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GOVERNMENT OF KERALA



**AGRICULTURAL STATISTICS
2003-2004**

**Department of Economics & Statistics
Thiruvananthapuram
May 2005**

Government of Kerala

Agricultural Statistics
2003-2004

Department of Economics & Statistics
Thiruvananthapuram
May, 2005

PREFACE

'Agricultural Statistics' is one of the important publications of the Department of Economics and Statistics, Government of Kerala. The Department publishes the report in every agricultural year. This report presents the result of sample survey conducted in Kerala during the period from 01.07.2003 to 30.06.2004 under the central scheme – Establishment of an Agency for Reporting Agricultural Statistics (EARAS). The data relating to land use, area under crops, crop production, yield rate, irrigation statistics, etc is furnished in this report. This report includes the land utilization details under 13 categories in which the four additional categories are the area under Marshy land, Still water, Waterlogged and Social forestry.

This report was prepared in the Agricultural Statistics Division of the Directorate of Economics and Statistics.

I hope this report would be of great help to those engaged and interested in Agricultural sector, Planners, Administrators, Research scholars etc. in this field. Suggestions for the improvement of future issues of this report are welcome.

Thiruvananthapuram
31-05-2005

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Introduction

The Report "Agricultural Statistics" annually published by the Directorate of Economics and Statistics deals with estimates of area under various crops, land utilization pattern, crop production and other major aspects of agricultural sector of Kerala state. Initially the data collected through the land utilization survey was utilized for preparation of Agricultural Statistics in Kerala. But the data collected and estimates prepared were inadequate on account of small sampling frame and the limited coverage. With a view to obtain more comprehensive data on Agricultural Statistics in non-reporting states like Kerala, West Bengal and Orissa, Government of India sponsored a scheme namely Establishment of an Agency for reporting Agricultural Statistics (EARAS). In Kerala the scheme was being implemented by the Department of Economics and Statistics from 1975-76 onwards. Originally the scheme was intended to collect Agricultural Statistics from 20% of the selected village in each year on a phased manner covering the entire state. EARAS Scheme was further revised in 1987-88 with an objective to prepare district level estimates with breakup for Block/Municipality/Corporation. During 1993-94 the Investigator zones were reorganized by suiting the villages to Panchayats. From 2000-01 onwards the part panchayats were discontinued and each investigator zone formed with full panchayat/panchyats.

In decentralized planning, the panchayat level Agricultural statistics has an important place. The Local bodies require micro level agricultural statistics for their planning purpose. To fulfill this objective, the Department is decided to take necessary steps such as estimating the area and production of all principal crops at micro level.

The area under the crop and yield rate of the crop are the most important components in the estimation of crop production. The area Statistics are collected through the area enumeration survey while the yield rates are obtained through the General Crop Estimation Survey conducted under the scheme EARAS.

Sampling Design:

Stratified Multistage random sampling method is followed in the survey. The Block/Municipality/Corporation are treated as a stratum. The Blocks are divided in to a number of Investigator Zones depending on the area of the block and nature of land. Corporation area is divided in to three Investigator Zones. Each Municipality with area more than 10 square Km is treated as a single Investigator Zone. The Investigator Zones with in the stratum is the first stage unit of sampling, selected clusters of each Investigator Zone the second stage unit, and the selected survey number of the plot is the ultimate unit of sampling.

Sampling Size:

In each Investigator Zone 100 clusters of five-survey sub division as in the basic Tax Register is selected for the survey. These 100 clusters are allocated among the dry land and wet land in proportion to area under these categories in the zone. 100 survey numbers are selected from the basic tax register using circular systematic sampling method. These plots are the key plots for cluster formation.

The Investigators form the cluster by identifying 4 or more survey numbers adjacent to key survey number in a systematic manner so as to have a minimum of five acres for enumeration. Five hundred survey numbers will be enumerated annually in an Investigator Zone. Wet and Dry cluster will be formed separately and carried out separate enumeration. Wetland clusters will be enumerated in all three seasons Autumn, Winter and Summer and Dry land plots will be visited two times for enumeration. The area under crops of each season, annual, perennial, horticulture and vegetables etc. Land utilization details, irrigation particulars etc will be collected by the Investigator at the time of enumerations. Simultaneously Investigator will identify and conduct crop-cutting experiments for all major crops and selected minor crops.

The yield rates obtained through analysis of scientifically designed crop cutting experiments under crop estimation survey are used for estimation of production and to work out mean yield for the purpose of implementation National Agricultural Insurance Scheme (NAIS).

The data collected through Area Enumeration Survey will be consolidated compiled and prepared area estimates at block and district level. By using area estimates and yield rate production estimates are prepared. The data regarding the land utilization are used to estimate the area under different classification of land utilization.

The following tables are prepared on the basis of the data collected through sample survey during 2003-2004 under the scheme EARAS in the state of Kerala.

Sampling Design:

Stratified Multistage random sampling method is followed in the survey. The Block/Municipality/Corporation are treated as a stratum. The blocks are divided in to a number of Investigator Zones depending on the area of the block and nature of land. Corporation area is divided in to three Investigator Zones. Each Municipality with area more than 10 square Km is treated as a single Investigator Zone. The Investigator Zones with in the stratum is the first stage unit of sampling. Selected clusters of each Investigator Zone the second stage unit, and the selected survey number of the plot is the ultimate unit of sampling.

Agricultural Statistics 2003-2004

Table 1 - Classification of area under land utilization

SINo	District	Total Geographical area	Forest	Land put to non agricultural use	Barren & uncultivable land	Permanent pastures and other gazing land	Land under misc. tree crops	Cultivable waste	Fallow other than current fallow	Current fallow	Marshy land	Still water	Water logged area	Social Forestry	Net area sown	Area sown more than once	Total cropped Area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Thiruvananthapuram	218600	49861	23736	430	15	51	418	427	1621	0	4	0	9	142028	41163	183191
2	Kollam	251838	81438	23584	288	14	163	392	617	3795	0	87	52	3	141405	46092	187497
3	Pathanamthitta	268750	155214	15391	426	0	106	1444	1687	4059	0	0	0	2	90421	24855	115276
4	Alappuzha	136058	-	24260	79	3	196	8324	4681	4682	0	12	0	0	93821	32681	126502
5	Kottayam	219550	8141	26712	1840	0	209	2684	2705	6011	1	98	66	5	171078	43358	214436
6	Idukki	514962	260907	15311	3328	98	2360	1736	587	864	35	0	84	0	229652	60184	289836
7	Eranakulam	235319	8123	43448	1375	14	139	6512	2954	6902	14	17	8	3	165810	43971	209781
8	Thrissur	299390	103619	35541	415	42	651	3038	5224	9159	0	2	13	1	141685	54058	195743
9	Palakkad	438980	136257	53241	3297	10	1446	19114	10002	1132	0	1	0	2	204289	112945	317234
10	Malappuram	363230	103417	37745	1908	0	429	5521	5304	1020	0	1	6	2	198688	74557	273245
11	Kozhikode	233330	41386	26814	1470	33	197	1201	896	1257	22	92	16	0	159795	67588	227383
12	Wayanad	212560	78787	12520	273	52	489	1032	391	1598	0	0	0	34	117384	87643	205027
13	Kannur	296797	48734	31474	3365	12	1180	4812	2455	3940	5	2	4	37	200777	56434	257211
14	Kasaragod	196133	5625	26203	1030	23	3215	11057	3331	3261	0	1	1	0	133107	18985	152092
15	State	3885497	1081509	395980	28803	316	10831	67285	41261	68679	77	317	401	98	2189940	764514	2954454

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 2003-2004

District	Paddy		Total	Jowar	Fagi	Other cereals	Total cereals/millets	Pulses including Tur			Total	Total food grains
	Autumn	Winter						Summer	Autumn	Winter		
1. Thiruvananthapuram	2551	2802	5371	33	-	4	5375	64	95	296	455	5830
2. Kollam	3412	6755	10187	1	-	2	10190	53	65	485	603	10793
3. Pathanamthitta	683	2570	5262	-	-	10	5262	52	22	9	83	5345
4. Alappuzha	5650	16706	32083	15	-	5	32088	1	-	127	28	32116
5. Kottayam	2564	5218	11502	-	-	1	11503	48	114	265	427	11930
6. Idukki	1201	1950	3228	2	74	176	3480	33	15	145	193	3673
7. Ernakulam	11291	12049	29495	-	-	-	29495	100	83	1438	1621	31116
8. Thrissur	8016	19825	34158	-	-	6	34164	7	27	71	105	34269
9. Palakkad	52811	48353	105131	2109	1427	1033	109700	47	260	3	310	110010
10. Malappuram	5032	10953	17671	9	-	-	17680	7	290	441	738	18418
11. Kozhikode	516	3611	5185	-	-	-	5185	35	23	206	264	5449
12. Wayanad	-	10175	12343	4	3	1	12351	2	-	506	508	12859
13. Kannur	5287	3983	9461	1	-	-	9462	1	122	292	415	9877
14. Kasaragod	3756	2434	6263	3	-	5	6271	13	164	71	248	6519
15. State	102770	147384	287340	2129	1504	1233	292206	463	1280	4255	5998	298204

Table 2 (contd.)

District	Sugar crops			Spices and condiments										Grand Total		
	Sugarcane	Palmy-rah	Total	Pepper	Green chillies	Ginger	Turn-eric	Cardamom	Arecanut	Tamarind	Cloves	Nutmeg	Cinnamon		Garlic	Total
1	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1. Thiruvananthapuram	2	143	145	6915	81	91	38	-	1220	1359	49	31	1	-	9785	9930
2. Kollam	2	19	21	11305	151	432	162	6	2322	719	22	39	8	-	15166	15187
3. Pathanamthitta	129	46	175	5154	1	470	95	664	1488	278	41	343	21	-	8555	8730
4. Alappuzha	162	27	189	1997	54	117	8	-	2416	538	16	109	26	-	5281	5470
5. Kottayam	41	414	455	9097	17	172	156	201	1952	463	82	697	22	-	12859	13314
6. Idukki	1595	219	1814	68595	17	904	251	32815	3831	343	309	836	49	638	108588	110402
7. Ernakulam	1	245	246	6973	35	349	484	-	5275	809	36	3994	14	-	17969	18215
8. Thrissur	1	162	163	4959	129	124	97	-	8052	2285	39	2838	11	-	18534	18697
9. Palakkad	1592	3178	4770	6079	74	902	548	2754	5963	6993	13	110	32	-	23468	28238
10. Malappuram	4	899	903	10525	40	146	268	70	20476	2880	24	265	25	-	34719	35622
11. Kozhikode	-	257	257	13094	-	135	366	220	11499	1003	55	281	37	-	26690	26947
12. Wayanad	2	137	139	42287	7	4392	121	4106	8689	129	17	30	19	-	59797	59936
13. Kannur	3	87	90	22089	-	166	112	128	13489	1041	14	89	23	-	37151	37241
14. Kasaragod	1	60	61	7371	76	116	68	368	15832	350	27	56	23	-	24287	24348
15. State	3535	5893	9428	216440	682	8516	2774	41332	102504	19190	744	9718	311	638	402849	412277

Table 2 (contd.)

Districts	Fresh fruits								Dry fruit	
	Jack	Mango	Banana	Other plantain	Pineapple	Papaya	Other fresh fruits	Total	Cashew	Total fruits
1. Thiruvananthapuram	6704	4897	2353	5574	284	1059	510	21381	2239	23620
2. Kollam	6029	5060	1600	4278	504	1120	479	19070	4404	23474
3. Pathanamthitta	2997	1684	2343	2128	279	698	766	10895	1149	12044
4. Alappuzha	3015	5371	553	2521	87	1123	762	13432	4092	17524
5. Kottayam	4399	3060	3107	3597	821	1176	859	17019	640	17659
6. Idukki	6444	2982	1648	3173	1459	794	712	17212	1211	18423
7. Ernakulam	4650	4305	5872	4590	6696	1470	912	28495	1241	29736
8. Thrissur	5595	7869	2532	6611	194	1642	1328	25771	3796	29567
9. Palakkad	5536	9802	10096	6363	183	1352	1112	34444	5083	39527
10. Malappuram	10086	10932	8963	3715	302	2358	925	37281	10215	47496
11. Kozhikode	10982	10360	1993	3226	266	2035	682	29544	3754	33298
12. Wayanad	10021	4604	11819	1637	51	433	462	29027	1346	30373
13. Kannur	13584	11554	2310	3542	244	1774	795	33603	27817	61420
14. Kasaragod	2819	3148	717	2541	114	665	582	10586	19389	29975
15. State	92861	85428	55906	53496	11484	17699	10886	327760	86376	414136

Table 2 (contd.)

Districts	Vegetables													Total food crops			
	Drumstick	Tubers	Sweet potato	Tapioca			Total	Bitter gourd	Snake gourd	Ladies finger	Brinjal	Amaranth	Other vegetables		Thuvara	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	2227	1561	34	4863	6392	9366	20621	77	104	33	9	122	303	0	0	25091	64471
2. Kollam	1762	3361	13	3346	10028	8879	22253	140	31	27	57	141	547	0	0	28332	77786
3. Pathanamthitta	628	3467	0	968	3515	3041	7524	84	88	37	83	62	1017	0	0	12990	39109
4. Alappuzha	851	1631	1	221	1687	1694	3602	90	93	11	56	192	439	0	0	6966	62076
5. Kottayam	852	1125	1	924	2770	3066	6760	154	207	19	62	15	814	0	0	10009	52912
6. Idukki	630	2177	10	758	3658	2934	7350	394	5	7	42	4	5850	16	0	16485	148983
7. Ernakulam	865	1100	2	1441	1648	2553	5642	140	74	38	43	74	1065	0	0	9043	88110
8. Thrissur	1604	992	1	260	382	531	1173	263	79	77	24	85	1183	1	6	5488	88021
9. Palakkad	2092	2267	330	582	1859	1498	3939	252	54	468	284	170	6477	2011	558	18902	196677
10. Malappuram	3232	2330	372	1909	1904	2671	6484	166	61	121	69	57	2995	0	21	15908	117444
11. Kozhikode	2993	1352	21	742	1395	1432	3569	53	8	11	1	44	489	0	0	8541	74235
12. Wayanad	891	1686	14	389	733	842	1964	211	4	8	8	41	957	0	1	5785	108953
13. Kannur	1948	716	21	278	1324	1057	2659	77	18	19	13	77	981	0	0	6529	115067
14. Kasaragod	718	252	182	76	600	81	757	61	2	54	11	58	759	0	2	2856	63698
15. State	21293	24017	1002	16757	37895	39645	94297	2162	828	930	762	1142	23876	2028	588	172925	1297542

Table 2 (contd.)

District	Non food crops											TOTAL				
	Oil seeds				Total	Fibre drugs and narcotics				Plantation crops						
	Groun dnut	Sesa mum	Coconut	Others		Cotton	Betal leaves	Tob acco	Lemon grass	Total	Tea		Coffee	Rubber	Cocoa	Total
1. Thiruvanan- thapuram	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
2. Kollam	-	-	85506	34	85540		32		-	32	965		28432	120	29517	115089
3. Pathanam- thitta	-	175	67531	45	67751		53		5	58	1349		36741	13	38103	105912
4. Alappuzha	-	12	21660	42	21714		71		9	80	-		47820	845	48665	70459
5. Kottayam	-	168	55982	195	56345		43		2	45	-		3844	166	4010	60400
6. Idukki	-	2	39286	88	39376		16		-	16	2196		111775	1642	115613	155005
7. Ernakulam	-	-	24383	16	24399		6		638	644	25748	+ 12605	38376	4250	80979	106022
8. Thrissur	-	126	57964	59	58149		69		2	71	3		56892	1158	58053	116273
9. Palakkad	2687	173	87397	447	88017		28		2	30	530		13448	94	14072	102119
10. Malappuram	-	159	55655	1039	59540	2949	5		64	3018	852	4650	29612	72	35186	97744
11. Kozhikode	-	370	109582	163	110115		495		-	495	192		29831	154	30177	140787
12. Wayanad	-	-	129365	28	129393		23		3	26	-		17642	549	18191	147610
13. Kannur	-	19	11098	-	11117		-		84	84	6492	67429	6636	104	80661	91862
14. Kasaragod	-	-	95278	126	95404		1		77	78	-		34581	184	34765	130247
15. State	2687	1204	898498	2305	904694	2949	856	76	886	4767	38327	84684	478402	9433	610846	1520307

+ Includes Kottayam district

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	118	312	3201	-	3631	118720	183191
2. Kollam	229	926	2644	-	3799	109711	187497
3. Pathanamthitta	200	1257	4251	-	5708	76167	115276
4. Alappuzha	97	314	3615	-	4026	64426	126502
5. Kottayam	154	615	5749	1	6519	161524	214436
6. Idukki	1151	594	33072	14	34831	140853	289836
7. Ernakulam	151	565	4635	47	5398	121671	209781
8. Thrissur	88	1531	3984	-	5603	107722	195743
9. Palakkad	766	2625	19421	1	22813	120557	317234
10. Malappuram	22	5971	9020	1	15014	155801	273245
11. Kozhikode	47	1772	3718	1	5538	153148	227383
12. Wayanad	182	425	3605	-	4212	96074	205027
13. Kannur	133	940	10823	1	11897	142144	257211
14. Kasaragod	61	1396	6159	-	7616	88394	152092
15. State	3399	19243	113897	66	136605	1656912	2954454

Table 3 - Production of important crops 2003-04

Name of district	Rice				Jowar	Ragi	Other cereals	Sugar-cane	Black pepper	Green chillies	Pulses	Cured ginger	Cured turmeric	Ground nut
	Autumn	Winter	Summer	Total										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1. Thiruvananthapuram	5666	5586	26	11278	0	0	3	0	1758	81	100	284	82	-
2. Kollam	7693	14726	0	22419	1	0	0	20	3301	151	1097	1224	269	-
3. Pathanamthitta	1437	5905	5299	12641	0	0	0	630	1356	1	66	1150	159	-
4. Alappuzha	11736	30092	21180	63008	0	0	4	1103	167	54	24	198	7	-
5. Kottayam	6823	11394	7978	26195	0	0	1	198	1801	17	367	524	370	-
6. Idukki	2844	4580	102	7526	1	59	137	13462	36417	17	158	3635	584	-
7. Ernakulam	20467	22749	10828	54044	0	0	0	13	1107	32	1151	902	1074	-
8. Thrissur	18023	42925	18894	79842	0	0	5	10	1032	129	75	150	129	-
9. Palakkad	114479	68413	6551	189443	1076	1156	806	13548	875	79	233	1932	933	1988
10. Malappuram	10792	20569	5383	36744	5	0	0	41	1014	40	546	365	474	-
11. Kozhikode	710	5054	1815	7579	0	0	0	0	1800	0	198	410	851	-
12. Wayanad	-	23549	4872	28421	2	2	1	20	12173	7	386	21257	276	-
13. Kannur	10147	6169	202	16518	1	0	0	49	4078	0	336	518	291	-
14. Kasaragod	9315	4963	109	14387	1	0	3	4	2136	71	193	423	153	-
15. State	220132	266674	83239	570045	1087	1217	960	29098	69015	679	4930	32972	5652	1988

Table 3 (contd.)

District	Arecanut betel nuts (Ton.)	Tama- rind	Mango	Jack (Nos inmi- lion 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. Thiruvananthapuram	491	4145	24264	30	18872	39526	2005	422572	385	6979	3585	-	553
2. Kollam	1380	1467	27296	28	12176	31411	4206	581214	143	1042	3224	86	439
3. Pathanamthitta	1289	531	12529	15	18070	21891	1798	184733	-	3853	647	2	121
4. Alappuzha	978	1028	19968	7	3717	15627	392	85333	12	5581	945	38	312
5. Kottayam	1259	884	16117	18	30310	33193	5128	209915	8	8467	469	1	217
6. Idukki	3635	593	15709	25	14473	35183	14798	274386	115	1977	825	-	92
7. Ernakulam	3813	866	17262	20	55367	39268	57669	163782	23	7115	675	33	311
8. Thrissur	7267	2125	28988	20	18652	32202	1623	23744	11	7176	2181	15	632
9. Palakkad	6615	8601	66664	21	74576	59872	1733	92021	3043	8964	2782	17	380
10. Malappuram	15986	3744	39345	39	71210	25924	1551	208078	4278	10184	3361	91	858
11. Kozhikode	14316	2237	25035	26	17206	16221	1629	97710	240	2930	1197	-	898
12. Wayanad	4192	253	11764	29	80162	13329	190	102609	164	2888	722	2	47
13. Kannur	14692	1988	60681	50	20157	17861	1427	76064	239	9509	1403	-	597
14. Kasaragod	29577	944	18568	13	7272	18209	852	18629	3320	4090	1077	-	419
15. State	105490	29406	384190	341	442220	399717	95001	2540790	11981	80755	23093	285	5876

Table 3 (contd.)

District	Cotton (No. of bales of 170Kg. Each)	Nutmeg	Tobacco	Lem- on- 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	8	9		-	254		36026	40	-	909	5725	3	
3. Pathanamthitta		89		-	+322		50035	1	neg	3218	2042	2	
4. Alappuzha		28		-	-		67985	483	79	631	12704	3	
5. Kottayam		181		-	118		5093	94	-	1394	7694	1	
6. Idukki		217		38	45782	++7000	152682	799	26	214	2862	7	
7. Ernakulam		1078		1	-		79647	742	8224	536	1074	19	10846
8. Thrissur		596		-	1484		21383	38	-	528	12344	3	
9. Palakkad	4748	30		51	2259	2200	40915	62	213	2123	895	1	
10. Malappuram		69		-	-		39959	77	3	4237	94441	1	
11. Kozhikode		73		-	-		25544	212	neg	2334	4112	3	
12. Wayanad		9		1	7334	54650	6230	42	329	876	-	2	
13. Kannur		24		2	-		50381	64	Neg	25482	179	1	
14. Kasaragod		16	423	-	-		29758	21	1	21346	2501	1	
15. State	4748	2427	423	93	57553	63850	655134	4877	8875	65655	151582	49	10846

* Tea Board figures related 2003-2004. ** Coffee Board figures related 2003-2004. *** Rubber Board figures related 2003-2004.

@ Spices Board figures related 2003-2004. + Includes Pathanamthitta District

++ Includes Kottayam District.

Table 4 - Estimated area and Production of Rice - Autumn 2003-2004

Area in Hectares, Production in Tonnes.

Slno	Name of District	High Yielding						Local Varieties					
		Irrigated		Unirrigated		Total		Irrigated		Unirrigated		Total	
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Thiruvananthapuram	511	1135	1941	4336	2452	5471	94	188	5	7	99	195
2	Kollam	-	-	3373	7605	3373	7605	-	-	39	88	39	88
3	Pathanamthitta	-	-	683	1437	683	1437	-	-	-	-	-	-
4	Alappuzha	4465	9954	733	1355	5198	11309	-	-	452	427	0452	427
5	Kottayam	2198	5959	357	854	2555	6813	9	10	-	-	9	10
6	Idukki	-	-	1186	2804	1186	2804	-	-	15	40	15	40
7	Eranakulam	7307	13691	2177	4317	9484	18008	18	30	1789	2429	1807	2459
8	Thrissur	37	91	7685	17440	7722	17531	-	-	294	492	294	492
9	Palakkad	592	1243	47977	107335	48569	108578	130	191	4112	5710	4242	5901
10	Malappuram	8	14	4556	10134	4564	10148	-	-	468	644	468	644
11	Kozhikode	1	2	237	393	238	395	-	-	278	315	278	315
12	Wayanad	-	-	-	-	-	-	-	-	-	-	-	-
13	Kannur	-	-	4022	7890	4022	7890	-	-	1265	2257	1265	2257
14	Kasaragod	-	-	2621	6917	2621	6917	-	-	1135	2398	1135	2398
15	State	15119	32089	77548	172817	92667	204906	251	419	9852	14807	10103	15226

Table 5 - Estimated area and Production of Rice - Winter 2003-04

Area in Hectares, Production in Tonnes.

Slno	Name of District	High Yielding						Local Varieties					
		Irrigated		Unirrigated		Total		Irrigated		Unirrigated		Total	
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Thiruvananthapuram	538	1094	1421	2839	1959	3933	63	126	780	1527	843	1653
2	Kollam	37	82	2585	5916	2622	5998	233	535	3900	8193	4133	8728
3	Pathanamthitta	1746	3955	462	1083	2208	5038	180	366	182	501	362	867
4	Alappuzha	14686	27288	722	994	15408	28282	23	34	1275	1776	1298	1810
5	Kottayam	4791	10592	38	66	4829	10658	389	736	-	-	389	736
6	Idukki	1499	3425	76	198	1575	3623	330	834	45	123	375	957
7	Eranakulam	10807	20660	217	365	11024	21025	929	1598	96	126	1025	1724
8	Thrissur	13004	30756	30	46	13034	30802	6756	12080	35	43	6791	12123
9	Palakkad	38220	52768	2030	3305	40250	56073	3922	6117	4181	6223	8103	12340
10	Malappuram	3904	8579	1250	2615	5154	11194	3839	6483	1960	2892	5799	9375
11	Kozhikode	166	303	395	658	561	961	245	315	2805	3778	3050	4093
12	Wayanad	4143	9940	3215	7869	7358	17809	866	1689	1951	4051	2817	5740
13	Kannur	2340	4212	20	37	2360	4249	1568	1867	55	53	1623	1920
14	Kasaragod	891	1998	83	188	974	2186	1403	2651	57	126	1460	2777
15	State	96772	175652	12544	26179	109316	201831	20746	35431	17322	29412	38068	64843

Table 6 - Estimated area and Production of Rice - Summer 2003-2004

Area in Hectares, Production in Tonnes.

Slno	Name of District	High Yielding						Local Varieties					
		Irrigated		Unirrigated		Total		Irrigated		Unirrigated		Total	
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Thiruvananthapuram	15	23	-	-	15	23	3	3	-	-	3	3
2	Kollam	20	-	-	-	20	0	-	-	-	-	-	-
3	Pathanamthitta	1971	5193	38	106	2009	5299	-	-	-	-	-	-
4	Alappuzha	9726	21179	1	1	9727	21180	-	-	-	-	-	-
5	Kottayam	3720	7978	-	-	3720	7978	-	-	-	-	-	-
6	Idukki	74	101	-	-	74	101	-	-	3	1	3	1
7	Eranakulam	6021	10629	-	-	6021	10629	134	199	-	-	134	199
8	Thrissur	6224	18656	-	-	6224	18656	93	238	-	-	93	238
9	Palakkad	3939	6529	-	-	3939	6529	28	22	-	-	28	22
10	Malappuram	1667	5359	-	-	1667	5359	19	24	-	-	19	24
11	Kozhikode	764	1419	181	295	945	1714	101	82	12	19	113	101
12	Wayanad	2110	4789	5	10	2115	4799	48	68	5	5	53	73
13	Kannur	81	109	-	-	81	109	110	93	-	-	110	93
14	Kasaragod	6	10	-	-	6	10	67	99	-	-	67	99
15	State	36338	81974	225	412	36563	82386	603	828	20	25	623	853

Table 7 - Estimated Productivity of Crops - 2003-2004.

Name of District	Paddy			Cocunut in No.s	Arecanut	Tapioca	Raw Cashew nuts	Black Pepper	Banana	Plantain	Jack (in Nos)	Cocoa	Sesa mum
	Autumn	W inter	Summer										
	2	3	4										
1. Thiruvananthapuram	3381	3034	2199	6467	403	20492	406	254	8020	7091	4475	333	-
2. Kollam	3432	3318	0	6501	594	26118	731	292	7610	7342	4644	77	491
3. Pathanamthitta	3202	3497	4015	5586	866	24552	549	263	7712	10287	5005	572	167
4. Alappuzha	3162	2742	3314	5573	405	23690	341	84	6722	6199	2322	566	226
5. Kottayam	4050	3324	3264	5524	645	31053	334	198	9755	9228	4092	487	500
6. Idukki	3604	3575	2016	3773	949	37331	443	531	8782	11088	3880	518	-
7. Eranakulam	2759	2874	2678	5365	723	29029	426	159	9429	8555	4301	641	262
8. Thrissur	3422	3296	4552	7231	903	20242	481	208	7367	4871	3575	404	87
9. Palakkad	3299	2154	2514	6828	1109	23362	418	144	7387	9409	3793	861	107
10. Malappuram	3264	2858	4860	7830	781	32091	415	96	7945	6978	3867	500	246
11. Kozhikode	2094	2130	2611	6942	1245	27377	622	138	8633	5028	2368	386	-
12. Wayanad	-	3523	3420	4235	482	52245	651	288	6782	8142	2894	404	105
13. Kannur	2921	2357	1610	6266	1089	28606	916	185	8726	5043	3681	348	-
14. Kasaragod	3775	3104	2273	7248	1868	24609	1101	290	10142	7166	4612	256	-
15. State	3260	2754	3407	6540	1029	26945	760	319	7910	7472	3672	517	237

in Kgs/hectar.

Table 8 – Net area irrigated (Source-wise) 2003-2004

(Area in Hectares)

District	Government canal	Private canal	Government tanks	Private tanks	Government wells	Private wells	Minor lift irrigation	Other sources	Tube wells	Total
1	2	3	4	5	6	7	8	9	10	11
1. Thiruvananthapuram	2105	211	274	54	-	467	13	333	-	3457
2. Kollam	62	55	-	181	-	1348	-	304	-	1950
3. Pathanamthitta	1035	13	7	80	12	1214	41	2683	1	5086
4. Alappuzha	4782	112	4	8855	-	3218	69	20667	3697	41404
5. Kottayam	812	25	-	91	-	762	52	11835	-	13577
6. Idukki	2216	684	21	5414	29	2297	35	5116	52	15864
7. Ernakulam	22080	29	233	1868	471	9264	3566	5733	371	43615
8. Thrissur	23034	94	553	6554	412	35266	2121	11444	4043	83521
9. Palakkad	39814	1011	167	3717	29	13347	1141	10814	965	71005
10. Malappuram	904	630	798	1867	44	4878	521	8372	6113	24127
11. Kozhikode	1031	10	9	118	7	1335	46	1705	479	4740
12. Wayanad	422	604	33	68	2	44	262	8158	177	9770
13. Kannur	1197	946	80	1641	16	9116	216	7471	4	20687
14. Kasaragod	39	372	66	10831	242	22166	108	11343	74	45241
15. State	99533	4796	2245	41339	1264	104722	8191	105978	15976	384044

Table 9 – Gross area under irrigation (crop-wise) 2003-2004

[Area in Hectares]

Districts	Paddy	Tubers	Vege- tables	Coconut	Arecanut	Cloves	Nutmeg	Other spices & condiments	Banana	Betel leaves	Sugar cane	Other trees
1	2	3	4	5	6	7	8	9	10	11	12	13
1. Thiruvananthapuram	1224	35	820	954	9	44	12	52	2210	32	-	1213
2. Kollam	290	20	1315	1037	55	20	11	24	307	53	2	794
3. Pathanamthitta	3897	10	650	652	64	37	82	16	551	71	175	72
4. Alappuzha	28900	677	710	14535	87	13	71	641	376	43	168	805
5. Kottayam	11107	25	471	714	33	75	202	172	531	16	39	809
6. Idukki	1903	8	45	551	177	87	118	273	255	6	1814	693
7. Ernakulam	25216	10	574	14111	1773	31	1270	134	3903	69	6	912
8. Thrissur	26114	51	842	49544	6929	15	111	821	2234	28	3	865
9. Palakkad	46831	23	1351	19874	2432	9	30	704	4343	5	2215	3214
10. Malappuram	9437	182	1511	10411	6084	17	54	141	3859	495	14	1411
11. Kozhikode	1277	12	472	3120	712	27	39	10	805	23	-	1225
12. Wayanad	7167	4	222	88	170	15	14	6	4459	-	2	1025
13. Kannur	4099	34	172	10888	3193	9	21	109	1249	1	3	2910
14. Kasaragod	2367	17	502	29041	13520	21	33	142	592	14	1	1612
15. State	169829	1108	9657	155520	35238	420	2068	3245	25674	856	4442	17560

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