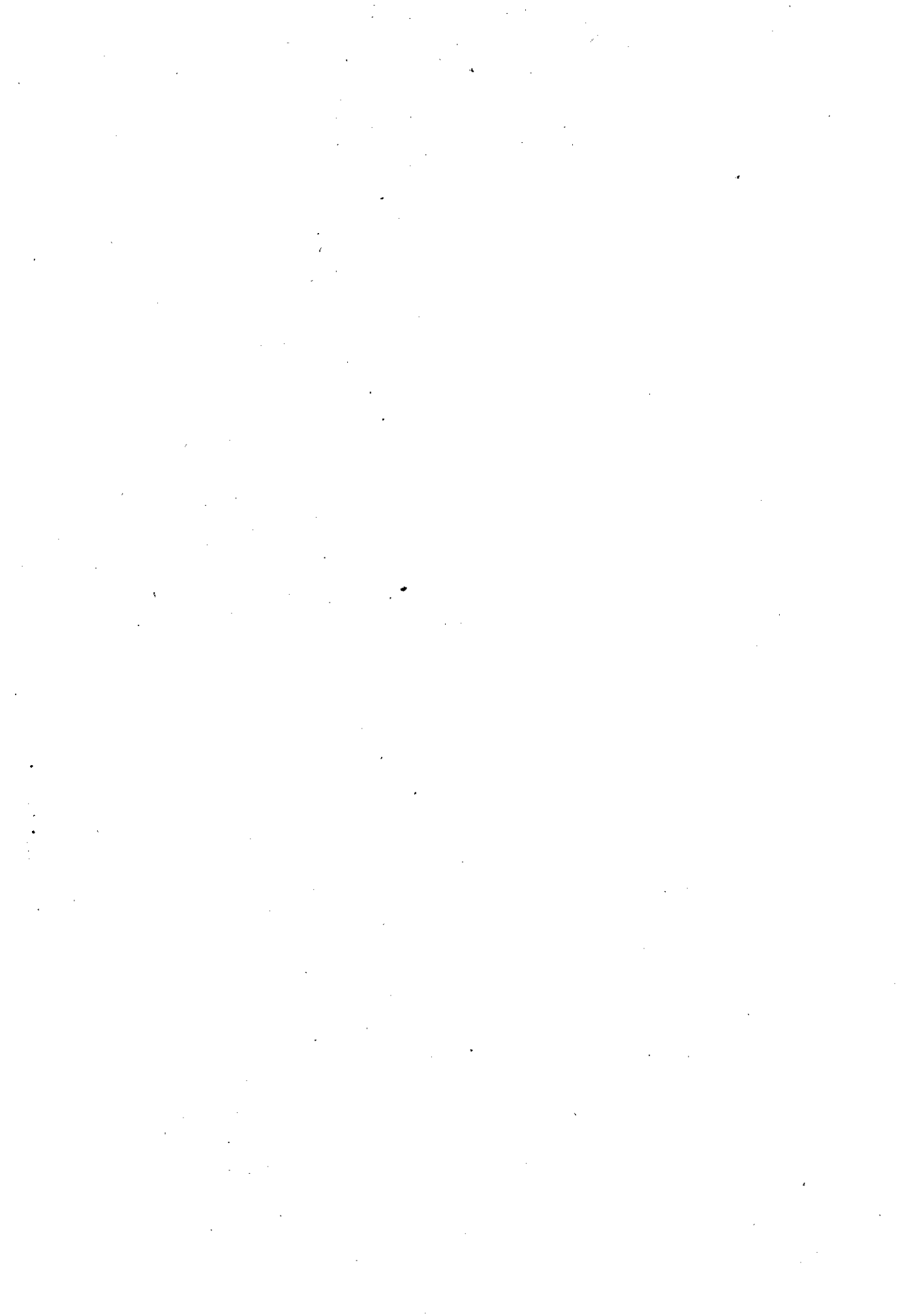
*A. Meera Sahib
Director*

Thiruvananthapuram,
8th November 2000.



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Agricultural Statistics 1998-99

Agricultural Statistics are collected in Kerala from very early times by this Department through land utilization surveys. Quality of the data and estimates prepared were not having the desired precision as the coverage was very small and sampling fraction was very small. In this context Government of India came up to finance a scheme of Establishment of an Agency for Reporting Agricultural Statistics (EARAS) as a deviation of the Timely Reporting Survey (TRS) implemented in other reporting States. In order to have a more comprehensive data on Agricultural Statistics in the non-reporting states like Kerala, West Bengal and Orissa, a variant of the TRS scheme called EARAS has been introduced in our State. Originally the scheme was intended to collect Agricultural Statistics like area, production, land utilization, Irrigation from 20% of the selected villages in each year in a phased manner and in the course of the fifth year entire crops and area were enumerated in the whole state.

Later with the introduction of crop insurance scheme by Government of India lower level estimates of agricultural production and average yield become necessary. Consequently EARAS scheme was further revised in 1987-88 and further reorganised in 1993-94 with a view to generate Panchayat Level Statistics.. The object of the scheme is to prepare annual statistics of land use, area and production of crops at district level with the break up for Block/Municipality/Corporation. Under the scheme each Block/Municipality/Corporation are divided into a number of investigator zones. Blocks in rural areas, Municipality/Corporation in urban areas are treated as stratum. In each investigator zone complete wet and dry survey numbers will be listed out from the basic tax register, maintained in the village offices which will form the basic frame for the survey. From this frame 100 key survey numbers will be selected at random. From the basic frame these survey numbers will be allocated between wet and dry land plots in proportion to the area in each category of wet and dry land plots. The investigator will form a cluster identifying the adjacent 4 or more survey numbers to key survey number in a systematic manner so as to have a minimum of five acres for enumeration. Hence, the investigator has to enumerate five hundred survey numbers annually in the respective Investigator zone.

In the respective zones we may have to enumerate the selected survey numbers by identifying the crops and collecting land utilization and irrigation particulars and simultaneously conduct crop-cutting experiments for all major crops and few selected minor crops. For this purpose the Investigator is visiting wet land plots in three seasons (Autumn, Winter and Summer) and dry land plots in two times.

These data collected through sample survey from selected clusters will be consolidated, compiled and estimates prepared at block and district level. Area cultivated under each crop is identified through the enumeration method and mean yield of each crop is prepared from the crop cutting experiments conducted for the respective crops. Based on these two information estimates for the block and district are prepared by using appropriate multiplier.

The data collected through field surveys during 1998-99 have been compiled and estimates prepared are published for the State is given in the following tables.

Agricultural Statistics 1998-99

Table 1 – Classification of area under land utilization

Sl No	District	Total Geographical area	Forest	Land put to non agricultural use	Barren & uncultivable land	Permanent pastures and other grazing land	Land under misc. tree crops	Cultivable waste	Fallow other than current fallow	Current fallow	Net area sown	Area sown more than once	Total cropped area		Remarks
													13	14	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Thiruvananthapuram	218600	49861	20492	433	8	60	326	472	741	146207	50931	197138		
2	Kollam	251838	81438	21060	277	8	241	652	957	2754	144451	67927	212378		
3	Pathanamthitta	268750	155214	14838	429	10	80	193	321	3591	94074	15424	109498		
4	Alappuzha	136058	--	22606	179	1	169	3477	2426	5074	102126	33296	135422		
5	Kottayam	219550	8141	23077	1376	2	129	1874	2625	4924	177402	39382	216784		
6	Idukki	514962	260907	14671	4251	257	6198	7799	461	1828	218590	28940	247530		
7	Eranakulam	235319	8123	34510	905	26	424	3506	3726	4527	179572	42887	222459		
8	Thrissur	299390	103619	27377	296	46	622	2807	3209	7450	153964	32448	186412		
9	Palakkad	438980	136257	43704	3037	72	3660	13602	9326	10986	218336	91701	310037		
10	Malappuram	362230	103417	31613	2541	14	1192	5672	2427	12357	203997	42333	246330		
11	Kozhikode	233330	41386	22465	1344	24	678	709	650	2557	163517	64053	227570		
12	Wayanad	212560	78787	10600	356	67	1033	1872	1136	2564	116145	78925	195070		
13	Kannur	296797	48734	28553	3798	83	1990	5335	1449	3175	203680	67307	270987		
14	Kasaragod	196133	5625	18256	9119	64	3724	14886	2352	5494	136613	2277	138890		
15	State	3885497	1081509	333822	28341	682	20200	62710	31537	68022	2258674	657831	2916505		

The estimates are based on survey conducted in the Revenue land (as per Village Records). Therefore the area under cultivation in forestland is not included.

Table 2 - Area under Crops 1998--99

District	Paddy			Total	Jowar	Ragi	Other cereals	Total cereals/ millets	Pulses including Tur			Total food grains	
	Autumn	Winter	Summer						Autumn	Winter	Summer		
													Total
1. Thiruvananthapuram	2	3	4	5	6	7	8	9	10	11	12	13	14
2. Kollam	4798	4784	16	9598				9598	30	22	1107	1159	10757
3. Pathanamthitta	7549	10022		17571				17571	87	63	579	729	18300
4. Alappuzha	1372	3165	2960	7497				7497	6	4		10	7507
5. Kottayam	8719	7348	19058	35125				35125		12	120	132	35257
6. Idukki	3277	7233	3883	14393				14393	4	96	997	1097	15490
7. Ernakulam	1065	2452	329	3846	2	42	133	4023	42	3	430	475	4498
8. Thrissur	16822	20462	12446	49730				49730	59	34	2454	2547	52277
9. Palakkad	10019	23000	6196	39215				39215	316	229	98	643	39858
10. Malappuram	45915	55730	5822	107467	2175	1115	2165	112922	219	261	2224	2704	115626
11. Kozhikode	6289	15647	1882	23818				23818	102	2	407	511	24329
12. Wayanad	921	4969	953	6843				6843	283	31	274	588	7431
13. Kannur	12043	3599	15642	15642				15642	5	21	424	450	16092
14. Kasaragod	8665	4918	295	13878				13878	9	548	661	1218	15096
15. State	4806	2941	261	8008			2	8010	35	60	269	364	8374
	120217	174714	57700	352631	2177	1157	2300	358265	1197	1386	10044	12627	370892

(Area in hectares)

Table 2 (contd.)

District	Sugar crops			Spices and condiments											Grand Total	
	Sugar-cane	Palmyrah	Total	Pepper	Chillies	Ginger	Turmeric	Cardamom	Areca nut	Tamarind	Cloves	Nutmeg	Cinnamon	Garlic		Total
1. Thiruvananthapuram	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	2	165	167	5800	3	80	70	-	827	1414	75	41	-	-	8310	8477
2. Kollam		17	17	9256	6	442	160	-	1941	977	53	56	8	-	12899	12916
3. Pathanamthitta	227	40	267	3793	2	387	70	664	1146	212	88	180	13	-	6555	6822
4. Alappuzha	192	41	233	2028		119	12		2067	523	36	109	24	-	4918	5151
5. Kottayam	137	309	446	7727	8	159	183	129	1130	503	114	513	26	-	10492	10938
6. Idukki	2894	201	3095	49749	-	1561	626	32686	2899	304	185	423	34	742	89209	92304
7. Ernakulam	12	228	240	6039	10	442	436	-	3604	819	93	2220	21	-	13684	13924
8. Thrissur		318	318	4369	18	92	87	-	5450	1845	70	1651	10	-	13592	13910
9. Palakkad	2653	3508	6161	4733	100	940	598	2928	3767	6014	12	65	41	-	19198	25359
10. Malappuram	6	1078	1084	7086	-	158	239	70	14190	2770	48	216	17	-	24794	25878
11. Kozhikode	15	333	348	11976	-	238	682	221	8970	1060	51	150	17	-	23365	23713
12. Wayanad		153	153	40210	-	6129	197	4108	4456	167	7	11	11	-	55296	55449
13. Kannur	20	124	144	23419	12	314	307	128	12360	1449	29	153	39	-	38210	38354
14. Kasaragod	2	66	68	6199	138	46	39	515	10832	248	13	23	-	-	18053	18121
15. State	6160	6581	12741	182384	297	11107	3706	41449	73639	18305	874	5811	261	742	338575	351316

Table 2 (contd.)

Districts	Fresh fruits								Dry fruits	
	Jack	Mango	Banana	Other plantain	Pineapple	Pappaya	Other fresh fruits	Total	Cashew	Total fruits
1	31	32	33	34	35	36	37	38	39	40
1. Thiruvananthapuram	6198	6212	1389	5235	215	785	554	20588	2466	23054
2. Kollam	7193	6867	1390	4301	224	815	464	21254	5180	26434
3. Pathanamthitta	2425	1324	1213	1996	157	486	592	8193	1050	9243
4. Alappuzha	3304	5813	324	3014	92	945	931	14423	4860	19283
5. Kottayam	4107	2622	1813	4449	465	821	604	14881	619	15500
6. Idukki	4704	2311	1771	3364	1109	502	738	14499	1143	15642
7. Ernakulam	3764	4113	3026	4102	4929	1055	967	21956	1374	23330
8. Thrissur	4445	6400	2475	4817	300	1044	1466	20947	4339	25286
9. Palakkad	4812	7905	4612	4966	99	1006	1040	24440	5998	30438
10. Malappuram	7969	9888	5083	3433	405	1696	1412	29886	9950	39836
11. Kozhikode	10500	11308	1519	3056	354	1440	1334	29511	3471	32982
12. Wayanad	10725	5243	3726	1716	51	328	741	22530	1385	23915
13. Kannur	13468	14965	1453	4357	479	1195	1307	37224	27632	64856
14. Kasaragod	2271	2346	727	2141	84	408	708	8685	21801	30486
15. State	85885	87317	30521	50947	8963	12526	12858	289017	91268	380285

Table 2 (contd.)

Districts	Vegetables														Total food crops		
	Drumstick	Tubers	Sweet potato	Tapioca			Total	Bitter gourd	Snake gourd	Ladies finger	Brinjal	Amaranth	Other vegetables	Thuvvara		Muthira	Total vegetables
				Autumn	Winter	Summer											
1	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
1. Thiruvananthapuram	2457	2182	40	5771	8153	12707	26631	103	108	24	28	89	707			32369	74657
2. Kollam	1619	6601		2971	12838	12196	28005	67	26	293	204	678	419			37912	95562
3. Pathanamthitta	623	3380		829	4453	794	6076	98	90	26	104	23	816			11236	34808
4. Alappuzha	932	1981	7	333	2398	2198	4929	153	94	24	29	262	729			9140	68831
5. Kottayam	889	1268	2	602	3272	3056	6930	260	157	21	13	13	958			10511	52439
6. Idukki	541	1549	22	429	3490	3108	7027	512	1	4	7	1	3317	7		12988	125432
7. Ernakulam	817	1100	4	1194	1282	2545	5021	142	89	51	24	83	1046			8377	97908
8. Thrissur	1051	726		526	317	966	1809	84	15	61	64	180	950			4940	83994
9. Palakkad	1661	2696	649	1035	3329	2451	6815	227	473	391	168	47	3182	4971	944	22224	193647
10. Malappuram	2669	1964	206	2525	1645	3873	8043	35	5	19	6	25	2715			15687	105730
11. Kozhikode	3325	1909	26	1080	1466	1636	4182	13	3	5	1	18	812			10294	74420
12. Wayanad	725	2092		188	574	719	1481	85	2	4	6	3	774			5172	100628
13. Kannur	1777	1106	27	494	2525	1714	4733	165	15	37	11	82	1106		13	9072	127378
14. Kasaragod	536	214	116	176	650	266	1092	25	3	23	11	21	841		1	2883	59864
15. State	19622	28768	1099	18153	46392	48229	112774	1969	1081	983	676	1525	18372	4978	958	192805	1295298

Table 2 (contd.)

District	Non food crops															
	Oil seeds					Fibre drugs and narcotics					Plantation crops					
	Ground nut	Sesamum	Coconut	Others	Total	Cotton	Betal leaves	Tobacco	Lemon grass	Total	Tea	Coffee	Rubber	Cocoa	Total	
1	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
1. Thiruvananthapuram	2		91271	54	91327		37		2	39	965		27472	134	28571	119937
2. Kollam		727	75614	9	76350		58			58	1257		36275	48	37580	113988
3. Pathanamthitta		16	21994	27	22037		74			74	91		47570	764	48425	70536
4. Alappuzha		1150	58621	151	59922		36			36			3722	235	3957	63915
5. Kottayam		36	42571	21	42628		9			9	1951	1800	110548	2492	116791	159428
6. Idukki		21	21444	41	21506		2		1116	1118	23419	10064	38012	2820	74315	96939
7. Ernakulam		589	61719	102	62410		34		5	39	2		56243	1225	57470	119919
8. Thrissur		148	81171	172	81491		55		6	61	529		13290	184	14003	95555
9. Palakkad	7019	78	45439	766	53302	10999	6		2	11007	829	4650	28550	32	34061	98370
10. Malappuram		496	99276	151	99923		515			515	174		28544	45	28763	129201
11. Kozhikode			129506	30	129536		21		1	22			17844	386	18230	147788
12. Wayanad		28	9948	28	10004				332	332	5473	67185	6337	126	79121	89457
13. Kannur		14	95118	174	95306		15		74	89			33554	284	33838	129233
14. Kasaragod			48596	25	48621		19	41		60			21963	134	22097	70778
15. State	7021	3303	882288	1751	894363	10999	881	41	1538	13459	34690	83699	469924	8909	597222	1505044

Table 2 (contd.)

Districts	Fodder grass	Green manure crops	Other non food crops	Kacholam	Total	Total non food crops	Total cropped area
1	74	75	76	77	78	79	80
1. Thiruvananthapuram	104	319	2121		2544	122481	197138
2. Kollam	134	613	2081		2828	116816	212378
3. Pathanamthitta	57	634	3463		4154	74690	109498
4. Alappuzha	99	233	2344		2676	66591	135422
5. Kottayam	111	325	4477	4	4917	164345	216784
6. Idukki	1272	462	23423	2	25159	122098	247530
7. Ernakulam	92	298	4221	21	4632	124551	222459
8. Thrissur	24	951	5888		6863	102418	186412
9. Palakkad	221	1865	15931	3	18020	116390	310037
10. Malappuram	20	4975	6404		11399	140600	246330
11. Kozhikode	56	1944	3359	3	5362	153150	227570
12. Wayanad	196	446	4343		4985	94442	195070
13. Kannur	181	1041	13154		14376	143609	270987
14. Kasaragod	11	1564	6673		8248	79026	138890
State	2578	15670	97882	33	116163	1621207	2916505

Table 3 – Production of important crops 1998-99

Name of district	Rice				Jowar	Ragi	Other cereals	Sugar-cane	Black pepper	Dry chillies	Pulses	Cured ginger	Cured turmeric	Ground nut
	Autumn	Winter	Summer	Total										
	2	3	4	5										
1. Thiruvananthapuram	8892	8792	5	17689	6	7	8	9	10	11	12	13	14	15
2. Kollam	14574	18737		33311				15	1953	3	265	232	159	1
3. Pathanamthitta	2499	6544	10424	19467					2828	6	1328	1331	238	
4. Alappuzha	17570	16098	58013	91681				1258	1097	2	8	997	115	
5. Kottayam	6580	18048	11030	35658				419	256		115	224	14	
6. Idukki	2314	5869	812	8995	1	34	104	20254	29372		392	6486	1505	
7. Ernakulam	28778	36613	19138	84529				84	1026	9	1823	1234	746	
8. Thrissur	17623	42334	14233	74190					919	15	459	176	123	
9. Palakkad	98955	123214	15619	237788	1107	902	1683	23677	826	107	2037	3329	1162	5218
10. Malappuram	13044	24600	4697	42341				46	1145		381	271	350	
11. Kozhikode	850	5819	1165	7834				115	3288		446	670	1496	
12. Wayanad		25666	9023	34689					18175		343	22717	553	
13. Kannur	14122	8071	347	22540				141	5236	10	995	1121	1120	
14. Kasaragod	10048	5617	366	16031			1	4	1287	129	283	182	67	
15. State	235849	346022	144872	726743	1108	936	1788	47216	68510	288	9822	39362	8034	5219

Table 3 (contd.)

District	Arecanut betel nuts (Ton.)	Tama- rind	Mango	Jack (Nos. in million nuts)	Banana	Other plantain	Pine- apple	Tapioca	Sweet potato	Pappaya	Drum- stick	Sesa- mum	Coconut (million nuts)
1	16	17	18	19	20	21	22	23	24	25	26	27	28
1. Thiruvanantha- puram	455	4313	19824	32	15859	41992	1711	566484	454	5169	3963		555
2. Kollam	1593	1999	25336	32	17276	33140	1724	532109		758	2960	260	350
3. Pathanamthitta	923	404	9001	12	16980	17334	1017	165089		2685	640	12	118
4. Alappuzha	766	1000	17024	11	4493	24818	556	86808	81	4701	1040	140	288
5. Kottayam	816	961	10533	15	27845	41156	2761	196351	20	5914	488	20	171
6. Idukki	2792	526	9733	16	23692	39509	6084	241324	250	1271	710	1	87
7. Ernakulam	1941	874	10624	15	41314	36195	48329	140764	45	5108	640	311	345
8. Thrissur	5750	1723	15864	22	35071	35190	2650	38529		4566	1426	70	534
9. Palakkad	1921	7421	29301	16	54078	34063	637	156619	5986	6669	2209	39	194
10. Malappuram	9823	3592	25529	25	59389	22840	2024	205796	2371	7326	2792	182	600
11. Kozhikode	11528	2364	12840	31	16867	17191	2635	92145	295	936	1324		999
12. Wayanad	1478	328	12789	32	47663	15050	224	56023		2190	585	4	25
13. Kannur	10794	2765	44212	53	16634	24259	2631	124267	306	6401	1355	18	529
14. Kasaragod	17899	669	10671	13	9427	15249	724	27847	2116	2511	802		337
15. State	68479	28939	253281	325	386588	397986	73707	2630155	11924	56205	20934	1057	5132

Table 3 (contd.)

District	Cotton (Bale of 170Kg. each)	Nutmeg	Tobacco	Lemon-grass	Tea *	Coffee **	Rubber ***	Cocoa	Processed cardamom @	Raw cashew nuts	Betel leaves	Clove (dry)	Garlic
1. Thiruvananthapuram	29	30	31	32	33	34	35	36	37	38	39	40	41
2. Kollam		11			595		31309	60		2417	6620	5	
3. Pathanamthitta		15			367		44405	30		3032	2235	3	
4. Alappuzha		46					60711	383	46	403	13241	6	
5. Kottayam		28					3868	193		792	6442	2	
6. Idukki		133			279	1035	137820	671	12	203	1610	8	
7. Ernakulam		109		74	41358	7875	44005	1445	4556	536	358	12	12614
8. Thrissur		594		1			71595	372		517	6083	6	
9. Palakkad		351		2	1648		18775	99		1796	9841	5	
10. Malappuram	17752	17		1	2368	1850	30150	9	175	2612	1074	1	
11. Kozhikode		55					31740	4	Negligible	4169	98257	3	
12. Wayanad		38					21833	268	Negligible	1858	3757	3	
13. Kannur		3		6	12111	39126	3828	48	201	622	-	1	
14. Kasaragod		40		3			36164	76	Negligible	25774	2683	1	
15. State	17752	1446	228	87	58726	49886	559099	3686	4990	51336	155600	57	12614

* Tea Board figures related 1998-99;

** Coffee Board figures related 1998-99; *** Rubber Board figures related 1998-99

@ Spices Board figures related 1998-99

Table 4 – Net area irrigated (Source-wise) 1998-99

District	[Area in Hectares]								Total
	Government canal	Private canal	Government tanks	Private tanks	Government wells	Private wells	Minor lift irrigation	Other sources	
1	2	3	4	5	6	7	8	9	10
1. Thiruvananthapuram	2564	28	242	108		451		547	3940
2. Kollam	25	18		182		926		720	1871
3. Pathanamthitta	964	88		76	8	521	13	2936	4606
4. Alappuzha	3391	15	6	12245		4394	687	23754	44492
5. Kottayam	1330	4		289		415		8457	10495
6. Idukki	4085	1	73	3689		1102	2	9650	18602
7. Ernakulam	18793	241	200	910	253	8635	5729	6680	41461
8. Thrissur	17730	60	124	9963	9	36136	3304	16749	84075
9. Palakkad	43146	135	76	2666	40	12494	1093	5894	65544
10. Malappuram	455	218	40	4996		11525	634	10384	28252
11. Kozhikode	1664	367		392		1707	196	813	5139
12. Wayanad	397	428		3			187	3332	4347
13. Kannur	98	878	117	1933	29	10624	79	8002	21760
14. Kasaragod	1	1	112	9090	63	17861	13	12784	39925
1. State	94643	2482	990	46542	402	106811	11937	110702	374509

Table 5 – Gross area under irrigation (crop-wise) 1998-99

Districts	[Area in Hectares]													
	Paddy	Tubers	Vege- tables	Coconut	Arecanut	Cloves & nutmeg	Other spices condiments	Banana	Betel leaves	Sugar cane	Other trees	Total	Rema rks	
12	3	4	5	6	7	8	9	10	11	12	13	14	15	
1. Thiruvananthapuram	1652	23	603	854	2	37	53	1152	37	2	1177	5592		
2. Kollam		16	945	1031	28	30	18	107	58		664	2897		
3. Pathanamthitta	4236	7	457	2	1	77	9	281	74	227	47	5418		
4. Alappuzha	29751	542	615	17563	68	89	573	89	36	192	640	50158		
5. Kottayam	13617	14	342	165	21	314	123	76	9	137	704	15522		
6. Idukki	2228	7	18	566	169	80	230	297	2	2894	531	7022		
7. Ernakulam	40828	9	407	15608	1282	849	117	1466	34	12	681	61293		
8. Thrissur	26195	39	765	45022	4926	159	673	1876	55		762	80472		
9. Palakkad	53027	16	1049	12694	1850	81	676	2278	6	2653	2215	76545		
10. Malappuram	12420	152	928	14033	5012	29	105	2124	515	6	954	36278		
11. Kozhikode	1358	9	430	5485	430	13	7	552	21	15	1116	9436		
12. Wayanad	3474	3	130	38	10	9	5	55			986	4710		
13. Kannur	5067	31	69	16703	3419	24	114	706	15	20	967	27135		
14. Kasaragod	3074	19	291	23153	9580	13	121	676	19	2	1418	38366		
15. State	196927	887	7049	152917	26798	1804	2824	11735	881	6160	12862	420844		

V.8/12.2000

