



GOVERNMENT OF KERALA

HORTICULTURE SURVEY 2010-11



Department of Economics & Statistics
Thiruvananthapuram



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PREFACE

Economics and Statistics Department is the State Agricultural Statistical Authority for the collection and dissemination of Agricultural Statistics in Kerala. Department is implementing the scheme on Establishment of an Agency for Reporting Agriculture Statistics (EARAS), a 100% centrally sector scheme, for the collection of agricultural statistics in the state. The need for horticulture data is essential for plan formation and decision making. At present wide data gap is existing in the case of Horticulture crops.

This report presents the results of the horticulture survey conducted by the department using the money provided under the 13th Finance commission. It contains area, Production, area Participation and production Participation of major seasonal crops and the comparison of area estimated as per EARAS.

This report was prepared by the Horticulture section in the EARAS section of the Economics and Statistics, Government of Kerala. In this connection, I express my sincere gratitude to Sri. K. Damodaran (Additional Director), Sri.N.Ramakrishnan (Joint Director), Smt.Sangeetha.R (Assistant Director), Sri.Renjith Kumar.P.C (Research Officer), Smt.Nidhi.T.Edward (Statistical Assistant Grade I) for their sincere efforts in the preparation and publication of this report.

V.Ramachandran
Director General

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INTRODUCTION

Kerala has a wide variety of climate and soil on which large number of horticultural crops such as fruits, vegetables, mushroom, ornamentals, medicinal and aromatic plants, plantation crops, spices etc., are grown. Horticulture is an ideal method of achieving sustainability of small holdings, which is a characteristic of the State.

Homestead farming is a unique feature of Kerala where perennial, annual, and seasonal crops are grown often along with livestock.

Out of the total cropped area of around 30 lakhs ha, as high as 90% area is covered by horticulture crops, Kerala is highly deficient in its requirement of vegetables, fruits and flowers.

Department of Economics & Statistics, Government of Kerala has proposed to conduct a sample survey on horticulture crops under the scheme on improving the statistical system at state and district level recommended by the 13th Finance commission. Horticulture survey is proposed to conduct the entire period of grant in aid as per the recommendations of the 13th Finance Commission. However, the proposed horticulture survey covered only in 12 districts in the state in the first instalment under the plan and in the remaining instalments, survey covered in 14 districts.

Unlike the field crops, horticulture crops in Kerala cover all the 5-agro climatic zones of the state. In addition, there are activities like mushroom production, cut flower production, kitchen garden, terrace farming in urban areas, green house cultivation etc spread over the entire year. Horticulture crops are

integral part of homestead farming, coconut based farming, rice based farming and plantation based farming.

A stratified two stage sampling design was adopted for Horticulture Survey in Kerala. In view of the increasing demand for data at lower level, it has been decided that Block, Municipality and Corporation was taken as stratum. The first stage unit within the stratum was ward/division and the second stage unit was the operational holding as in the case of Agriculture Census.

From each stratum 20% of the wards from each block and 20% of the wards/divisions from each Municipality/Corporation were selected using circular systematic random sampling method.

Instead of listing all the operational holdings in the selected ward, it was decided to use the listing schedules L1 and L2 of Agriculture Census as the frame for Horticulture Survey. L1 is the list of all operational holdings in the selected wards and L2 is the list of institutional holdings of that wards.

For the horticulture survey, 7% of the holdings were selected from the size class 0-247 cents i.e. below 1 hectare and 50% from above 2 hectare and below 10 hectare and 100% from 10 hectare and above.

Analysis

Kerala is one among the prominent Consumer States in India, not only in consumer durables but in food grains and Vegetables, as well. An attempt to assess the production gap in respect of vegetables was attempted through an Ad hoc Sample survey in Horticulture during 2010- 11 based on the list of Operational holdings prepared for Agriculture Census, as Frame. Results of the survey are prepared in Tables and Charts and an analysis of the same is given under.

State level area estimated under seasonal vegetables was 5052.60 ha during autumn season which increased to 7223.63 ha during winter and reduced to 6211.28 ha during summer season. Though maximum estimated area under Vegetables was highest during winter season, the estimated production was the lowest during winter season. The estimated production of vegetables at 29576.11 tonnes during autumn was reduced to 21506.55 tonnes during winter and ended with 28467.02 tonnes during summer against a reduction in cultivated area by 1012.35 ha. Compared to winter season. Major reduction in cultivated area has occurred in Kasaragod district. Though reduction in cultivated area has occurred in Kottayam, Ernakulum, and Palakkad&Kannur districts, the same has compensated in other districts resulting in an aggregate reduction of 1012.35 ha of Vegetable cultivation during summer. Estimated total area and production and District wise area and production of vegetables in all season are given in Chart 1 and 2 respectively.

Chart-1
Estimated Total Area & Production

(Area in ha
Production in tonnes)

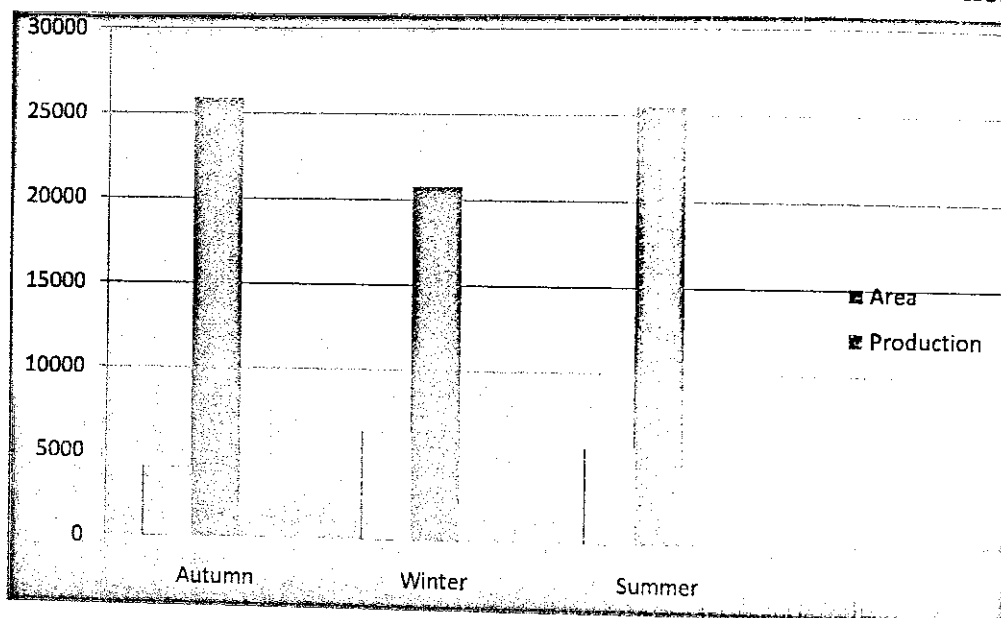
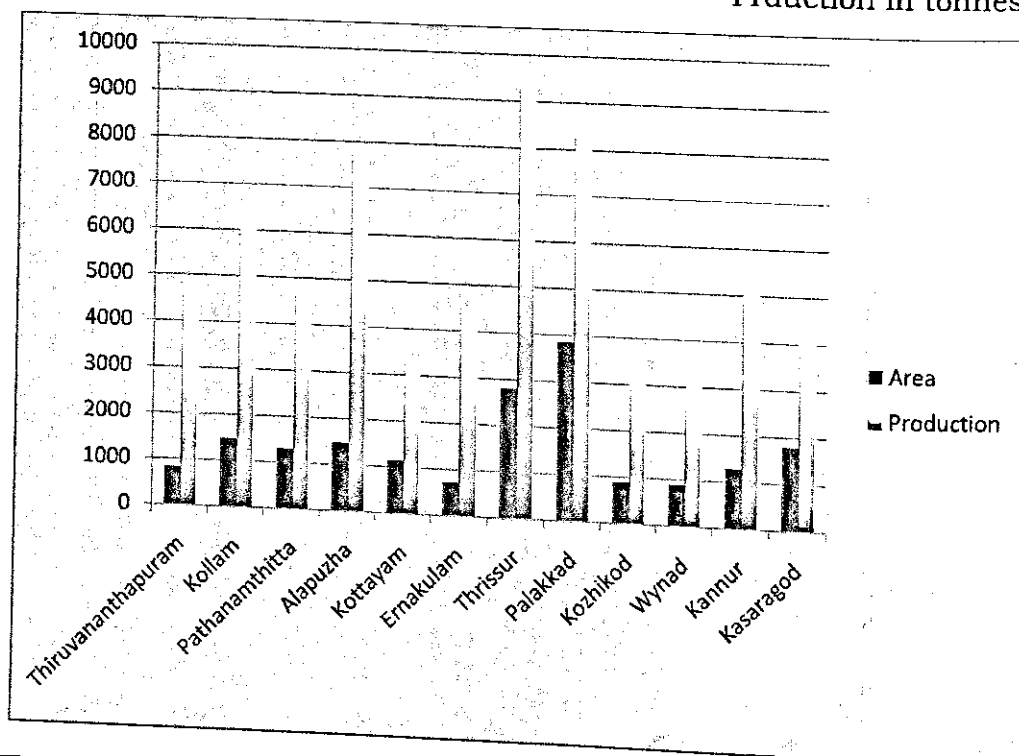


Chart-2

District wise Area & Production – All Seasons

(Area in ha
Production in tonnes)



**District wise Area and Production of vegetables in
Autumn Season.**

During Autumn, of the estimated area of vegetable cultivation, 34.35 % is in Palakkad followed by Thrissur with 21.52 % share. Total area under vegetable cultivation is estimated at 5052.60 ha. As far as production is concerned, Palakkad tops with 22.44% share followed by Thrissur with 15.44%. Share of other districts, except Kollam, Pathanamthitta, Alapuzha & Ernakulam, is much below the share of these two districts. Productivity of individual crops has wide difference between districts. Detailed district wise table on area and production is given in table 1 and table 2, area participation and production participation are given in table 3 and 4 respectively. The diagramatic representation of area and production participation during Autumn season is given in chart 3.

Table-1
District wise Area of vegetables in Autumn season
(Area in ha)

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
Thiruvananthapuram	22.69	7.96	13.67	17.19	0.41	1.18	0	1.58	52.24	16.516	133.436
Kollam	50.37	34.31	38.76	24.55	25.7	5.01	14.13	27.25	5.86	110.01	335.95
Pathanamthitta	41	36.71	84.81	23.49	17.46	48.73	45.81	53.71	21.96	66.4	440.08
Alapuzha	52.28	16.65	42.31	39.58	26.97	13.48	8.55	3.04	71.35	86.4	360.61
Kottayam	6.97	4.51	18.42	11.78	11.78	18.55	19.47	19.66	35.47	17.43	164.04
Ernakulam	34.9	13.01	20.47	11.84	16.34	27.67	23.83	7.23	28.53	13.56	197.38
Thrissur	40.69	10.85	217.73	40.48	44.32	64.25	59.15	29.31	101.32	479.08	1087.19
Palakkad	35.03	154.41	171.2	52.32	86.49	168.97	127.98	70.76	598.23	270.3	1735.69
Kozhikod	16.72	3.93	1.92	0.03	4	11.08	5.9	1.51	1.7	48.63	95.42
Wynad	6.88	3.19	6.87	4.49	2.67	69.31	23.29	7.11	16.44	66.029	206.279
Kannur	24.1	7.23	19.2	3.5	11.88	8.5	14.02	4.96	8.61	20.22	122.22
Kasaragod	15.36	6.75	4.61	3.99	26.93	8.96	10.71	2.9	0.4	93.69	174.3

Table-2

District wise Production of vegetables in Autumn season

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	(Area in ha)	
										Other Vegetables	Total
Thiruvananthapuram	318.37	153.43	253.42	171.53	329.29	47.23	12.68	205.50	54.76	348.23	1894.44
Kollam	606.21	118.19	162.51	260.87	251.10	85.17	211.95	204.95	60.10	685.26	2646.31
Pathanamthitta	150.10	207.30	269.43	69.55	63.04	143.66	184.58	248.05	59.18	370.21	1765.10
Alapuzha	129.13	9.53	265.17	265.80	243.64	57.87	26.72	288.23	196.75	239.31	1722.15
Kottayam	21.41	4.51	88.42	63.62	47.13	55.65	61.35	58.98	170.25	143.44	714.74
Ernakulam	275.71	89.77	131.42	87.38	154.58	178.19	177.77	54.08	175.46	87.02	1411.38
Thrissur	873.92	1491.13	2462.95	96.09	169.48	126.27	327.95	166.12	220.17	706.36	6640.45
Palakkad	191.97	942.21	918.05	391.13	543.91	1426.17	1134.29	589.24	2410.93	1847.39	10395.28
Kozhikod	37.28	13.75	2.52	6.12	2.91	30.15	37.92	3.20	0.33	90.76	224.94
Wynad	5.45	2.75	2.77	2.73	5.97	191.88	68.43	87.27	20.72	165.21	553.18
Kannur	119.05	35.72	142.27	34.58	176.06	125.97	207.78	24.50	63.80	90.00	1019.73
Kasaragod	46.65	89.32	32.71	14.29	183.18	37.25	58.25	48.46	5.39	72.92	588.42

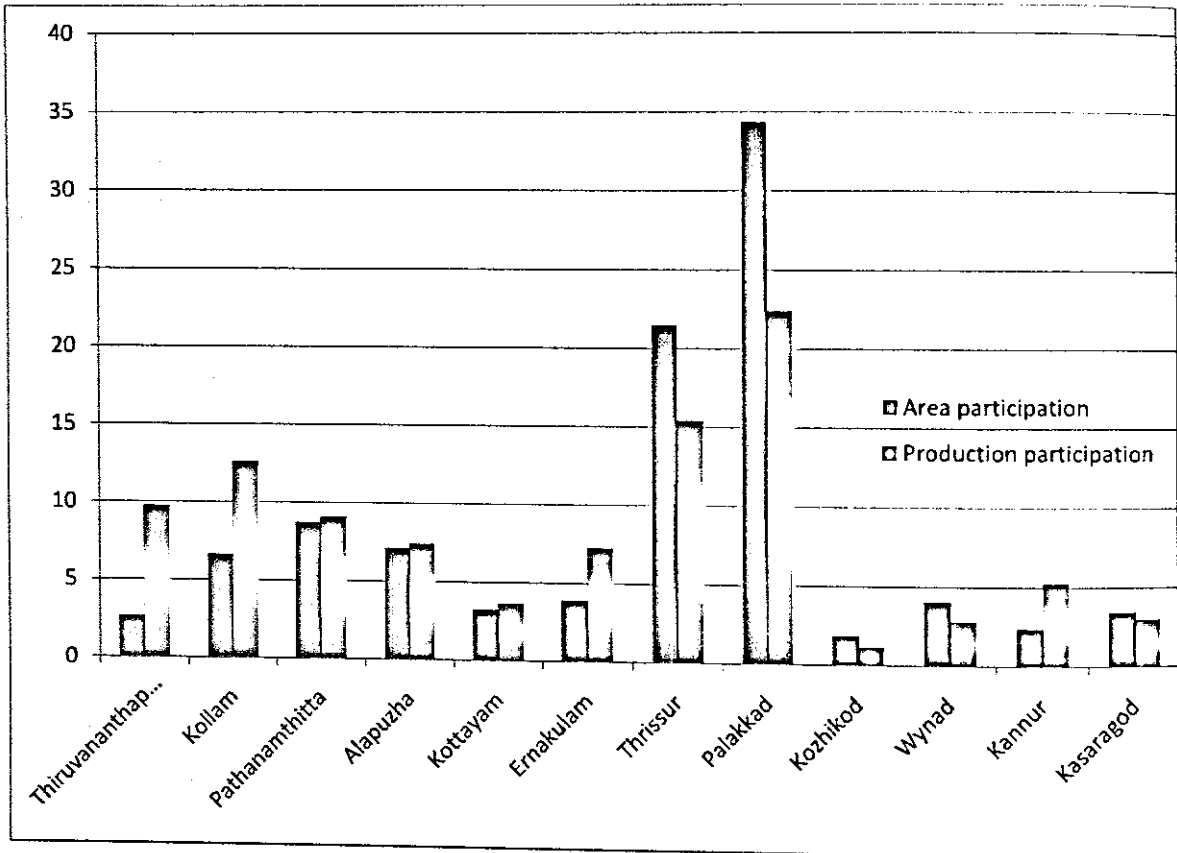
Table-3
District wise Area Participation of vegetables in Autumn season
(Area in ha)

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
TVM	6.54	2.66	2.14	7.37	0.15	0.26	0.00	0.69	5.55	1.28	2.64
KLM	14.52	11.46	6.06	10.53	9.35	1.12	4.00	11.90	0.62	8.54	6.65
PTPA	11.82	12.26	13.25	10.07	6.35	10.93	12.98	23.45	2.33	5.15	8.71
ALPY	15.07	5.56	6.61	16.97	9.81	3.02	2.42	1.33	7.57	6.71	7.14
KTM	2.01	1.51	2.88	5.05	4.28	4.16	5.52	8.58	3.76	1.35	3.25
EKM	10.06	4.34	3.20	5.08	5.94	6.21	6.75	3.16	3.03	1.05	3.91
TSR	11.73	3.62	34.02	17.36	16.12	14.42	16.76	12.80	10.75	37.19	21.52
PKD	10.10	51.55	26.75	22.43	31.46	37.91	36.27	30.90	63.50	20.98	34.35
KZKD	4.82	1.31	0.30	0.01	1.45	2.49	1.67	0.66	0.18	3.77	1.89
WYD	1.98	1.07	1.07	1.93	0.97	15.55	6.60	3.10	1.75	5.13	4.08
KNR	6.95	2.41	3.00	1.50	4.32	1.91	3.97	2.17	0.91	1.57	2.42
KSGD	4.43	2.25	0.72	1.71	9.79	2.01	3.04	1.27	0.04	7.27	3.45

Table-4
District wise Area Production Participation of vegetables in Autumn season

(Production in Tones)

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
Thiruvananthapuram	11.47	15.86	14.81	17.80	15.17	3.62	0.74	16.73	3.15	7.19	9.76
Kollam	21.84	12.21	9.49	6.32	11.57	6.52	12.40	16.68	3.46	14.14	12.60
Pathanamthitta	5.41	21.42	15.74	7.22	2.90	11.00	10.80	20.19	3.41	7.64	9.09
Alapuzha	4.65	0.98	15.49	27.58	11.23	4.43	1.56	0.67	11.32	4.94	7.43
Kottayam	0.77	0.47	5.17	6.60	2.17	4.26	3.59	4.80	9.80	2.96	3.68
Ernakulam	9.93	9.28	7.68	9.07	7.12	13.65	10.40	4.40	10.10	1.80	7.27
Thrissur	31.49	15.41	9.52	9.97	7.81	9.67	19.18	13.52	12.67	14.58	15.44
Palakkad	6.92	9.74	11.57	9.46	25.06	17.32	19.55	9.71	40.91	38.12	22.44
Kozhikod	1.34	1.42	0.15	0.64	0.13	2.31	2.22	0.26	0.02	1.87	1.16
Wynad	0.20	0.28	0.16	0.28	0.28	14.70	4.00	7.10	1.19	3.41	2.85
Kannur	4.29	3.69	8.31	3.59	8.11	9.65	12.15	1.99	3.67	1.86	5.25
Kasaragod	1.68	9.23	1.91	1.48	8.44	2.85	3.41	3.94	0.31	1.50	3.03

Chart-3**Area and Production Participation**(Area in Ha
Production in tonnes)

Productivity of all vegetables taken together is much higher in Thiruvananthapuram, Kollam, Ernakulum and Kannur districts and Palakkad is the last one just below Thrissur. Other districts show a shoulder to shoulder situation.

District wise Area and Production of Vegetables in Winter Season.

The maximum area under seasonal vegetable cultivation, estimated at 7223.63 ha, is during winter. Of the estimated area of vegetable cultivation, 19.98 % is in Kasaragod followed by Palakkad with 17.13 % & Thrissur with 11.13 % share. Contrary to area participation, Thrissur tops with 18.93% share in production followed by Alapuzha with 13.09%. Share of other districts ranges from 3.90 % to 8.88 % Though estimated area under cultivation is highest during this season, estimated production is only second to autumn season. Detailed district wise tables on area and production is given in table 5 and 6. The participation rates of Area and Production of vegetables during Winter season are given in table 7 and 8 respectively. The diagramatic representation of area and production participation during Winter season is given in chart 4.

Table-5
District wise Area of vegetables in Winter season

(Area in ha)

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
Thiruvananthapuram	37.01	14.85	49.59	30.59	10.85	5.27	2.79	26.98	53.42	79.82	311.17
Kollam	88.29	58.24	51.71	44.11	31.07	3.91	23.93	46.66	14.88	119.334	482.13
Pathanamthitta	74.63	45.16	82.37	31.36	37.06	24.13	51.75	45.69	18.38	70.42	480.95
Alapuzha	65.99	24.91	62.9	45.65	23.04	14.02	12.02	30.36	97.65	93.68	470.22
Kottayam	38.3295	22.525	110.52	152.1595	22.324	14.84	17.5185	26.212	177.345	18.632	600.41
Ernakulam	59.12	17.97	58.05	27.243	19.78	23.42	40.82	21.84	39.1	56.612	363.96
Thrissur	60.2	51.34	62.3	22.58	35	67.7	63.26	23.117	43.22	375.146	803.86
Palakkad	31.29	92.75	62.81	33.18	34.59	73.86	75.7	45.76	575.33	212	1237.27
Kozhikod	36.06	13.91	8.926	4.821	7.263	35.53	28.069	2.46	12	75.31	224.35
Wynad	16.63	3.67	94.75	7.61	7.73	37.08	26.79	4.88	11.83	97.683	308.65
Kannur	77.39	16.29	65.96	18.96	84.5	38.82	45.72	14.82	88.38	46.21	497.05
Kasaragod	25.03	17.48	785.15	9.77	471.62	39.25	20.8	8.17	6.21	60.13	1443.61

Table-6
District wise Production of vegetables in Winter season

(Production in tonnes)

District	Amaranth	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
Thiruvananthapuram	254.40	130.95	174.34	98.02	193.65	33.58	8.47	171.68	39.10	318.92	1423.11
Kollam	619.75	94.63	178.24	109.14	37.88	23.94	47.27	74.40	47.16	118.02	1350.43
Pathanamthitta	305.41	239.20	252.10	103.14	113.03	77.70	203.54	259.69	70.48	286.36	1910.65
Alapuzha	774.82	247.70	487.62	240.84	89.30	44.32	30.20	98.83	26.17	775.21	2815.01
Kottayam	116.03	48.20	6.48	220.30	89.30	44.52	55.18	78.64	485.08	53.39	1197.11
Ernakulam	444.44	121.07	130.21	108.21	89.84	94.49	244.01	151.10	175.90	297.79	1857.06
Thrissur	209.80	176.94	178.50	63.18	141.02	178.16	184.12	197.29	101.73	2639.52	4070.26
Palakkad	19.88	41.27	137.96	29.73	203.84	181.18	202.47	63.34	672.63	185.96	1738.26
Kozhikod	187.37	80.24	133.86	74.97	203.15	106.41	93.31	27.27	9.61	276.74	1192.93
Wynad	24.90	5.00	212.54	6.42	16.37	126.19	167.62	115.80	15.12	149.28	839.24
Kannur	229.97	58.64	215.82	47.00	315.32	178.37	141.60	54.52	163.12	104.40	1508.76
Kasaragod	121.92	105.39	209.96	56.69	570.91	155.45	126.43	39.65	69.24	148.09	1603.73

Table-7
District wise Area participation of vegetables in Winter season

(Area in ha)

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
TVM	6.07	3.92	3.32	7.15	1.38	1.39	0.68	9.09	4.70	6.12	4.31
KLM	14.47	15.36	3.46	10.31	3.96	1.03	5.85	15.71	1.31	9.14	6.67
PTA	12.24	11.91	5.51	7.33	4.72	6.39	12.65	15.39	1.62	5.40	6.66
ALP	10.82	6.57	4.21	10.67	2.94	3.71	2.94	10.22	8.58	7.18	6.51
KTM	6.28	5.94	7.39	35.55	2.84	3.93	4.28	8.83	15.59	1.43	8.31
EKM	9.69	4.74	3.88	6.36	2.52	6.20	9.98	7.35	3.44	4.34	5.04
TSR	9.87	13.54	4.17	5.28	4.46	17.92	15.46	7.78	3.80	28.75	11.13
PKD	5.13	24.47	4.20	7.75	4.41	19.55	18.50	15.41	50.57	16.25	17.13
KZKD	5.91	3.67	0.60	1.13	0.93	9.40	6.86	0.83	1.05	5.77	3.11
WYD	2.73	0.97	6.34	1.78	0.98	9.81	6.55	1.64	1.04	7.49	4.27
KNR	12.69	4.30	4.41	4.43	10.77	10.27	11.17	4.99	7.77	3.54	6.88
KSGD	4.10	4.61	52.52	2.28	60.09	10.39	5.08	2.75	0.55	4.61	19.98

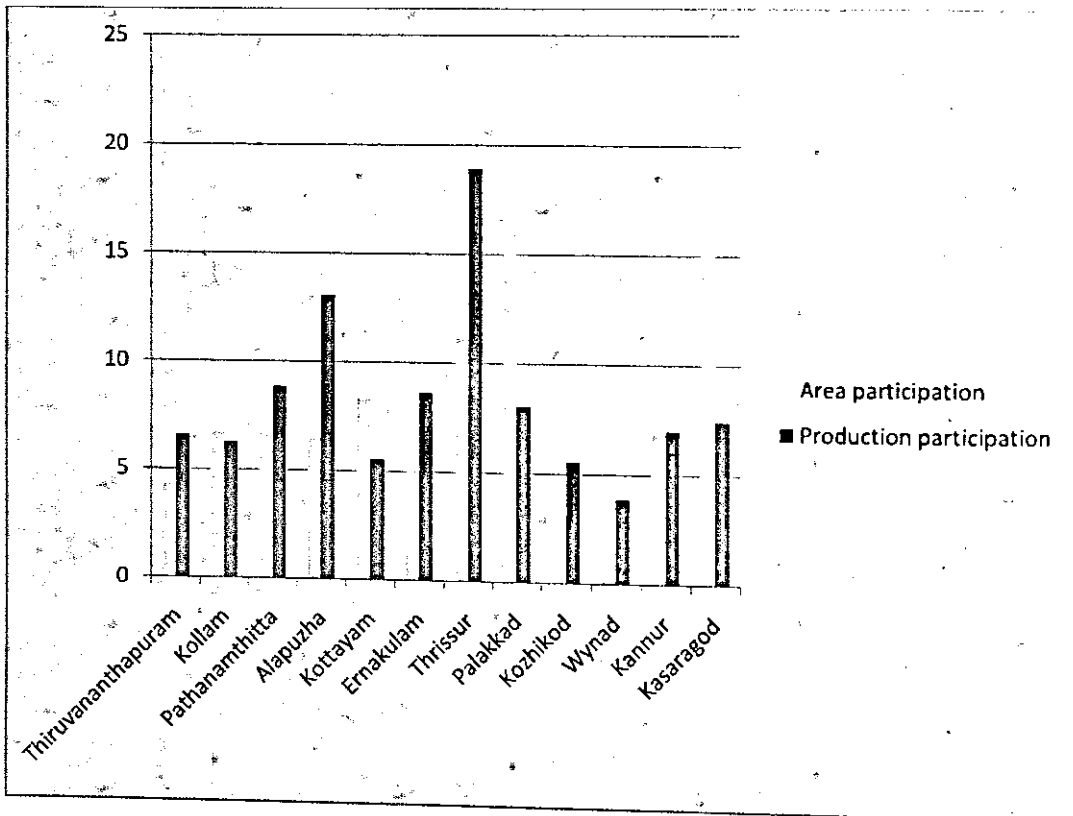
Table-8

District wise Production participation of vegetables in Winter season
(Production in tonnes)

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
Thiruvananthapuram	7.69	9.71	7.52	8.47	9.38	2.70	0.56	12.89	2.08	5.96	6.62
Kollam	18.73	7.01	7.69	9.43	1.84	1.92	3.14	5.58	2.51	2.20	6.28
Pathanamthitta	9.23	17.73	10.88	8.91	5.48	6.24	13.53	19.49	3.76	5.35	8.88
Alapuzha	23.42	18.36	21.04	20.80	4.33	3.56	2.01	7.42	1.40	14.48	13.09
Kottayam	3.51	3.57	0.28	19.03	4.33	3.58	3.67	5.90	25.87	1.00	5.57
Ernakulam	13.43	8.97	5.62	9.35	4.35	7.59	16.22	11.34	9.38	5.56	8.63
Thrissur	6.34	13.11	7.70	5.46	6.83	14.32	12.24	14.81	5.42	49.30	18.93
Palakkad	0.60	3.06	5.95	2.57	9.88	14.56	13.46	4.75	35.87	3.47	8.08
Kozhikod	5.66	5.95	5.78	6.48	9.84	8.55	6.20	2.05	0.51	5.17	5.55
Wynad	0.75	0.37	9.17	0.55	0.79	10.14	11.14	8.69	0.81	2.79	3.90
Kannur	6.95	4.35	9.31	4.06	15.28	14.33	9.41	4.09	8.70	1.95	7.02
Kasaragod	3.68	7.81	9.06	4.90	27.67	12.49	8.41	2.98	3.69	2.77	7.46

Chart-4**District wise Area and Production Participation Winter season**

(Area in ha
Production in tonnes)



Palakkad has improved its position one step forward just above Kasaragod in respect of productivity during winter and Thrissur has registered a big leap, capturing 2nd position from the top, just below Alapuzha.

District wise Area and Production of Vegetables in Summer Season.

Estimated area under seasonal vegetable cultivation during summer is 6211.28ha; just behind winter season. Estimated production is 25112.02tonnes next to autumn season. Highest area participation is in Thrissur district with 14.74 %, closely followed by Palakkad with 14.19 %. Coming to production, Alapuzha tops with 14.03 % followed by Palakkad with 10.27 %. Area, Production, Area Participation and Production Participation of vegetables during summer season are given in table 9, 10, 11 and 12 respectively. The diagramatic representation of area and production participation during Summer season is given in chart 5.

Table-9
District wise Area of vegetables in Summer season

(Area in ha)

District	Amaranth	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
Thiruvananthapuram	90.04	24.04	35.36	41.03	61.3	7.94	1.198	24.15	53.66	55.91	394.63
Kollam	105.07	69.19	96.27	39.94	41.58	6.02	30.72	58.06	42.33	169.02	658.20
Pathanamthitta	41.64	35.8	57.14	13.79	63.62	9.83	41.53	45.28	12.28	56.98	377.89
Alapuzha	116.44	34.02	104.79	70.92	23.67	15.85	12.16	39.23	128.31	99.7	645.09
Kottayam	24.3915	18.02	55.26	70.689	30.6955	3.71	1.9465	19.659	141.876	14.956	381.20
Ernakulam	15.21	6.45	13.67	3.68	47.97	22.36	19.42	8.59	16.85	14.58	168.78
Thrissur	48.318	159.79	88.28	68.46	49.44	65.82	60.12	27.2399	94.96	253.22	915.65
Palakkad	26.19	51.28	99.38	32.46	20.48	91.43	88.32	9.97	347.71	113.894	881.11
Kozhikod	88.39	21.915	51.569	21.72	112.28	42.45	40.9	6.79	56.09	129.892	572.00
Wynad	43.03	6.8	67.85	25.71	65.49	23.16	10.76	5.16	9.65	119.53	377.14
Kannur	102.97	30.09	80.1	19.86	171.87	39.58	44.89	22.79	104.3	54.36	670.81
Kasaragod	15.21	6.45	13.67	3.68	47.97	22.36	19.42	8.59	16.85	14.58	168.78

Table-10
District wise Production of vegetables in Summer season

(Production in tonnes)

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pea	Other Vegetables	Total
Thiruvananthapuram	318.46	90.88	110.91	79.46	147.78	27.58	5.25	141.45	64.77	268.86	1255.40
Kollam	693.49	181.88	390.80	77.96	73.70	102.66	195.21	185.88	78.37	467.59	2447.54
Pathanamthitta	114.94	160.88	156.02	37.10	138.19	29.96	184.35	173.77	36.38	278.51	1310.10
Alapuzha	954.24	233.79	515.05	382.88	131.77	51.69	37.94	344.12	217.78	882.80	3752.06
Kottayam	73.17	22.53	265.25	286.29	122.78	11.13	6.13	58.98	595.88	60.97	1503.11
Ernakulam	314.59	98.07	126.37	71.12	65.85	63.85	176.62	106.07	68.86	176.50	1267.90
Thrissur	314.59	168.70	318.98	1787.21	216.46	175.84	230.44	187.93	154.42	455.14	4009.71
Palakkad	110.85	150.31	224.40	29.08	227.38	372.37	626.92	53.96	1.85	991.25	2788.37
Kozhikod	285.28	164.48	227.67	149.66	776.43	247.50	191.57	29.56	12.62	380.59	2465.36
Wynad	427.18	59.82	457.30	29.50	264.32	51.49	29.76	209.31	28.85	788.31	2345.84
Kannur	561.55	149.61	429.03	129.26	1072.08	135.33	266.39	67.18	208.23	252.22	3270.88
Kasaragod	66.20	61.57	347.78	23.80	757.67	199.25	66.29	120.37	341.89	65.92	2050.74

Table-11
District wise Area Participation of vegetables in Summer season

(Area in ha)

District	Amaranthus	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pie	Other Vegetables	Total
Thiruvananthapuram	12.56	5.18	4.63	9.96	8.32	2.27	0.32	8.77	5.24	5.10	6.35
Kollam	14.66	14.92	12.61	9.70	5.65	1.72	8.27	21.07	4.13	15.41	10.60
Pathanamthitta	5.81	7.72	7.49	3.35	8.64	2.80	11.18	16.44	1.20	5.20	6.08
Alapuzha	16.24	7.33	13.73	17.22	3.21	4.52	3.27	14.24	12.52	9.09	10.39
Kottayam	3.40	3.88	7.24	17.16	4.17	1.06	0.52	7.14	13.84	1.36	6.14
Ernakulam	2.12	1.39	1.79	0.89	6.51	6.38	5.23	3.12	1.64	1.33	2.72
Thrissur	6.74	34.45	11.56	16.62	6.71	18.78	16.19	9.89	9.27	23.09	14.74
Palakkad	3.65	11.06	13.02	7.88	2.78	26.08	23.78	3.62	33.93	10.39	14.19
Kozhikod	12.33	4.72	6.76	5.27	15.25	12.11	11.01	2.46	5.47	11.84	9.21
Wynad	6.00	1.47	8.89	6.24	8.89	6.61	2.90	1.87	0.94	10.90	6.07
Kannur	14.36	6.49	10.49	4.82	23.34	11.29	12.09	8.27	10.18	4.96	10.80
Kasaragod	2.12	1.39	1.79	0.89	6.51	6.38	5.23	3.12	1.64	1.33	2.72

Table-12

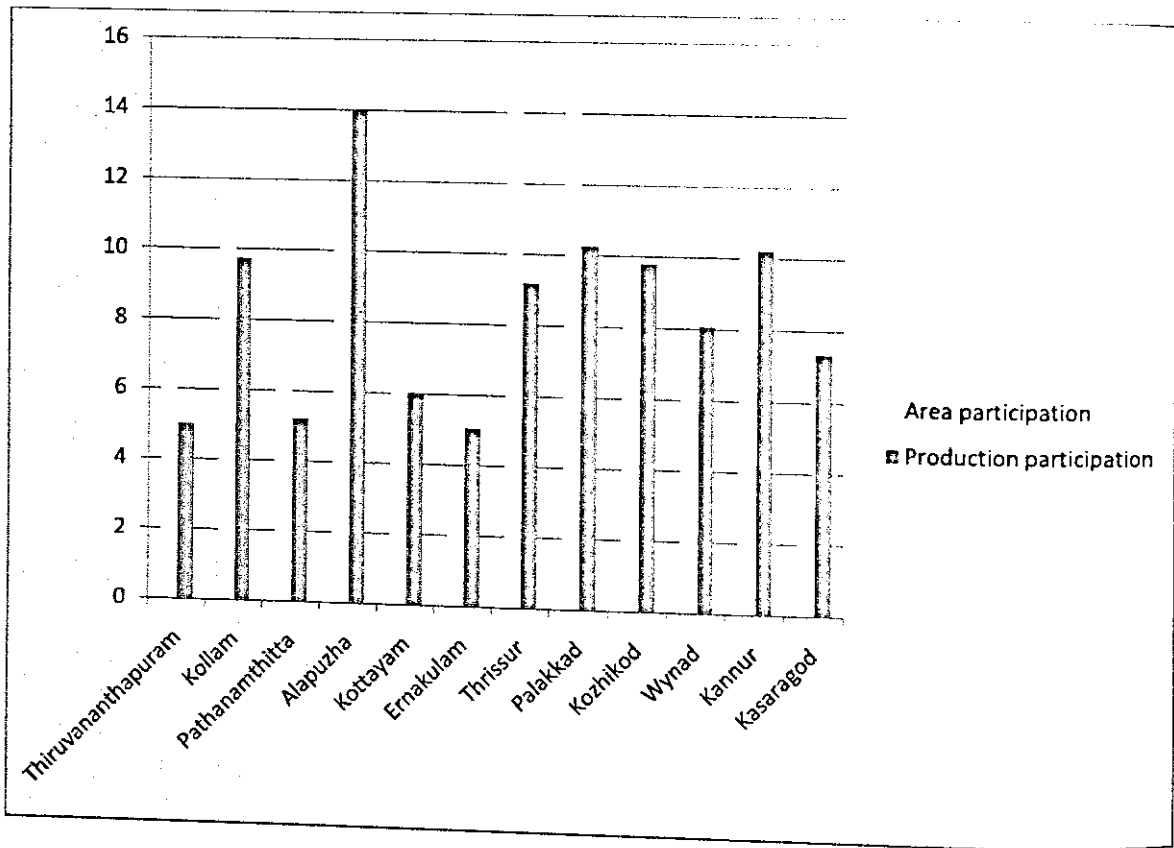
District wise Production Participation of vegetables in Summer season

(Production in tonnes)

District	Amaranth	Ladies finger	Bitter guard	Snake guard	Cucumber	Pumpkin	Ash guard	Brinjal	Cow pea	Other Vegetables	Total
Thiruvananthapuram	7.52	5.89	3.39	5.74	4.49	2.12	0.32	10.04	3.25	5.30	5.00
Kollam	16.38	11.79	11.95	5.64	2.24	7.91	12.07	13.20	3.93	9.23	9.75
Pathanamthitta	2.71	10.43	4.77	2.68	4.19	2.31	11.40	12.34	1.82	5.49	5.22
Alapuzha	22.53	15.16	15.75	27.68	4.00	3.98	2.35	8.10	10.92	17.42	14.03
Kottayam	1.73	1.46	8.11	20.70	3.73	0.86	0.38	4.19	29.87	1.20	5.99
Ernakulam	7.43	6.36	3.87	5.14	2.00	4.92	10.92	7.53	3.45	3.48	5.05
Thrissur	7.43	10.94	9.76	6.30	6.57	13.54	14.25	13.34	7.74	8.98	9.20
Palakkad	2.62	9.74	6.86	2.10	6.90	15.58	14.03	0.99	20.14	19.56	10.27
Kozhikod	6.74	10.66	6.96	10.82	23.57	19.06	11.85	2.10	0.63	7.51	9.82
Wynad	10.09	3.88	4.81	2.13	8.02	3.96	1.84	14.86	0.69	15.55	8.09
Kannur	13.26	9.70	13.12	9.34	11.29	10.42	16.48	4.77	10.44	4.98	10.24
Kasaragod	1.56	3.99	10.64	1.72	23.00	15.34	4.10	8.55	7.11	1.30	7.37

Chart-5
District wise Area and Production Participation Summer
season

(Area in ha
Production in tonnes)



Though area participation is higher in Thrissur and Palakkad districts, production participation of these two districts is only average. Alapuzha with 10.39 % area participation claims 14.03 % production, while Thrissur with 14.74 % and Palakkad with 14.19 % area participation claim only 10.27 % and 9.20 % production share, respectively. This means productivity of vegetables during summer is higher in Alapuzha compared to Thrissur and Palakkad, the two prominent vegetable producing districts in the State.

Crop wise Area of Vegetables

So far, analysis was on the area& production with regard vegetables as a total. To have an in depth knowledge about the actual situation of major vegetables, species wise, crop wise area and production has to be analysed, season wise. District wise area of Amaranths in three seasons is given in table 13 and its diagrammatic representation is given in chart 4.

Amaranths cultivation is higher in Alapuzha during autumn season followed by Kollam. But during winter, Kollam tops with 88.29 ha followed by Kannur with 77.39 ha. During summer, Alapuzha captures first place with 116.44 ha followed by Kollam with 105.07 ha and Kannur with 102.97 ha. Taking all the seasons together, Kollam tops with 243.73 ha of Amaranths cultivation, closely followed by Alapuzha with 234.71 ha. District wise area of Amaranths in three seasons is given in table 13 and its diagrammatic representation is given in chart 6.

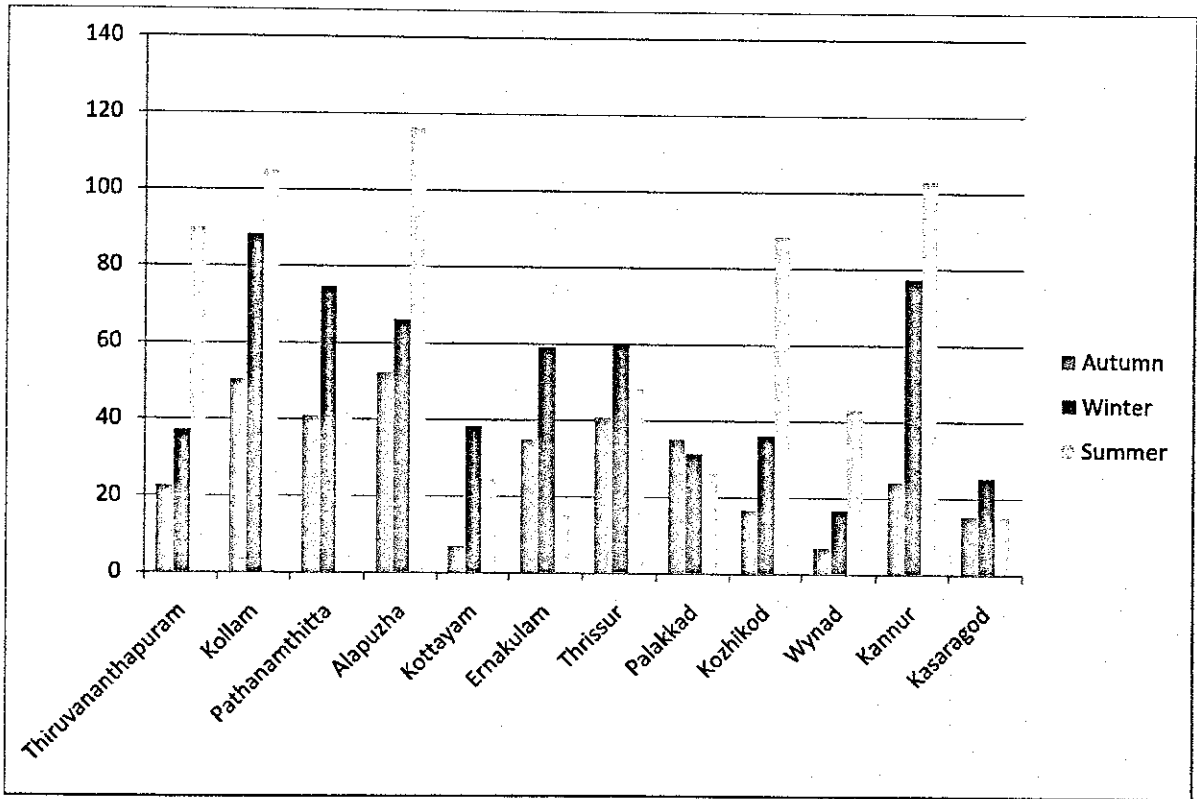
Table-13
District wise Area of Amaranths (Area in ha)

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	22.69	37.01	90.04	149.74
Kollam	50.37	88.29	105.07	243.73
Pathanamthitta	41	74.63	41.64	157.27
Alapuzha	52.28	65.99	116.44	234.71
Kottayam	6.97	38.3295	24.3915	69.69
Ernakulam	34.9	59.12	15.21	109.23
Thrissur	40.6976	60.2	48.318	149.22
Palakkad	35.03	31.29	26.19	92.51
Kozhikod	16.72	36.06	88.39	141.17
Wynad	6.88	16.63	43.03	66.54
Kannur	24.1	77.39	102.97	204.46
Kasaragod	15.36	25.03	15.21	55.60

Chart-6

District wise Area of Amaranthus in three seasons

(Area in ha)



Ladies Finger cultivation is higher in Palakkad with 54.41 ha followed by Pathanamthitta with 36.71 ha and Kollam with 34.31 ha, during autumn. During winter also Palakkad tops the list followed by Kollam. During summer Thrissur takes the lead with 69.79 ha closely followed by Kollam with 69.19 ha. Over the year total Ladies Finger cultivation was higher in Palakkad with 198.44 ha followed by Kollam with 161.74 ha. District wise area of Ladies finger in three seasons is given in table 14 and its diagrammatic representation is given in chart 7.

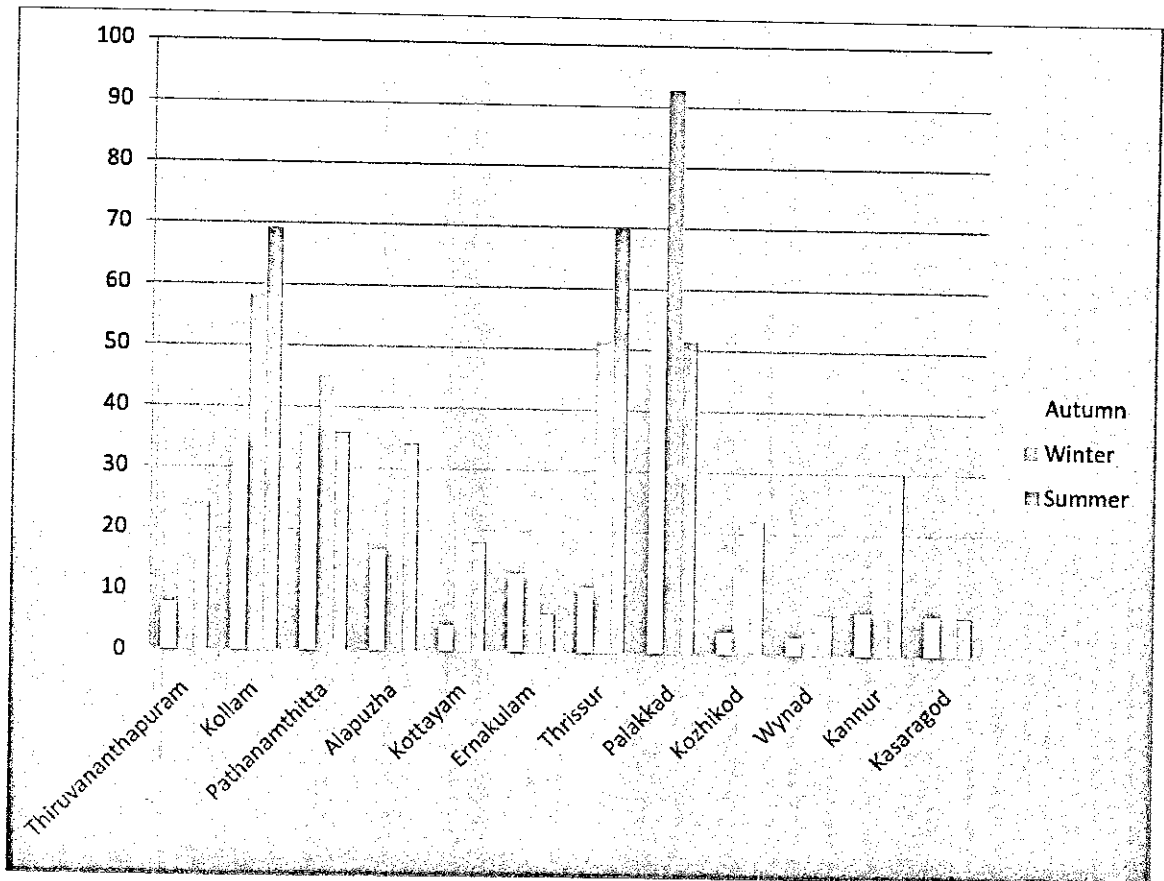
Table-14
District wise Area of Ladies finger (Area in ha)

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	7.96	14.85	24.04	46.85
Kollam	34.31	58.24	69.19	161.74
Pathanamthitta	36.71	45.16	35.8	117.67
Alapuzha	16.65	24.91	34.02	75.58
Kottayam	4.51	22.525	18.02	45.06
Ernakulam	13.01	17.97	6.45	37.43
Thrissur	10.85	51.34	69.79	131.98
Palakkad	54.41	92.75	51.28	198.44
Kozhikod	3.93	13.91	21.915	39.76
Wynad	3.19	3.67	6.8	13.66
Kannur	7.23	16.29	30.09	53.61
Kasaragod	6.75	17.48	6.45	30.68

Chart-7

District wise Area of Ladies finger in three seasons

(Area in ha)



Bitter guard is one among the major vegetables in respect of area under cultivation. During autumn and summer seasons, Bitter guard cultivated area is second to Cow pea and during winter maximum area under cultivation is under this crop. Area participation during autumn is 12.67 %, winter at 20.70 % and during summer comes to 12.29 %. In all the three seasons, Bitter guard cultivation is higher in Thrissur district. Over the year an area of 418.31 ha was under Bitter guard cultivation in Thrissur followed by Palakkad with 233.39 ha and Pathanamthitta with 224.32 ha. Season wise fluctuation in area under Bitter guard cultivation is predominant in Kasaragod and Kozhikode districts. District wise area of Bitter guard in three seasons is given in table 15 and its diagrammatic representation is given in chart 8.

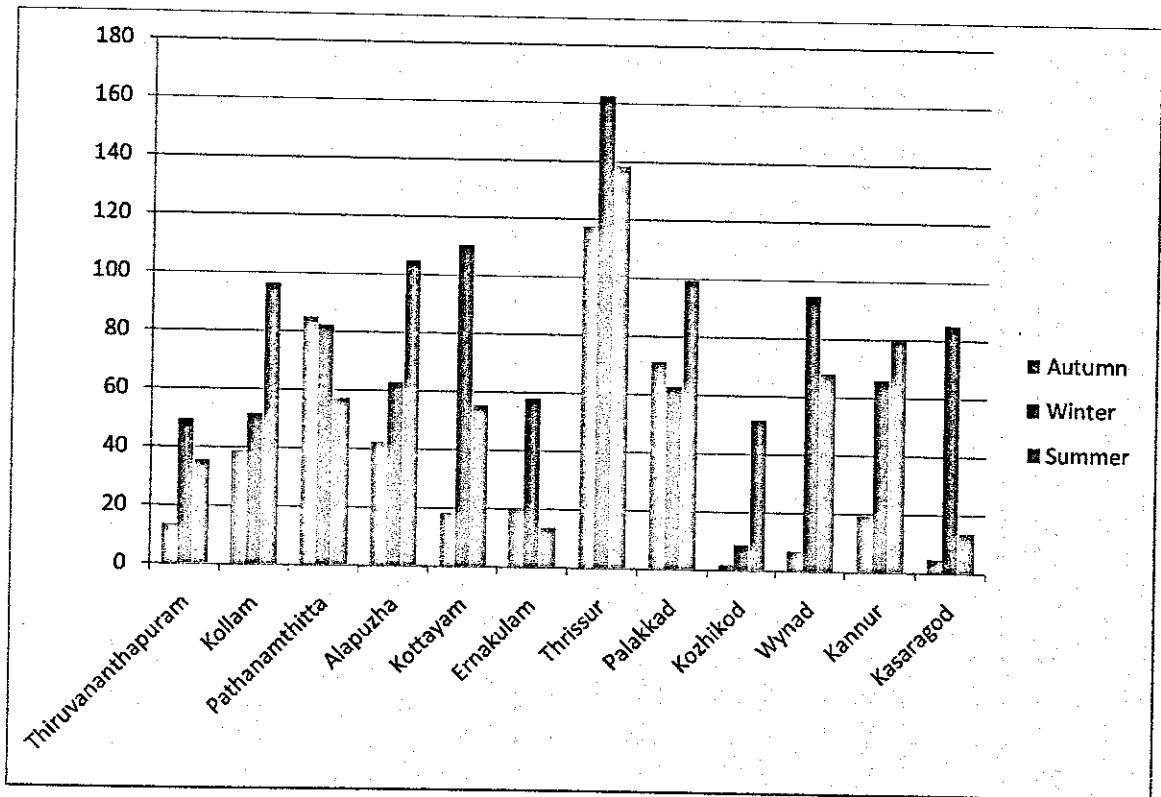
Table-15**District wise Area of Bitter guard (Area in ha)**

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	13.67	49.59	35.36	98.62
Kollam	38.76	51.71	96.27	186.74
Pathanamthitta	84.81	82.37	57.14	224.32
Alapuzha	42.31	62.9	104.79	210.00
Kottayam	18.42	110.52	55.26	184.20
Ernakulam	20.47	58.05	13.67	92.19
Thrissur	117.73	162.3	138.28	418.31
Palakkad	71.2	62.81	99.38	233.39
Kozhikod	1.92	8.926	51.569	62.42
Wynad	6.87	94.75	67.85	169.47
Kannur	19.2	65.96	80.1	165.26
Kasaragod	4.61	85.15	13.67	103.43

Chart-8

District wise Area of Bitter guard in three seasons

(Area in ha)

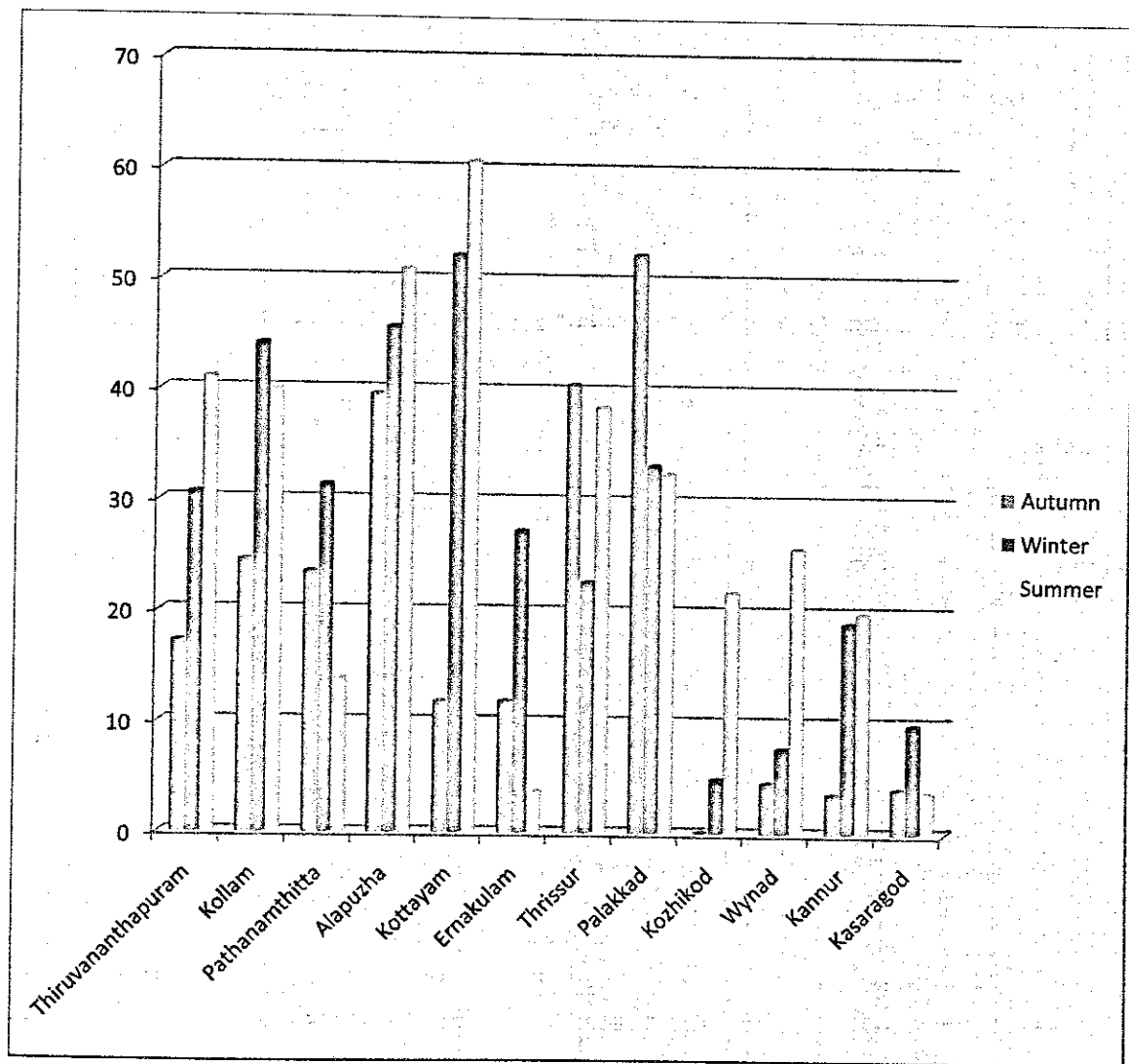


Alapuzha tops the list in Snake guard cultivation, over the year, with 136.15 ha followed by Kottayam with 124.63 ha and Palakkad with 117.96 ha. Snake guard cultivation during autumn is higher in Palakkad with 52.32 ha and during winter and summer Kottayam tops the list with 52.16 ha and 60.69 ha, respectively. District wise area of Snake guard in three seasons is given in table 16 and its diagrammatic representation is given in chart 9.

Table-16

District wise Area of Snake guard (Area in ha)

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	17.19	30.59	41.03	88.81
Kollam	24.55	44.11	39.94	108.60
Pathanamthitta	23.49	31.36	13.79	68.64
Alapuzha	39.58	45.65	50.92	136.15
Kottayam	11.78	52.1595	60.689	124.63
Ernakulam	11.84	27.243	3.68	42.76
Thrissur	40.48	22.58	38.46	101.52
Palakkad	52.32	33.18	32.46	117.96
Kozhikod	0.03	4.821	21.72	26.57
Wynad	4.49	7.61	25.71	37.81
Kannur	3.5	18.96	19.86	42.32
Kasaragod	3.99	9.77	3.68	17.44

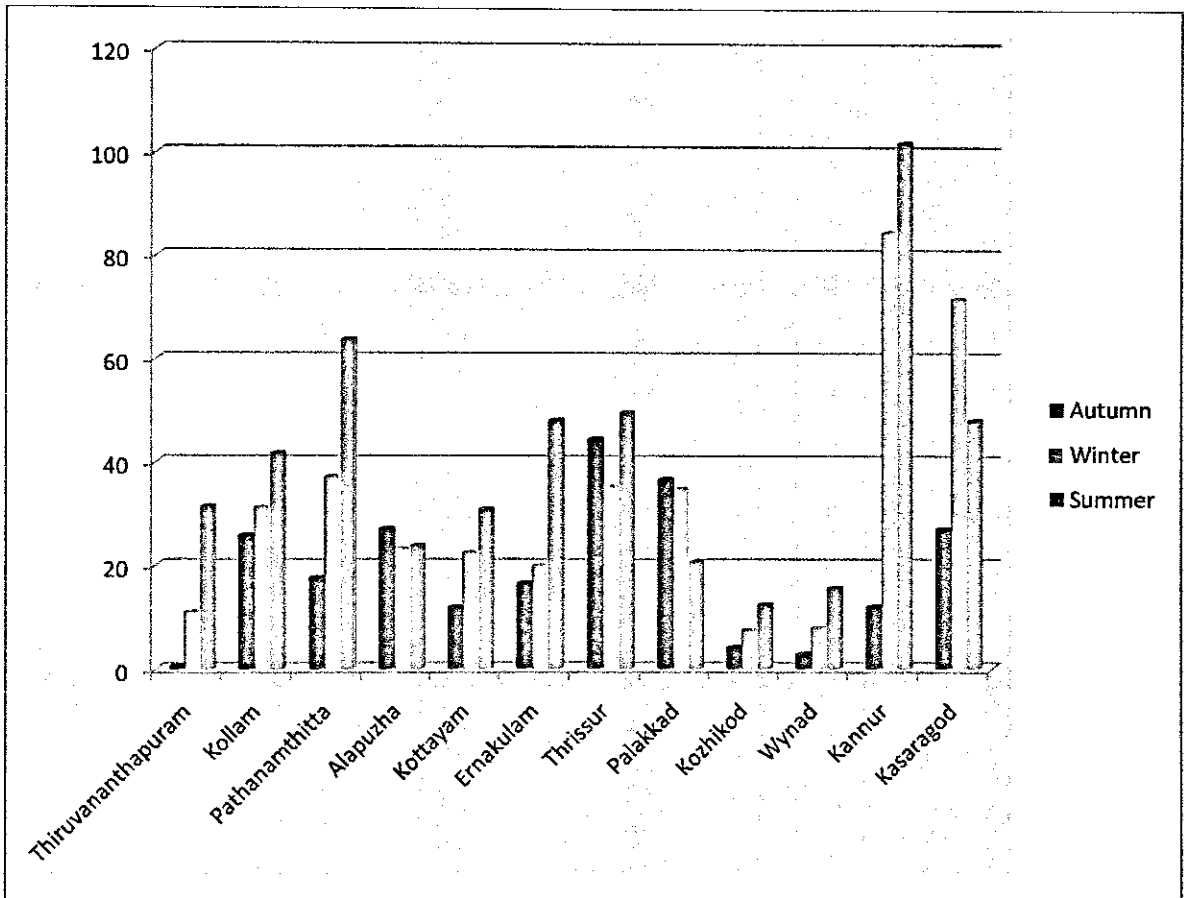
Chart-9**District wise Area of Snake guard in three seasons****(Area in ha)**

Thrissur tops with 44.32 ha Cucumber cultivation during autumn season, followed by Palakkad with 36.49 ha. Kannur and Kasaragod districts overcome this upper hand during autumn and summer and over the year Cucumber cultivation is highest in Kannur with 198.25 ha, followed by Kasaragod with 146.52 ha. The aggregate area cultivated in Thrissur is 128.76 ha. The least area under Cucumber cultivation is in Wynad at 25.89 ha, followed by Thiruvananthapuram with 42.56 ha. District wise area of Cucumber in three seasons is given in table 17 and its diagrammatic representation is given in chart 10.

Table-17

District wise Area of Cucumber (Area in ha)

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	0.41	10.85	31.3	42.56
Kollam	25.7	31.07	41.58	98.35
Pathanamthitta	17.46	37.06	63.62	118.14
Alapuzha	26.97	23.04	23.67	73.68
Kottayam	11.78	22.324	30.6955	64.80
Ernakulam	16.34	19.78	47.97	84.09
Thrissur	44.32	35.00	49.44	128.76
Palakkad	36.49	34.59	20.48	91.56
Kozhikod	4.00	7.263	12.28	23.54
Wynad	2.67	7.73	15.49	25.89
Kannur	11.88	84.5	101.87	198.25
Kasaragod	26.93	71.62	47.97	146.52

Chart-10**District wise Area of Cucumber in three seasons****(Area in ha)**

Compared to other seasons, Cultivation of Cucumber is more during summer in all districts, except Kasaragod, Palakkad and Alappuzha.

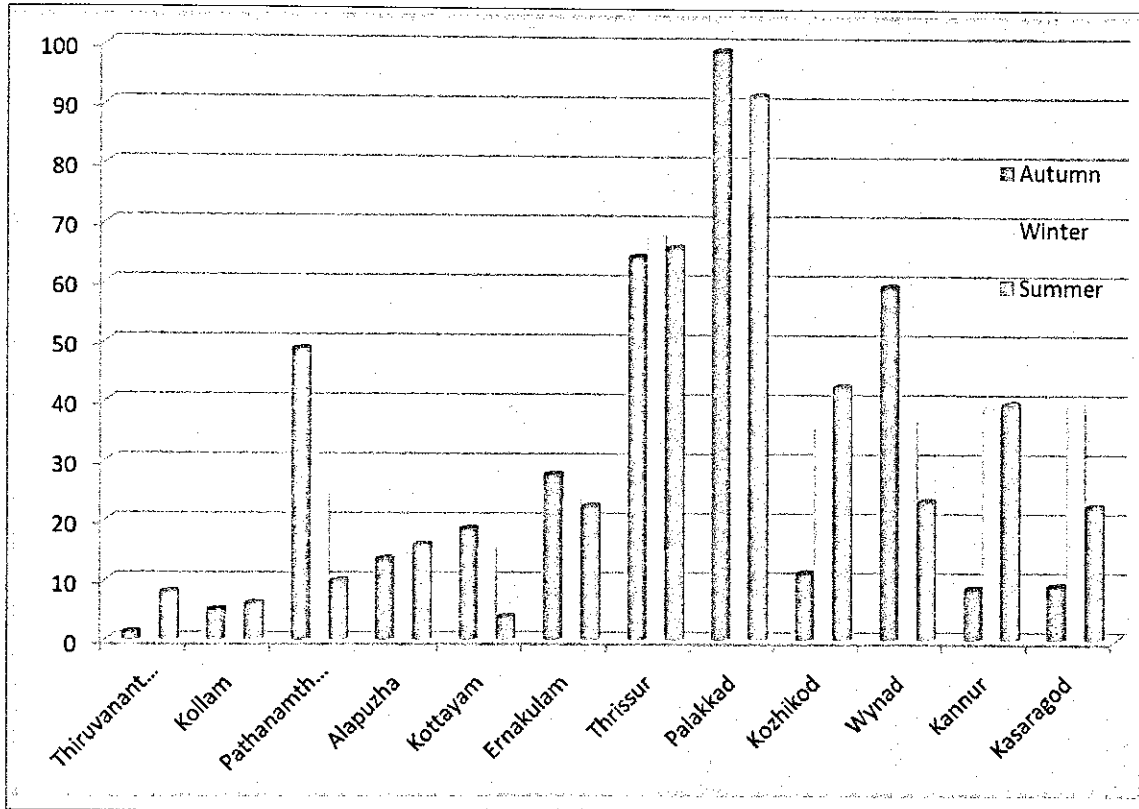
Except in autumn season, this crop is second to last in area under cultivation. During autumn, area under Pumpkin cultivation is third from top, due to vast area cultivated accounting to 168.97 ha in Palakkad district. Over the year, Palakkad tops with 264.26 ha followed by Thrissur with 197.77 ha and Wynad with 119.55 ha. Participation of other districts is low compared to these districts. The lowest area cultivated with Pumpkin is in Thiruvananthapuram only in 14.39 ha. District wise area of Pumpkin in three seasons is given in table 18 and its diagrammatic representation is given in chart 11.

Table-18
District wise Area of Pumpkin

(Area in ha)

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	1.18	5.27	7.94	14.39
Kollam	5.01	3.91	6.02	14.94
Pathanamthitta	48.73	24.13	9.83	82.69
Alapuzha	13.48	14.02	15.85	43.35
Kottayam	18.55	14.84	3.71	37.1
Ernakulam	27.67	23.42	22.36	73.45
Thrissur	64.25	67.7	65.82	197.77
Palakkad	98.97	73.86	91.43	264.26
Kozhikod	11.08	35.53	42.45	88.86
Wynad	59.31	37.08	23.16	119.55
Kannur	8.5	38.82	39.58	86.9
Kasaragod	8.96	39.25	22.36	70.57

Chart -11
District wise Area of Pumpkin in three seasons
(Area in ha)



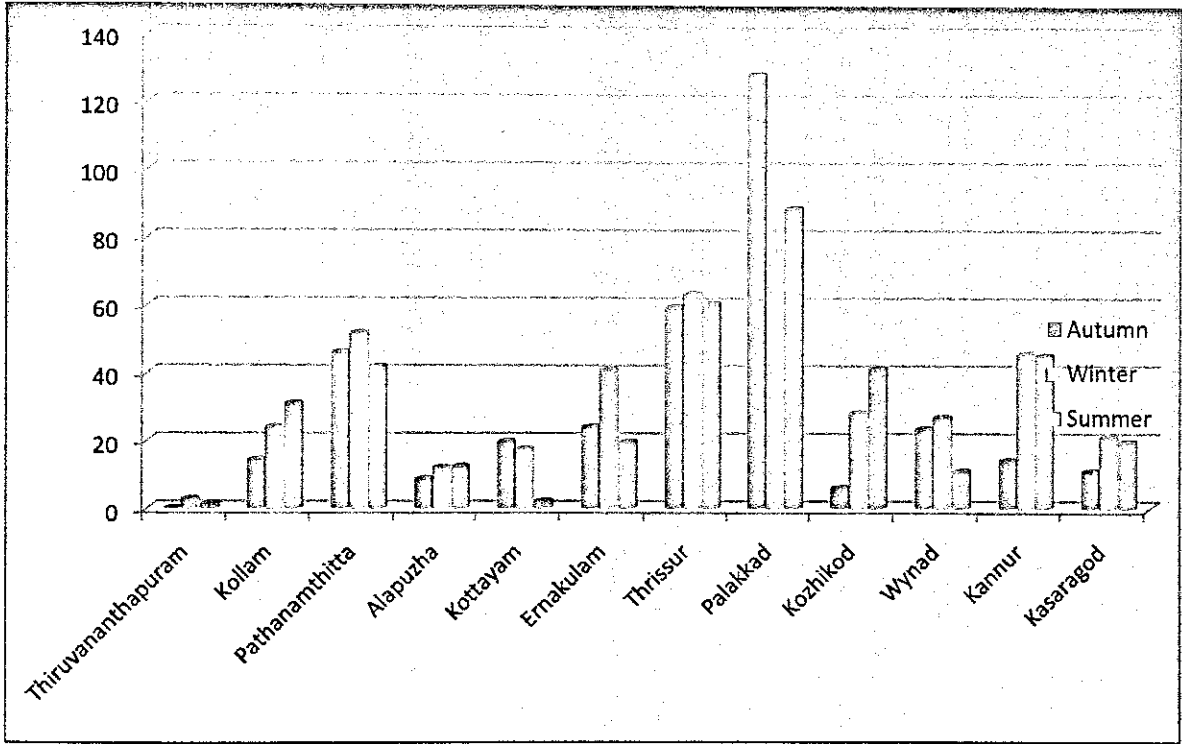
Among prominent vegetables, Ash guard ranks 4th during autumn season and 6th& 7th during winter and summer, respectively. Palakkad has the largest area under this crop, over the year, with 292.00 ha, followed by Thrissur with 182.53 ha, Pathanamthitta with 139.09 ha & Kannur with 104.63 ha. All other districts have Ash guard cultivation below 80 ha; the lowest area under cultivation is, as in the case of Ash guard, in Thiruvananthapuram with 3.99 ha. District wise area of Pumpkin in three seasons is given in table 19 and its diagrammatic representation is given in chart 12.

Table-19
District wise Area of Ash guard

(Area in ha)

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	0	2.79	1.198	3.40
Kollam	14.13	23.93	30.72	68.78
Pathanamthitta	45.81	51.75	41.53	139.1
Alapuzha	8.55	12.02	12.16	32.73
Kottayam	19.47	17.5185	1.9465	38.94
Ernakulam	23.83	40.82	19.42	84.07
Thrissur	59.15	63.26	60.12	182.5
Palakkad	127.98	75.7	88.32	292
Kozhikod	5.9	28.069	40.9	74.87
Wynad	23.29	26.79	10.76	60.84
Kannur	14.02	45.72	44.89	104.6
Kasaragod	10.71	20.8	19.42	50.93

Chart- 12
District wise Area of Ash guard in three seasons
(Area in ha)



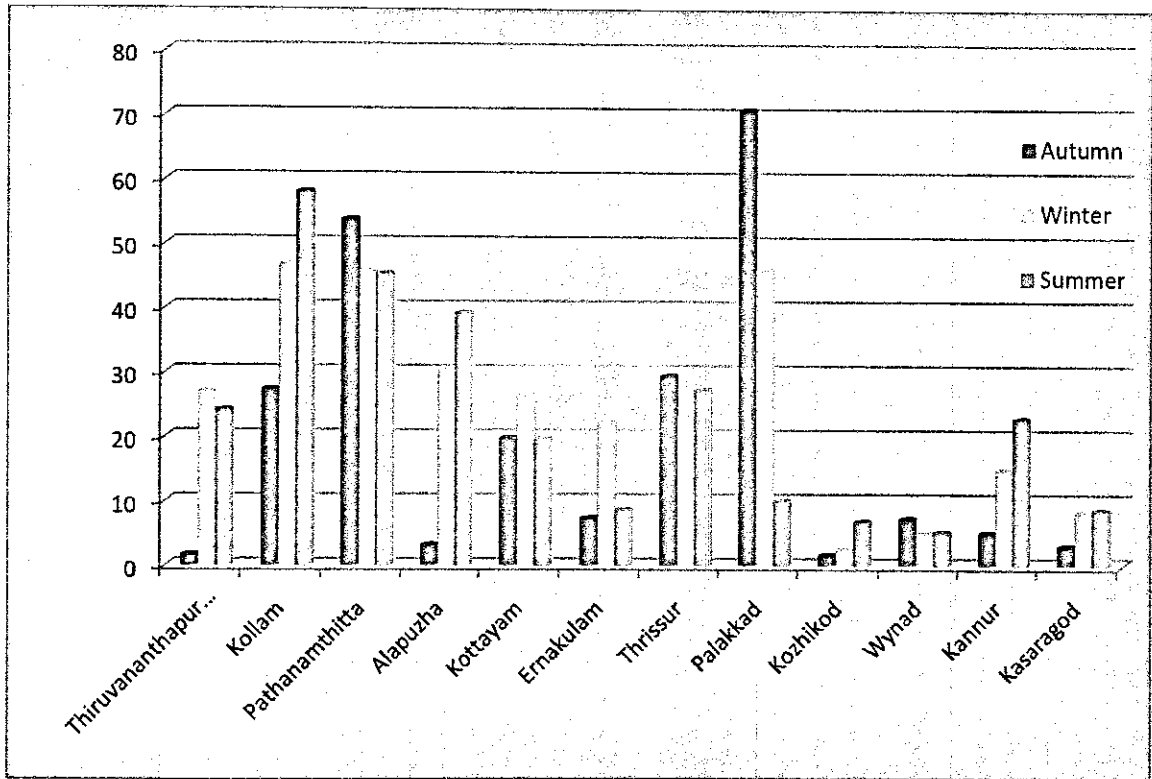
Except in Palakkad, area participation over the seasons do not show much variation.

Except during summer, Pathanamthitta dominates first place in area under cultivation of this crop; Kollam grabs the first place during summer. However, over the year, largest area under Brinjal cultivation is in Pathanamthitta with 144.68, closely followed by Kollam with 131.97 ha and Palakkad with 126.49 ha. Area cultivated in other districts is below 80 ha and the lowest area under Brinjal cultivation during the year was in Kozhikode with 10.76 ha. Brinjal ranks lowest in area under cultivation among prominent vegetables. District wise area of Brinjal in three seasons is given in table 20 and its diagrammatic representation is given in chart 13.

Table-20
District wise Area of Brinjal

(Area in ha)

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	1.58	26.98	24.15	52.71
Kollam	27.25	46.66	58.06	131.97
Pathanamthitta	53.71	45.69	45.28	144.68
Alapuzha	3.04	30.36	39.23	72.63
Kottayam	19.66	26.212	19.659	65.531
Ernakulam	7.23	21.84	8.59	37.66
Thrissur	29.31	23.117	27.2399	79.6669
Palakkad	70.76	45.76	9.97	126.49
Kozhikod	1.51	2.46	6.79	10.76
Wynad	7.11	4.88	5.16	17.15
Kannur	4.96	14.82	22.79	42.57
Kasaragod	2.9	8.17	8.59	19.66

Chart- 13**District wise Area of Brinjal in three seasons****(Area in ha)**

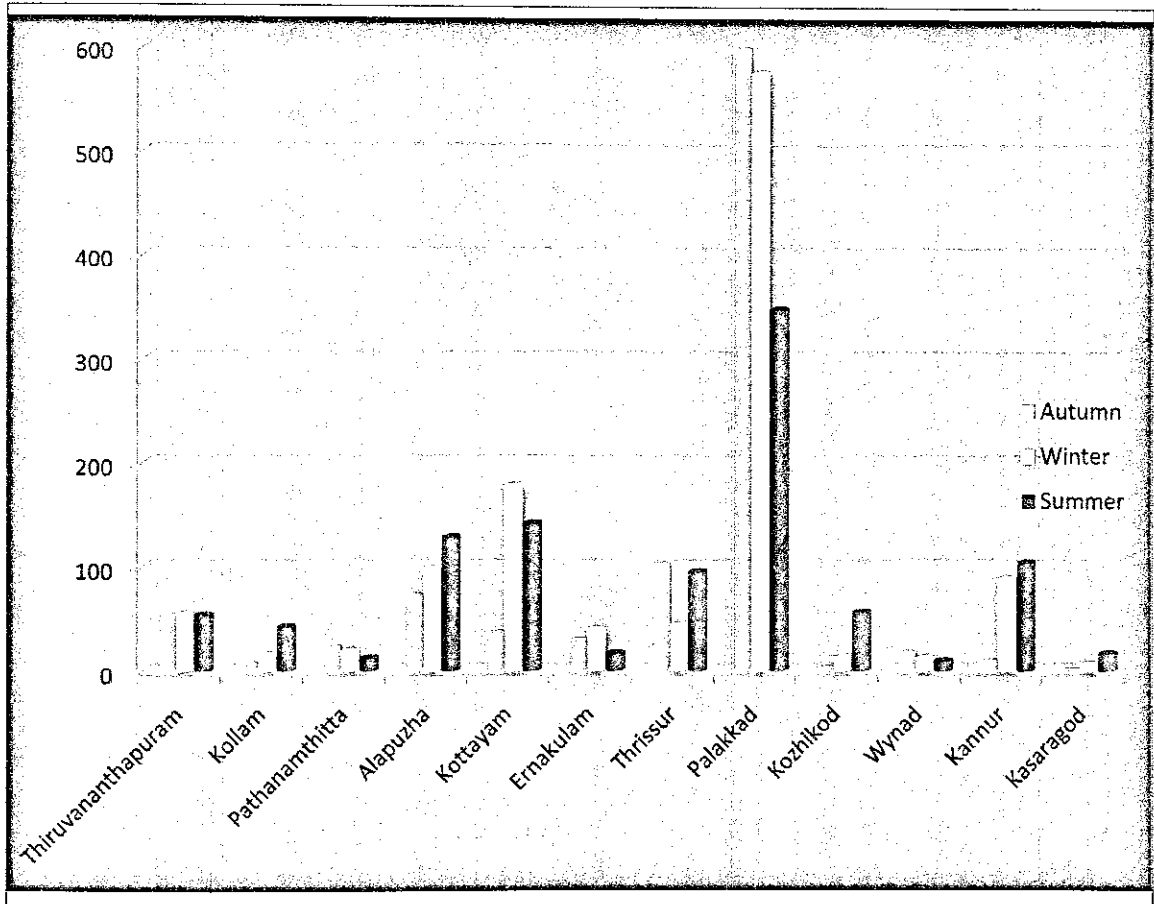
Variation in area under cultivation among autumn and other seasons is prominent in Thiruvananthapuram & Alapuzha districts.

As far as area participation of prominent vegetables is concerned, Cow pea dominates during autumn and summer seasons and goes second to Bitter guard during winter. Palakkad registered largest area under cultivation over the three seasons aggregating 1521.27 ha during the year, followed by Kottayam with 354.69 ha, Alapuzha with 297.31 ha, Thrissur with 201.00 ha & Thiruvananthapuram with 159.32 ha. The lowest area is estimated to have cultivated is in Kasaragod with 23.46 ha District wise area of Cow pea in three seasons is given in table 21 and its diagrammatic representation is given in chart 14.

Table-21
District wise Area of Cow pea

(Area in ha)

District	Autumn	Winter	Summer	Total
Thiruvananthapuram	52.24	53.42	53.66	159.3
Kollam	5.86	14.88	42.33	63.07
Pathanamthitta	21.96	18.38	12.28	52.62
Alapuzha	71.35	97.65	128.31	297.3
Kottayam	35.47	177.345	141.876	354.7
Ernakulam	28.53	39.1	16.85	84.48
Thrissur	101.32	43.22	94.96	239.5
Palakkad	598.23	575.33	347.71	1521
Kozhikod	1.7	12	56.09	69.79
Wynad	16.44	11.83	9.65	37.92
Kannur	8.61	88.38	104.3	201.3
Kasaragod	0.4	6.21	16.85	23.46

Chart- 14**District wise Area of Cow pea in three seasons****(Area in ha)**

Predominance of area under Cow pea cultivation attributes to large area brought under cultivation of Cow pea, in Palakkad, over the three seasons.

In addition to the above major vegetables, though nominal in area, rare crops like Potato, Beetroot, Carrot, Cabbage & Cauliflower are cultivated in the State along with minor vegetables like Churakka, Amarapayar, Valaripayar, Chathurapayar, Nithyavazhuthana, Peechinga, Chathura peechinga & Chekkumanis.

Pachamulaku, as a commercial cultivation, is not predominant in the State, except in Thrissur & Palakkad districts. In other districts Pachamulaku cultivation is carried out as homestead cultivation for own use by households. Tables showing Season wise cultivation of these crops are appended.

COMPARATIVE STUDY OF HORTICULTURE DATA WITH EARAS DATA

Agriculture Statistics, an integral part of EARAS, collected over the years, cover a wide range of crops. But Horticulture Survey, aimed at assessing the production of horticulture crops is an Ad hoc Survey. Both these Surveys are conducted on sampling method. While the Sample frame for Agriculture Statistics is the Survey/ sub division numbers as per Revenue records, the frame for Horticulture Survey 2010- 11 was the list of Operational holdings as per Agriculture Census. Moreover, the Sampling methodologies were also different. Data in respect of Agriculture Statistics is collected, concurrently, direct from field and that in respect of Horticulture Survey, an year back data was collected from informants of selected samples. Capability of the informants in providing data with accuracy might have affected the tables generated. May that be the

reason for wide difference in area cultivated, in respect of certain crops seen, in analysing the tables.

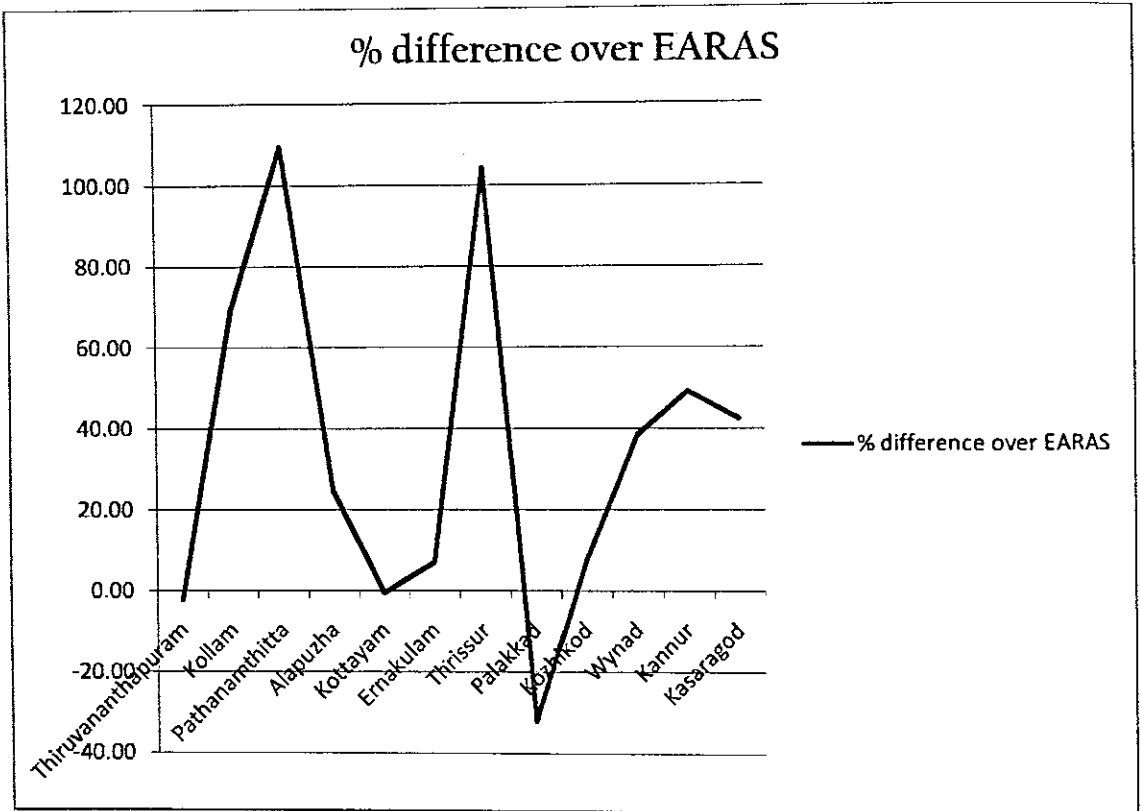
Comparison in respect of area under cultivation of major seasonal crops is attempted in the following Tables and Charts.

Table -22

Amaranths

(Area in ha)

District	Horticulture	EARAS	Difference in area from EARAS	% difference over EARAS
Thiruvananthapuram	149.74	153	-3.26	-2.13
Kollam	243.73	144	99.73	69.26
Pathanamthitta	157.27	75	82.27	109.69
Alapuzha	234.71	188	46.71	24.85
Kottayam	69.691	70	-0.309	-0.44
Ernakulam	109.23	102	7.23	7.09
Thrissur	149.2156	73	76.2156	104.40
Palakkad	92.51	136	-43.49	-31.98
Kozhikod	141.17	131	10.17	7.76
Wynad	66.54	48	18.54	38.63
Kannur	204.46	137	67.46	49.24
Kasaragod	55.6	39	16.6	42.56

Chart-15

Palakkad registers a reduction of 31 % in area cultivated compared to EARAS estimated data while Pathanamthitta has a hike in area of 109 % followed by Thrissur with 104 % hike. Low running districts are Kollam with 69 % hike, Kannur with 49 % and Kasaragod with 42 %. Other districts show a shoulder to shoulder data.

Table -23
Ladies finger
(Area in ha)

District	Horticulture	EARAS	Difference in area from EARAS	% difference over EARAS
Thiruvananthapuram	46.85	43	3.85	8.95
Kollam	161.74	47	114.74	244.13
Pathanamthitta	117.67	44	73.67	167.43
Alapuzha	75.58	65	10.58	16.28
Kottayam	45.055	46	-0.945	-2.05
Ernakulam	37.43	54	-16.57	-30.69
Thrissur	221.98	74	147.98	199.97
Palakkad	298.44	526	-227.56	-43.26
Kozhikod	39.755	25	14.755	59.02
Wynad	13.66	6	7.66	127.67
Kannur	53.61	35	18.61	53.17
Kasaragod	30.68	41	-10.32	-25.17

In the case of Ladies finger, the major difference is in respect of Kollam, Thrissur, and Pathanamthitta and Wynad districts. Kollam registers 244% hike in cultivated area followed by Thrissur with 199 % hike, Pathanamthitta with 167 % and Wynad with 127 %. Reduction in area is estimated highest in Ernakulam at 30.69 % and Kasaragod at 25.17 %. Data in respect of other districts seems to be acceptable.

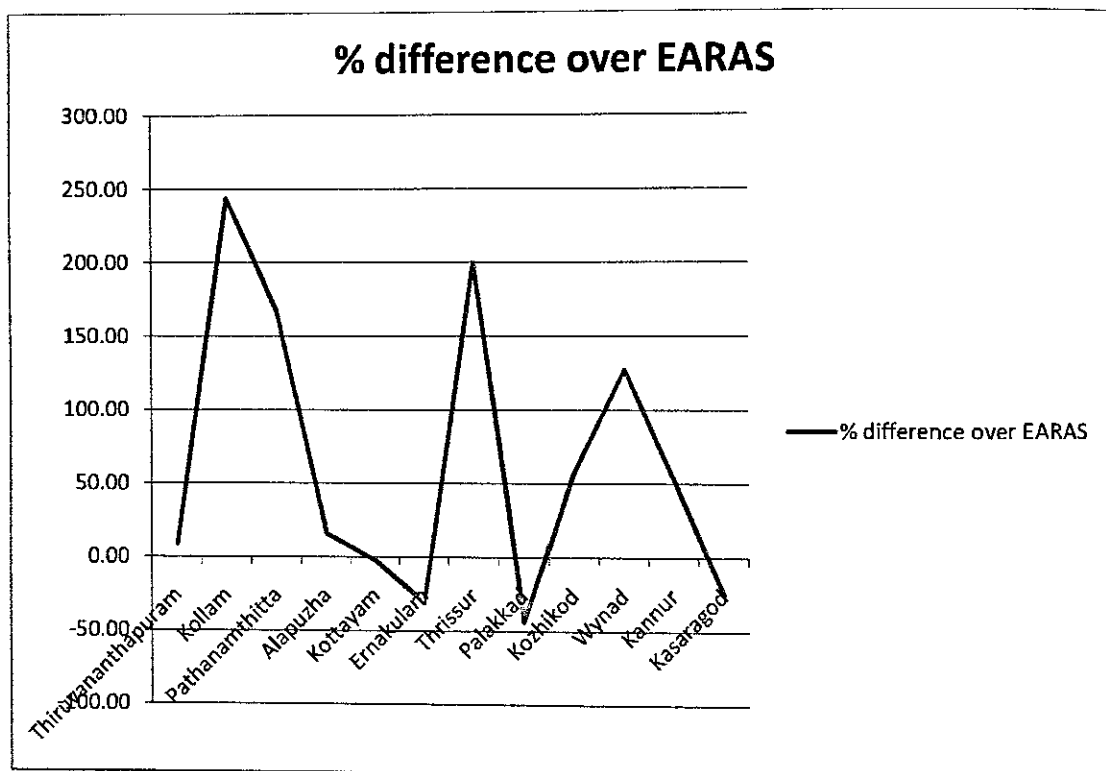
Chart-16

Table -24
Bitter guard

(Area in ha)

District	Horticulture	EARAS	Difference in area from EARAS	% difference over EARAS
Thiruvananthapuram	98.62	58	40.62	70.03
Kollam	186.74	96	90.74	94.52
Pathanamthitta	224.32	70	154.32	220.46
Alapuzha	210	152	58	38.16
Kottayam	184.2	180	4.2	2.33
Ernakulam	92.19	205	-112.81	-55.03
Thrissur	368.31	129	239.31	185.51
Palakkad	333.39	588	-254.61	-43.30
Kozhikod	62.415	58	4.415	7.61
Wynad	169.47	143	26.47	18.51
Kannur	165.26	72	93.26	129.53
Kasaragod	103.43	23	80.43	349.70

Data in respect of Kasaragod is beyond acceptable rate showing a hike in area by 349 %Pathanamthitta is just behind with 220 % hike, Thrissur with 185 % and Kannur with 129 %. Reduction in area @ 55 % is estimated in Ernakulam followed by Palakkad at 43 %. Other districts show reasonable variation.

Chart-17

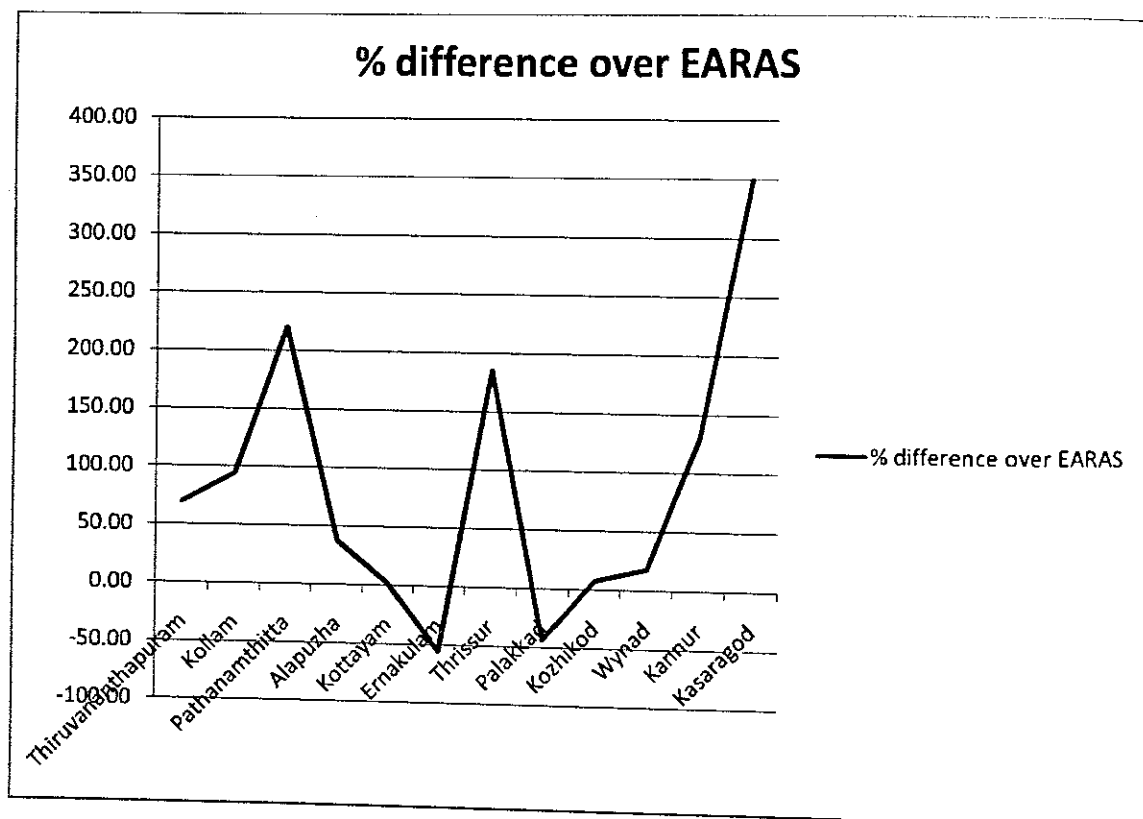


Table -25**Snake guard**

(Area in ha)

District	Horticulture	EARAS	Difference in area from EARAS	% difference over EARAS
Thiruvananthapuram	88.81	82	6.81	8.30
Kollam	108.6	36	72.6	201.67
Pathanamthitta	68.64	65	3.64	5.60
Alapuzha	156.15	129	27.15	21.05
Kottayam	234.63	249	-14.37	-5.77
Ernakulam	42.76	189	-146.23	-77.37
Thrissur	131.52	44	87.52	198.91
Palakkad	117.96	168	-50.04	-29.79
Kozhikod	26.571	18	8.571	47.62
Wynad	37.81	6	31.81	530.17
Kannur	42.32	13	29.32	225.54
Kasaragod	17.44	7	10.44	149.14

The hike in area @ 530 % in Wynad, over EARAS, is beyond acceptable rate. Kannur district follows with a hike in estimated area at 225 %, Kollam with 201 %, Thrissur with 199 % and Kasaragod with 149 %. Reduction in area is estimated in Ernakulam at 77 %, Horticulture Survey. Other district figures are in an acceptable range.

Chart-18

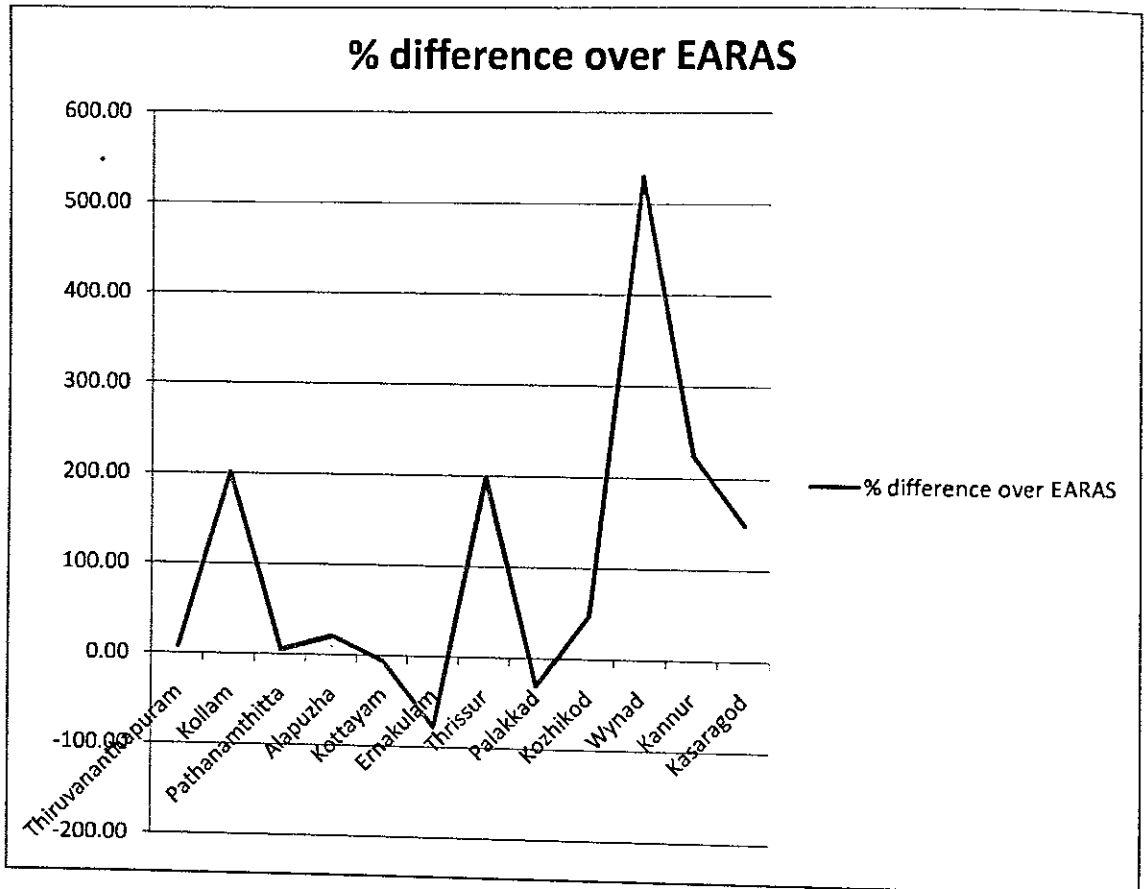


Table -26**Cucumber**

(Area in ha)

District	Horticulture	EARAS	Difference in area from EARAS	% difference over EARAS
Thiruvananthapuram	72.56	84	-11.44	-13.62
Kollam	98.35	20	78.35	391.75
Pathanamthitta	118.14	30	88.14	293.80
Alapuzha	73.68	94	-20.32	-21.62
Kottayam	64.7995	57	7.7995	13.68
Ernakulam	84.09	159	-74.91	-47.11
Thrissur	128.76	45	83.76	186.13
Palakkad	141.56	106	35.56	33.55
Kozhikod	123.543	107	16.543	15.46
Wynad	75.89	22	53.89	244.95
Kannur	268.25	243	25.25	10.39
Kasaragod	146.52	121	25.52	21.09

As far as Cucumber cultivation is concerned, hike in area by 391 % in Kollam, 293 % in Pathanamthitta & 244 % in Wynad is seemed abnormal. Ernakulam registered a reduction in estimated area by 47 %. Estimated data in respect of other districts is acceptable.

Chart-19

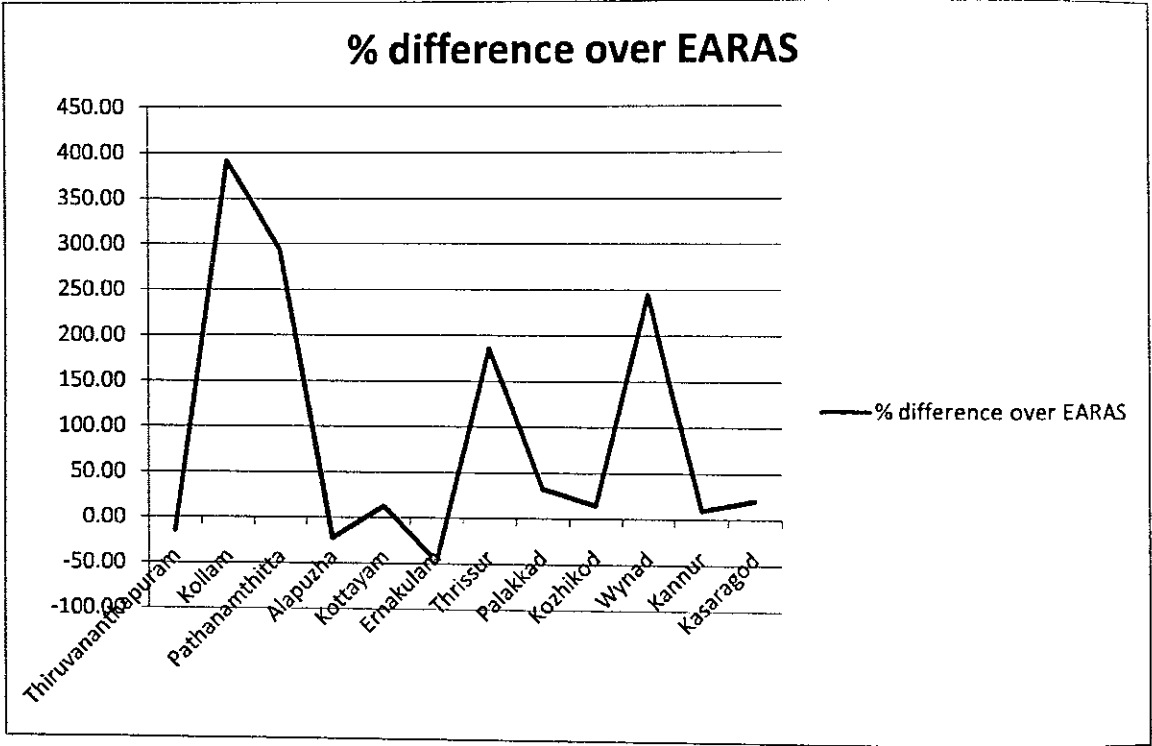
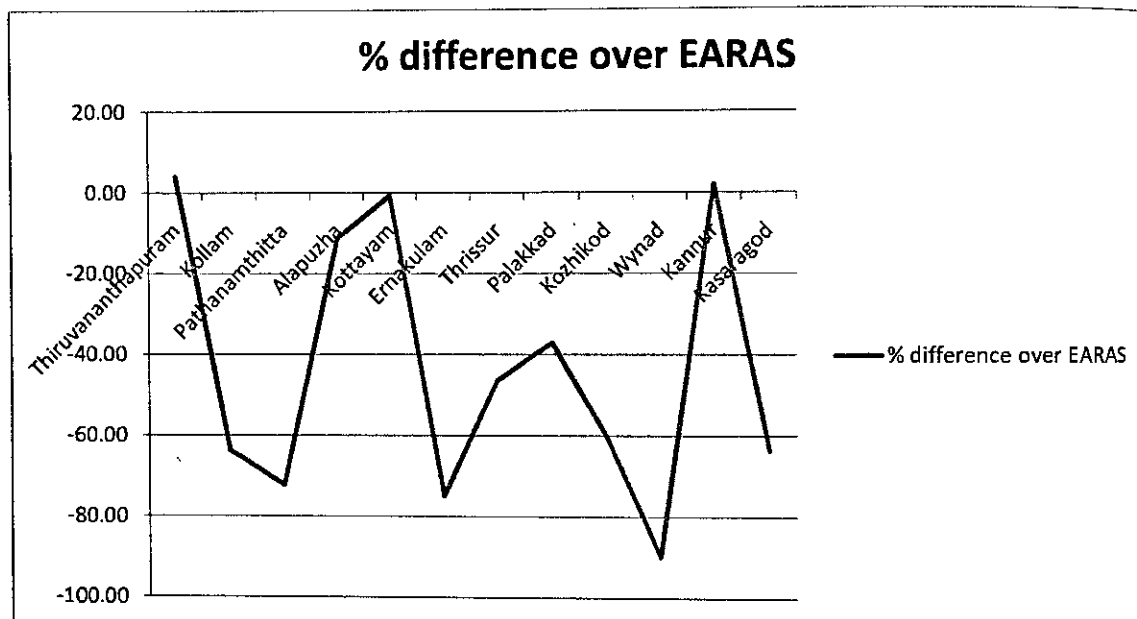


Table -27
Cow pea

(Area in ha)

District	Horticulture	EARAS	Difference in area from EARAS	% difference over EARAS
Thiruvananthapuram	159.32	153	6.32	4.13
Kollam	63.07	173	-109.93	-63.54
Pathanamthitta	52.62	189	-136.38	-72.16
Alapuzha	297.31	335	-37.69	-11.25
Kottayam	354.691	357	-2.309	-0.65
Ernakulam	284.48	1129	-844.52	-74.80
Thrissur	239.5	445	-205.5	-46.18
Palakkad	1521.27	2411	-889.73	-36.90
Kozhikod	69.79	174	-104.21	-59.89
Wynad	37.92	368	-330.08	-89.70
Kannur	201.29	197	4.29	2.18
Kasaragod	23.46	64	-40.54	-63.34

Except Thiruvananthapuram and Kannur, area estimated in all other districts is below estimated area under EARAS. Reduction in estimated area is highest in Wynad at 89 %, followed by Ernakulam at 74 %, Pathanamthitta at 72 %, Kollam & Kasaragod at 63 %.

Chart-20

VEGETABLES OTHER THAN SEASONAL

So far, area and production in respect of seasonal vegetables were only discussed. Certain other vegetables, having Annual and Perennial nature, is also part of Horticulture. Drumstick, Curry leaf and Small guard are the main found in Kerala.

Drumstick and Curry leaf have a perennial nature but Small guard is neither perennial nor annual, in terms of gestation period. However, the predominance of these vegetables in the domestic kitchen cannot way be left addressed.

Table-28
Average Area and Production over the year

(Area in ha
 Production in tonnes)

District	Drumstick		Small guard		Curry leaf	
	Area	Production	Area	Production	Area	Production
Thiruvananthapuram	1961.11	369.85	34.85	109.51	59.67	120.67
Kollam	55.93	310.11	61.63	376.34	37.55	138.46
Pathanamthitta	314.94	84.02	143.61	195.69	496.06	65.73
Alapuzha	431.5	67.42	74.25	151.81	591.93	121.72
Kottayam	623.53	91.95	85.24	219.03	1257.97	83.02
Ernakulam	231.92	123.44	40.3	115.71	149.74	97.11
Thrissur	549.83	329.85	92.64	92.4	614.46	138.28
Palakkad	243.45	510.06	14.91	79.06	31.52	65.04
Kozhikod	482.92	65.87	8.56	23.72	26.27	24.92
Wynad	73.95	14.57	22.64	21.7	94.39	23.42
Kannur	270.33	363.10	47.01	177.46	127.79	170.27
Kasaragod	49.06	2.55	18.68	47.36	44.88	1.07

Table 29

Crop wise area, production and participation

(Area in ha
Production in tonnes)

Average Area, Production and Participation over the year

District	Drumstick				Small guard				Curry leaf			
	Area	Partici.	Prodn.	Partici.	Area	Partici.	Prodn.	Partici.	Area	Partici.	Prodn.	Partici.
Thiruvananthapuram	1961.11	37.08	369.85	15.85	34.85	5.41	109.51	6.8	59.67	1.69	120.67	11.5
Kollam	55.93	1.06	310.11	13.29	61.63	9.57	376.34	23.38	37.55	1.06	138.46	13.19
Pathanamthitta	314.94	5.96	84.02	3.6	143.61	22.29	195.69	12.16	496.06	14.04	65.73	6.26
Alapuzha	431.5	8.16	67.42	2.89	74.25	11.52	151.81	9.43	591.93	16.76	121.72	11.6
Kottayam	623.53	11.79	91.95	3.94	85.24	13.23	219.03	13.61	1257.97	35.61	83.02	7.91
Ernakulam	231.92	4.39	123.44	5.29	40.3	6.25	115.71	7.19	149.74	4.24	97.11	9.25
Thrissur	549.83	10.4	329.85	14.14	92.64	14.38	92.4	5.74	614.46	17.4	138.28	13.17
Palakkad	243.45	4.6	510.06	21.86	14.91	2.31	79.06	4.91	31.52	0.89	65.04	6.2
Kozhikod	482.92	9.13	65.87	2.82	8.56	1.33	23.72	1.47	26.27	0.74	24.92	2.37
Wynad	73.95	1.4	14.57	0.62	22.64	3.51	21.7	1.35	94.39	2.67	23.42	2.23
Kannur	270.33	5.11	363.10	15.57	47.01	7.3	177.46	11.02	127.79	3.62	170.27	16.22
Kasaragod	49.06	0.93	2.55	0.11	18.68	2.9	47.36	2.94	44.88	1.27	1.07	0.1

Table 30 and chart 20, chart 21 represents area, production and production participation of Drumstick respectively.

Table 30
Drumstick

(Area in ha
Production in tonnes)

District	Area	Area Participation	Production	Production Participation
Thiruvananthapuram	1961.11	37.08	369.85	15.85
Kollam	55.93	1.06	310.11	13.29
Pathanamthitta	314.94	5.96	84.02	3.6
Alapuzha	431.5	8.16	67.42	2.89
Kottayam	623.53	11.79	91.95	3.94
Ernakulam	231.92	4.39	123.44	5.29
Thrissur	549.83	10.4	329.85	14.14
Palakkad	243.45	4.6	510.06	21.86
Kozhikod	482.92	9.13	65.87	2.82
Wynad	73.95	1.4	14.57	0.62
Kannur	270.33	5.11	363.10	15.57
Kasaragod	49.06	0.93	2.55	0.11

Thiruvananthapuram ranks first in estimated area under cultivate with 1961.11 ha but only second in estimated production with 369.85 tonnes below Palakkad with 510.06 tonnes in just 243.45 ha of estimated cultivation. Kottayam, 2nd in area occupy only 7th position in production. Kannur, though 7th in area captures 3rd position in production. An overall view reveals that the productivity of Drumstick is lowest in Thiruvananthapuram, followed by Kottayam, Kozhikode and Alapuzha. Productivity of this crop is highest in Kollam followed by Palakkad.

Chart-21

Area and Production chart of Drumstick

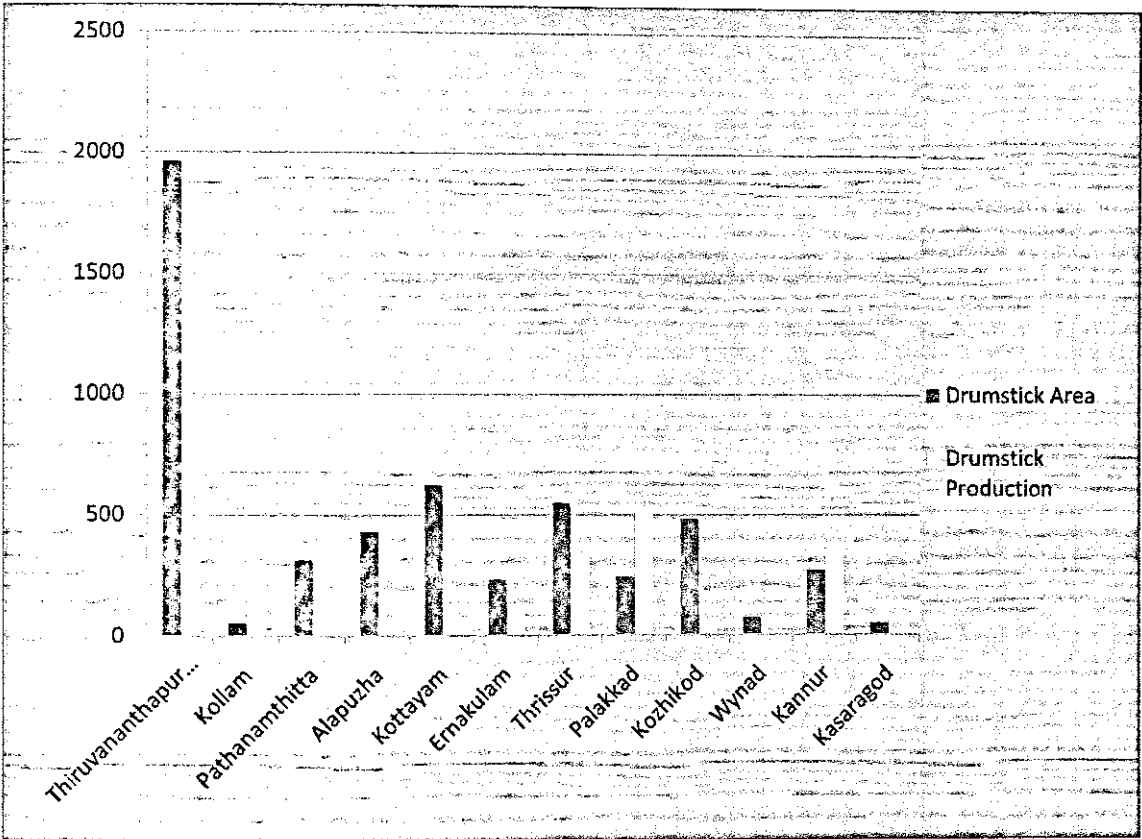
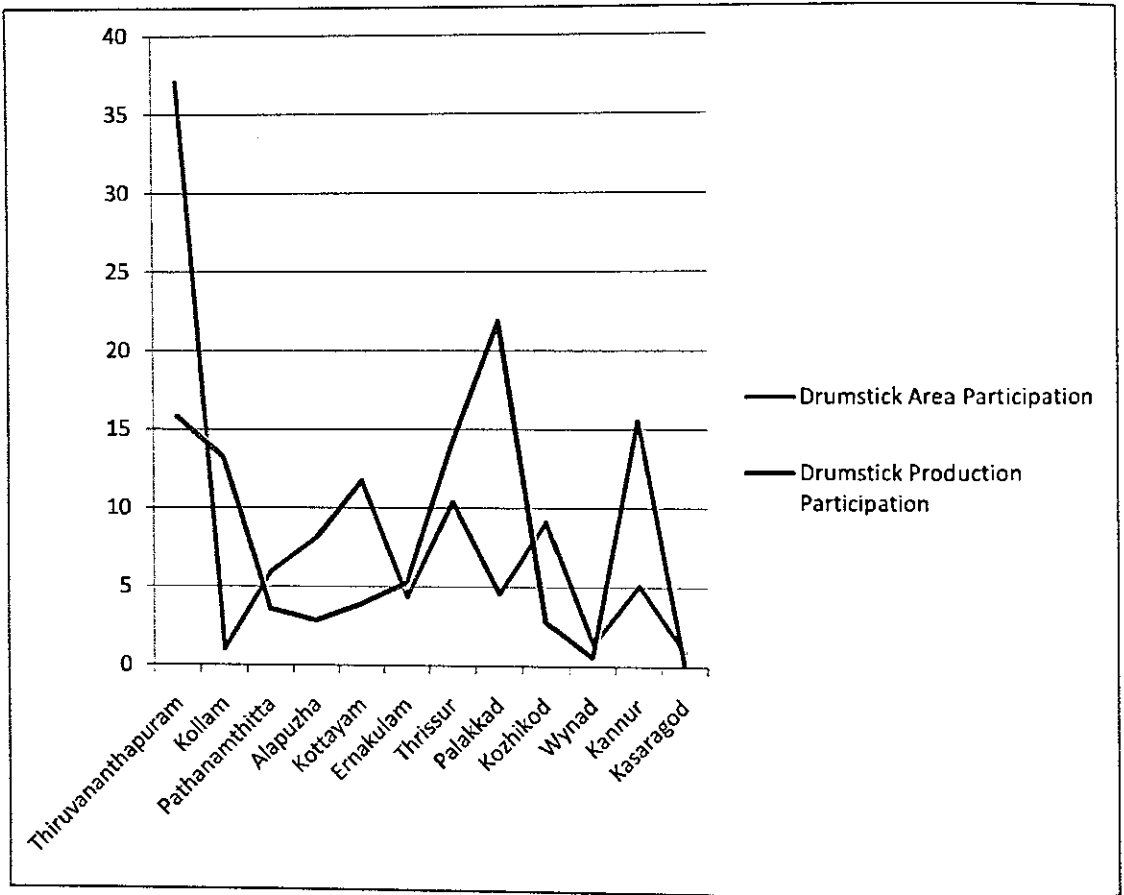
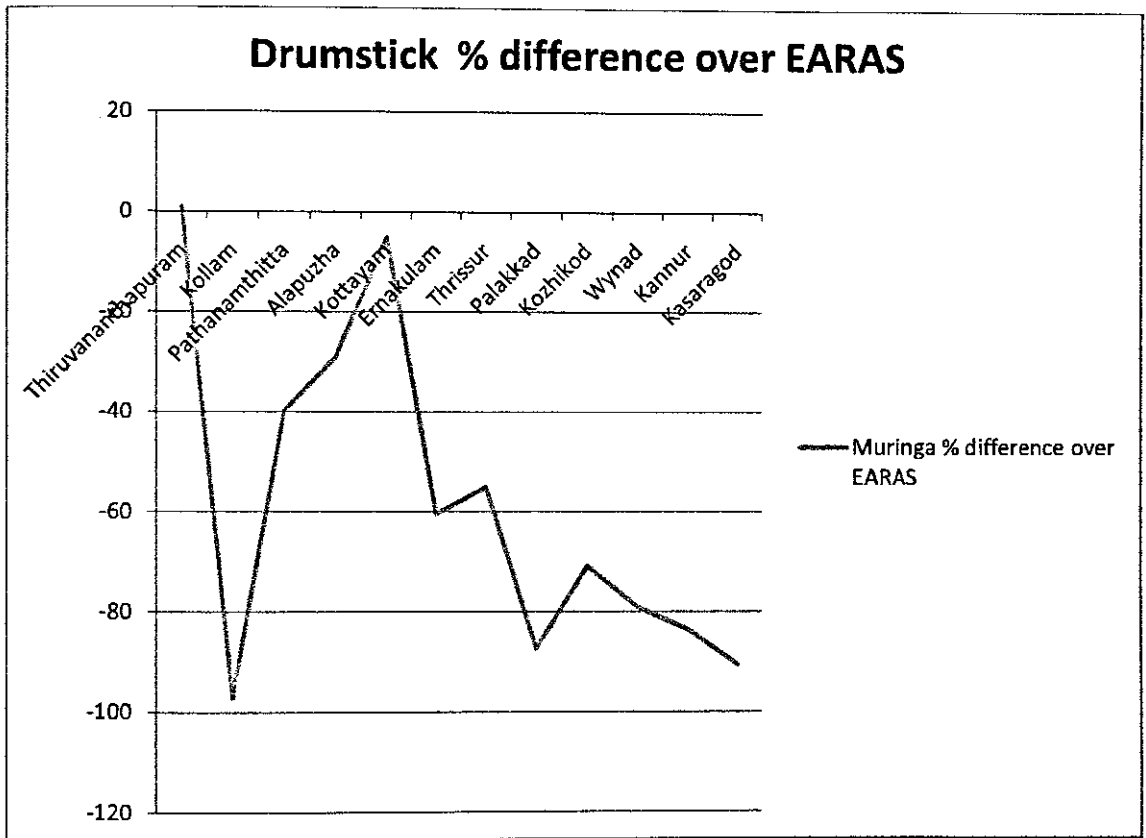


Chart- 22**Area and Production participation.**

Line diagram depicting percentage difference in area under cultivation estimated as per Horticulture survey over EARAS data is traced in chart 22.

Chart-23

Difference is much higher in Kollam, Palakkad, Kannur and Kasaragod districts, compared to others. Except in Thiruvananthapuram district, area estimated in Horticulture survey falls below EARAS data.

Table and chart in respect of area, production and their participation rates are given in table 31 and its diagrammatic representation given chart 23, 24 respectively.

Table 31**Curry leaf**(Area in ha
Production in tonnes)

	Area	Area Participa tion	Production	Production Participation
Thiruvananthapuram	59.67	1.69	120.67	11.5
Kollam	37.55	1.06	138.46	13.19
Pathanamthitta	496.06	14.04	65.73	6.26
Alapuzha	591.93	16.76	121.72	11.6
Kottayam	1257.97	35.61	83.02	7.91
Ernakulam	149.74	4.24	97.11	9.25
Thrissur	614.46	17.4	138.28	13.17
Palakkad	31.52	0.89	65.04	6.2
Kozhikod	26.27	0.74	24.92	2.37
Wynad	94.39	2.67	23.42	2.23
Kannur	127.79	3.62	170.27	16.22
Kasaragod	44.88	1.27	1.07	0.1

Kottayam ranks first in estimated area under cultivation with 1257.97 ha. but ranks 7th only in respect of production. Kannur, though 6th in area ranks first in production with 170.27 tonnes, followed by Kollam with 138.46 tonnes from 37.55 ha. While holding only 10th position in estimated area under cultivation. As is in the case of green chilli, Curry leaf is not cultivated as a commercial crop in Kerala.

Chart- 24

Area and Production

(Area in ha
Production in tonnes)

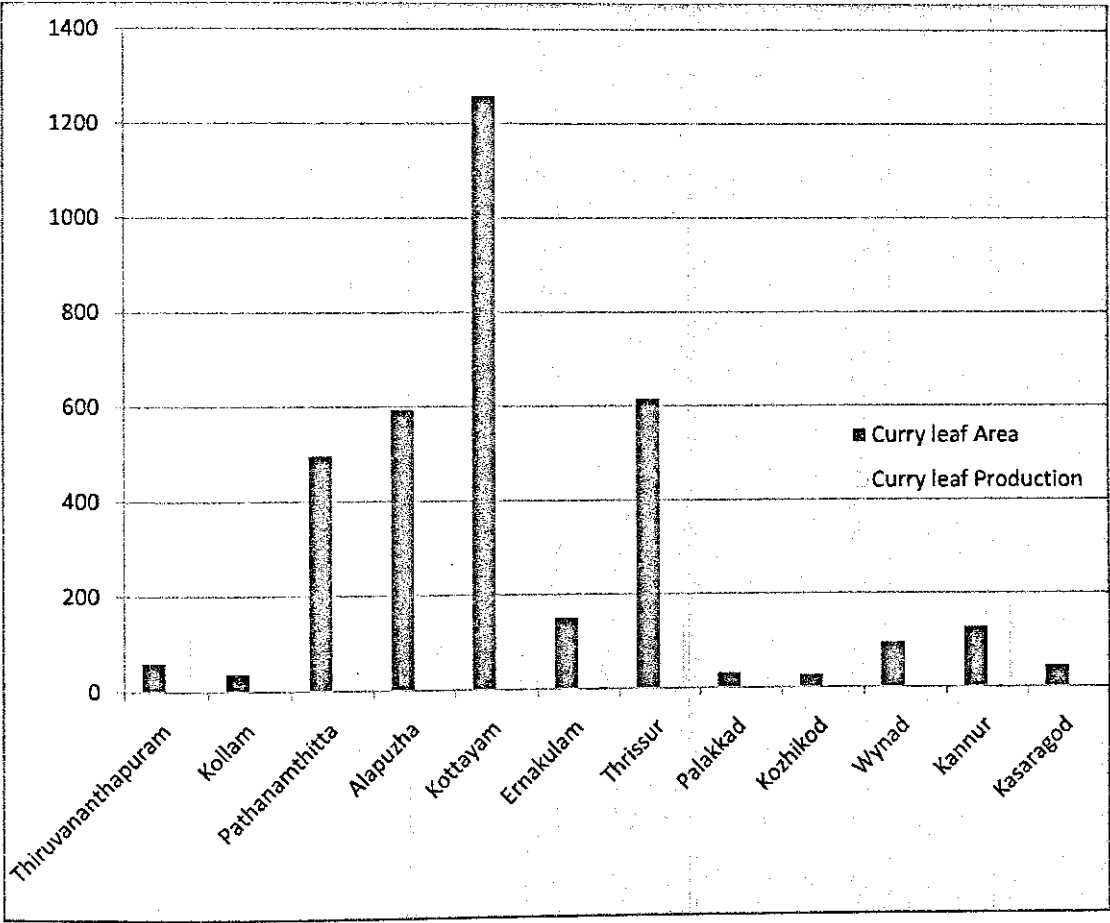
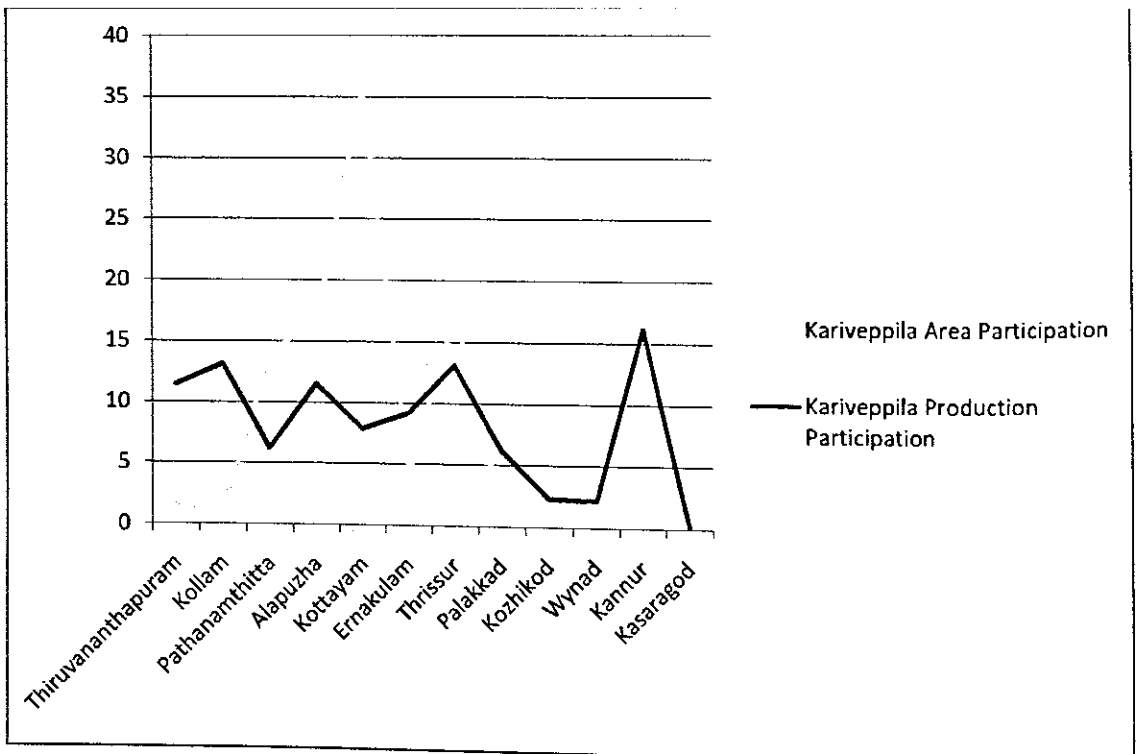


Chart -25**Area and Production participation**

(Area in ha
Production in tonnes)



Area, production and production participation of Small guard is given Table 32 and its diagrammatic representation is given in chart 25, 26 respectively

Table -32
Small guard

(Area in ha
Production in tonnes)

District	Area	Area Participation	Production	Production Participation
Thiruvananthapuram	34.85	5.41	109.51	6.8
Kollam	61.63	9.57	376.34	23.38
Pathanamthitta	143.61	22.29	195.69	12.16
Alapuzha	74.25	11.52	151.81	9.43
Kottayam	85.24	13.23	219.03	13.61
Ernakulam	40.3	6.25	115.71	7.19
Thrissur	92.64	14.38	92.4	5.74
Palakkad	14.91	2.31	79.06	4.91
Kozhikod	8.56	1.33	23.72	1.47
Wynad	22.64	3.51	21.7	1.35
Kannur	47.01	7.3	177.46	11.02
Kasaragod	18.68	2.9	47.36	2.94

Pathanamthitta has the highest area participation with 143.61 ha under Small guard cultivation, but has only 3rd position in production. Kollam, though having only 5th position in area participation with 9.57 %, claims first position with 23.38 % share in production. Productivity of Small guard is highest in Kollam, followed Kannur, Kottayam, Thiruvananthapuram and Ernakulam.

Chart- 26

(Area in ha
Production in tonnes)

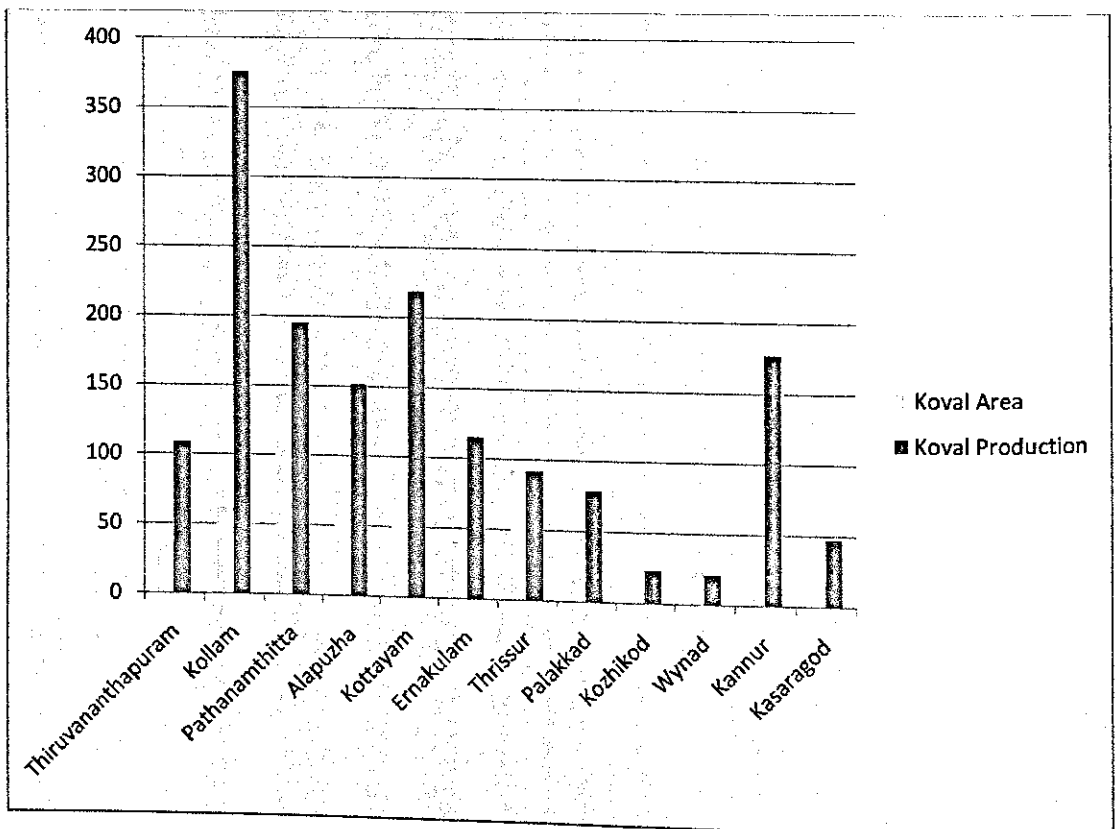
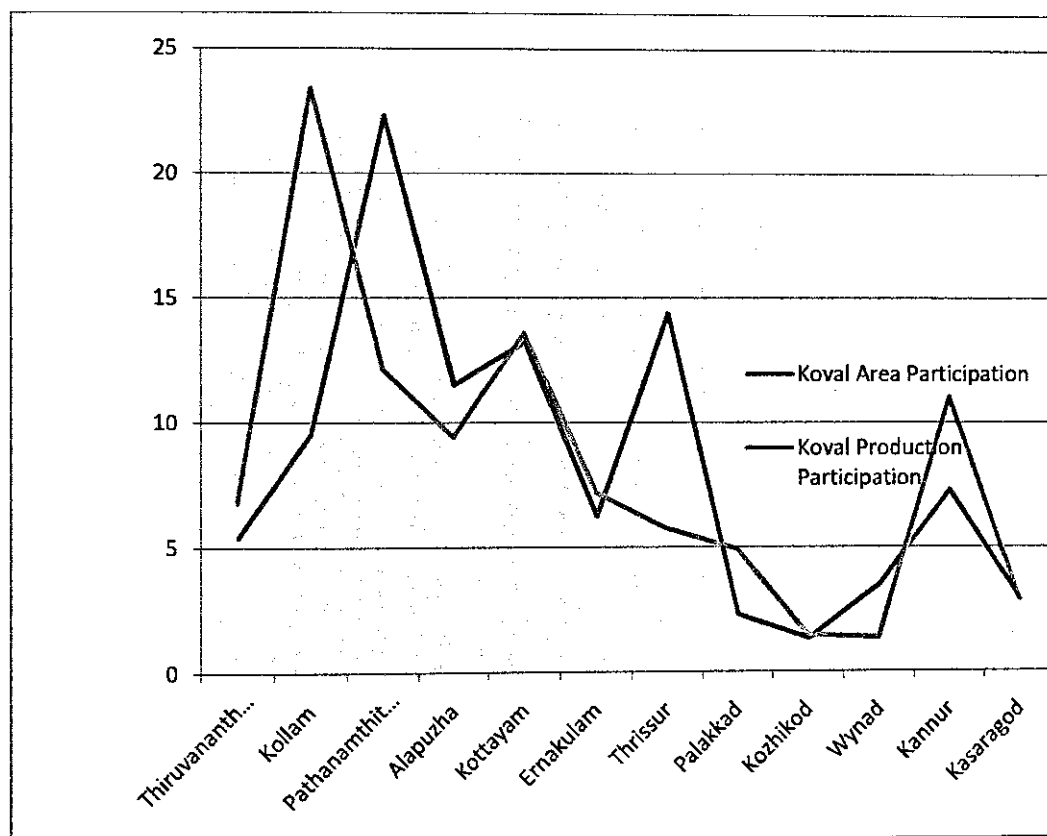


Chart- 27

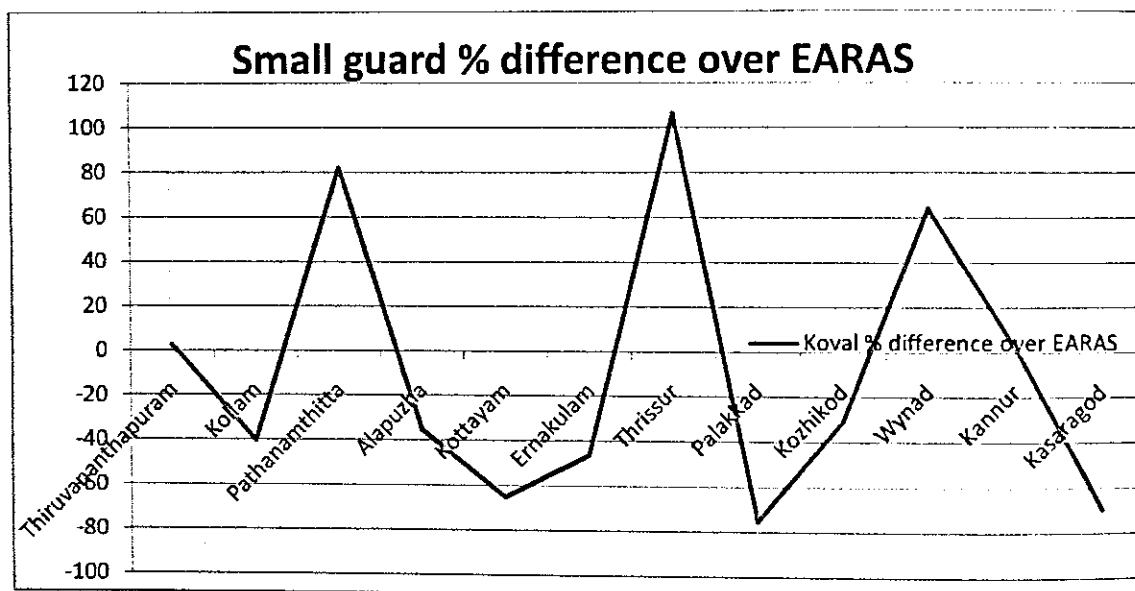
(Area in ha
production in tonnes)



Percentage difference in area estimated under cultivation of Small guard as per Horticulture survey data over EARAS is given chart 27.

Chart- 28

(Area in ha)



Area under Small guard cultivation as per Horticulture survey is above EARAS estimation in Pathanamthitta, Thrissur & Wynad districts. Thiruvananthapuram & Kannur districts show almost the same area in these two surveys.

Block wise season wise tables on Area and Production of vegetables is appended.

TABLE 33
Block wise Area and Area participation of Vegetables in Autumn Season

DISTRICT	BLOCK	Amaranth		Lady's finger		Bitter guard		Snake guard		Cucumber		Pumpkin		Ash guard		Brinjal		Cowpea	
		Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation
Thiruvananthapuram	Athiyannur	5.07	22.34	1.46	18.34	0.48	3.51	1.31	7.62	0.01	2.44	0.01	0.85			0.06	3.8	3.16	6.05
	Chirayinkeezhu	1.12	4.94	1.01	12.69	0.90	6.58	0.34	1.98	0.01	2.44	0.01	0.85			0.03	1.9	4.32	8.27
	Kilimanoor	1.91	8.42	0.75	9.42	0.40	2.93	0.47	2.73	0.02	4.88	0.01	0.85			0.01	0.63	5.01	9.59
	Nedumangad	0.30	1.32	0.40	5.03	0.23	1.68	0.53	3.08	0.01	2.44	0.01	0.85			0.03	1.9	1.74	3.33
	Nemom	3.62	15.95	1.01	12.69	0.86	6.29	4.66	27.11	0.03	7.32	0.01	0.85			0.41	25.95	13.19	25.25
	Parassala	2.81	12.38	0.65	8.17	1.25	9.14	2.01	11.69	0.04	9.76	0.01	0.85			0.02	1.27	4.98	9.53
	Perumkadavila	3.22	14.19	0.28	3.52	0.31	2.27	1.71	9.95	0.04	9.76	0.01	0.85			0.03	1.9	3.62	6.93
	Pothencode	0.39	1.72	0.11	1.38	0.81	5.93	0.76	4.42	0.11	26.83	0.12	10.17			0.02	1.27	3.50	6.7
	Vamanapuram	1.06	4.67	0.10	1.26	3.01	22.02	2.21	12.86	0.11	26.83		0			0.04	2.53	5.12	9.8
	Varkala	1.02	4.5	0.20	2.51	1.09	7.97	0.51	2.97	0	0	0.01	0.85			0.33	20.89	2.28	4.36
	Vellanad	0.41	1.81	0.43	5.4	1.80	13.17	1.40	8.14	0.01	2.44	0.01	0.85			0.18	11.39	1.19	2.28
	Typpm(C)	0.64	2.82	0.53	6.66	1.78	13.02	1.01	5.88	0.01	2.44	0.95	80.51			0.32	20.25	1.53	2.93
	Atingal (M)	0.25	1.1	0.10	1.26	0.13	0.95	0.11	0.64	0	0	0.00	0			0.01	0.63	0.78	1.49
	Nedumangad (M)	0.26	1.15	0.20	2.51	0.15	1.1	0.06	0.35	0	0	0.01	0.85			0.02	1.27	0.72	1.38
	Neyyattinkara (M)	0.32	1.41	0.63	7.91	0.26	1.9	0.03	0.17	0	0		0			0.03	1.9	0.80	1.53
	Varkala (M)	0.29	1.28	0.10	1.26	0.21	1.54	0.07	0.41	0.01	2.44	0.01	0.85			0.04	2.53	0.30	0.57
	Total	22.69	100	7.96		13.67		17.19		0.41		1.18		0.00	0	1.58		52.24	
KOLLAM	Anchal	14.41	63.51	3.77	10.99	3.47	8.95	1.53	6.23	2.09	8.13	0.58	11.58	1.32	9.34	1.33	4.88	2.30	39.25
	Chadayamangalam	6.68	29.44	2.41	7.02	2.30	5.93	1.76	7.17	2.2	8.56	0.64	12.77	1.52	10.76	1.86	6.83		0
	Chavara	0.24	1.06	1.53	4.46	1.13	2.92	0.04	0.16	0.83	3.23	0.00	0	0.62	4.39	0.34	1.25	0.51	8.7

		2.06	9.08	3.27	9.53	3.29	8.49	1.81	7.37	1.51	5.88	0.33	6.59	1.25	8.85	2.12	7.78	0.00	0
PATHANAMTHITTA	Chittumala																		
	Ithikkara	0.23	1.01	1.65	4.81	3.30	8.51	2.45	9.98	2.5	9.73	0.63	12.57	1.36	9.62	3.44	12.62		0
	Kottarakkara	5.11	22.52	2.31	6.73	6.23	16.07	3.20	13.03	3.21	12.49	0.54	10.78	1.54	10.9	2.17	7.96		0
	Mukthahala	2.16	9.52	2.60	7.58	2.51	6.48	2.43	9.9	4.25	16.54	0.46	9.18	1.45	10.26	3.83	14.06	0.08	1.37
	Oachira	1.17	5.16	6.15	17.92	2.90	7.48	0.56	2.28	1.18	4.59	0.67	13.37	0.95	6.72	1.24	4.55	1.98	33.79
	Pathanapuram	12.00	52.89	4.40	12.82	3.08	7.95	4.01	16.33	1.58	6.15	0.66	13.17	1.56	11.04	4.50	16.51	0.38	6.48
	Vettikavala	2.66	11.72	3.41	9.94	4.65	12	2.83	11.53	1.8	7	0.08	1.6	1.17	8.28	2.27	8.33	0.19	3.24
	Karunagappally (M)	1.32	5.82	1.84	5.36	1.23	3.17	0.95	3.87	1.45	5.64	0.00	0	0.10	0.71	0.86	3.16	0.12	2.05
	Paravoor (M)	0.20	0.88	0.18	0.52	1.65	4.26	1.41	5.74	1.05	4.09	0.00	0	0.32	2.26	1.53	5.61		0
	Punalloor (M)	1.42	6.26	0.36	1.05	1.47	3.79	0.93	3.79	1.04	4.05	0.29	5.79	0.52	3.68	0.95	3.49		0
ALAPUZZHA	Kollam (C)	0.71	3.13	0.43	1.25	1.55	4	0.64	2.61	1.01	3.93	0.13	2.59	0.45	3.18	0.81	2.97	0.30	5.12
	Total	50.37		34.31		38.76		24.55		25.7		5.01		14.13		27.25		5.86	
	Elanthur	10.55	25.73	6.14	16.73	20.75	24.47	8.89	37.85	5.22	29.9	5.81	11.92	8.35	18.23	6.12	11.39	0.74	3.37
	Koipram	7.66	18.68	7.04	19.18	14.29	16.85	2.93	12.47	2.27	13	7.87	16.15	6.79	14.82	6.88	12.81	3.09	14.07
	Konni	2.09	5.1	3.42	9.32	10.42	12.29	2.01	8.56	1.94	11.11	2.03	4.17	8.70	18.99	4.20	7.82	0.38	1.73
	Mallappally	18.45	45	13.14	35.79	30.40	35.84	6.08	25.88	3.95	22.62	19.67	40.37	10.30	22.48	18.36	34.18	5.46	24.86
	Pandalam	0.62	1.51	1.67	4.55	0.26	0.31	1.80	7.66	2.74	15.69	0.98	2.01	1.25	2.73	2.92	5.44	2.04	9.29
	Parakode	0.80	1.95	3.21	8.74	0.55	0.65	0.05	0.21	0.08	0.46	4.72	9.69	3.94	8.6	9.85	18.34	5.76	26.23
	Pulikeezhu	0.36	0.88	0.72	1.96	1.60	1.89	0.55	2.34	0.26	1.49	1.20	2.46	2.21	4.82	3.67	6.83	0.60	2.73
	Ranni	0.02	0.05	0.56	1.53	5.97	7.04	1.10	4.68	0.93	5.33	5.77	11.84	3.76	8.21	0.43	0.8	1.00	4.55
ALAPUZZHA	Adoor (M)	0.13	0.32	0.22	0.6		0		0		0		0		0	0.23	0.43	2.78	12.66
	Pathanamthitta (M)	0.07	0.17	0.37	1.01	0.25	0.29		0		0	0.06	0.12		0	0.72	1.34	0.08	0.36
	Thiruvalla (M)	0.25	0.61	0.22	0.6	0.32	0.38	0.08	0.34	0.07	0.4	0.62	1.27	0.51	1.11	0.33	0.61	0.03	0.14
	Total	41.00		36.71		84.81		23.49		17.46		48.73		45.81		53.71		21.96	
	Ambalapuzha	0.11	0.21	0.08	0.48	0.85	2.01	0.22	0.56		0		0		0	0.17	5.59	0.05	0.07
	Aryad	0.33	0.63	0.77	4.62	0.76	1.8	0.32	0.81	0.6	2.22	0.24	1.78	0.58	6.78	0.15	4.93	2.42	3.39
	Bharanikkavu	5.42	10.37	1.45	8.71	7.69	18.18	5.43	13.72	1.35	5.01	1.91	14.17	0.14	1.64	0.08	2.63	11.27	15.8
	Chambakkulam	0.51	0.98	0.20	1.2	0.33	0.78	0.20	0.51	3.41	12.64	0.04	0.3	0.04	0.47	0.04	1.32	5.15	7.22
	Chengannur	3.19	6.1	1.00	6.01	6.38	15.08	6.72	16.98	6.36	23.58	1.06	7.86	2.64	30.88	0.10	3.29	10.44	14.63
	Haripad	17.74	33.93	0.88	5.29	4.02	9.5	9.10	22.99	1.45	5.38	1.30	9.64	1.49	17.43	0.20	6.58	2.88	4.04

Kanjikuzhi	2.31	4.42	1.67	10.03	5.34	12.62	7.41	18.72	2.1	7.79	1.41	10.46	1.06	12.4	0.18	5.92	6.05	8.48
Mavelikkara	2.83	5.41	1.94	11.65	2.15	5.08	1.15	2.91	1.55	5.75	0.94	6.97	0.75	8.77	0.80	26.32	4.68	6.56
Muthukulam	5.41	10.35	0.77	4.62	1.24	2.93	4.69	11.85	2.02	7.49	1.34	9.94	0.88	10.29	0.09	2.96	12.03	16.86
Pattanakad	0.45	0.86	2.69	16.16	1.61	3.81	0.93	2.35	1.02	3.78	1.16	8.61	0.08	0.94	0.24	7.89	2.54	3.56
Thycaattussery	3.55	6.79	1.43	8.59	3.21	7.59	1.63	4.12	2.07	7.68	0.75	5.56		0	0.04	1.32	2.92	4.09
Veliyanad	0.01	0.02	0.01	0.06	2.15	5.08	0.94	2.37	3.91	14.5		0		0	0.00	0	4.96	6.95
Alappuzha (M)	0.22	0.42	0.11	0.66	0.91	2.15	0.22	0.56		0	0.06	0.45		0	0.21	6.91	0.03	0.04
Cherthala (M)	0.28	0.54	0.14	0.84	1.27	3	0.17	0.43	0.28	1.04		0		0	0.50	16.45	5.65	7.92
Chengannur (M)	0.45	0.86	0.27	1.62	1.25	2.95	0.08	0.2		0				0	0.24	7.89	0.07	0.1
Kayamkulam (M)	7.13	13.64	2.15	12.91	0.65	1.54	0.09	0.23	0.7	2.6	2.46	18.25	0.62	7.25	0.26	8.55	0.18	0.25
Mavelikkara (M)	2.34	4.48	1.09	6.55	2.50	5.91	0.28	0.71	0.15	0.56	0.81	6.01	0.27	3.16	0.03	0.99	0.03	0.04
Total	52.28		16.65		42.31		39.58		26.97		13.48		8.55		3.04		71.35	
Erattupetta	0.40	5.74	0.45	9.98	1.09	5.92	0.06	0.51	0.06	0.51	1.84	9.92	1.39	7.14	1.92	9.77	0.96	2.71
Etumanoor	0.15	2.15	0.15	3.33	0.91	4.94	0.96	8.15	0.96	8.15	1.03	5.55	0.27	1.39	0.49	2.49	2.45	6.91
Kaduthuruthy	1.59	22.81	0.45	9.98	5.52	29.97	4.12	34.97	4.12	34.97	1.98	10.67	2.20	11.3	1.23	6.26	7.62	21.48
Kanjirappally	0.35	5.02	0.72	15.96	1.62	8.79	0.09	0.76	0.09	0.76	2.69	14.5	4.69	24.09	4.27	21.72	1.49	4.2
Lalam	0.19	2.73	0.42	9.31	0.69	3.75	0.06	0.51	0.06	0.51	1.32	7.12	1.43	7.34	2.00	10.17	1.06	2.99
Madappally	1.71	24.53	0.45	9.98	1.70	9.23	2.60	22.07	2.6	22.07	3.42	18.44	1.72	8.83	1.01	5.14	8.03	22.64
Pallom	0.65	9.33	0.44	9.76	1.24	6.73	0.45	3.82	0.45	3.82	0.41	2.21	0.14	0.72	1.18	6	3.21	9.05
Pampady	0.12	1.72	0.28	6.21	0.59	3.2	0.29	2.46	0.29	2.46	1.31	7.06	1.76	9.04	1.32	6.71	1.62	4.57
Uzhavoor	0.61	8.75	0.57	12.64	3.63	19.71	2.98	25.3	2.98	25.3	1.85	9.97	3.49	17.93	3.71	18.87	6.94	19.57
Vaikom	0.64	9.18	0.11	2.44	0.55	2.99	0.13	1.1	0.13	1.1	0.79	4.26	0.38	1.95	0.74	3.76	1.21	3.41
Vazhoor	0.22	3.16	0.39	8.65	0.41	2.23	0.03	0.25	0.03	0.25	1.30	7.01	1.34	6.88	1.49	7.58	0.56	1.58
Changanacherry (M)	0.00	0	0.02	0.44	0.06	0.33	0.00	0	0	0	0.04	0.22	0.10	0.51	0.07	0.36	0.02	0.06
Kottayam (M)	0.24	3.44	0.01	0.22	0.05	0.27	0.00	0	0	0	0.00	0	0.00	0	0.03	0.15	0.31	0.87
Pala (M)	0.00	0	0.02	0.44	0.17	0.92	0.00	0	0	0	0.00	0	0.00	0	0.14	0.71	0.00	0
Vaikom (M)	0.11	1.58	0.04	0.89	0.19	1.03	0.02	0.17	0.02	0.17	0.61	3.29	0.58	2.98	0.07	0.36	0.00	0
Total	6.97		4.51		18.42		11.78		11.78		18.55		19.47		19.66		35.47	
Alengad	0.77	14.53		0			0	0		0		0		0	0.82	11.34	1.70	5.96
Angamali	0.92	3.21		0	0	0	0	0	0	0		0	0	0		0	2.10	7.36

KOTTAYAM

AKU
LAM

Kodakara	2.41	5.91	0.39	3.63	2.09	0.96	0.17	0.42	0.05	0.11	4.01	6.24	1.42	2.4	1.20	4.11	5.72	5.65
Mala	5.59	13.73	0.53	4.85	2.41	1.11	2.34	5.78	1.07	2.41	8.21	12.78	2.48	4.19	2.89	9.88		0
Mathilakom	0.33	0.81	0.28	2.58	0.49	0.23	0.24	0.59		0	0.76	1.18	0.40	0.68	0.06	0.2		0
Mullassery	1.00	2.46	0.15	1.38	3.91	1.8	0.34	0.84	0.29	0.65	1.03	1.6	1.83	3.09	0.13	0.44		0
Ollukkara	14.90	36.61	0.40	3.72	53.26	24.46	1.61	3.98	2.24	5.05	4.29	6.68	2.15	3.63	5.25	17.9		0
Pazhayannur	2.44	5.99	0.33	3	73.49	33.75	16.10	39.77	5.8	13.09	8.12	12.64	11.36	19.21	2.12	7.25	25.12	24.79
Puzhakkal	0.49	1.2	0.58	5.33	3.00	1.38	0.85	2.1	0.7	1.58	3.13	4.87	1.61	2.72	1.75	5.97		0
Thalikkulam	0.32	0.8	0.18	1.66	6.20	2.85	1.41	3.48	3.35	7.56	3.62	5.63	1.37	2.32	0.53	1.81	0.63	0.62
Vellangallur	1.79	4.39	0.69	6.33	3.42	1.57	1.33	3.29	0.07	0.16	4.49	6.99	2.12	3.58	1.75	5.97		0
Wadakkancherry	2.31	5.68	0.24	2.17	45.47	20.88	5.97	14.75	18.9	42.64	8.37	13.03	12.80	21.64	1.38	4.71	52.22	51.54
Thrissur Corporation	1.24	3.04	0.92	8.47	5.15	2.37	2.94	7.26	1.33	3	2.04	3.18	1.36	2.3	3.20	10.9		0
Chalakkudy (M)	0.01	0.02	0.49	4.52	0.00	0		0		0	0.12	0.19	0.06	0.1	0.32	1.1		0
Chavakkad (M)	0.33	0.81	0.08	0.74	0.77	0.35	0.34	0.84	0.83	1.87	0.48	0.75	1.04	1.76	0.02	0.07		0
Guruvayoor (M)	0.68	1.67	0.08	0.74	1.97	0.9	0.32	0.79	1.38	3.11	0.96	1.49	1.36	2.3	0.06	0.2		0
Iringalakuda (M)	0.00	0	0.63	5.76	0.54	0.25	0.01	0.02		0	0.13	0.2	0.21	0.36	0.51	1.74	0.19	0.19
Kodungallur (M)	0.00	0	0.01	0.09	0.00	0		0		0		0		0		0		0
Kunnamkulam (M)	2.35	5.79	0.37	3.36	1.85	0.85	0.65	1.61	0.68	1.53	0.72	1.12	4.36	7.37	1.23	4.21	3.39	3.35
Total	40.69		10.85		217.73		40.48		44.32		64.25		59.15		29.31		101.32	
Alathur	5.14	14.67	8.88	5.75	9.50	5.55	6.49	12.4	0.07	0.08	16.73	9.9	7.99	6.24	10.03	14.17	37.00	6.18
Attappady	1.33	3.8	13.61	8.81	1.55	0.91	1.50	2.87	1.6	1.85	3.66	2.17	0.09	0.07	3.65	5.16	213.00	35.61
Chittoor	2.06	5.88	69.14	44.78	63.26	36.94	3.60	6.88	3.82	4.42	10.26	6.07	2.17	1.7	18.90	26.71	110.00	18.39
Kollengode	1.58	4.51	5.66	3.67	30.82	18	4.51	8.62	20.78	24.03	22.81	13.5	12.00	9.38	4.76	6.73	21.00	3.51
Kozhalmannam	3.45	9.85	8.64	5.6	6.46	3.77	3.01	5.75	1.44	1.66	15.83	9.37	27.91	21.81	8.11	11.46	17.50	2.93
Malamputha	3.68	10.51	14.01	9.07	8.50	4.96	1.99	3.8	0.72	0.83	8.45	5	8.33	6.51	1.06	1.5	85.00	14.21
Mannarkkad	0.50	1.43	1.40	0.91	0.95	0.55	0.68	1.3	2	2.31	0.44	0.26	0.29	0.23	1.21	1.71	34.00	5.68
Nenmara	0.60	1.71	8.29	5.37	18.59	10.85	17.24	32.95	0.3	0.35	6.00	3.55	0.56	0.44	2.28	3.22	30.50	5.1
Ottappalam	2.00	5.71	9.38	6.07	9.12	5.33	3.77	7.21	16	18.5	20.59	12.19	16.91	13.21	6.49	9.17	7.30	1.22

PALAKKAD

Horticulture Survey 2010-11

Palakkad	3.53	10.08	2.97	1.92	7.41	4.33	1.08	2.06	2.16	2.5	13.26	7.85	7.88	6.16	2.43	3.43	22.20	3.71
Pattambi	4.97	14.19	3.21	2.08	3.85	2.25	1.70	3.25	11.05	12.78	20.41	12.08	16.87	13.18	4.65	6.57	3.71	0.62
Sreekrishnapuram	0.99	2.83	1.33	0.86	3.24	1.89	2.48	4.74	12.09	13.98	10.94	6.47	4.61	3.6	2.21	3.12	8.50	1.42
Thrithala	2.11	6.02	2.67	1.73	1.35	0.79	1.28	2.45	7.67	8.87	8.64	5.11	15.09	11.79	2.50	3.53	2.06	0.34
Chittoor (M)																		
Thathamangalam (M)	0.29	0.83	3.09	2	1.46	0.85	0.68	1.3		0	1.25	0.74	0.01	0.01	0.40	0.57	0.35	0.06
Ottapalam (M)	0.26	0.74	0.38	0.25	0.75	0.44	1.44	2.75	2	2.31	4.57	2.7	3.53	2.76	0.38	0.54	2.37	0.4
Palakkad (M)	2.15	6.14	0.09	0.06	1.84	1.07	0.20	0.38		0	1.13	0.67	0.31	0.24	0.00	0	1.37	0.23
Shornur (M)	0.39	1.11	1.66	1.08	2.61	1.52	0.67	1.28	4.79	5.54	4.00	2.37	3.43	2.68	1.70	2.4	2.37	0.4
Total	35.03	154.41			171.26		52.32		86.49		168.97		127.98		70.76		598.23	
Balussery	1.87	11.18	0.88	22.39	0.08	4.1	0.00	0	0.011	0.28	0.26	2.35	0.40	6.78	0.28	18.54		0
Chelannur	2.23	13.34	0.23	5.85	0.03	1.58	0.01	20	0.213	5.31		0	0.06	1.02	0.06	3.97		0
Koduvally	2.28	13.64	0.04	1.02	0.24	12.61	0.00	4.67	0.241	6.01	1.91	17.24	1.87	31.72	0.21	13.91		0
Kozhikkode	0.16	0.96	0.95	24.17	0.08	4.42	0.00	10.33		0	3.49	31.5	0.18	3.05	0.06	3.97		0
Kunnamangalam	1.25	7.48	0.30	7.63	0.05	2.84	0.00	0	0	0	0.60	5.42	0.27	4.52	0.19	12.58		0
Kunnummel	0.41	2.45	0.02	0.51	0.21	11.04	0.00	2.67	1.852	46.29	0.51	4.6	1.05	17.87	0.01	0.66		0
Melady	1.26	7.54	0.06	1.53	0.08	3.94	0.00	11.67	0.134	3.36	0.65	5.87	0.21	3.54	0.17	11.26		0
Panthalayini	0.23	1.38	0.14	3.56	0.18	9.62	0.01	26	0.587	14.69	0.46	4.15	0.27	4.52	0.04	2.65	1.70	100
Perambra	3.33	19.92	0.08	2.04	0.13	6.94	0.01	19.33	0.213	5.32	0.08	0.72	0.17	2.94	0.03	1.99		0
Thodannoor	0.01	0.06	0.05	1.27		0		0		0		0	0.21	3.51		0		0
Thuneri	2.29	13.7	0.67	17.05	0.60	31.38	0.00	15.67	0.604	15.11	1.21	10.92	1.58	26.69	0.37	24.5		0
Vadakara	0.00	0	0.02	0.51	0.12	6.15		0		0		0	0.00	0		0		0
Kozhikkode (C)	1.39	8.31	0.48	12.21	0.01	0.63	0.00	2	0.022	0.56	1.69	15.25	0.00	0	0.09	5.96		0
Quilandy (M)	0.01	0.06	0.01	0.25	0.09	4.73	0.00	6.33	0.123	3.08	0.22	1.99	0.15	2.49		0		0
Total	16.72		3.93		1.92		0.03		4		11.08		5.90		1.51		1.70	
Kalpatta	4.08	59.3	1.14	35.74	3.76	54.73	2.30	51.22	0.1	3.75	35.51	51.23	13.48	57.88	2.11	29.68	5.60	34.06
Mananthavady	0.40	5.81	0.45	14.11	0.70	10.19	0.35	7.8	0.3	11.24	2.65	3.82	1.60	6.87	0.25	3.52	3.90	23.72
Panamaram	1.76	25.58	0.67	21	1.00	14.56	1.27	28.29	1.28	47.94	28.33	40.87	7.68	32.98	4.22	59.35	5.49	33.39
Sulthan Bathery	0.11	1.6	0.77	24.14	0.37	5.39	0.18	4.01	0.99	37.08	0.82	1.18		0	0.42	5.91	0.00	0
Kalpatta (M)	0.53	7.7	0.16	5.02	1.04	15.14	0.39	8.69		0	2.00	2.89	0.53	2.28	0.11	1.55	1.45	8.82

KOZHICKODE

WAYANAD

		6.88	3.19	6.87	4.49	2.67	69.31	23.29	7.11	16.44
Total		0.85	0.39	1.01	0.39	11.14	0.23	0.70	0.14	2.82
KANNUR	Edakkad	1.83	0.06	3.83	0.81	23.14	2.45	1.25	0.09	1.81
	Irikkur	2.06	0.18	2.56	0.40	11.43	1.87	1.90	0.18	3.63
	Iritty	0.38	0.64	0.25	0.26	7.43	0.02	0.80	0.27	5.44
	Kallisseri	1.72	1.62	0.44	0.28	8	0.04	1.12	0.82	0.66
	Kannur	1.25	5.19	0	0	7.49	0	1.79	0.02	0.4
	Koothuparamba	1.02	4.23	0.53	0.13	3.71	0	0.12	0.10	2.02
	Panoor	0.85	3.53	0.72	0.96	9.96	0.37	0.02	0.14	0.57
	Payyannur	1.30	5.39	3.55	0.14	4	1.30	1.94	0.84	16.94
	Peravoor	8.04	33.36	1.05	0.60	17.14	1.20	3.55	0.77	15.52
	Thalasseri	4.80	19.92	5.98	0.41	11.71	0.90	0.83	1.16	23.39
Total		24.10	7.23	19.20	3.50	11.88	8.50	14.02	4.96	8.61
KASARGODE	Kanhangad	0	0	0.19	0	0	0.00	0	0.19	6.55
	Kasaragod	2.98	19.4	0.57	0.60	15.04	0.97	2.06	0.46	15.86
	Karadukka	0.38	2.47	1.64	0.43	10.78	1.09	1.32	0.77	26.55
	Manjeswar	12.00	78.13	2.19	2.96	74.19	6.90	7.33	1.27	43.79
	Parappa	0	0.21	3.11	0	0	0	0	0.21	7.24
	Kasaragod (M)	0.00	0	0.01	0.00	0	0	0	0.00	0
	Total	15.36	6.75	4.61	3.99	26.93	8.96	10.71	2.90	0.40

TABLE 34
Block wise Area and Area participation of Vegetables in Winter season

DISTRICT	BLOCK	Amaranthus		Lady's finger		Bitterguard		Snake guard		Cucumber		Pumpkin		Ashguard		Brinjal		Cowpea	
		Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation
Thiruvananthapuram	Athiyannur	7.17	19.3	0.81	5.45	0.24	0.48	1.94	6.34	1.79	16.5	0.2	3.8	0.1	3.58	1.00	3.71	3.41	6.38
	Chirayinkeezhu	2.43	6.57	0.5	3.37	0.34	0.68	0.48	1.57	0.15	1.38	0.2	3.8	0	0	1.80	6.67	4.22	7.9
	Killimanoor	3.82	2	0.25	1.68	6.20	8	0.60	1.96	0.45	4.15	0.65	12.33	2.12	75.9	2.00	7.41	5.11	9.57
	Nedumangad	0.66	1.78	0.42	2.83	5.06	10.1	0.72	2.35	0.45	4.15	0.45	8.54	0.01	0.36	2.00	7.41	1.86	3.48
	Nemom	7.31	5	3.79	2	18.18	9	6.81	22.26	0.51	4.7	0.49	9.3	0.2	7.17	3.60	13.34	13.16	24.63
	Parassala	3.06	8.27	2.5	4	0.31	0.62	3.86	12.62	0.01	0.09		0	0.08	2.87	3.52	13.05	4.96	9.28
	Perumkadavila	3.06	8.27	1.28	8.62	1.11	2.23	2.86	9.35	0.98	9.03	0.29	5.5	0.01	0.36	1.72	6.38	3.74	7
	Pothencode	0.78	2.11	0.31	2.09	0.82	1.65	0.70	2.29	0.24	2.21	0.21	3.98	0.06	2.15	2.48	9.19	3.52	6.59
	Vamanapuram	2.01	5.43	0.34	2.29	5.17	10.4	3.15	10.3	1.10	10.14	0.28	5.31	0.05	1.79	0.37	1.37	5.06	9.47
	Varkala	2.08	5.62	0.85	5.72	1.30	2.62	0.63	2.06	1.19	10.97	0.2	3.8	0.04	1.43	2.42	8.97	2.24	4.19
Kollam	Vellanad	1.08	2.92	1.2	8.08	1.20	2.41	1.96	6.41	1.57	14.47	0.67	12.71	0.07	2.51	2.28	8.45	2.23	4.17
	Thiruvananthapuram(C)	1.29	3.49	1.36	9.16	1.31	2.64	6.32	20.66	1.73	15.94	1.48	27.7	0.01	0.36	2.68	9.93	1.27	2.38
	Atingal (M)	0.51	1.38	0.12	0.81	1.61	3.24	0.10	0.33	0.15	1.38	0.03	0.57	0.01	0.36	0.35	1.3	0.72	1.35
	Nedumangad (M)	0.53	1.43	0.38	2.56	4.42	8.9	0.15	0.49	0.15	1.38	0.08	1.52	0.01	0.36	0.30	1.11	0.70	1.31
	Neyyattinkara (M)	0.64	1.73	0.34	2.29	1.61	3.24	0.18	0.59	0.20	1.84	0.03	0.57	0.01	0.36	0.29	1.07	0.82	1.54
Kollam	Varkala (M)	0.58	1.57	0.4	2.69	0.81	1.63	0.13	0.42	0.18	1.66	0.03	0.57	0.01	0.36	0.17	0.63	0.40	0.75
	Total	37.01	14.85			49.69		30.59		10.85		5.27		2.79	10.5	26.98		53.42	
Kollam	Anchal	15.48	3	7.79	8	8.49	2	3.76	8.52	2.85	9.17	0.42	10.74	2.53	7	4.78	10.24	3.76	25.27

Chadayamangala m	5.42	6.14	5.24	9	3.66	7.08	3.66	8.3	3.15	10.14	0.29	7.42	2.54	10.6 1	1.81	3.88	0.00	0
Chavara	2.01	2.28	2.71	4.65	2.96	5.72	1.56	3.54	0.55	1.77		0	0.16	0.67	3.26	6.99	2.11	14.18
Chittumala	6.59	7.46	4.9	8.41	2.15	4.16	3.16	7.16	2.97	9.56	0.13	3.32	2.78	11.6 2	2.95	6.32	0.00	0
Ithikara	4.84	5.48	6.66	4	3.34	6.46	2.79	6.33	2.36	7.8	0.15	3.84	2.25	9.4	3.32	7.12	0.00	0
Kottarakkara	6.7	7.59	4.22	7.25	6.79	3	4.32	9.79	4.80	15.45	0.1	2.56	3.52	14.7 1	4.39	9.41	0.00	0
Mukhathala	3.36	3.81	2.98	5.12	3.29	6.36	3.36	7.62	3.12	10.04	0.07	1.79	2.65	11.0 7	3.27	7.01	0.00	0
Oachira	11.62	13.1 6	5.73	9.84	3.61	6.98	2.91	6.6	1.54	4.96		0	1.12	4.68	4.46	9.56	7.65	51.41
Pathanapuram	14.77	16.7 3	5.6	9.62	4.63	8.95	6.15	13.94	2.12	6.82	1.88	48.08	2.86	11.9 5	6.74	14.44	0.46	3.09
Vetikavala	8.43	9.55	5.88	10.1	6.25	9	4.06	9.2	3.21	10.33	0.54	13.81	3.3	13.7 9	3.32	7.12	0.00	0
Karunagappally(M)	3.09	3.5	2.94	5.05	2.49	4.82	1.80	4.08	1.21	3.89		0	0.1	0.42	1.84	3.94	0.35	2.35
Paravoor(M)	1.25	1.42	1.17	2.01	1.35	2.61	2.50	5.67	1.36	4.38		0	0.01	0.04	1.98	4.24	0.00	0
Punaloor(M)	2	2.27	1.01	1.73	2.08	4.02	2.60	5.89	0.85	2.74	0.33	8.44	0.01	0.04	2.17	4.65	0.00	0
Kollam @	2.73	3.09	1.41	2.42	0.62	1.2	1.48	3.36	0.98	3.15		0	0.1	0.42	2.37	5.08	0.55	3.7
Total	88.29		58.24		51.71		44.11		31.07		3.91		23.93		46.66		14.88	
Elanthur	8.73	11.7	5.31	6	12.42	8	5.49	17.51	11.73	31.65	3.59	14.88	9.59	18.5 3	5.92	12.96	2.02	10.99
Koipram	11.41	15.2 9	9.02	7	11.26	7	5.86	18.69	3.21	8.66	3.94	16.33	7.71	14.9 17.4	6.71	14.69	1.13	6.15
Konni	3.02	4.05	3.77	8.35	10.81	2	1.60	5.1	5.94	16.03	4.6	19.06	9.02	33.6 4	4.17	9.13	0.67	3.65
Mallappally	21.56	28.8 9	22	48.7	31.36	38.0 7	11.68	37.24	6.50	17.54	3.53	14.63	17.41		18.19	39.81	4.85	26.39
Pandalam	4.83	6.47	1.12	2.48	5.33	6.47	0.39	1.24	1.09	2.94	1.65	6.84	1.08	2.09	1.58	3.46	0.72	3.92
Parakode	7.44	9.97	1.51	3.34	3.74	4.54	5.00	15.94	2.49	6.72	1.33	5.51	0.79	1.53	4.63	10.13	2.53	13.76
Pulikeezhu	5.23	7.01	0.49	1.09	1.05	1.27	0.09	0.29	0.34	0.92	1.35	5.59	1.9	3.67	1.55	3.39	0.83	4.52
Ranni	3.57	4.78	0.39	0.86	3.35	4.07	0.90	2.87	5.50	14.84	2.73	11.31	3.36	6.49	0.45	0.98	5.33	29
Adoor (M)	1.18	1.58	0.22	0.49	1.33	1.61	0.13	0.41	0.10	0.27	0.06	0.25	0.05	0.1	0.17	0.37	0.14	0.76
Pathanamthitta (M)	6.04	8.09	1.1	2.44	1.40	1.7	0.22	0.7	0.09	0.24	0.76	3.15	0.22	0.43	2.07	4.53	0.16	0.87
Thiruvalla (M)	1.62	2.17	0.23	0.51	0.32	0.39		0	0.07	0.19	0.59	2.45	0.62	1.2	0.25	0.55	0.00	0

Pathanamthitta

Horticulture Survey 2010-11

Horticulture Survey 2010-11																	
Total	74.63		45.16	82.37		31.36		37.06		24.13		51.75		45.69		18.38	
Ambalapuzha	4.28	6.49	0.73	2.93	2.97	4.72		2.23		2.26		7.63		4.74	1.41	4.64	2.35
Aryad		8.26	2	8.03	1.12	1.78	1.22	2.67		3.04	0.24	1.71		4.83	1.80	5.93	7.57
Bharanikkavu	1.81	2.74	0.71	2.85	11.88	18.8	5.18	11.35		4.6	1.83	13.05	1.87	15.5	6	1.50	21.11
Chambakkulam	0.68	1.03	0.1	0.4	3.09	4.91	0.47	1.03		14.32	0.1	0.71		0	0.03	0.1	1.02
Chengannur	3.73	5.65	3.92	15.7	9.42	14.9	8	24.73		35.63	1.61	11.48	3.75	31.2	6.25	20.59	10.91
Harippad	2.36	3.58	0.34	1.36	2.27	3.61	1.40	3.07		1.52	0.18	1.28	0.42	3.49	0.50	1.65	10.52
Kanjikuzhi	13.32	20.1	8	24.2	13.30	21.1	4	22.26		7.25	2.86	20.4	0.62	5.16	2.68	8.83	13.87
Mavelikkara	2.35	3.56	0.81	3.25	2.54	4.04	3.30	7.23		6.34	3.03	21.61	1.13	9.4	1.09	3.59	6.44
Muthukulam	0.65	0.98	0.3	1.2	1.84	2.93	1.24	2.72		0.69		0	0.21	1.75	0.93	3.06	6.8
Pattanakad	8.71	13.2	3.25	13.0	3.98	6.33	3.48	7.62		1.09	4.73	1.1	7.85	1.58	1.68	5.53	3.31
Thycaattussery	10.51	15.9	3	19.5	3.71	5.9	2.73	5.98		3.18	13.8	1.52	10.84	1.5	8	10.72	2.58
Veliyanad	1.33	2.02	0.1	0.4	0.89	1.41	0.53	1.16		0.56	2.43	0.07	0.5	0.01	0.06	0.2	6.39
Alappuzha (M)	2.89	4.38	0.39	1.57	1.05	1.67	2.18	4.78		0.33	1.43	0.06	0.43	0.56	4.66	0.81	1.4
Cherthala (M)	1.29	1.95	0.28	1.12	1.60	2.54	0.91	1.99		0.28	1.22		0		0	0.31	5.31
Chengannur (M)	0.77	1.17	0.3	1.2	1.10	1.75	0.09	0.2			0		0		0	0.33	0.08
Kayamkulam (M)	2.15	3.26	0.2	0.8	1.39	2.21	0.22	0.48		0.09	0.39	0.17	1.21	0.23	1.91	0.25	0.04
Mavelikkara (M)	0.9	1.36	0.56	2.25	0.75	1.19	0.23	0.5		0.08	0.35	0.18	1.28	0.38	3.16	0.01	0
Total	65.99		24.91		62.90		45.65			23.04		14.02		12.02		30.36	97.65
Erattupetta	2.18	5.69	2.23	9.9	6.56	5.94	0.79	0.52		0.08	0.36	1.47	9.91	1.25	7.14	2.56	7.46
Ettumanoor	0.8	2.09	0.76	3.37	5.47	4.95	12.47	8.14		0.57	2.55	0.82	5.53	0.24	1.37	0.65	12.24
Kaduthuruthy	8.72	22.7	5	9.9	33.09	29.9	4	35		2.42	10.84	1.58	10.65	1.98	11.3	1.64	38.10
Kanjirappally	1.92	5.01	3.59	15.9	9.74	8.81	1.18	0.77		0.07	0.31	2.15	14.49	4.22	24.0	5.70	21.73
Lalam	1.05	2.74	2.09	9.28	4.12	3.73	0.74	0.48		0.48	2.15	1.06	7.14	1.28	7.31	2.67	7.46
Madappally	9.38	24.4	7	2.23	10.18	9.21	33.74	22.03		5.96	26.7	2.73	18.4	1.54	8.79	1.35	5.14
																	40.13
																	22.63

Alappuzha

Kottayam

Pallom	3.59	9.37	2.21	9.81	7.45	6.74	5.84	3.81	4.07	18.23	0.32	2.16	0.13	0.74	1.57	6	16.03	9.04
Pampady	0.67	1.75	1.4	6.21	3.55	3.21	3.77	2.46	2.01	9.01	1.05	7.08	1.58	9.02	1.76	6.71	8.09	4.56
Uzhavoor	3.37	8.79	2.86	12.6	21.77	19.7	38.69	25.26	5.84	26.16	1.48	9.97	3.136	17.9	4.94	18.86	34.70	19.57
Vaikom	3.5	9.13	0.53	2.35	3.30	2.99	1.63	1.06	0.44	1.97	0.63	4.25	0.337	1.93	0.98	3.75	6.03	3.4
Vazhoor	1.2	3.13	1.97	8.74	2.48	2.24	0.34	0.22	0.35	1.57	1.04	7.01	1.206	6.88	1.98	7.55	2.78	1.56
Changanacherry (M)	0.01	0.03	0.1	0.44	0.34	0.31	0.01	0.01	0.00	0	0.03	0.2	0.09	0.51	0.09	0.35	0.12	0.06
Kottayam (M)	1.31	3.42	0.05	0.22	0.32	0.29	0.06	0.04	0.00	0	0	0	0	0	0.04	0.17	1.57	0.88
Pala (M)	0.02	0.05	0.12	0.53	1.03	0.93	0.01	0.01	0.00	0	0	0	0	0	0.18	0.69	0.02	0.01
Vaikom (M)	0.62	1.62	0.19	0.84	1.12	1.01	0.29	0.19	0.02	0.09	0.48	3.23	0.522	2.98	0.09	0.35	0.01	0
Total	38.33		22.53		110.52		153.1		22.32		14.84		17.51		26.21		177.35	
Alengad	2.07	3.5	0.75	4.17	2.82	4.86	1.35	4.96	1.20	6.07	0.14	0.6	1.15	2.82	0.86	3.94	1.80	4.6
Angamali	3.47	5.87	1.61	8.96	7.83	13.4	2.10	7.71	2.43	12.29	0.22	0.94	4.15	10.1	1.98	9.07	2.20	5.63
Edappally	3.02	5.11	0.17	0.95	1.23	2.12		0	0.20	1.01	0.96	4.1	0.95	2.33	0.46	2.11	1.20	3.07
Koovappady	1.26	2.13	0.4	2.23	1.24	2.14	0.08	0.29	2.18	11.02	0.97	4.14	3.15	7.72	2.87	13.14	0.73	1.87
Kothamangalam	3	5.07	0.76	4.23	3.11	5.36	1.92	7.05	0.07	0.35	1.45	6.19	1.9	4.65	0.78	3.57	1.28	3.27
Moovattupuzha	4.73	8	1.84	10.2	4.76	8.2	0.30	1.1	1.30	6.57	1.57	6.7	1.82	4.46	2.48	11.36	3.16	8.08
Mulanthuruthy	1.67	2.82	0.95	5.29	5.00	8.61	1.58	5.8	0.40	2.02	2.57	10.97	1.05	2.57	1.00	4.58	4.42	11.3
Palluruthy	3.04	5.14	0.49	2.73	1.25	2.15	0.95	3.49	0.21	1.06	1.27	5.42	0.56	1.37	0.11	0.5	0.60	1.53
Pampakkuda	9.25	15.6	5	19.5	12.21	21.0				33.37	3.1	13.24	2.63	6.44	3.05	13.97	5.00	12.79
Parakadavu	6.91	11.6	10.6	10.6	3.50	6.03				8.59	1.27	5.42	4.69	11.4	0.59	2.7	0.16	0.41
Paravur	1.56	2.64	0.26	1.45	0.08	0.14	0.84	3.08	0.15	0.76		0		0	0.35	1.6	1.10	2.81
Vadavukkode	2.04	3.45	0.08	0.45	0.57	0.98	0.10	0.37	0.70	3.54	0.52	2.22	4.35	10.6	2.91	13.32	0.00	0
Vazhakkulam	2.52	4.26	1.18	6.57	4.45	7.67	0.85	3.12	1.59	8.04	0.76	3.25	3.15	7.72	1.20	5.49	2.25	5.75
Vypin	4.62	7.81	0.19	1.06	0.24	0.41	0.18	0.66	0.00	0	0.01	0.04	0.07	0.17	0.04	0.18	2.00	5.12
Kochi (C)	1.98	3.35	0.32	1.78	1.44	2.48	0.67	2.46	0.08	0.4	0.7	2.99	0.96	2.35	0.83	3.8	1.30	3.32
Angamaly (M)	0.14	0.24	1	5.56	1.50	2.58	3.25	11.93	0.07	0.35	4.04	17.25	5.47	13.4	0.20	0.92	2.25	5.75
Aluva (M)	0.22	0.37	0.05	0.28	0.40	0.69	0.35	1.28	0.04	0.2	0.05	0.21	0.52	1.27	0.23	1.05	1.10	2.81

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Eloor (M)	0.06	0.1	0.06	0.33		0		0		0	0.06	0.26		0		0	0.40	1.02
Kalamassery (M)	1.23	2.08	0.15	0.83	0.48	0.83		0	0.12	0.61	0.28	1.2	0.62	1.52	0.34	1.56	1.20	3.07
Kothamangalam (M)	0.43	0.73	0.09	0.5	0.46	0.79	0.46	1.69		0	0.52	2.22	0.82	2.01	0.06	0.27	1.10	2.81
Maradu (M)	1.73	2.93	1.1	6.12	0.94	1.62	0.46	1.69	0.00	0	0.82	3.5	0.55	1.35	0.17	0.78	0.50	1.28
Moovattupuzha (M)	0.01	0.02	0.17	0.95	0.84	1.45	0.02	0.07	0.07	0.35	0.57	2.43	0.03	0.07	0.38	1.74	1.75	4.48
North Paravur (M)	0.1	0.17	0.18	1		0	0.02	0.08		0		0		0	0.22	1.01	0.90	2.3
Perumbavoor (M)	0.56	0.95	0.04	0.22	0.25	0.43	0.10	0.37	0.54	2.73	0.05	0.21	0.19	0.47	0.13	0.6	1.10	2.81
Thrikkakkara (M)	1.44	2.44	0.18	1	1.18	2.03	0.39	1.43	0.02	0.1	0.65	2.78	0.85	2.08	0.21	0.96	0.70	1.79
Thrippunithura (M)	2.06	3.48	0.51	2.84	2.27	3.91	1.36	4.99	0.11	0.56	0.87	3.71	1.19	2.92	0.39	1.79	0.90	2.3
Total	59.12	16.2	17.97		58.05		27.24		19.78		23.42		40.82		21.84		39.10	
Anthikkad	9.57	8	4.38	8.71	4.14	7.23	2.24	10.22	1.60	4.95	6.57	10.18	1.52	2.5	1.70	8.38		0
Chalakkudy	0.34	0.58	2.48	4.93	2.43	4.24	1.61	7.35		0	4.97	7.7	2.63	4.32	1.03	5.06	3.72	9.08
Chavakkad	0.38	0.65	0.4	0.8	0.31	0.54	0.96	4.38	0.92	2.84	0.89	1.38	2.45	4.02	0.09	0.44		0
Cherpu	3.72	6.33	3.07	6.1	3.54	6.18	2.37	10.82	1.64	5.07	3.4	5.27	1.63	2.68	1.15	5.66	0.03	0.07
Chowannur	0.58	0.99	1.93	3.84	1.00	1.75	0.41	1.87	2.60	8.04	1.17	1.81	6.85	5	1.03	5.1	0.64	1.56
Injalakkuda	0.8	1.36	0.41	0.82	1.40	2.44	0.44	2.01	0.11	0.34	1.44	2.23	3.29	5.4	0.75	3.71	2.76	6.74
Kodakara	4.87	8.28	4.53	9.01	2.29	4	1.03	4.7	0.08	0.25	4.31	6.68	8.21	13.4	1.36	6.69	4.27	10.42
Mala	6.31	10.7	3	4.87	9.68	3.16	5.52	11.59	1.07	3.31	8.13	12.59	7.44	12.2	1.69	8.33	7.35	17.94
Mathilakom	1.44	2.45	0.97	1.93	0.59	1.03	0.66	3.01		0	1.7	2.63	3.36	5.52	0.55	2.7		0
Mullassery	0.82	1.39	0.13	0.26	3.64	6.35	0.60	2.74	0.58	1.79	2.08	3.22	1.09	1.79	0.07	0.35		0
Ollukkara	2.52	4.29	8.38	16.6	37.0	9	1.50	6.85	2.44	7.54	3.37	5.22	3.65	6	2.31	11.42		0
Pazhayannur	1.28	2.18	0.49	0.97	1.75	3.05	1.35	6.16	5.19	16.05	3.17	4.91	3.58	5.88	1.20	5.91	10.72	26.17
Puzhakkal	12.74	7	6.03	11.9	2.81	4.9	1.87	8.53	2.92	9.03	10.81	16.75	3.74	6.14	2.18	10.75		0
Thalikkulam	1.5	2.55	0.33	0.66	0.88	1.54	0.83	3.79	0.24	0.74	3.71	5.75	3.27	5.37	0.65	3.23	1.31	3.2
Vellangallur	5.42	9.22	7.53	7	2.75	4.8	1.65	7.53	6.70	20.72	4.81	7.45	1.26	2.07	1.64	8.1	6.31	15.4
Wadakkancherry	0.96	1.63	0.55	1.09	2.35	4.1	1.32	6.02	4.88	15.09	2.16	3.35	1.36	2.23	1.37	6.76	3.86	9.42
Thrissur (C)	5.55	9.44	3.82	7.59	3.00	5.24	0.53	2.42	1.37	4.24	1.86	2.88	5.55	9.12	1.50	7.4		0

Thrissur

Kasaragode		Horticulture Survey 2010-11																
Irity		6.68	8.63	0.74	4.54	5.58	8.46	0.50	2.64	11.99	14.19	3.32	8.55	2.87	6.28	0.97	6.55	22.53
Kaliasseri		4.86	6.28	0.9	5.52	0.64	0.97	1.28	6.75	1.52	1.8	2.7	6.96	5.7	12.4	3.67	24.76	0.21
Kannur		4.35	5.62	1.54	9.45	1.33	2.02	0.48	2.53	2.07	2.45	1.91	4.92	4.35	9.51	1.91	12.89	0.45
Koottuparamba		8.12	10.4	9	0.03	0.18	2.41	0.00	0	3.65	4.32	1.97	5.07	0.73	1.6	0.09	0.61	7.59
Panoor		3.41	4.41	0.35	2.15	1.11	1.68	0.16	0.84	3.38	4	0.35	0.9	1.74	3.81	0.12	0.81	1.85
Payyannur		5.82	7.52	7.4	3	23.21	35.1	7.63	40.24	17.44	20.64	10.27	26.46	12.13	26.5	3.53	23.82	15.79
Peravoor		6.72	8.68	1.82	7	10.30	15.6	0.61	3.22	8.20	9.7	7.88	20.3	3.33	7.28	1.75	11.81	26.94
Thalasseri		16.29	21.0	14.3	6	1.44	2.18	1.71	9.02	2.81	3.33	1.87	4.82	4.12	9.01	0.81	5.47	3.03
Thaliparamba		8.43	10.8	2.34	6	9.10	13.8	1.50	7.91	13.24	15.67	2.51	6.47	6.75	14.7	0.50	3.37	1.24
Total		77.39		16.29		65.96		18.96		84.50		38.82		45.72		14.82		88.38
Kanhangad		3.36	13.4	2	2.15	12.3	0.46		0	113.0	23.97	4.48	11.41	8.52	40.9	0.30	3.67	1.91
Kasaragod		6.58	26.2	9	24.7	6.10	0.78	1.23	12.59	94.01	19.93	4.89	12.46	4.21	20.2	1.51	18.48	
Karadukka		4.17	16.6	6	36.0	103.69	13.2	1.58	16.17	81.92	17.37	1.75	4.46	0.92	4.42	5.39	65.97	0
Manjeswar		6.37	25.4	5	10.9	193.32	24.6	1.71	17.5	69.40	14.72	5.85	14.9	6.16	29.6	0.73	8.94	0
Neeleswar		0.77	3.08	0.73	4.18	91.65	11.6	3.86	39.51	26.63	5.65	4.41	11.24	0.26	1.25		0	1.21
Parappa		3.7	14.7	8	11.1	87.18	11.1	1.37	14.02	69.40	14.72	17.87	45.53	0.73	3.51	0.24	2.94	2.93
Kanhangad (M)		0.08	0.32	0.11	0.63	110.08	14.0	0.02	0.2	17.22	3.65		0		0		0	47.18
Kasaragod (M)			0	0.01	0.06	189.50	24.1		0		0		0		0		0	2.58
Total		25.03		17.48		785.15		9.77		471.62		39.25		20.8		8.17		6.21

TABLE 35
Block wise Area and Area participation of Vegetables in Summer season

District	BLOCK	Block wise Area and Area participation of vegetables in Summer season																	
		Amaranthus		Lady's finger		Bitterguard		Snake guard		Cucumber		Pumpkin		Ashguard		Brinjal		Cowpea	
		Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation	Area	Area participation
Thiruvananthapuram	Athiyannur	14.77	16.4	1.61	6.7	0.49	1.39	3.27	7.97	5.35	8.73	0.40	5.04	0.11	9.18	0.47	1.95	3.30	6.15
	Chirayinkeezhu	4.82	5.35	1.02	4.24	1.22	3.45	0.82	2	0.40	0.65	0.20	2.52	0.01	0.83	1.71	7.08	4.40	8.2
	Kilimanoor	7.64	8.49	1.03	4.28	1.43	4.04	1.07	2.61	1.20	1.96	1.00	12.59	0.20	16.69	2.48	10.27	5.26	9.8
	Nedumangad	1.32	1.47	0.60	2.5	1.27	3.59	1.22	2.97	1.16	1.89	0.66	8.31	0.40	33.39	2.40	9.94	1.90	3.54
	Nemom	17.27	19.18	5.01	20.84	12.18	34.45	10.25	24.98	12.47	20.34	1.20	15.11	0.01	0.83	3.54	14.66	13.22	24.64
	Parassala	11.35	12.61	3.16	13.14	2.52	7.13	5.86	14.28	10.86	17.72	0.16	2.02	0.32	26.71	1.60	6.63	4.05	7.55
	Perumkadavila	13.11	14.56	2.96	12.31	0.91	2.57	4.56	11.11	1.20	1.96	0.48	6.05	0.02	1.25	2.00	8.28	3.85	7.17
	Pothencode	1.43	1.59	0.48	2	0.23	0.65	0.44	1.07	10.77	17.57	0.10	1.26	0.05	4.17	1.39	5.76	3.62	6.75
	Vamanapuram	5.15	5.72	0.60	2.5	4.17	11.79	5.10	12.43	8.00	13.05	0.96	12.09	0.02	1.5	2.20	9.11	5.16	9.62
	Varkala	4.16	4.62	1.83	7.61	2.11	5.97	1.23	3	3.89	6.35	0.62	7.81	0.02	1.25	2.61	10.81	2.34	4.36
	Vellanad	1.61	1.79	1.65	6.86	3.01	8.51	3.36	8.19	1.00	1.63	1.00	12.59	0.03	2.5	2.18	9.03	2.47	4.6
	TVPM(M)	2.89	3.21	1.73	7.2	2.23	6.31	2.85	6.95	1.38	2.25	0.88	11.08	0.01	0.83	0.41	1.7	1.12	2.09
	Attingal (M)	1.02	1.13	0.21	0.87	0.37	1.05	0.20	0.49	0.30	0.49	0.07	0.88		0	0.38	1.57	0.75	1.4
	Nedumangad (M)	1.06	1.18	0.61	2.54	0.96	2.71	0.20	0.49	0.35	0.57	0.07	0.88	0.01	0.83	0.35	1.45	0.72	1.34
Kollam	Neyyattinkara (M)	1.28	1.42	0.63	2.62	0.83	2.35	0.20	0.49	2.16	3.52	0.07	0.88		0	0.18	0.75	0.81	1.51
	Varkala (M)	1.16	1.29	0.91	3.79	1.43	4.04	0.40	0.97	0.81	1.32	0.07	0.88		0	0.25	1.04	0.69	1.29
	Total	90.04		24.04		35.36		41.03		61.30		7.94		1.20		24.15		53.66	
	Anchal	9.55	9.09	5.45	7.88	11.10	11.53	4.46	11.17	3.55	8.54	1.36	22.59	3.53	11.49	4.99	8.59	31.89	75.34
	Chadayamangalam	9.31	8.86	7.33	10.59	11.40	11.84	3.01	7.54	4.00	9.62	0.13	2.16	4.65	15.14	2.90	4.99	0.14	0.33

Chavara	7.89	7.51	2.20	3.18	4.50	4.67	2.90	7.26	0.85	2.04	0.16	2.66	0.65	2.12	3.78	6.51	2.56	6.05
Chittumala	8.37	7.97	3.35	4.84	6.84	7.11	4.19	10.49	5.07	12.19			0	3.35	10.9	3.65	6.29	
Ithikkara	5.23	4.98	4.65	6.72	11.79	12.25	3.63	9.09	4.64	11.16			0	2.75	8.95	4.65	8.01	0
Kottarakkara	8.04	7.65	11.58	16.74	11.59	12.04	3.96	9.91	4.87	11.71			0	3.36	10.94	5.70	9.82	0
Mukhathala	6.69	6.37	3.81	5.51	7.77	8.07	3.67	9.19	7.18	17.27			0	3.45	11.23	3.90	6.72	0.09
Oachira	13.10	12.47	3.87	5.59	4.99	5.18	2.79	6.99	2.52	6.06			0	2.12	6.9	4.50	7.75	14.62
Pathanapuram	14.00	13.32	16.39	23.69	5.80	6.02	3.61	9.04	3.03	7.29	3.45	57.31	3.23	10.51	8.30	14.3	0.26	0.61
Vetikavala	10.49	9.98	3.30	4.77	10.11	10.5	3.37	8.44	4.98	11.98	0.28	4.65	2.96	9.64	4.52	7.79		0
Karunagappally (M)	3.70	3.52	3.23	4.67	2.46	2.56	0.11	0.28	0.02	0.05			0	0.51	1.66	2.50	4.31	1.98
Paravoor (M)	2.60	2.47	0.92	1.33	3.37	3.5	1.46	3.66	0.14	0.34		0			0	2.35	4.05	0
Punaloor (M)	2.56	2.44	1.50	2.17	2.43	2.52	1.31	3.28		0	0.02	0.33			0	2.45	4.22	0
Kollam ©	3.54	3.37	1.61	2.33	2.12	2.2	1.47	3.68	0.73	1.76	0.62	10.3	0.16	0.52	3.87	6.67	0.41	0.97
Total	105.07		69.19		96.27		39.94		41.58		6.02		30.72		58.06		42.33	
Elanthur	7.94	19.07	4.19	11.7	11.15	19.51	2.64	19.14	10.32	16.22	1.98	20.14	6.11	14.71	6.46	14.27	1.71	13.93
Koipram	6.18	14.84	8.47	23.66	6.84	11.97	1.92	13.92	13.13	20.64	1.56	15.87	9.90	23.84	6.36	14.05	1.93	15.72
Konni	1.09	2.62	2.81	7.85	2.39	4.18	0.36	2.61	2.26	3.55	0.78	7.93	5.03	12.11	3.22	7.11	0.12	0.98
Mallappally	13.08	31.41	14.79	41.31	24.95	43.66	3.98	28.86	35.40	55.64	0.92	9.36	14.34	34.53	14.95	33.02	3.44	28.01
Pandalam	1.26	3.03	1.61	4.5	3.49	6.11	3.85	27.92	1.82	2.86	0.24	2.44	0.46	1.11	2.15	4.75	0.12	0.98
Parakode	3.02	7.25	1.63	4.55	5.36	9.38	0.73	5.29	0.04	0.06	0.56	5.7	0.38	0.92	6.60	14.58	0.33	2.69
Pulikeezhu	4.14	9.94	0.98	2.74	0.86	1.51	0.11	0.8	0.29	0.46	1.44	14.65	2.00	4.82	2.49	5.5	0.78	6.35
Ranni	2.35	5.64	0.20	0.56	1.86	3.26	0.12	0.87	0.29	0.46	1.67	16.99	2.49	6	1.82	4.02	2.78	22.64
Adoor (M)	0.00	0	0.22	0.61		0		0		0		0	0.10	0.24	0.30	0.66	0.07	0.57
Pathanamthitta (M)	0.36	0.86	0.87	2.43			0	0.58		0	0.06	0.61	0.06	0.14	0.68	1.5	0.51	4.15
Thiruvalla (M)	2.22	5.33	0.03	0.08	0.24	0.42		0	0.07	0.11	0.62	6.31	0.66	1.59	0.25	0.55	0.49	3.99
Total	41.64		35.80		57.14		13.79		63.62		9.83		41.53		45.28		12.28	
Ambalapuzha	2.48	2.13	1.14	3.35	0.76	0.73	2.10	2.96	0.11	0.46	0.24	1.51	0.00	0	0.50	1.27	3.30	2.57
Aryad	6.56	5.63	1.80	5.29	2.12	2.02	1.65	2.33	0.68	2.87	0.30	1.89	0.64	5.26	2.21	5.63	14.39	11.22
Bharanikkavu	6.83	5.87	0.92	2.7	13.94	13.3	5.05	7.12	1.38	5.83	1.85	11.67	1.24	10.2	4.04	10.3	2.32	1.81
Chambakkulam	10.56	9.07	1.70	5	10.04	9.58	2.80	3.95	0.75	3.17	1.09	6.88	0.54	4.44	0.81	2.06	17.52	13.65

	Chengannur	7.67	6.59	1.44	4.23	6.87	6.56	4.78	6.74	4.96	20.95	0.54	3.41	0.82	6.74	4.40	11.22	16.34	12.73
	Harippad	20.84	17.9	10.32	30.34	15.55	14.84	25.13	35.43	0.64	2.7	2.51	15.84	1.76	14.47	3.81	9.71	14.60	11.38
	Kanjikuzhi	8.89	7.63	7.67	22.55	17.73	16.92	6.48	9.14	1.57	6.63	2.06	13	0.37	3.04	3.12	7.95	10.39	8.1
	Mavelikkara	2.72	2.34	0.87	2.56	15.64	14.93	4.12	5.81	2.44	10.31	1.38	8.71	2.15	17.68	1.44	3.67	4.43	3.45
	Muthukulam	17.72	15.22	0.94	2.76	7.45	7.11	6.86	9.67	3.47	14.66	0.96	6.06	1.10	9.05	4.35	11.09	13.53	10.54
	Pattanakkad	5.40	4.64	1.35	3.97	3.96	3.78	0.61	0.86	1.68	7.1	1.83	11.55	1.04	8.55	2.58	6.58	2.99	2.33
	Thyccattussery	13.32	11.44	2.24	6.58	2.28	2.18	4.53	6.39	3.58	15.12	1.23	7.76	1.56	12.83	10.05	25.62	5.44	4.24
	Veliyanad	3.90	3.35	0.74	2.18	2.56	2.44	4.33	6.11	1.59	6.72	0.46	2.9	0.35	2.88	0.38	0.97	15.17	11.82
	Alappuzha (M)	2.25	1.93	0.73	2.15	1.02	0.97	0.41	0.58	0.10	0.42	0.12	0.76	0.19	1.56	0.54	1.38	2.72	2.12
	Cherthala (M)	1.29	1.11	0.14	0.41	1.60	1.53	0.97	1.37	0.28	1.18	0.00	0	0.00	0	0.31	0.79	4.81	3.75
	Chengannur (M)	0.39	0.33	0.17	0.5	1.17	1.12	0.00	0	0.00	0	0.00	0	0.00	0	0.13	0.33	0.08	0.06
	Kayamkulam (M)	5.22	4.48	1.81	5.32	1.78	1.7	0.87	1.23	0.36	1.52	1.10	6.94	0.23	1.89	0.55	1.4	0.27	0.21
	Mavelikkara (M)	0.40	0.34	0.04	0.12	0.32	0.31	0.23	0.32	0.08	0.34	0.18	1.14	0.17	1.4	0.01	0.03	0.01	0.01
	Total	116.44		34.02		104.79		70.92		23.67		15.85		12.16		39.23		128.31	
Alappuzha	Erattupetta	1.39	5.68	1.78	9.88	3.28	5.94	0.37	0.52	0.10	0.34	0.37	9.92	0.14	7.14	1.92	9.77	3.84	2.71
	Ettumanoor	0.51	2.09	0.61	3.37	2.73	4.95	5.75	8.14	0.79	2.56	0.21	5.55	0.03	1.39	0.49	2.47	9.79	6.9
	Kaduthuruthy	5.55	22.74	1.78	9.9	16.55	29.94	24.74	35	3.33	10.86	0.40	10.65	0.22	11.3	1.23	6.26	30.48	21.48
	Kanjirappally	1.22	5.01	2.87	15.94	4.87	8.82	0.55	0.77	0.09	0.3	0.54	14.47	0.47	24.09	4.27	21.73	5.96	4.2
	Lalam	0.67	2.74	1.67	9.28	2.06	3.72	0.34	0.48	0.66	2.15	0.26	7.12	0.14	7.32	2.00	10.19	4.24	2.99
	Madappally	5.97	24.47	1.78	9.88	5.09	9.21	15.57	22.03	8.20	26.72	0.68	18.41	0.17	8.81	1.01	5.14	32.10	22.63
	Pallom	2.28	9.36	1.77	9.81	3.72	6.74	2.70	3.82	5.60	18.24	0.08	2.18	0.01	0.72	1.18	6	12.82	9.04
	Pampady	0.43	1.75	1.12	6.22	1.78	3.21	1.74	2.46	2.77	9.01	0.26	7.06	0.18	9.02	1.32	6.71	6.47	4.56
	Uzhavoor	2.14	8.78	2.28	12.67	10.89	19.7	17.86	25.26	8.04	26.18	0.37	9.95	0.35	17.9	3.71	18.86	27.76	19.57
	Vaikom	2.23	9.14	0.42	2.33	1.65	2.99	0.75	1.06	0.61	1.97	0.16	4.26	0.04	1.93	0.74	3.75	4.82	3.4
	Vazhoor	0.77	3.14	1.57	8.72	1.24	2.24	0.16	0.22	0.48	1.56	0.26	6.98	0.13	6.88	1.49	7.55	2.22	1.56
	Changanacherry (M)	0.00	0.01	0.08	0.44	0.17	0.31	0.00	0	0.00	0	0.01	0.19	0.01	0.51	0.07	0.35	0.09	0.06
	Kottayam (M)	0.83	3.42	0.04	0.2	0.16	0.29	0.03	0.04	0.00	0	0.00	0	0.00	0	0.03	0.17	1.25	0.88
	Pala (M0)	0.01	0.04	0.10	0.53	0.51	0.93	0.00	0	0.00	0	0.00	0	0.00	0	0.14	0.69	0.01	0.01

Vaikom (M)	0.40	1.62	0.15	0.82	0.56	1.02	0.14	0.19	0.03	0.11	0.12	3.26	0.06	2.98	0.07	0.35	0.00	0
Total	24.39		18.02		55.26		70.69		30.70		3.71		1.95		19.66		141.88	
Alengad	0.11	0.72	0.24	3.72	0.62	4.54	0.25	6.79		0	0.35	1.57	0.42	2.16	0.32	3.73	0.70	4.15
Angamali	0.29	1.91	0.24	3.72	0.41	3	0.11	2.99	0.95	1.98	0.45	2.01	0.58	2.99	0.22	2.56	0.10	0.59
Edapally	0.36	2.37	0.33	5.12	0.03	0.22	0.00	0	0.31	0.65	0.42	1.88	0.36	1.85	0.46	5.36	1.00	5.93
Koovappady	0.13	0.85	0.13	2.02	0.83	6.07	0.50	13.59	0.14	0.29	3.78	16.91	6.92	35.63	0.23	2.68	0.79	4.69
Kothamangalam	0.77	5.06	0.65	10.08	0.11	0.8	0.22	5.98	8.48	17.68	0.87	3.89	0.88	4.53	0.35	4.07	0.08	0.47
Moovattupuzha	0.44	2.89	0.36	5.58	0.96	7.02	0.18	4.89		0	0.99	4.43	0.57	2.94	2.83	32.95	2.00	11.87
Mulanthuruthy	0.57	3.75	0.59	9.15	0.06	0.44	0.15	4.08	8.56	17.84	0.03	0.13	0.71	3.66	0.34	3.96	0.07	0.42
Palluruthy	0.88	5.79	0.58	8.99	0.93	6.8	0.03	0.82	0.04	0.08	0.20	0.89	0.00	0	0.02	0.23	0.50	2.97
Pampakkuda	4.20	27.61	0.04	0.62	0.43	3.15	0.20	5.43		0	3.48	15.56	0.40	2.06	0.44	5.12	0.50	2.97
Parakadavu	1.34	8.81	0.29	4.5	0.52	3.8	0.07	1.9	8.63	17.99	0.31	1.39	1.31	6.75	0.01	0.12	0.13	0.77
Paravur	0.83	5.46	0.07	1.09	0.26	1.9	0.00	0	0.01	0.02	0.26	1.16	0.00	0	0.08	0.93	0.90	5.34
Vadavukode	0.90	5.92	0.08	1.24	2.70	19.75	0.30	8.15		0	4.80	21.47	0.36	1.85	0.60	6.98	0.00	0
Vazhakkulam	0.11	0.72	0.49	7.6	0.29	2.12	0.23	6.25	9.82	20.47	1.85	8.27	0.38	1.96	0.31	3.61	1.00	5.93
Vypin	0.50	3.29	0.65	10.08	0.68	4.97	0.28	7.61	6.98	14.55	0.39	1.74	0.24	1.24	0.04	0.47	1.25	7.42
Kochi (C)	0.76	5	0.37	5.74	0.63	4.61	0.22	5.98	0.03	0.06	0.12	0.54	1.04	5.36	0.71	8.27	1.00	5.93
Angamaly (M)	0.03	0.2	0.13	2.02	0.68	4.97	0.20	5.43	3.20	6.67	0.38	1.7	1.61	8.29	0.16	1.86	1.00	5.93
Aluva (M)	0.22	1.45	0.05	0.78	0.38	2.78	0.31	8.42	0.01	0.02	0.14	0.63	0.24	1.24	0.03	0.35	0.90	5.34
Eloor (M)	0.63	4.14	0.00	0	0.47	3.44	0.09	2.45		0		0	0.00	0	0.04	0.47	0.45	2.67
Kalamassery (M)	0.51	3.35	0.10	1.55	0.39	2.85	0.03	0.82	0.03	0.06	0.08	0.36	0.97	4.99	0.35	4.07	1.10	6.53
Kothamangalam (M)	0.22	1.45	0.07	1.09	0.46	3.37	0.06	1.63		0	1.28	5.72	0.49	2.52	0.62	7.22	0.90	5.34
Maradu (M)	0.16	1.05	0.01	0.16	0.14	1.02	0.02	0.54		0	0.11	0.49	0.00	0	0.01	0.12	0.30	1.78
Moovattupuzha (M)	0.02	0.13	0.27	4.19	0.52	3.8	0.12	3.26	0.17	0.35	0.30	1.34	0.06	0.31	0.07	0.81	0.19	1.13
Perumbavoor (M)	0.12	0.79	0.20	3.1	0.21	1.54	0.20	5.43		0		0	0.00	0	0.20	2.33	0.59	3.5
Thrikkakkara (M)	0.50	3.29	0.47	7.29	0.65	4.75	0.08	2.17	0.61	1.27	1.47	6.57	1.49	7.67	0.09	1.05	0.90	5.34
Thrippunithura	0.61	4.01	0.04	0.62	0.31	2.27	0.03	0.82		0	0.30	1.34	0.39	2.01	0.06	0.7	0.50	2.97

(M)	15.21	6.45	13.67	3.68	47.97	22.36	19.42	8.59	16.85
Total	15.21	6.45	13.67	3.68	47.97	22.36	19.42	8.59	16.85
Anthikkad	1.32	2.74	0.62	2.54	1.58	1.62	4.09	1.73	7.17
Chalakkudy	0.45	0.92	7.63	2.38	3.36	0.18	7.35	2.26	0.00
Chavakkad	0.24	0.49	0.39	1.08	0.58	5.08	5.38	3.38	3.13
Cherpu	4.17	8.64	0.41	4.52	5.54	9	4.91	10.2	0.37
Chowannur	0.24	0.49	0.13	4.00	2.92	8.11	6.53	1.32	4.85
Irinjalakkuda	0.46	0.96	0.21	1.43	0.64	0.18	2.28	2.79	1.42
Kodakara	1.02	2.1	3.39	2.12	1.29	1.50	4.41	1.81	2.25
Mala	1.07	2.21	4.35	2.72	2.51	2.90	11.47	3.01	4.75
Mathilakom	1.00	2.08	1.17	0.73	4.15	7.55	2.12	1.42	5.21
Mullassery	0.32	0.67	0.78	0.49	2.50	3.44	5.23	1.48	5.45
Ollukkara	5.34	11.05	0.67	0.42	1.99	1.21	1.84	0.54	1.98
Pazhayannur	4.61	9.53	13.07	8.18	26.04	1.44	2.19	0.05	0.18
Puzhakkal	2.99	6.18	41.13	25.74	1.69	3.95	6	2.97	10.91
Thalikkulam	4.18	8.65	0.49	0.31	2.54	6.50	9.88	1.36	5.01
Vellangallur	3.47	7.19	21.40	13.39	3.46	4.28	6.5	2.03	7.46
Wadakkancherry	12.73	26.36	11.12	6.96	19.83	5.20	7.9	2.46	11.66
Thrissur	2.30	4.76	0.55	0.35	1.84	4.14	6.29	1.96	7.21
Corporation	0.01	0.02	10.53	6.59	0.13	1.87	2.84	2.5	3.75
Chalakkudy (M)	0.31	0.64	1.52	0.95	1.34	0	0.49	0.2	2.09
Chavakkad (M)	0.07	0.14	12.02	7.52	1.02	0.29	0.44	0.85	0
Guruvayoor (M)	0.15	0.31	0.25	0.16	0.52	0.31	0.47	1.53	0.07
Iringalakuda (M)	0.55	1.14	21.98	13.75	1.13	0.26	1.61	1.38	1.8
Kodungallur (M)	1.32	2.74	0.37	0.23	0.65	0	0.87	0.77	1.18
Kunnamkulam(M)	48.32	159.79	88.28	68.46	49.44	1.07	1.05	2.73	0.52
Total	48.32	159.79	88.28	68.46	49.44	65.82	60.12	27.24	94.96
Alathur	0.52	1.99	0.40	0.78	7.90	6.05	0.55	0	4.51
Attappady	1.33	5.08	6.19	12.07	6.09	7.32	4.51	13.88	15.72
Chittoor	6.05	23.1	26.87	52.4	11.67	0.44	7.77	3.7	1.3
Kollengode	0.85	3.25	0.96	1.87	17.70	0	23.27	20.39	13.54
Total	0.85	3.25	0.96	1.87	17.70	0	23.27	20.39	13.54

Kozhikode	0.51	1.95	0.01	0.02	2.49	2.51	0.30	0.92	2.37	11.57	0.04	0.04		0	0.00	0	9.90	2.85
Kozhalmannam	5.80	22.15	4.55	8.87	2.03	2.04	0.38	1.17	1.40	6.84	1.68	1.84	0.51	0.58	0.02	0.2	41.05	11.81
Malampuzha	0.60	2.29	1.95	3.8	12.68	12.76	0.37	1.14	0.23	1.12	11.76	12.86	13.59	15.39	1.62	16.25	18.01	5.18
Mannarkkad	0.10	0.38	1.30	2.54	21.86	22	10.19	31.39	0.02	0.1	4.21	4.6	4.48	5.07	0.51	5.12	22.40	6.44
Nenmara	1.79	6.83	2.01	3.92	1.99	2	0.99	3.05	2.29	11.18	6.49	7.1	7.00	7.93	0.80	8.02	3.50	1.01
Ottappalam	1.23	4.7	0.15	0.29	1.39	1.4	0.86	2.65	2.43	11.87	1.19	1.3	1.36	1.54	0.08	0.8	12.50	3.59
Palakkad	2.20	8.4	1.29	2.52	4.03	4.06	0.77	2.37	4.46	21.78	8.02	8.77	7.72	8.74	2.27	22.77	2.50	0.72
Pattambi	1.88	7.18	4.02	7.84	3.52	3.54	1.17	3.6	0.90	4.39	6.68	7.31	7.36	8.33	0.67	6.72	4.00	1.15
Sreekrishnapuram	2.60	9.93	1.06	2.07	4.37	4.4	0.26	0.8	3.10	15.14	12.90	14.11	6.34	7.18	0.37	3.71	1.50	0.43
Thrithala	0.01	0.04	0.05	0.1	0.02	0.02		0		0	0.19	0.21	0.11	0.12	0.00	0	0.85	0.24
Chittoor (M)																		
Thathamangalam(M)																		
Ottappalam (M)	0.15	0.57	0.10	0.2	0.83	0.84	0.46	1.42	0.41	2	1.01	1.1	0.74	0.84	0.03	0.3	1.20	0.35
Palakkad (M)	0.40	1.53	0.05	0.1	0.06	0.06	0.10	0.31	0.02	0.1	0.47	0.51	0.47	0.53	0.01	0.1	0.50	0.14
Shornur (M)	0.17	0.65	0.32	0.62	0.75	0.75	0.20	0.62	0.02	0.1	1.13	1.24	1.10	1.25	0.30	3.01	1.00	0.29
Total	26.19		51.28		99.38		32.46		20.48		91.43		88.32		9.97		347.71	
Balusery	6.74	7.63	0.74	3.39	5.62	10.9	0.65	2.99	7.77	6.92	1.19	2.8	0.49	1.2	0.92	13.55	0.00	0
Chelannur	4.72	5.34	2.98	13.6	6.20	12.02	0.02	0.09	9.54	8.5	5.54	13.05	4.24	10.37	0.73	10.75	0.00	0
Koduvally	10.93	12.37	1.09	4.97	3.70	7.17	2.11	9.71	4.79	4.27	4.17	9.82	1.77	4.32	2.26	33.28	0.00	0
Kozhikkode	1.56	1.76	0.46	2.11	0.86	1.67	0.15	0.69	1.21	1.08	1.39	3.27	0.37	0.9	0.12	1.77	2.69	4.8
Kunnamangalam	13.38	15.14	3.68	16.78	4.52	8.76	0.23	1.06	9.27	8.26	4.45	10.48	0.42	1.03	1.72	25.33	0.00	0
Kunnummel	4.15	4.7	3.02	13.78	8.30	16.09	7.67	35.31	8.90	7.93	3.87	9.12	4.78	11.69	0.16	2.36	0.00	0
Melady	12.05	13.63	2.16	9.87	8.10	15.7	2.79	12.85	8.27	7.37	6.44	15.17	6.62	16.19	0.36	5.3	0.00	0
Panthalayini	1.72	1.95	2.07	9.42	4.47	8.66	2.39	11	9.16	8.16	3.28	7.73	5.15	12.59	0.22	3.24	17.48	31.18
Perambra	5.60	6.34	0.43	1.96	3.90	7.56	1.60	7.37	8.61	7.67	2.57	6.05	1.47	3.59	0.01	0.15	3.82	6.81
Thodannoor	0.82	0.93	0.08	0.38	0.03	0.06	0.29	1.34	1.27	1.13	0.43	1.01	0.08	0.2	0.00	0	0.00	0
Thunerli	18.73	21.19	2.34	10.68	3.07	5.95	2.15	9.9	40.05	35.67	5.74	13.52	12.10	29.58	0.04	0.59	0.00	0
Vadakara	0.00	0	0.00	0	0.00	0	0.00	0	0.02	0.02	0.00	0	0.00	0	0.00	0	0.17	0.3
Kozhikkode (C)	7.53	8.52	1.85	8.43	0.88	1.71	0.20	0.92	0.58	0.52	1.55	3.65	0.67	1.64	0.14	2.06	20.19	36.01
Quilandy (M)	0.46	0.52	1.01	4.61	1.93	3.74	1.45	6.68	2.84	2.53	1.83	4.31	2.74	6.7	0.11	1.62	11.71	20.89
Vadakara (M)	0.00	0	0.00	0	0.00	0	0.02	0.09	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

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		88.39	21.92	51.57	21.72	112.28	42.45	40.90	6.79	56.06
Wayanad	Total									
	Kalpetta	24.48	56.89	18.26	4.94	19.21	25.64	2.23	2.67	51.74
	Mananthavady	9.19	21.36	22.95	13.67	53.17	29.94	2.30	0.95	18.41
	Panamaram	5.89	13.69	17.89	2.14	8.32	22.87	5.88	0.68	13.18
Kannur	Sulthan Batherly	3.30	7.67	7.36	4.44	17.27	18.37	0.35	0.70	13.57
	Kalpetta (M)	0.17	0.4	1.09	0.52	2.02	3.18	0	0.16	3.1
	Total	43.03	6.80	67.55	25.71	65.49	23.16	10.76	5.16	9.65
	Edakkad	10.60	10.29	1.78	1.37	6.9	9.19	5.30	0.52	2.28
Kannur	Irikkur	20.47	19.88	16.74	4.74	23.87	23.21	5.57	2.80	12.29
	Iritty	7.26	7.05	7.37	0.36	1.81	9.27	3.81	3.04	13.34
	Kallisseri	0.43	0.42	1.00	0.25	1.26	3.08	1.28	0.01	0.04
	Kannur	0.70	0.68	0.96	0.32	1.61	2.85	0.89	0.02	0.08
Kannur	Koothuparamba	10.85	10.54	7.17	3.43	17.27	9.47	3.22	0.45	1.97
	Panoor	3.63	3.53	2.50	1.07	5.39	2	2.88	0.28	1.23
	Payyannur	7.88	7.65	11.26	0.65	3.27	10.44	11.82	5.95	26.11
	Peravoor	13.39	13	1.62	3.74	18.83	13.31	7.29	2.27	9.96
Kannur	Thalasseri	17.43	16.93	3.74	2.40	12.08	8.24	6.16	2.23	9.78
	Thaliparamba	10.33	10.03	15.80	1.53	7.7	8.95	12.13	5.22	22.9
	Total	102.97	30.09	80.10	19.86	171.87	39.58	44.89	22.79	104.30
	Kanhangad	2.40	15.78	2.18	0.36	9.78	31.31	0.59	0.59	6.87
Kasaragode	Kasaragod	1.54	10.12	0.05	0.25	6.79	5.42	1.13	0.10	1.16
	Karadukka	0.11	0.72	0.19	0.39	0	1.29	0.17	0.88	0.14
	Manjeswar	4.00	26.3	0.96	1.88	51.09	7.05	19.19	6.67	34.35
	Neeleswar	3.07	20.18	3.27	0.94	25.54	27.7	30.99	6.36	32.75
Kasaragode	Parappa	3.74	24.59	6.43	0.23	6.25	26.41	24.73	4.48	23.07
	Kanjhangad (M)	0.19	1.25	0.59	0.32	0	0.48	0	0.1	0
	Kasaragod (M)	0.00	0	0	0	0	0	0	0	0
	Neeleswar (M)	0.16	1.05	0	0.02	0.54	0.33	0.63	0	0.03
Total		15.21	6.45	13.67	3.68	47.97	22.36	19.42	8.59	16.85

TABLE 36
Block wise Production and Production participation of Vegetables in Autumn season

District	BLOCK	Amaranth		Lady's finger		Bitter guard		Snake guard		Cucumber		Pumpkin		Ash guard		Brinjal		Cowpea	
		production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation
Thiruvananthapuram	Athiyannur	121.83	38.27	8.29	5.40	22.40	8.84	44.51	25.95	142.71	43.34	578.52	1224.91	0.00	0.00	2.12	1.03	37.05	67.7
	Chirayinkeezhu	11.92	3.74	11.09	7.23	30.33	11.97	18.31	10.67	0.34	0.10	126.56	267.97		0.00	26.65	12.97	0.40	0.73
	Kilimanoor	42.09	13.22	12.23	7.97	45.20	17.84	5.16	3.01	1.02	0.31	354.79	751.20		0.00	32.95	16.03		0
	Nedumangad	3.55	1.12	2.24	1.46	3.99	1.57	1.47	0.86	4.49	1.36	788.77	1670.06	0.00	0.00	1.83	0.89		0
	Nemom	9.33	2.93	1.69	1.10	2.23	0.88	2.05	1.20	0.20	0.06	547.40	1159.01		0.00	1.59	0.77	0.81	1.48
	Parassala	13.31	4.18	8.56	5.58	0.69	0.27	16.90	9.85	41.12	12.49	292.20	618.68	0.53	4.18	14.15	6.89	10.66	19.5
	Perumkadavila	1.36	0.43	1.09	0.71	0.36	0.14	0.14	0.08	1.09	0.33	15.22	32.22		0.00	1.61	0.78	0.59	1.08
	Pothencode	9.49	2.98	8.29	5.40	10.97	4.33	9.98	5.82	3.86	1.17	207.48	1507.0	1.09	8.60	7.86	3.82	0.06	0.11
	Vamanapuram	16.98	5.33	11.59	7.55	22.58	8.91	5.98	3.49	5.58	1.69	712.00	52.52	1.77	13.96	5.17	2.52		0
	Varkala	29.45	9.25	24.51	15.97	54.68	21.58		0.00	2.04	0.62	458.53	970.85	0.34	2.68	31.92	15.53		0
Kollam	Vellanad	3.37	1.06	2.61	1.70	6.01	2.37	1.07	0.62	2.29	0.70	705.78	1494.34	0.32	2.52	2.72	1.32	0.00	0
	TVPM(C)	37.14	11.67	40.71	26.53	27.93	11.02	53.50	31.19	19.00	5.77	378.31	800.98	7.89	62.22	49.91	24.29	0.63	1.15
	Attingal (M)	1.42	0.45	6.22	4.05	5.69	2.25	3.07	1.79		0.00	3.43	7.26		0.00	16.59	8.07		0
	Nedumangad (M)	3.44	1.08	1.56	1.02	3.77	1.49	2.17	1.27	1.97	0.60	43.23	91.52	0.55	4.34	0.50	0.24		0
	Neyyattinkara (M)	7.06	2.22	2.91	1.90	1.51	0.60	7.22	4.21	103.07	31.30	3.00	6.35		0.00	2.55	1.24	4.56	8.33
	Varkala (M)	6.63	2.08	9.84	6.41	15.08	5.95		0.00	0.51	0.15	39.08	82.73	0.19	1.50	7.38	3.59		0
	Total	318.37		153.43		253.42		171.53		329.29		47.23		12.68		205.50		54.76	
	Anchal	167.05	27.56	9.80	8.29	16.67	10.26	20.01	7.67	19.31	7.69	9.86	11.58	19.80	9.34	13.73	6.7	16.34	27.2
	Chadayamangalam	76.52	12.62	2.41	2.04	13.30	8.18	21.22	8.13	31.88	12.70	10.88	12.77	22.80	10.76	14.76	7.2	0.00	0

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Chavara	3.12	0.51	4.86	4.11	6.41	3.94	0.60	0.23	3.63	1.45	0.00	0	9.30	4.39	3.74	1.82	6.63	11
Chittumala	21.98	3.63	3.54	3.00	21.33	13.13	19.31	7.40	19.85	7.91	5.61	6.59	18.75	8.85	15.72	7.67	0.00	0
Ithikkara	2.15	0.35	1.65	1.40	13.86	8.53	25.41	9.74	23.92	9.53	10.71	12.57	20.40	9.62	19.64	9.58	0.00	0
Kottarakkara	86.43	10.96	3.75	3.17	37.58	23.12	35.54	13.62	21.69	8.64	9.18	10.78	23.10	10.9	17.37	8.48	0.00	0
Mukhathala	22.44	3.7	13.76	11.64	6.36	3.91	20.77	7.96	27.35	10.89	7.82	9.18	21.75	10.26	19.13	9.33	1.04	1.73
Oachira	15.21	2.51	40.80	34.52	9.28	5.71	3.22	1.23	14.90	5.93	11.39	13.37	14.25	6.72	13.64	6.66	25.62	42.6
Pathanapuram	156.00	25.73	22.40	18.95	5.61	3.45	36.77	14.10	16.28	6.48	11.22	13.17	23.40	11.04	30.70	14.98	4.94	8.22
Vettikavala	31.70	5.23	8.09	6.84	16.09	9.90	26.35	10.10	22.24	8.86	1.36	1.6	17.55	8.28	17.67	8.62	0.19	0.32
Karunagappally (M)	17.16	2.83	3.73	3.16	4.97	3.06	14.25	5.46	12.79	5.09	0.00	0	1.50	0.71	9.46	4.62	1.44	2.4
Paravoor (M)	2.60	0.43	0.18	0.15	1.65	1.02	20.31	7.79	14.21	5.66	0.00	0	4.80	2.26	12.53	6.11	0.00	0
Punaloor (M)	17.26	2.85	0.45	0.38	7.85	4.83	11.99	4.60	10.56	4.21	4.93	5.79	7.80	3.68	10.35	5.05	0.00	0
Kollam ©	6.59	1.09	2.77	2.34	1.55	0.95	5.12	1.96	12.49	4.97	2.21	2.59	6.75	3.18	6.51	3.18	3.90	6.49
Total	606.21		118.19		162.51		260.87		251.10		85.17		211.95		204.95		60.10	
Elanthur	28.00	75.39	55.45	136.21	57.81	206.98	20.00	37.38	16.88	88.84	18.15	4.8	27.92	353.8	42.90	85.95	2.53	402
Koipram	15.15	40.79	26.21	64.38	55.02	196.99	6.99	13.07	6.50	34.21	21.83	5.77	32.69	414.3	25.06	50.21	13.29	2110
Konni	1.50	4.04	23.10	56.74	20.05	71.79	6.93	12.95	11.76	61.89	8.93	2.36	40.23	509.8	26.63	53.36	3.02	479
Mallappally	96.48	259.7	49.16	120.76	120.38	431.01	24.18	45.20	13.19	69.42	67.47	17.83	58.20	737.6	83.96	168.2	24.22	3844
Pandalam	1.99	5.36	13.61	33.43	0.27	0.97	6.21	11.61	5.37	28.26	0.00	0	1.42	18	22.08	44.24	3.06	486
Parakode	2.59	6.97	20.35	49.99	0.93	3.33	0.03	0.06	0.13	0.68	1.40	0.37	2.32	29.4	22.81	45.7	3.99	633
Pulikeezhu	0.28	0.75	0.87	2.14	1.42	5.08	0.30	0.56	0.81	4.26	2.35	0.62	4.28	54.25	2.90	5.81	0.57	90.5
Ranni	1.08	2.91	6.39	15.70	12.59	45.08	4.83	9.03	7.88	41.47	21.69	5.73	16.27	206.2	4.84	9.7	7.65	1214
Adoor (M)	1.89	5.09	4.90	12.04	0.00	0.00		0.00		0.00		0		0	4.14	8.29	0.03	4.76
Pathanamthitta (M)	0.99	2.67	7.04	17.29	0.43	1.54		0.00		0.00	0.14	0.04		0	12.03	24.1	0.76	121
Thiruvalla (M)	0.15	0.4	0.22	0.54	0.53	1.90	0.08	0.15	0.52	2.74	1.70	0.45	1.25	15.84	0.70	1.4	0.06	9.52
Total	150.10		207.30		269.43		69.55		63.04		143.66		184.58		248.05		59.18	
Ambalapuzha	0.27	0.21	0.01	0.10	4.95	1.87	2.20	0.83	0.00	0.00		0		0	0.53		0.25	0.13
Aryad	0.82	0.63	0.21	2.20	5.32	2.01	3.20	1.20	7.20	2.96	0.81	1.4	1.02	3.82	10.69	3.71	12.10	6.15
Bharanikkavu	13.39	10.37	1.42	14.90	33.83	12.76	34.30	12.90	16.20	6.65	5.64	9.75	1.47	5.5	43.47	15.08	16.35	8.31
Chambakkulam	1.26	0.98	0.02	0.21	2.31	0.87	2.00	0.75	20.92	8.59	0.55	0.95	1.09	4.08	0.00	0	5.75	2.92

Pathanamthitta

Alappuzha

Chengannur	7.88	6.10	1.00	10.49	44.66	16.84	37.20	14.00	56.32	23.12	2.94	5.08	4.40	16.47	58.82	20.41	32.20	16.4
Harippad	43.82	33.93	0.70	7.35	18.14	6.84	31.00	11.66	17.40	7.14	8.65	14.95	3.73	13.96	17.00	5.9	14.40	7.32
Kanjikuzhi	5.71	4.42	0.62	6.51	37.38	14.10	64.10	24.12	25.20	10.34	9.60	16.59	2.63	9.84	24.52	8.51	30.25	15.4
Mavelikkara	6.99	5.41	0.10	1.05	15.05	5.68	11.50	4.33	18.60	7.63	4.23	7.31	4.09	15.31	31.58	10.96	23.40	11.9
Muthukulam	13.36	10.35	0.56	5.88	8.68	3.27	26.90	10.12	24.24	9.95	6.90	11.92	2.65	9.92	39.98	13.87	20.15	10.2
Pattanakad	1.11	0.86	1.44	15.11	11.27	4.25	9.30	3.50	12.24	5.02	5.76	9.95	2.69	10.07	11.21	3.89	12.70	6.45
Thycattussery	8.77	6.79	1.02	10.70	22.47	8.47	26.30	9.89	24.84	10.20	6.26	10.82		0	29.11	10.1	14.60	7.42
Vellyanad	0.02	0.02	0.00	0.00	15.05	5.68	9.40	3.54	6.92	2.84		0		0	0.00	0	4.80	2.44
Alappuzha (M)	0.54	0.42	0.02	0.21	6.37	2.40	2.20	0.83	0.00	0.00	0.03	0.05		0	1.11	0.39	0.15	0.08
Cherthala (M)	0.69	0.54	0.01	0.10	13.15	4.96	1.70	0.64	3.36	1.38		0		0	4.51	1.56	8.25	4.19
Chengannur (M)	1.11	0.86	0.10	1.05	8.75	3.30	0.80	0.30	0.00	0.00		0		0	8.18	2.84	0.35	0.18
Kayamkulam (M)	17.61	13.64	0.47	4.93	4.55	1.72	0.90	0.34	8.40	3.45	5.61	9.69	2.53	9.47	7.43	2.58	0.90	0.46
Mavelikkara (M)	5.78	4.48	1.83	19.20	17.50	6.60	2.80	1.05	1.80	0.74	0.89	1.54	0.42	1.57	0.09	0.03	0.15	0.08
Total	129.13		9.53		265.17		265.80		243.64		57.87		26.72		288.23		196.75	
Erattupetta	1.19	0.37	0.45	0.29	5.25	5.94	0.33	0.52	0.24	0.52	5.52	9.92	4.38	7.14	5.76	9.77	4.61	2.71
Ettumanoor	0.44	0.14	0.15	0.10	4.37	4.95	5.18	8.14	3.84	8.14	3.09	5.55	0.85	1.39	1.46	2.47	11.75	6.9
Kaduthuruthy	4.76	1.49	0.45	0.29	26.47	29.94	22.26	35.00	16.49	35.00	5.93	10.65	6.93	11.3	3.69	6.26	36.58	21.5
Kanjirappally	1.05	0.33	0.72	0.47	7.80	8.82	0.49	0.77	0.36	0.77	8.06	14.47	14.77	24.08	12.82	21.73	7.16	4.2
Lalam	0.57	0.18	0.42	0.27	3.29	3.72	0.31	0.48	0.23	0.48	3.96	7.12	4.49	7.32	6.01	10.19	5.09	2.99
Madappally	5.12	1.61	0.45	0.29	8.15	9.21	14.01	22.03	10.38	22.03	10.25	18.41	5.40	8.81	3.03	5.14	38.52	22.6
Pallom	1.96	0.61	0.44	0.29	5.96	6.74	2.43	3.82	1.80	3.82	1.22	2.18	0.44	0.72	3.54	6	15.39	9.04
Pampady	0.37	0.11	0.28	0.18	2.84	3.21	1.57	2.46	1.16	2.46	3.93	7.06	5.53	9.01	3.96	6.71	7.77	4.56
Uzhavoor	1.84	0.58	0.57	0.37	17.42	19.70	16.07	25.26	11.91	25.26	5.54	9.95	10.98	17.89	11.12	18.86	33.31	19.6
Vaikom	1.91	0.6	0.11	0.07	2.64	2.99	0.68	1.06	0.50	1.06	2.37	4.26	1.18	1.93	2.21	3.75	5.79	3.4
Vazhoor	0.66	0.21	0.39	0.26	1.98	2.24	0.14	0.22	0.11	0.22	3.89	6.98	4.22	6.88	4.46	7.55	2.66	1.56
Changanacherry (M)	0.03	0.01	0.02	0.01	0.27	0.31	0.00	0.00	0.00	0.00	0.11	0.19	0.32	0.51	0.21	0.35	0.11	0.06
Kottayam (M)	1.18	0.37	0.01	0.01	0.25	0.29	0.02	0.04	0.02	0.04	0.00	0	0.04	0.07	0.10	0.17	1.50	0.88
Pala (M0)	0.05	0.01	0.02	0.02	0.82	0.93	0.00	0.00	0.00	0.00	0.00	0	0.00	0	0.41	0.69	0.01	0.01
Vaikom (M)	0.31	0.1	0.04	0.02	0.90	1.02	0.12	0.19	0.09	0.19	1.82	3.26	1.83	2.98	0.21	0.35	0.00	0

Kottayam

Frnakulam															
Total	21.41	4.51	88.42	63.62	47.13	55.65	61.35	58.98	170.25						
Alengad	6.08	2.21	1.85	0.44	1.55	1.77	0.00	0.00	0	0.00	0	0.67	1.24	10.46	5.96
Angamali	7.27	2.64	0.23	0.10	0.15	0.17	0.00	0.00	27.11	16.93	9.52	0.22	0.41	12.92	7.36
Edappally	3.08	1.12	0.08	0.78	0.00	0.00	0.20	0.13	2.03	3.06	1.72	0.07	0.13	6.15	3.51
Koovappady	32.07	11.63	10.60	11.88	9.04	0.81	8.42	5.45	5.13	22.68	12.76	3.14	5.81	6.03	3.44
Kothamangalam	25.04	9.08	10.68	21.44	16.31	14.02	4.64	3.00	5.64	22.38	12.59	4.94	9.13	6.15	3.51
Moovattupuzha	11.46	4.16	8.61	8.67	6.60	15.57	19.01	12.30	9.04	17.08	9.61	11.52	21.3	12.92	7.36
Mulanthuruthy	2.92	1.06	4.46	0.77	0.59	0.00	0.09	0.06	0.29	0.45	0.25	0.00	0	6.46	3.68
Palluruthy	3.95	1.43	1.04	3.02	2.30	0.22	0.19	0.12	0	1.79	1.01	0.07	0.13	2.46	1.4
Pampakkuda	20.70	7.51	6.83	15.60	11.87	16.61	31.41	20.32	5.82	15.59	8.77	11.52	21.3	18.45	10.5
Parakadavu	1.98	0.72	8.63	7.64	5.81	7.23	37.93	24.54	6.07	17.16	9.65	0.30	0.55	11.38	6.49
Paravur	12.32	4.47	1.79	0.51	0.39	6.20	1.42	0.92	0	0.00	0	2.62	4.84	5.17	2.95
Vadavukkode	57.20	20.75	13.46	25.74	19.59	7.08	34.81	22.52	15.14	26.63	14.98	1.42	2.63	22.76	13
Vazhakkulam	43.29	15.7	13.87	16.31	12.41	3.03	13.81	8.93	7.84	21.71	12.21	13.24	24.48	6.15	3.51
Vypin	7.98	2.89	4.97	5.14	3.91	2.21	0.76	0.49	1.2	0.52	0.29	0.30	0.55	6.15	3.51
Kochi (C)	9.01	3.27	0.00	0.19	0.14	0.00	0.00	0.00	0	0.00	0	0.00	0	6.15	3.51
Angamaly (M)	8.14	2.95	0.00	0.06	0.05	0.90	0.09	0.06	9.65	0.60	0.34	0.22	0.41	6.15	3.51
Aluva (M)	1.58	0.57	0.14	0.51	0.39	0.30	0.34	0.12	0.4	3.43	1.93	0.15	0.28	4.61	2.63
Eloor(M)	3.95	1.43	0.14	0.16	0.06	0.07	0.08	0.00	0.07	0.22	0.12	0.00	0	1.23	0.7
Kalamassery (M)	2.37	0.86	0.00	0.39	0.30	0.00	0.66	0.43	0.25	0.00	0	0.15	0.28	5.54	3.16
Kothamangalam (M)	3.48	1.26	0.48	2.95		3.39	0.00	0.00							
Maradu (M)	2.05	0.74	0.14	0.13	0.10	0.15	0.17	0.00	0.43	0.00	0	0.00	0	1.85	1.05
Moovattupuzha (M)	0.24	0.09	1.73	4.75	3.61	5.31	0.66	0.43	0.8	1.19	0.67	0.82	1.52	3.57	2.03
North Paravur	0.95	0.34	1.38	1.54	0.00	1.45	1.66	0.00	0	0.00	0	1.50	2.77	0.62	0.35
Perumbavoor (M)	3.08	1.12	1.79	0.45	0.34	0.37	0.42	0.18	0	0.00	0	0.22	0.41	4.37	2.49
Thrikkakkara (M)	4.50	1.63	0.00	0.32	0.24	0.00	0.00	0.00	0.65	0.07	0.04	0.00	0	1.85	1.05
Thrippunithura (M)	1.03	0.37	0.62	3.15	2.40	0.74	0.85	0.00	1.26	0.00	0	0.22	0.41	3.08	1.76
Total	275.71	89.77	131.42	87.38	154.58	178.19	177.77	54.08						175.46	
Anthikkad	6.11	0.7	1.84	1.93	0.08	0.34	0.35	0.21	2.99	0.97	0.3	2.13	1.28		0
Chalakkudy	3.66	0.42	14.10	0.95	0.00	0.79	0.82	0.00	0.42	0.24	0.07	19.42	11.69	12.00	5.45
Chavakkad	0.35	0.04	0.62	0.04	0.00	0.01	0.01	0.01	1.54	2.13	0.65	0.06	0.04		0

Cherpu	0.08	0.01	1.32	0.09	0.94	0.04	0.45	0.47	0.90	0.53	0.42	0.33	0.78	0.24	1.47	0.88	0
Chowannur	49.16	5.63	29.39	1.97	7.59	0.31	8.41	8.75	27.83	16.42	12.59	9.97	72.15	22	15.42	9.28	8.28
Injalakkuda	3.23	0.37	1.26	0.08	0.62	0.03		0.00		0.00	0.33	0.26	0.26	0.08	6.53	3.93	7.51
Kodakara	11.74	1.34	14.03	0.94	3.26	0.13	0.45	0.47	0.09	0.05	3.17	2.51	4.44	1.35	13.83	8.33	12.71
Mala	13.12	1.5	28.19	1.89	0.02	0.00	0.03	0.03	0.00	0.00	0.02	0.02	0.05	0.02	14.92	8.98	22.04
Mathiakom	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0	0.00	0	0.00	0	0
Mullassery	4.74	0.54	8.69	0.58	2.51	0.10	2.43	2.53	8.00	4.72	7.84	6.21	9.07	2.77	2.92	1.76	0
Ollukara	618.51	70.77	1225.5	82.19	2030.6	82.45	3.66	3.81	2.17	1.28	7.76	6.15	9.13	2.78	10.76	6.48	0
Pazhayannur	37.89	4.34	31.64	2.12	245.19	9.96	28.49	29.65	22.81	13.46	17.99	14.25	75.06	22.89	18.02	10.85	51.49
Puzhakkal	15.07	1.72	7.35	0.49	4.33	0.18	3.43	3.57	3.04	1.79	7.92	6.27	8.96	2.73	7.99	4.81	0
Thalikkulam	10.02	1.15	2.30	0.15	30.49	1.24	12.10	12.59	28.10	16.58	13.92	11.02	13.30	4.06	4.50	2.71	1.50
Vellangallur	6.76	0.77	43.71	2.93	1.70	0.07	0.25	0.26	0.42	0.25	2.42	1.92	1.05	0.32	7.44	4.48	2.52
Wadakkancherry	77.57	8.88	64.56	4.33	119.08	4.83	29.11	30.29	71.02	41.90	35.07	27.77	100.47	30.64	20.09	12.09	98.27
Thrissur																	
Corporation	5.54	0.63	8.05	0.54	10.08	0.41	3.04	3.16	1.54	0.91	6.21	4.92	7.58	2.31	11.09	6.68	0
Chalakkudy (M)	0.16	0.02	1.20	0.08		0.00		0.00		0.00	0.00	0	0.00	0	0.86	0.52	0
Chavakkad (M)	0.55	0.06	0.03	0.00	0.62	0.03	0.09	0.09	0.06	0.04	1.27	1.01	1.15	0.35	1.13	0.68	0
Guruvayoor (M)	0.09	0.01	0.48	0.03	0.53	0.02	0.07	0.07	0.06	0.04	1.17	0.93	1.24	0.38	0.49	0.29	0
Iringalakuda (M)	0.00	0	0.93	0.06	0.87	0.04	0.07	0.07		0.00	0.14	0.11	0.39	0.12	2.21	1.33	0.05
Kodungallur (M)	0.00	0	0.18	0.01		0.00		0.00		0.00		0		0		0	0
Kunnamkulam (M)	9.57	1.1	5.69	0.38	2.47	0.10	2.87	2.99	3.07	1.81	1.78	1.41	19.53	5.96	4.84	2.91	3.80
Total	873.92		1491.1		2462.9		96.09		169.48		126.27		327.95		166.12		220.17
Alathur	28.45	14.82	50.30	5.34	50.65	5.52	45.10	11.53	0.40	0.07	120.10	8.42	75.00	6.61	80.00	13.58	162.00
Attappady	9.00	4.69	81.24	8.62	360.00	39.21	12.68	3.24	6.40	1.18	25.17	1.76	1.00	0.09	18.12	3.08	980.20
Chittoor	15.25	7.94	474.97	50.41	148.00	16.12	26.54	6.79	24.00	4.41	90.00	6.31	18.50	1.63	165.00	28	407.00
Kollengode	12.74	6.64	30.75	3.26	30.60	3.33	15.00	3.84	148.00	27.21	163.00	11.43	95.50	8.42	43.10	7.31	77.00
Kozhalmannam	22.57	11.76	49.19	5.22	42.80	4.66	23.20	5.93	10.56	1.94	140.00	9.82	250.50	22.08	75.20	12.76	64.80
Malampuzha	18.17	9.47	64.07	6.80	40.80	4.44	16.33	4.18	5.40	0.99	70.00	4.91	76.00	6.7	7.00	1.19	305.92
Mannarkkad	3.70	1.93	5.19	0.55	3.50	0.38	4.88	1.25	8.98	1.65	3.00	0.21	1.50	0.13	5.90	1	120.00
Nenmara	2.00	1.04	43.02	4.57	90.26	9.83	148.25	37.90	1.26	0.23	56.50	3.96	4.00	0.35	18.00	3.05	111.00
Ottappalam	9.20	4.79	50.78	5.39	40.00	4.36	25.60	6.55	90.50	16.64	170.30	11.94	145.20	12.8	56.46	9.58	27.04

Palakkad

	9.30	4.84	20.12	2.14	36.30	3.95	8.20	2.10	12.30	2.26	120.50	8.45	65.70	5.79	17.10	2.9	82.25	3.41
Palakkad	23.74	12.37	19.10	2.03	18.14	1.98	17.00	4.35	75.00	13.79	185.60	13.01	160.00	14.11	38.10	6.47	12.74	0.53
Pattambi																		
Sreekrishnapura	3.80	1.98	9.26	0.98	14.50	1.58	16.50	4.22	70.11	12.89	100.00	7.01	40.50	3.57	19.36	3.29	31.49	1.31
m	16.00	8.33	14.04	1.49	8.00	0.87	9.35	2.39	51.00	9.38	85.00	5.96	145.00	12.78	25.30	4.29	6.50	0.27
Thripathala																		
Chittoor (M)																		
Thathamangalam (M)		0	18.02	1.91	9.50	1.03	5.00	1.28		0.00	14.40	1.01	0.09	0.01	3.50	0.59	1.29	0.05
Offappalam (M)	1.85	0.96	2.00	0.21	7.00	0.76	12.00	3.07	12.00	2.21	36.60	2.57	28.40	2.5	3.00	0.51	7.80	0.32
Palakkad (M)	13.00	6.77	0.51	0.05	4.00	0.44	1.50	0.38		0.00	10.70	0.75	2.00	0.18		0	5.00	0.21
Shornur (M)	3.20	1.67	9.65	1.02	14.00	1.52	4.00	1.02	28.00	5.15	35.30	2.48	25.40	2.24	14.10	2.39	8.89	0.37
Total	191.97		942.21		918.05		391.13		543.91		1426.17		1134.29		589.24		2410.9	3
Balusseri	2.55	6.84	0.81	5.89	0.04	1.60	0.17	2.78	0.05	1.72	1.90	6.3	0.26	0.69	0.13	4.06		0
Chelannur	7.02	18.83	1.60	11.64	0.05	2.00	0.00	0.00	1.49	51.20		0	0.13	0.34	0.21	6.56		0
Koduvally	2.37	6.36	0.35	2.55	0.49	19.60	0.50	8.17	0.06	2.06	3.38	11.21	9.81	25.87	0.43	13.44		0
Kozhikkode	2.14	5.74	3.71	26.98	0.16	6.40	0.66	10.78		0.00	10.68	35.42	0.27	0.71	1.27	39.69		0
Kunnamangalam	4.17	11.19	1.34	9.75	0.13	5.20	0.39	6.37	0.00	0.07	1.92	6.37	3.09	8.15	0.33	10.31		0
Kunnummel	4.92	13.2	0.10	0.73	0.27	10.80	0.08	1.31	0.38	13.06	4.11	13.63	10.45	27.56	0.02	0.63		0
Melady	1.18	3.17	0.33	2.40	0.04	1.60	0.29	4.74	0.02	0.69	0.75	2.49	0.06	0.16	0.36	11.25		0
Panthalayini	2.90	7.78	0.85	6.18	0.05	2.00	0.11	1.80	0.15	5.15	0.06	0.2	0.30	0.79	0.04	1.25	0.33	100
Perambra	3.36	9.01	1.96	14.25	0.26	10.40	0.52	8.50	0.48	16.49	0.15	0.5	2.16	5.7	0.20	6.25		0
Thodannoor	0.72	1.93	0.21	1.53		0.00		0.00		0.00		0	0.55	1.45		0		0
Thuneri	2.36	6.38	0.89	6.47	0.65	26.00	3.12	50.98	0.17	5.84	3.40	11.28	10.56	27.85	0.10	3.13		0
Vadakara	0.13	0.35	0.06	0.44	0.03	1.20		0.00		0.00		0		0		0		0
Kozhikkode (C)	3.24	8.69	1.52	11.05	0.31	12.40	0.27	4.41	0.08	2.75	3.74	12.4	0.22	0.58	0.12	3.75		0
Quilandy (M)	0.20	0.54	0.02	0.15	0.02	0.80	0.01	0.16	0.01	0.34	0.06	0.2	0.06	0.16		0		0
Total	37.28		13.75		2.50		6.12		2.91		30.15		37.92		3.20		0.33	
Kalpetta	0.17	3.12	19.06	693.09		0.00		0.00	0.77	12.90	125.21	65.25	48.22	70.47	45.60	52.25		0
Mananthavady	1.00	18.35	0.80	29.09	1.20	43.32	0.50	18.32	1.50	25.13	2.50	1.3	0.70	1.02	0.80	0.92	15.00	72.4
Panamaram	3.57	65.5	0.79	28.73	0.77	27.80	1.60	58.61	1.23	20.60	56.03	29.2	17.91	26.17	22.17	25.4	5.72	27.6
Sulthan Bathery	0.71	13.03	1.16	42.18	0.80	28.88	0.63	23.08	2.47	41.37	1.96	1.02		0	16.66	19.09		0
Kalpetta (M)		0		0.00		0.00		0.00		0.00	6.18	3.22	1.60	2.34	2.04	2.34		0
Total	5.45		2.75		2.77		2.73		5.97		191.88		68.43		87.27		20.72	

	Edakkad	4.20	3.53	0.93	2.60	2.48	1.74	1.85	5.35	7.11	4.04	3.41	2.71	0.37	0.18	1.69	6.9	0.12	0.19
Kannur	Irikkur	0.04	0.03	0.29	0.81	2.38	1.67	1.00	2.89	14.38	8.17	36.31	28.82	1.53	0.74	2.45	10	0.04	0.06
	Iritty	5.06	4.25	0.80	2.24	1.97	1.38	1.95	5.64	21.79	12.38	27.71	22	2.16	1.04	0.89	3.63	0.86	1.35
	Kallisseri	1.88	1.58	0.16	0.45	1.06	0.75	2.57	7.43	4.59	2.61	0.30	0.24	11.86	5.71	1.33	5.43	26.88	42.1
	Kannur	0.49	0.41	0.20	0.56	2.26	1.59	2.77	8.01	13.19	7.49	0.59	0.47	16.60	7.99	3.43	14	0.89	1.39
	Koolhuparamba	5.18	4.35	30.91	86.53	1.35	0.95	11.49	33.23	6.57	3.73	0.30	0.24	26.53	12.77	1.10	4.49	2.15	3.37
	Panoor	5.04	4.23	0.09	0.25	1.12	0.79	0.79	2.28	0.00	0.00	1.78	1.41	34.61	16.66	2.49	10.16	1.93	3.03
	Payyannur	4.19	3.52	0.56	1.57	3.92	2.76	1.28	3.70	1.93	1.10	5.48	4.35	20.46	9.85	2.80	11.43	0.15	0.24
	Peravoor	4.42	3.71	0.58	1.62	2.31	1.62	1.38	3.99	50.48	28.67	18.97	15.06	28.75	13.84	1.15	4.69	0.48	0.75
	Thalasseri	3.72	3.12	0.35	0.98	1.78	1.25	3.93	11.36	2.37	1.35	17.78	14.11	52.61	25.32	1.44	5.88	29.85	46.8
	Thaliparamba	84.83	71.26	0.85	2.38	121.64	85.50	4.05	11.71	53.65	30.47	13.34	10.59	12.30	5.92	5.73	23.39	0.45	0.71
Kasaragode	Total	119.05		35.72		142.27		34.58		176.06		125.97		207.78		24.50		63.80	
	Kanhangad		0		0.00	3.44	10.52		0.00		0.00		0		0	3.44	7.1	2.75	51
	Kasaragod	14.07	30.16	26.21	29.34	4.05	12.38	3.10	21.69	54.06	29.51	6.91	18.55	14.21	24.39	8.72	17.99		0
	Karadukka	2.74	5.87	27.10	30.34	12.49	38.18	2.71	18.96	37.81	20.64	5.77	15.49	9.18	15.76	13.68	28.23		0
	Manjeswar	29.81	63.9	33.78	37.82	12.55	38.37	8.48	59.34	80.77	44.09	24.57	65.96	34.86	59.85	18.40	37.97		0
	Parappa		0	2.11	2.36	3.44	10.52		0.00	10.54	5.75		0		0	4.22	8.71	2.64	49
	Kasaragod (M)	0.03	0.06	0.12	0.13	0.18	0.55	0.00	0.00		0.00		0		0	3.44	7.1		0
	Total	46.65		89.32		32.71		14.29		183.18		37.25		58.25		48.46		5.39	

TABLE 37
Block wise Production and Production participation of Vegetables in Winter season

District	BLOCK	Amaranth		Lady's finger		Bitter guard		Snake guard		Cucumber		Pumpkin		Ash guard		Brinjal		Cowpea	
		production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation
Thiruvananthapuram	Athiyannur	88.46	34.77	13.25	10.12	0.51	0.29	0.32	0.33	1.36	0.70	0.02	0.06		0.00	6.85	3.99	21.72	55.55
	Chirayinkeezhu	11.74	4.61	11.09	8.47	30.65	17.58	18.01	18.37	0.34	0.18		0.00		0.00	24.70	14.39	0.47	1.2
	Kilimanor	34.41	13.53	10.70	8.17	39.00	22.37	3.63	3.70	0.90	0.46		0.00	0.07	0.83	24.68	14.38	0.03	0.08
	Nedumangad	4.62	1.82	2.88	2.20	3.91	2.24	0.71	0.72	5.26	2.72	2.96	8.81		0.00	1.51	0.88		0
	Nemom	8.62	3.39	1.35	1.03	2.88	1.65	2.09	2.13	1.38	0.71	0.02	0.06	0.01	0.12	3.12	1.82	1.07	2.74
	Paraseala	11.97	4.71	8.14	6.22	0.55	0.32	16.17	16.50	38.52	19.89	13.67	40.71	0.40	4.72	14.78	8.61	9.60	24.55
	Perumkadavila	0.70	0.28	2.16	1.65	0.43	0.25	0.00	0.00	0.79	0.41		0.00		0.00	3.29	1.92	0.76	1.94
	Pothencode	7.72	3.03	6.96	5.32	8.24	4.73	5.25	5.36	3.24	1.67	1.03	3.07	0.64	7.56	6.69	3.90	0.08	0.2
	Vamanapuram	11.53	4.53	9.65	7.37	18.03	10.34	7.27	7.42	2.97	1.53	4.24	12.63	0.91	10.74	5.39	3.14		0
	Varkala	22.53	8.86	14.80	11.30	28.27	16.22	0.07	0.07	0.89	0.46		0.00		0.00	18.41	10.72		0
	Vellanad	1.55	0.61	1.56	1.19	3.49	2.00	0.99	1.01	2.50	1.29	3.78	11.26		0.00	1.50	0.87		0
	TVPM(C)	35.65	14.01	35.95	27.45	25.96	14.89	32.66	33.32	17.06	8.81	6.79	20.22	6.38	75.32	45.86	26.71	0.65	1.66
	Attingal (M)	0.70	0.28	3.39	2.59	2.53	1.45	1.43	1.46		0.00		0.00		0.00	7.20	4.19		0
	Nedumangad (M)	1.30	0.51	0.54	0.41	0.58	0.33	0.43	0.44	0.81	0.42	1.07	3.19		0.00	0.48	0.28		0
	Neyyattinkara (M)	7.04	2.77	2.74	2.09	0.61	0.35	8.99	9.17	117.25	60.55		0.00		0.00	2.65	1.54	4.72	12.07
	Varkala (M)	5.86	2.30	5.79	4.42	8.70	4.99		0.00	0.38	0.20		0.00	0.06	0.71	4.57	2.66		0
	Total	254.40		130.95		174.34		98.02		193.65		33.58		8.47		171.68		39.10	
Kollam	Anchel	12.74	2.06	1.08	1.14	26.89	15.09	1.86	1.70	1.75	4.62	0.56	2.34	0.95	2.01	19.08	25.65	12.34	26.17
	Chadayamangalam	1.15	0.19	10.37	10.96	16.20	9.09	2.76	2.53	0.25	0.66	5.22	21.8	1.10	2.33	4.71	6.33	0.00	0
	Chavara	13.58	2.19	7.93	8.38	13.74	7.71	7.72	7.07	6.35	16.76	0.53	2.21	2.40	5.08	13.10	17.61	14.81	31.4
	Chittumala	2.91	0.47	10.21	10.79	2.48	1.39	38.30	35.09	1.55	4.09	0.13	0.54	1.90	4.02	2.95	3.97	0.00	0
	Itikkara	56.58	9.13	13.10	13.84	3.34	1.87	1.63	1.49	2.40	6.34	0.15	0.63	2.75	5.82	3.32	4.46	0.00	0
	Koilarakkara	78.07	12.6	10.70	11.31	30.55	17.14	2.22	2.03	2.52	6.65	0.78	3.26	1.08	2.28	4.79	6.44	0.00	0
	Mukhathala	34.43	5.56	4.69	4.96	6.48	3.64	1.50	1.37	1.80	4.75	0.07	0.29	2.75	5.82	3.47	4.66	0.00	0

Oachira	56.83	9.17	0.72	0.76	10.87	6.10	2.55	2.34	1.10	2.90	0.00	0	16.80	35.54	4.56	6.13	0.97	2.06
Pathanapuram	139.00	22.43	14.33	15.14	15.41	8.65	2.95	2.70	0.84	2.22	0.84	3.51	0.90	1.9	0.44	0.59	6.44	13.66
Vetikavala	97.48	15.73	5.97	6.31	23.96	13.44	1.76	1.61	1.31	3.46	9.72	40.6	13.34	28.22	3.32	4.46	0.00	0
Karunagappally (M)	43.26	6.98	11.13	11.76	16.88	9.36	17.90	16.40	1.15	3.04	0.00	0	1.50	3.17	3.74	5.03	4.90	10.39
Paravoor (M)	17.50	2.82	1.17	1.24	1.35	0.76	1.60	1.47	0.41	1.08	0.00	0	0.15	0.32	1.98	2.66	0.00	0
Punalloor (M)	28.00	4.52	1.19	1.26	3.51	1.97	16.93	15.51	1.75	4.62	5.94	24.81	0.15	0.32	5.37	7.22	0.00	0
Kollam (C)	38.22	6.17	2.04	2.16	6.78	3.80	9.46	8.67	14.70	38.81	0.00	0	1.50	3.17	3.57	4.8	7.70	16.33
Total	619.75		94.63		178.24		109.14		37.88		23.94		47.27		74.40		47.16	
Elanthur	26.18	73.44	21.42	59.58	39.00	150.23	16.29	49.88	28.43	166.65	14.08	207.4	35.07	549.69	37.61	82.01	7.38	10.47
Koipram	23.92	67.1	37.83	105.2	38.16	147.00	12.03	38.83	9.25	54.22	8.14	119.9	34.38	538.87	27.83	60.68	1.81	2.57
Konni	14.87	41.71	21.26	59.14	19.23	74.08	4.94	15.13	12.99	76.14	12.19	179.5	30.53	478.53	27.98	61.01	3.25	4.61
Mallappally	74.19	208.1	84.56	235.2	110.71	426.46	30.69	93.97	20.23	118.58	15.60	229.8	77.92	1221.3	82.56	180	16.63	23.6
Pandalam	60.08	168.5	21.00	58.41	14.48	55.78	1.47	4.50	4.84	28.37	3.12	45.95	3.13	49.06	25.16	54.86	11.11	15.76
Parakode	40.55	113.7	25.88	71.99	6.69	25.77	31.60	96.75	19.79	116.00	3.59	52.87	3.35	52.51	24.30	52.99	2.47	3.5
Pulikeezhu	6.05	16.97	0.97	2.7	1.60	6.16	0.13	0.40	0.89	5.22	3.02	44.48	3.48	54.55	1.83	3.99	0.51	0.72
Ranni	24.14	67.71	4.75	13.21	12.69	48.88	5.30	16.23	15.30	89.68	13.84	203.8	11.53	180.72	5.93	12.93	24.48	34.73
Adoor (M)	14.68	41.18	7.39	20.56	3.62	13.94	0.21	0.64	0.32	1.88	0.16	2.36	0.54	8.46	6.79	14.81	0.58	0.82
Pathanamthitta (M)	18.26	51.22	13.83	38.47	5.39	20.76	0.48	1.47	0.47	2.75	2.06	30.34	2.17	34.01	18.98	41.39	2.20	3.12
Thiruvalla (M)	2.49	6.98	0.31	0.86	0.53	2.04		0.00	0.52	3.05	1.90	27.98	1.44	22.57	0.72	1.57	0.06	0.09
Total	305.41		239.20		252.10		103.14		113.03		77.70		203.54		259.69		70.48	
Ambalapuzha	61.70	7.96	30.02	12.12	70.79	14.52	12.24	5.08	5.20	5.82	0.60	1.35	1.00	3.31	8.30	8.4	0.89	2.64
Aryad	51.40	6.63	50.25	20.29	47.84	9.81	14.64	6.08	7.00	7.84	0.81	1.83	1.02	3.38	20.05	20.29	0.95	3.63
Bharanikkavu	4.47	0.58	71.95	29.05	30.16	6.19	2.16	0.90	10.60	11.87	5.10	11.51	1.44	4.77	14.04	14.21	0.17	0.65
Chambakkulam	2.68	0.35	32.01	12.92	21.63	4.44	5.64	2.34	16.66	18.66	0.15	0.34		0	0.00	0	0.29	1.11
Chengannur	9.21	1.19	10.65	4.3	45.94	9.42	5.48	2.28	1.10	1.23	4.29	9.68	5.40	17.88	1.96	1.98	0.98	3.74
Harippad	55.83	7.21	12.54	5.06	15.89	3.26	16.80	6.98	3.50	3.92	0.68	1.53	2.07	6.85	9.07	9.18	1.76	6.73
Kanjikuzhi	1.90	0.25	7.76	3.13	30.10	6.17	29.92	12.42	16.70	18.70	8.54	19.27	5.09	16.85	1.51	1.53	1.75	6.69
Mavelikkara	71.80	9.27	10.12	4.09	17.78	3.65	39.60	16.44	14.60	16.35	3.15	7.11	2.43	8.05	6.01	6.08	0.20	0.76
Muthukulam	67.30	8.69	0.25	0.1	12.88	2.64	14.88	6.18	1.60	1.79	3.55	8.01	0.77	2.55	1.68	1.7	0.71	2.71
Pattanakad	61.51	7.94	0.45	0.18	22.73	4.66	16.80	6.98	1.90	2.13	2.84	6.41	5.10	16.89	12.48	12.63	0.47	1.8

Kottayam	Thyattussery	50.96	6.58	1.33	0.54	51.97	10.66	32.76	13.60	1.80	2.02	3.64	8.21	1.48	4.9	1.03	1.04	1.30	4.97
	Veliyanad	32.11	4.14	17.14	6.92	46.23	9.48	6.36	2.64	0.84	0.94	0.30	0.68	0.00	0	0.07	0.07	0.20	0.76
	Alappuzha (M)	71.14	9.18	0.76	0.31	7.35	1.51	26.16	10.86	3.30	3.70	0.03	0.07	0.17	0.56	3.17	3.21	0.11	0.42
	Cherthala (M)	61.19	7.90	0.04	0.02	11.20	2.30	10.92	4.53	2.80	3.14	6.00	13.54	2.00	6.62	5.05	5.11	11.12	42.49
	Chengannur (M)	80.90	10.44	1.08	0.44	7.70	1.58	1.08	0.45	0.00	0.00	4.00	9.03		0	1.92	1.94	4.50	17.2
	Kayamkulam (M)	48.50	6.26	1.25	0.5	9.73	2.00	2.64	1.10	0.90	1.01	0.45	1.02	1.81	5.99	12.43	12.58	0.97	3.71
	Mavelikkara (M)	42.22	5.45	0.10	0.04	37.70	7.73	2.76	1.15	0.80	0.90	0.19	0.43	0.42	1.39	0.06	0.06	0.00	0
	Total	774.83		247.70		487.82		240.84		89.30		44.32		30.20		98.83		26.17	
	Erattupetta	6.53	5.63	2.72	5.65	0.36	5.56	3.21	1.46	0.30	0.34	4.42	9.92	3.94	7.14	7.68	9.77	21.88	4.51
	Ettumanoor	2.41	2.08	1.00	2.08	0.32	4.94	50.49	22.92	2.29	2.56	2.47	5.55	0.77	1.39	1.94	2.47	37.69	7.77
	Kaduthuruthy	26.15	22.54	10.90	22.61	0.95	14.66	0.08	0.04	9.70	10.86	4.74	10.65	6.24	11.3	4.92	6.26	18.36	3.79
	Kanjirappally	5.76	4.96	2.40	4.98	0.09	1.39	4.79	2.17	0.27	0.30	6.44	14.47	13.29	24.09	17.09	21.73	39.78	8.2
	Lalam	3.15	2.72	1.31	2.72	0.28	4.32	3.00	1.36	1.92	2.15	3.17	7.12	4.04	7.32	8.02	10.19	13.19	2.72
	Madappally	28.13	24.25	11.72	24.32	0.49	7.56	109.63	49.76	23.86	26.71	8.19	18.41	4.86	8.81	4.04	5.14	75.54	15.57
	Pallom	10.76	9.27	4.48	9.30	0.17	2.62	23.67	10.74	16.29	18.24	0.97	2.18	0.39	0.72	4.72	6	52.21	10.76
	Pampady	2.01	1.73	0.84	1.74	0.34	6.25	15.27	6.93	8.05	9.01	3.14	7.06	4.98	9.02	5.28	6.71	19.88	4.1
	Uzhavoor	10.10	8.70	4.21	8.73	0.06	0.93	0.71	0.32	23.38	26.18	4.43	9.95	9.87	17.9	14.83	18.86	141.16	29.1
	Vaikom	10.51	9.06	4.38	9.09	0.26	4.01	6.58	2.99	1.76	1.97	1.89	4.26	1.06	1.93	2.95	3.75	20.56	4.24
	Vazhoor	3.61	3.11	1.51	3.12	0.70	10.80	1.39	0.63	1.39	1.56	3.11	6.98	3.78	6.88	5.94	7.55	19.64	4.05
	Changanacherry (M)	0.11	0.09	0.01	0.03	0.48	7.41	0.03	0.01	0.00	0.00	0.00	0.08	0.19	0.28	0.51	0.28	0.35	0.05
Kottayam (M)	4.60	3.97	1.92	3.98	0.70	10.80	0.24	0.11	0.00	0.00	0.00	0	0.00	0	0.13	0.17	9.17	1.89	
Pala (MO)	0.32	0.28	0.02	0.04	0.43	6.64	0.03	0.01	0.00	0.00	0.00	0	0.00	0	0.54	0.69	11.62	2.4	
Vaikom (M)	1.86	1.61	0.78	1.61	0.85	13.12	1.18	0.54	0.10	0.11	1.45	3.26	1.64	2.98	0.28	0.35	4.16	0.86	
Total	116.03		48.20		6.48		220.30		89.30		44.52		55.18		78.64		485.08		
Erannkulam	Alengad	16.35	3.68	5.18	4.28	18.10	13.90	9.96	9.20	11.35	12.63	0.90	0.95	8.58	3.52	6.43	4.26	11.07	6.29
	Angamali	27.41	6.17	11.11	9.18	1.27	0.98	15.50	14.32	2.99	3.33	1.42	1.5	1.96	0.8	14.81	9.81	13.53	7.69
	Edapally	23.86	5.37	1.17	0.97	7.90	6.07	0.00	0.00	1.89	2.10	6.18	6.54	7.09	2.91	3.44	2.28	7.38	4.2
	Koovappady	9.95	2.24	2.76	2.28	7.96	6.11	0.59	0.55	1.62	1.80	6.25	6.61	23.50	9.63	21.47	14.22	4.49	2.55
	Kothamangalam	23.70	5.33	5.24	4.33	1.97	1.51	6.34	5.86	0.66	0.73	9.34	9.88	14.17	5.81	5.83	3.86	7.87	4.47
	Moovattupuzha	37.37	8.41	12.70	10.49	1.56	1.20	2.21	2.04	12.30	13.69	2.11	2.23	13.58	5.57	18.55	12.28	8.84	5.03
	Mulanthuruthy	13.19	2.97	6.56	5.42	30.63	23.52	11.66	10.78	3.78	4.21	1.55	1.64	7.83	3.21	7.48	4.95	7.18	4.08

	24.02	5.4	3.38	2.79	8.03	6.17	7.01	6.48	1.99	2.22	8.18	8.66	4.18	1.71	0.82	0.54	3.69	2.1
Palluruthy	50.46	11.35	21.36	17.64	2.39	1.84	4.22	3.90	12.44	13.85	6.64	7.03	19.62	8.04	10.56	6.99	5.75	3.27
Pampakkuda	54.59	12.28	13.25	10.94	2.47	1.90	12.92	11.94	7.80	8.68	8.18	8.66	34.99	14.34	4.41	2.92	0.98	0.56
Parakadavu	12.32	2.77	1.79	1.48	0.51	0.39	6.19	5.72	1.42	1.58	0.00	0	0.00	0	2.62	1.73	6.77	3.85
Paravur	16.12	3.63	0.55	0.45	3.66	2.81	0.74	0.68	6.62	7.37	3.35	3.55	32.45	13.3	21.77	14.42	0.00	0
Vadavukkode	19.91	4.48	8.14	6.72	1.57	1.21	6.27	5.79	15.04	16.74	4.89	5.18	23.49	9.63	8.98	5.95	13.84	7.87
Vazhakkulam	36.50	8.21	1.31	1.08	1.54	1.18	1.33	1.23	0.00	0.00	0.06	0.06	0.52	0.21	0.29	0.19	12.30	6.99
Vypin	15.64	3.52	2.21	1.83	0.24	0.18	4.94	4.57	0.76	0.85	4.51	4.77	7.16	2.93	6.21	4.11	7.99	4.54
Kochi (C)	1.11	0.25	6.90	5.7	9.63	7.40	3.99	3.68	0.66	0.73	6.02	6.37	9.30	3.81	1.50	0.99	13.84	7.87
Angamaly (M)	1.74	0.39	0.35	0.29	2.57	1.97	2.58	2.38	0.38	0.42	0.32	0.34	3.88	1.59	1.72	1.14	6.77	3.85
Aluva (M)	0.47	0.11	0.41	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.41	0.00	0	0.00	0	2.46	1.4
Eloor (M)	9.72	2.19	1.04	0.86	3.08	2.37	0.00	0.00	1.14	1.27	1.80	1.9	4.63	1.9	2.54	1.68	7.38	4.2
Kalamassery (M)	3.40	0.77	0.62	0.51	2.95	2.27	3.39	3.13	0.00	0.00	3.35	3.55	6.12	2.51	0.45	0.3	6.77	3.85
Kothamangalam (M)	13.67	3.08	7.59	6.27	6.03	4.63	3.39	3.13	0.00	0.00	5.28	5.59	4.10	1.68	1.27	0.84	3.08	1.75
Maradu (M)	0.08	0.02	1.17	0.97	5.39	4.14	0.15	0.14	0.66	0.73	3.67	3.88	0.22	0.09	2.84	1.88	1.76	1
Moovattupuzha (M)	0.79	0.18	1.24	1.02	0.00	0.00	0.17	0.16	0.00	0.00	0.00	0	0.00	0	1.65	1.09	5.54	3.15
North Paravur (M)	4.42	0.99	0.28	0.23	1.61	1.24	0.74	0.68	5.11	5.69	0.32	0.34	1.42	0.58	0.97	0.64	6.77	3.85
Perumbavoor (M)	11.38	2.56	1.24	1.02	7.58	5.82	2.88	2.66	0.19	0.21	4.18	4.42	6.34	2.6	1.57	1.04	4.31	2.45
Thrikkakkara (M)	16.27	3.66	3.52	2.91	1.57	1.21	1.04	0.96	1.04	1.16	5.60	5.93	8.88	3.64	2.92	1.93	5.54	3.15
Thrippunithura (M)	444.44	121.07			130.21		108.21		89.84		94.49		244.01		151.10		175.90	
Total	22.77	10.85	13.36	7.55		6.55	7.83	12.39	7.76	5.50	34.82	19.54	9.96	5.41	14.07	7.13	10.21	10.04
Anthikkad	10.34	4.93	22.28	12.59	2.82	1.58	1.76	2.79		0.00	8.87	4.98	5.59	3.04	27.19	13.78		0
Chalakkudy	0.73	0.35	5.08	2.87	1.39	0.78	0.71	1.12	0.65	0.46	1.73	0.97	4.22	2.29	0.19	0.1	5.23	5.14
Chavakkad	8.73	4.16	3.08	1.74	11.31	6.34	1.33	2.11	1.35	0.96	1.24	0.7	2.50	1.36	4.76	2.41	0.03	0.03
Cherpu	11.01	5.25	9.88	5.58	12.52	7.01	8.20	12.98	10.08	7.15	1.39	0.78	3.25	1.77	11.27	5.71	12.50	12.29
Chowannur	9.92	4.73	2.85	1.61	3.91	2.19	3.42	5.41	1.63	1.16	6.62	3.72	7.19	3.91	8.59	4.35	3.36	3.3
Irinjalakkuda	18.17	8.66	15.04	8.5	7.02	3.93	2.75	4.35	0.57	0.40	9.87	5.54	9.84	5.34	18.76	9.51	6.54	6.43
Kodakara	16.76	7.99	18.79	10.62	12.81	7.18	5.46	8.64	2.07	1.47	10.30	5.78	4.77	2.59	21.15	10.72		0
Mela	10.19	4.86	1.20	0.68	12.53	7.02	0.00	0.00	4.78	3.39	0.00	0	0.19	0.1	1.01	0.51	2.56	2.52
Mathilakom	5.00	2.38	5.96	3.37	3.91	2.19	3.68	5.82	3.28	2.33	5.45	3.06	9.26	5.03	0.56	0.28	0.05	0.05
Mullassery	3.94	1.88	8.77	4.96	20.52	11.50	2.33	3.69	2.78	1.97	3.54	1.89	6.87	3.73	9.63	4.88		0
Ollukkara	7.50	3.57	4.24	2.4	12.75	7.14	5.75	9.10	38.50	27.30	12.60	7.07	38.90	21.13	9.89	5.01	2.99	2.94
Pazhayannur																		

Thiruvananthapuram

Puzhakkal	25.60	12.2	13.06	7.38	6.78	3.80	0.16	0.25	10.00	7.09	17.45	9.79	39.15	21.26	15.58	7.9	4.25	4.18
Thalikkulam	11.15	5.31	2.10	1.19	5.43	3.04	6.99	11.08	1.40	0.99	25.20	14.14	12.90	7.01	10.10	5.12	3.23	3.18
Vellengallur	12.91	6.15	14.82	8.38	14.80	8.29	2.63	4.16	16.62	11.79	6.69	3.76	6.47	3.51	9.42	4.77		0
Wadakkancherry	5.60	2.67	6.20	3.5	7.49	4.20	7.50	11.87	33.65	23.86	24.03	13.49	16.82	9.14	6.68	3.39	18.19	17.88
Thirissur Corporation	5.34	2.55	6.96	3.93	7.15	4.01	0.92	1.46	0.96	0.68	2.02	1.13	2.91	1.58	6.17	3.13	2.74	2.69
Chalakkudy (M)	10.30	4.91	3.40	1.92	10.16	5.69	0.12	0.19	1.00	0.71	0.27	0.15	0.20	0.11	4.36	2.21	12.35	12.14
Chavakkad (M)	0.89	0.42	1.41	0.8	10.49	5.88	0.78	1.23	1.41	1.00	1.13	0.63	0.62	0.34	10.46	5.3		0
Guruvayoor (M)	9.36	4.46	5.44	3.07	0.33	0.18	0.67	1.06	1.30	0.92	1.56	0.88	0.21	0.11	0.73	0.37	5.46	5.37
Iringalakkuda (M)	3.15	1.5	2.11	1.19	1.22	0.68	0.19	0.30	1.16	0.82	2.73	1.53	1.51	0.82	2.33	1.18	4.48	4.4
Kodungallur (M)	0.42	0.2	5.53	3.13	0.98	0.55		0.00		0.00	0.00	0	0.60	0.33	0.37	0.19	7.56	7.43
Kunnankulam (M)	0.02	0.01	5.38	3.04	0.48	0.27		0.00	0.07	0.05	0.65	0.36	0.19	0.1	4.02	2.04		0
Total	208.80		176.94		178.50		63.18		141.02		178.16		184.12		197.29		101.73	
Alathur	0.37	2.9	2.86	264.8	3.82	2.77	0.87	2.93	2.07	1.02	15.25	8.42	26.00	12.84	1.20	1.89	100.49	14.94
Attappady	0.63	4.95	1.12	103.7	1.90	1.38	1.12	3.77	5.90	2.89	10.97	6.05	1.26	0.62	5.40	8.53	50.20	7.46
Chittoor	11.06	86.81	2.45	226.9	6.61	4.79	1.61	5.42	61.25	30.05	19.20	10.6	1.73	0.85	1.47	2.32	40.70	6.05
Kollengode	1.60	12.56	2.40	222.2	3.19	2.31	2.60	8.75	6.42	3.15	5.60	3.09	11.73	5.79	1.01	1.59	77.00	11.45
Kozhalmannam	0.80	6.28	0.65	60.19	2.14	1.55	1.21	4.07	8.03	3.94	16.70	9.22	8.08	3.99	7.00	11.05	64.80	9.63
Malampuzha	0.86	6.75	4.30	398.2	9.08	6.58	0.80	2.69	15.81	7.76	5.30	2.93	3.46	1.71	4.24	6.69	2.92	0.43
Mannarkkad	0.19	1.49	6.20	574.1	18.47	13.39	1.94	6.53	14.80	7.26	5.10	2.81	8.15	4.03	7.93	12.52	120.00	17.84
Nenmara	0.10	0.78	3.70	342.6	3.69	2.67	1.44	4.84	5.13	2.52	5.50	3.04	17.90	8.84	5.00	7.89	111.00	16.5
Ottappalam	0.30	2.35	1.59	147.2	1.31	0.95	0.01	0.03	14.28	7.01	36.25	20.01	18.31	9.04	2.01	3.17	27.04	4.02
Palakkad	0.41	3.22	0.85	78.7	18.72	13.57	0.56	1.88	14.59	7.16	2.80	1.55	28.00	14.32	1.63	2.57	7.25	1.08
Pattambi	0.96	7.54	1.25	115.7	18.67	13.53	0.16	0.54	7.90	3.88	26.00	14.35	33.00	16.3	7.20	11.37	12.74	1.89
Sreekishnapuram	0.05	0.39	12.60	1167	16.50	11.96	1.31	4.41	3.15	1.55	4.22	2.33	0.31	0.15	10.37	16.37	29.00	4.31
Thrihala	0.01	0.08	0.52	48.15	12.44	9.02	2.70	9.08	3.99	1.96	14.36	7.93	22.47	11.1	4.04	6.38	6.50	0.97
Chittur																		
Thathamangalam(m)	0.76	5.97	0.45	41.67	4.92	3.57	2.07	6.96	0.49	0.24	5.93	3.27	0.09	0.04	0.29	0.46	1.30	0.19
Ottappalam (M)	0.44	3.45	0.30	27.78	3.71	2.69	1.80	6.05	10.25	5.03	2.30	1.27	10.99	5.43	1.80	2.84	7.80	1.16
Palakkad (M)	0.74	5.81	0.01	0.93	2.91	2.11	0.12	0.40	11.42	5.60	2.70	1.49	6.91	3.41	0.05	0.08	5.00	0.74
Shornur (M)	0.60	4.71	0.02	1.85	9.88	7.16	9.41	31.65	18.36	9.01	3.00	1.66	3.08	1.52	2.70	4.26	8.89	1.32
Total	19.88		41.27		137.96		29.73		203.84		181.18		202.47		63.34		672.63	
Balussery	7.08	3.78	4.10	5.11	13.07	9.76	1.85	2.47	9.68	4.76	4.00	3.76	2.10	2.25	3.67	13.46		0

Palakkad

K N

Chelannur	4.75	2.54	4.49	5.6	6.09	4.55	1.64	2.19	10.99	5.41	2.20	2.07	3.29	3.53	0.16	0.59	1.23	12.8
Koduvally	3.69	1.97	0.75	0.93	1.26	0.94	1.33	1.77	20.67	10.17	8.83	8.24	11.41	12.23	0.81	2.97		0
Kozhikkode	1.79	0.96	3.06	3.81	5.45	4.07	5.31	7.08	11.96	5.89	7.56	7.1	1.06	1.14	0.60	2.2		0
Kunnamangalam	0.76	0.41	2.50	3.12	10.22	7.63	0.13	0.17	12.26	6.03	10.77	10.12	4.80	5.14	0.93	3.41	3.25	33.82
Kunnummel	29.15	15.56	4.96	6.18	1.51	1.13	4.72	6.30	15.49	7.62	11.88	11.16	11.39	12.21	0.64	2.35	1.13	11.76
Melady	46.75	24.95	11.79	14.69	3.85	2.88	19.12	25.50	12.26	6.03	9.13	8.58	15.20	16.29	5.56	20.39		0
Panthalayal	21.35	11.38	10.78	13.43	11.29	8.43	9.30	12.40	10.42	5.13	3.85	3.62	5.33	5.71	1.65	6.05	2.53	26.33
Perambra	9.42	5.03	7.40	9.22	4.43	3.31	5.10	6.80	12.48	6.14	2.97	2.79	6.31	6.76	5.10	18.7	0.61	6.35
Thodannoor	13.36	7.13	3.77	4.7	12.01	8.87	9.28	12.38	17.06	8.40	0.69	0.65	8.49	9.1	0.70	2.57		0
Thuneri	12.73	6.79	8.71	10.85	1.66	1.24	10.03	13.38	10.04	4.94	31.70	29.79	14.59	15.64	4.41	16.17		0
Vadakara	18.01	9.61	11.21	13.97	1.85	1.38	4.51	6.02	12.34	6.07	6.44	6.05	2.13	2.28	1.29	4.73		0
Kozhikode (C)	5.98	3.19	4.05	5.05	20.29	15.16	0.37	0.49	12.09	5.85	3.67	3.45	0.37	0.4	0.61	2.24	0.05	0.52
Quilandy (M)	8.74	4.66	1.72	2.14	30.59	22.85	1.31	1.75	23.37	11.50	1.72	1.62	4.29	4.6	0.57	2.09	0.81	8.43
Vadakara (M)	3.81	2.03	0.95	1.18	10.29	7.69	0.97	1.29	12.04	5.93			0	2.55	0.57	2.09		0
Total	187.37		80.24		133.86		74.97		203.15		106.41		93.31		27.27		9.61	
Kalpetta	2.59	10.4	0.18	3.6	0.96	0.45		0.00		0.00	0.75	0.59	0.36	0.21	72.02	62.19	0.00	0
Mananthavady	10.40	41.77	0.33	6.6	200.00	94.10	0.60	9.35	5.70	34.82	32.00	25.36	11.00	6.56	1.88	1.62	15.00	99.21
Panamaram	4.28	17.19	1.79	35.8	2.58	1.21	1.50	23.36	2.11	12.89	89.82	71.18	152.45	80.95	24.03	20.75	0.12	0.79
Sulthan Bathery	7.46	29.96	2.68	53.6	8.95	4.21	4.32	67.29	8.56	52.29	3.59	2.84	3.81	2.27	14.12	12.19		0
Kalpetta (M)	0.17	0.68	0.02	0.4	0.05	0.02		0.00		0.00	0.03	0.02		0	3.75	3.24		0
Total	24.90		5.00		212.54		6.42		16.37		126.19		167.62		115.80		15.12	
Edakkad	20.05	8.72	3.25	5.54	30.96	14.35	1.28	2.72	33.41	10.60	0.00	0	8.60	6.07	8.09	14.84		0
Irikur	2.91	1.27	1.98	3.38	9.36	4.34	9.00	19.15	35.96	11.40	1.51	0.85	4.22	2.98	2.16	3.96	4.84	2.97
Iritty	2.99	1.3	3.66	6.24	8.67	4.02	4.94	10.51	1.69	0.54	9.20	5.16	2.53	1.79	2.79	5.12	6.95	4.26
Kalliaseri	24.01	10.44	14.15	24.13	4.74	2.20	9.47	20.15	22.53	7.15	30.86	17.3	4.47	3.16	18.13	33.25	21.56	13.22
Kannur	21.49	9.34	7.61	12.98	9.86	4.57	4.74	10.09	30.88	9.73	28.31	15.87	4.47	3.16	9.44	17.31	33.33	20.43
Koohuparamba	40.11	17.44	2.15	3.67	17.86	8.28	0.00	0.00	48.39	15.35	29.20	16.37	1.82	1.29	4.53	8.31	37.07	22.73
Panoor	16.85	7.33	1.73	2.95	8.23	3.81	1.58	3.36	11.08	3.52	5.19	2.91	25.79	18.21	0.82	1.5	13.71	8.4
Payyanur	28.75	12.5	3.56	6.07	1.99	0.92	5.38	11.45	8.46	2.68	2.41	1.35	1.77	1.25	1.44	2.64	2.39	1.47
Peravoor	33.20	14.44	8.99	15.33	46.05	21.34	6.03	12.83	41.52	13.17	6.78	3.8	49.35	34.85	0.65	1.19	1.63	1
Thalasseri	30.97	13.47	1.56	2.66	10.67	4.94	2.76	5.87	41.64	13.21	27.71	15.54	37.54	26.51	4.00	7.34	22.45	13.76
Thaliparamba	8.64	3.76	10.00	17.05	67.43	31.24	1.82	3.87	39.95	12.67	37.20	20.86	1.04	0.73	2.47	4.53	19.19	11.76

Wayanad

Kannur

Kasaragode															
Total	229.97	58.64	215.82	47.00	315.32	178.37	141.60	54.52	163.12						
Kanhangad	21.97	18.02	17.98	12.64	0.00	66.57	11.66	45.62	29.35	54.48	43.09	5.24	13.22	28.19	40.71
Kasaragod	52.19	42.81	17.63	24.59	8.08	111.05	19.45	13.49	8.68	25.33	20.03	5.79	14.6		0
Karadukka	11.92	9.78	24.21	10.99	12.72	82.20	14.40	3.80	2.44	3.52	2.78	19.27	48.8		0
Manjeswar	15.51	12.72	15.90	2.02	9.61	30.47	5.34	16.59	10.67	19.03	15.05	8.30	20.93		0
Neeleswar	5.40	4.43	7.89	7.18	16.81	71.48	12.52	26.79	17.23	6.36	5.03		0	19.86	28.68
Parappa	14.84	12.17	17.88	42.49	52.28	207.50	36.35	49.16	31.62	17.71	14.01	1.05	2.65	19.36	27.96
Kanhangad (M)	0.09	0.07	0.55	0.09	0.49	1.64	0.29		0		0		0	1.83	2.64
Kasaragod (M)		0	0.10	0.00	0.00		0.00		0		0		0		0
Total	121.92	105.39	209.96	56.69	570.91	153.45	126.43	39.65	69.24						

TABLE 38
Blockwise Production and Production participation of vegetables in Summer season

District	BLOCK	Amaranthus		Lady's finger		Bitter guard		Snake guard		Cucumber		Pumpkin		Ash guard		Brinjal		Cowpea	
		production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation	production	participation
Thiruvananthapuram	Athiyannur	196.16	61.60	0.00	0.00	2.74	2.47	0.38	0.48	0.44	0.30	0.83	3.01		0.00	1.60	1.13	46.14	71.24
	Chirayinkeezhu	8.48	2.68	9.00	9.90	11.12	10.02	0.12	0.16	260.50	176.27	258.66	937.85		0.00	22.49	15.90	0.34	0.52
	Kilmanoor	14.11	4.43	36.00	39.61	1.63	1.47	0.00	0.00	0.83	0.56	0.58	2.10	0.07	1.33	16.74	11.83	0.03	0.05
	Nedumangad	1.57	0.49	0.27	0.30	0.00	0.00	0.00	0.00	7.80	5.28	0.82	2.97		0.00	0.97	0.69		0.00
	Nemom	8.79	2.76	5.25	5.78	1.14	1.03	0.59	0.74	0.35	0.24	0.50	1.81	0.01	0.19	2.56	1.81	1.24	1.91
	Parassala	14.05	4.41	0.23	0.25	0.67	0.60	0.37	0.47	0.99	0.67	21.79	78.99		0.00	15.06	10.65	11.42	17.63
	Perumkadavilla	0.74	0.23	4.23	4.65	2.96	2.67	5.05	6.36	348.61	235.90	0.60	2.18		0.00	1.82	1.29	0.72	1.11
	Pothencode	4.27	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.46	0.47	1.70	0.83	15.81	6.42	4.54	0.05	0.08
	Vamanapuram	9.81	3.08	1.76	1.93	0.90	0.81	0.99	1.25	0.52	0.35	0.20	0.73	0.36	6.86	4.28	3.03		0.00
	Varkala	16.11	5.06	0.68	0.74	1.64	1.48	0.86	1.09	0.93	0.63	0.44	1.60	0.01	0.19	13.86	9.80		0.00
	Vellanad	2.41	0.76	4.91	5.40	6.00	5.41	0.50	0.63	0.69	0.47	0.58	2.10		0.00	1.02	0.72		0.00
	TVPM(M)	31.44	9.87	18.00	19.81	8.45	7.62	0.20	0.25	0.45	0.30	0.43	1.56	3.77	71.81	43.17	30.52	0.40	0.62
	Attingal (M)	1.09	0.34	4.68	5.15	1.83	1.74	16.55	20.83	331.40	224.25	4.84	17.55	0.07	1.33	6.18	4.37		0.00
	Nedumangad (M)	0.76	0.24	0.05	0.05	0.00	0.00	0.00	0.00	4.11	2.78	0.00	0.00		0.00	0.21	0.15		0.00
	Neyyattinkara (M)	6.04	1.90	0.32	0.35	3.41	3.07	0.37	0.47	25.95	17.56	0.69	2.51		0.00	2.06	1.46	4.43	6.84
	Varkala (M)	2.63	0.83	0.00	0.00	0.74	0.67	0.00	0.00	12.07	8.17	1.04	3.76	0.13	2.48	3.01	2.13		0.00
	Total	318.46		90.88		110.91		78.48		147.78		27.58		5.25		141.45		64.77	
Kollam	Anchal	5.53	0.80	15.35	8.44	34.75	8.89	1.08	1.39	1.25	1.70	24.48	23.85	1.95	1.00	20.49	11.02	1.69	2.16
	Chadavamangalam	4.51	0.65	18.40	10.12	37.25	9.53	0.11	0.14	1.90	2.58	2.34	2.28	1.75	0.90	11.40	6.13	0.14	0.18
	Chavara	3.45	0.50	9.76	5.37	22.65	5.80	1.02	1.31	0.75	1.02	2.86	2.81	9.75	4.98	15.08	8.11	1.26	1.61
	Chittumala	2.87	0.41	3.53	1.94	19.38	4.96	1.95	2.50	1.17	1.59	0.00	0.00	1.25	0.64	3.65	1.96	0.00	0.00
	Itikkara	7.01	1.01	4.92	2.71	44.13	11.29	0.35	0.45	2.74	3.72	0.00	0.00	2.25	1.15	4.65	2.50	0.00	0.00
	Kottarakkara	1.04	0.15	65.22	35.86	51.63	13.21	1.86	2.39	1.57	2.13	0.00	0.00	1.42	0.73	15.20	8.18	0.00	0.00

Horticulture Survey 2010-11																		
Mukhathala	2.25	0.32	6.06	3.33	22.29	5.70	2.97	3.81	0.86	1.17	0.00	0.00	42.14	21.59	5.40	2.91	0.60	0.77
Oachira	186.00	26.82	17.55	9.65	23.03	5.89	1.55	1.99	1.80	2.44	0.00	0.00	31.80	16.29	17.00	9.15	54.27	69.25
Pathanapuram	185.50	26.75	4.25	2.34	18.45	4.72	0.83	1.06	2.05	2.78	56.40	54.94	48.45	24.82	54.80	29.48	3.90	4.98
Vettikavala	125.99	18.17	10.59	5.82	34.97	8.95	16.25	20.84	53.96	73.22	5.04	4.91	44.40	22.74	12.22	6.57	0.00	0.00
Karunagappally (M)	49.20	7.09	12.05	6.63	12.91	3.30	1.65	2.12	0.30	0.41	0.00	0.00	7.65	3.92	5.00	2.69	12.60	16.08
Paravoor (M)	34.10	4.92	1.92	1.06	15.69	4.01	18.96	24.32	1.54	2.09	0.00	0.00	0.00	0.00	8.47	4.56	0.00	0.00
Punalloor (M)	35.60	5.13	7.70	4.23	35.38	9.05	19.65	25.21	0.00	0.00	0.36	0.35	0.00	0.00	2.45	1.32	0.00	0.00
Kollam (C)	50.44	7.27	4.58	2.52	18.29	4.68	9.73	12.48	3.81	5.17	11.16	10.87	2.40	1.23	10.07	5.42	3.91	4.99
Total	693.49	181.88	390.80	77.96	73.70	102.66	195.21	185.88	78.37									
Elanthur	20.03	17.43	17.38	10.80	26.05	16.70	4.62	12.45	25.01	18.10	7.16	23.90	31.22	16.94	19.58	11.27	1.71	4.70
Koipram	11.36	9.88	37.57	23.35	27.76	17.79	3.43	9.25	34.21	24.76	6.83	22.80	46.17	25.04	19.17	11.03	2.30	6.32
Konni	0.61	0.53	13.03	8.10	7.60	4.87	1.24	3.34	4.34	3.14	2.55	8.51	25.29	13.72	18.05	10.39	1.36	3.74
Mallappally	61.83	53.79	49.09	30.51	84.50	54.16	13.10	35.31	67.44	48.80	1.41	4.71	63.79	34.60	58.21	33.50	11.88	32.66
Pandalam	4.65	4.05	12.08	7.51	0.43	0.28	12.21	32.91	2.93	2.12	0.25	0.83	2.35	1.27	16.75	9.64	2.65	7.28
Parakode	4.68	4.07	17.65	10.97	2.45	1.57	1.43	3.85	0.00	0.00	0.32	1.07	1.94	1.05	16.59	9.55	0.63	1.73
Pulikeezhu	4.37	3.80	0.89	0.55	1.07	0.69	0.47	1.27	1.02	0.74	2.58	8.61	4.10	2.22	2.95	1.70	0.35	0.96
Ranni	3.40	2.96	3.20	1.99	5.74	3.68	0.49	1.32	2.72	1.97	6.83	22.80	6.90	3.74	9.05	5.21	15.03	41.31
Adoor (M)	0.00	0.00	2.82	1.75		0.00		0.00		0.00		0.00	0.11	0.06	3.99	2.30	0.02	0.05
Pathanamthitta (M)	1.98	1.72	6.98	4.34		0.00	0.11	0.30		0.00	0.09	0.30	1.04	0.56	8.72	5.02	0.33	0.91
Thiruvalla (M)	2.03	1.77	0.19	0.12	0.42	0.27		0.00	0.52	0.38	1.94	6.48	1.44	0.78	0.71	0.41	0.12	0.33
Total	114.94	160.88	156.02	37.10	138.19	29.96	184.35	173.77	36.38									
Ambalapuzha	76.13	7.98	60.05	25.69	43.70	8.48	15.20	3.97	1.10	0.83	0.07	0.14	0.00	3.03	0.88	16.46	7.56	
Ayad	56.20	5.89	70.88	30.32	15.90	3.09	19.80	5.17	6.80	5.16	1.14	2.21	2.04	5.38	14.38	4.18	1.73	0.79
Bharanikkavu	86.87	9.10	42.54	18.20	64.55	12.53	1.60	0.42	13.80	10.47	6.22	12.03	2.48	6.54	37.45	10.88	6.49	2.98
Chambakkulam	56.08	5.88	0.06	0.03	15.30	2.97	3.60	0.94	7.50	5.69	3.17	6.13	1.65	4.35	2.27	0.66	0.64	0.29
Chengannur	18.94	1.99	5.32	2.28	51.53	10.00	7.66	2.00	1.60	1.21	1.10	2.13	2.55	6.72	69.45	20.18	0.74	0.34
Harippad	51.47	5.39	1.23	0.53	46.63	9.05	61.56	16.08	6.40	4.86	5.50	10.64	16.72	44.07	31.10	9.04	31.58	14.50
Kanjikuzhi	61.96	6.49	1.32	0.56	82.98	16.11	38.30	10.00	15.70	11.91	5.70	11.03	0.38	1.00	22.11	6.43	75.56	34.70
Mavelikkara	36.72	3.85	2.06	0.88	47.30	9.18	49.44	12.91	0.40	0.30	3.48	6.73	1.53	4.03	23.25	6.76	3.71	1.70
Muthukulam	43.77	4.59	2.87	1.23	45.88	8.91	42.32	11.05	29.77	22.59	4.05	7.84	4.42	11.65	61.01	17.73	0.33	0.15
Department of Economics & Statistics																		

Horticulture Survey 2010-11																		
Pattanakkad	73.34	7.69	2.89	1.24	29.70	5.77	7.32	1.91	2.80	2.12	10.52	20.35	1.16	3.06	11.65	3.39	19.23	8.83
Thyctassery	79.53	8.33	32.60	13.94	17.10	3.32	54.36	14.20	35.80	27.17	5.36	10.37	2.30	6.06	28.65	8.33	0.38	0.17
Veliyanad	49.63	5.20	1.17	0.50	38.20	7.42	51.96	13.57	1.90	1.44	0.80	1.55	0.15	0.40	0.26	0.08	29.24	13.43
Alappuzha (M)	45.56	4.77	0.63	0.27	4.65	0.90	4.92	1.28	1.00	0.76	0.21	0.41	0.45	1.19	3.11	0.90	7.45	3.42
Cherthala (M)	33.19	3.48	0.94	0.40	2.30	0.45	11.64	3.04	2.80	2.12		0.00		0.00	4.99	1.45	15.34	7.04
Chengannur (M)	50.96	5.34	7.40	3.17	2.78	0.54	0.00	0.00	0.00	0.00		0.00		0.00	4.92	1.43	3.42	1.57
Kayamkulam (M)	82.89	8.69	1.77	0.76	4.17	0.81	10.44	2.73	3.60	2.73	4.18	8.09	1.81	4.77	26.43	7.68	5.47	2.51
Mavelikkara (M)	50.99	5.34	0.06	0.03	2.40	0.47	2.76	0.72	0.80	0.61	0.19	0.37	0.30	0.79	0.06	0.02	0.01	0.00
Total	954.24		233.79		515.05		382.88		131.77		51.69		37.94		344.12		217.78	
Erattupetta	4.16	5.68	2.23	9.88	15.75	5.94	1.48	0.52	0.41	0.34	1.10	9.92	0.44	7.14	5.76	9.77	16.14	2.71
Ettumanoor	1.53	2.09	0.76	3.37	13.12	4.95	23.30	8.14	3.12	2.56	0.62	5.55	0.09	1.39	1.46	2.47	41.11	6.90
Kaduthuruthy	16.64	22.74	2.23	9.90	79.42	29.94	100.19	35.00	13.33	10.86	1.19	10.65	0.69	11.30	3.69	6.26	128.02	21.48
Kanjirappally	3.66	5.01	3.59	15.94	23.39	8.82	2.21	0.77	0.37	0.30	1.61	14.47	1.48	24.09	12.82	21.73	25.05	4.20
Lalam	2.01	2.74	2.09	9.28	9.88	3.72	1.39	0.48	2.64	2.15	0.79	7.12	0.45	7.32	6.01	10.19	17.81	2.99
Madappally	17.90	24.47	2.23	9.88	24.44	9.21	63.06	22.03	32.80	26.72	2.05	18.41	0.54	8.81	3.03	5.14	134.82	22.63
Pallom	6.85	9.36	2.21	9.81	17.87	6.74	10.92	3.82	22.40	18.24	0.24	2.18	0.04	0.72	3.54	6.00	53.86	9.04
Pampady	1.28	1.75	1.40	6.22	8.52	3.21	7.05	2.46	11.07	9.01	0.79	7.06	0.55	9.02	3.96	6.71	27.18	4.56
Uzhavoor	6.43	8.78	2.86	12.67	52.26	19.70	72.33	25.26	32.14	26.18	1.11	9.95	1.10	17.90	11.12	18.86	116.59	19.57
Vaikom	6.69	9.14	0.53	2.33	7.92	2.99	3.04	1.06	2.42	1.97	0.47	4.26	0.12	1.93	2.21	3.75	20.26	3.40
Vazhoor	2.30	3.14	1.97	8.72	5.95	2.24	0.64	0.22	1.91	1.56	0.78	6.98	0.42	6.88	4.46	7.55	9.32	1.56
Changanacherry (M)	0.01	0.01	0.10	0.44	0.82	0.31	0.01	0.00	0.00	0.00	0.02	0.19	0.03	0.51	0.21	0.35	0.39	0.06
Kottayam (M)	2.50	3.42	0.05	0.20	0.76	0.29	0.11	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.17	5.26	0.88
Pala (M)	0.03	0.04	0.12	0.53	2.46	0.93	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.69	0.05	0.01
Vaikom (M)	1.19	1.62	0.19	0.82	2.70	1.02	0.55	0.19	0.13	0.11	0.36	3.28	0.18	2.98	0.21	0.35	0.02	0.00
Total	73.17		22.53		265.25		286.29		122.78		11.13		6.13		58.98		595.88	
Alengad	2.94	0.93	1.66	1.69	2.66	2.10	2.92	4.11	8.99	13.65	2.25	3.52	3.13	1.77	2.39	2.25	1.46	2.12
Angamali	18.09	5.75	9.18	9.36	1.83	1.45	1.64	2.31	2.93	4.45	2.89	4.53	19.25	10.90	9.13	8.61	1.92	2.79
Edappally	2.34	0.74	0.89	0.91	6.61	5.23	0.00	0.00	1.32	2.00	2.70	4.23	2.69	1.52	3.44	3.24	6.15	8.93
Koovappady	9.68	3.08	11.39	11.61	4.59	3.63	6.64	9.34	3.46	5.25	1.90	2.98	1.62	0.92	1.72	1.62	1.01	1.47
Kothamangalam	21.88	6.96	2.48	2.53	13.55	10.72	1.38	1.94	0.00	0.00	5.60	8.77	6.56	3.71	2.62	2.47	6.64	9.64
Moovattupuzha	35.08	11.15	13.69	13.96	3.26	2.58	2.63	3.70	3.68	5.59	6.38	9.99	11.71	6.63	45.02	42.44	2.30	3.34
Kottayam																		
Ernakulam																		

Kottayam

Ernakulam

Mulanthuruthy	12.40	3.94	5.45	5.56	6.81	5.39	1.11	1.56	0.38	0.58	0.19	0.30	5.30	3.00	2.54	2.39	0.43	0.62
Palluruthy	6.95	2.21	0.28	0.29	5.97	4.72	0.22	0.31	0.00	0.00	1.29	2.02	0.00	0.00	0.15	0.14	3.08	4.47
Pampakkuda	33.18	10.55	15.80	16.11	2.02	1.60	8.86	12.46	4.34	6.59	9.53	14.93	10.44	5.91	3.29	3.10	1.53	2.22
Parakedavu	3.29	1.05	7.38	7.53	2.59	2.05	5.78	8.13	0.09	0.14	1.99	3.12	9.77	5.53	7.55	7.12	1.55	2.25
Paravur	6.56	2.09	0.55	0.56	1.67	1.32	0.00	0.00	0.00	0.00	1.67	2.62	0.00	0.00	0.59	0.56	0.54	0.78
Vadavukkode	22.91	7.28	3.38	3.45	17.33	13.71	1.19	1.67	6.14	9.32	1.91	2.99	38.68	21.91	4.49	4.23	0.00	0.00
Vazhakkulam	40.37	12.83	11.39	11.61	7.79	6.16	16.46	23.14	18.17	27.59	9.32	14.60	23.66	13.40	9.79	9.23	0.15	0.22
Vypin	27.65	8.79	2.35	2.40	4.37	3.46	2.88	4.05	0.00	0.00	2.51	3.93	1.79	1.01	0.29	0.27	0.69	1.00
Kochi (C)	37.60	11.95	2.55	2.60	10.47	8.29	1.62	2.28	0.28	0.43	0.77	1.21	7.76	4.39	5.31	5.01	1.15	1.67
Angamaly (M)	0.24	0.08	0.89	0.91	4.37	3.46	4.58	6.44	11.35	17.24	2.45	3.84	12.01	6.80	1.19	1.12	1.15	1.67
Aluva (M)	1.74	0.55	0.35	0.36	2.44	1.93	2.29	3.22	0.09	0.14	0.80	1.41	1.79	1.01	0.22	0.21	2.54	3.69
Elloor (M)	4.98	1.58	0.00	0.00	3.02	2.39	0.66	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.27	2.77	4.02
Kalamassery (M)	11.93	3.79	0.69	0.70	2.50	1.98	0.22	0.31	0.28	0.43	0.52	0.81	0.59	0.33	2.62	2.47	6.77	9.83
Koithamangalam (M)	3.48	1.11	0.48	0.49	2.95	2.33	3.39	4.77	0.00	0.00	1.80	2.82	3.66	2.07	0.22	0.21	5.54	8.05
Maradu (M)	1.26	0.40	0.07	0.07	0.89	0.70	0.15	0.21	0.00	0.00	0.71	1.11	0.00	0.00	0.07	0.07	1.85	2.69
Moovattupuzha (M)	0.16	0.05	1.86	1.90	9.76	7.72	2.36	3.32	1.61	2.44	1.93	3.02	0.45	0.25	0.52	0.49	4.86	7.06
North Paravur	0.95	0.30	1.38	1.41	1.35	1.07	1.48	2.08	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.41	3.63	5.27
Perumbavoor (M)	3.95	1.26	3.24	3.30	4.17	3.30	0.59	0.83	2.74	4.16	2.19	3.43	11.12	6.30	0.67	0.63	3.76	5.46
Thrikkakkara (M)	4.82	1.53	0.28	0.29	1.99	1.57	0.89	1.25	0.00	0.00	1.93	3.02	2.91	1.65	0.45	0.42	3.08	4.47
Thrippunithura (M)	0.16	0.05	0.41	0.42	1.41	1.12	1.18	1.66	0.00	0.00	0.52	0.81	1.72	0.97	0.00	0.00	4.31	6.26
Total	314.59	98.07			125.37		71.12		65.85		63.85		176.62		106.07		68.86	
Anthikkad	10.10	3.21	7.28	4.32	5.23	1.64	3.01	0.17	3.02	1.40	5.04	2.87	5.11	2.22	7.78	4.14	0.06	0.04
Chalakkudy	31.07	9.88	21.45	12.71	4.12	1.29	2.89	0.16	10.29	4.75	8.53	4.85	6.63	2.88	31.36	16.69		0.00
Chavakkad	0.51	0.16	0.24	0.14	6.04	1.89	0.02	0.00	1.89	0.87	0.88	0.50	0.72	0.31	0.40	0.21		0.00
Cherpu	31.65	10.06	6.14	3.64	9.07	2.84	4.10	0.23	5.67	2.62	1.50	0.85	6.26	2.72	9.91	5.27		0.00
Chowannur	16.20	5.15	1.58	0.94	13.97	4.38	16.40	0.92	16.77	7.75	9.63	5.48	6.37	2.76	5.20	2.77	6.53	4.23
Irinjalakuda	9.65	3.07	1.04	0.62	13.26	4.16	2.91	0.16	1.31	0.61	7.95	4.52	5.67	2.46	6.41	3.41		0.00
Kodakara	11.37	3.61	12.31	7.30	12.01	3.77	2.71	0.15	2.04	0.94	5.52	3.14	3.94	1.71	15.87	8.44	0.01	0.01
Mala	8.64	2.75	15.41	9.13	13.41	4.20	4.48	0.25	0.97	0.45	8.04	4.57	4.04	1.75	13.59	7.23		0.00
Mathilakom	10.15	3.23	16.51	9.79	11.44	3.59	3.78	0.21	5.24	2.42	8.24	4.69	16.46	7.14	8.61	4.58		0.00
Mullassery	5.18	1.65	5.67	3.36	5.88	1.84	2.21	0.12	12.16	5.62	5.04	2.87	8.81	3.87	1.28	0.68		0.00
Ollukkara	29.97	9.53	5.58	3.31	3.06	0.96	1572.45	87.98	5.39	2.49	1.43	0.81	4.40	1.91	8.71	4.63		0.00

Pazhayannur	24.25	7.71	7.10	4.21	94.09	29.50	80.25	4.49	38.50	17.79	22.60	12.85	58.90	25.56	7.98	4.25	101.16	65.51
Puzhakkal	20.44	6.50	7.52	4.46	4.74	1.49	9.54	0.53	15.34	7.09	7.54	4.29	9.72	4.22	11.06	5.89		0.00
Thalikkulam	27.20	8.65	3.63	2.15	12.50	3.92	15.90	0.89	14.40	6.65	20.06	11.41	19.08	8.28	8.37	4.45	7.01	4.54
Vellangallur	23.28	7.40	14.74	8.74	6.62	2.08	3.63	0.20	21.32	9.85	14.14	8.04	9.56	4.15	8.49	4.52		0.00
Wadakkancherry	32.30	10.27	6.20	3.68	66.25	20.77	57.25	3.20	33.65	15.55	36.50	20.76	32.00	13.89	6.68	3.55	38.32	24.82
Thirissur Corporation	5.16	1.64	2.00	1.19	2.00	0.63	1.77	0.10	2.42	1.12	2.24	1.27	3.49	1.51	2.72	1.45		0.00
Chalakkudy (M)	0.55	0.17	3.11	1.84	10.20	3.20	0.03	0.00	13.58	6.27	0.27	0.15	0.19	0.08	3.54	1.88		0.00
Chavakkad (M)	0.91	0.29	10.93	6.48	11.99	3.76		0.00	1.15	0.53	1.21	0.69	2.66	1.15	10.23	5.44		0.00
Guruvayoor (M)	0.93	0.30	10.67	6.32	2.37	0.74	0.52	0.03	0.29	0.13	1.01	0.57	5.92	2.57	10.14	5.40		0.00
Iringalakkuda (M)	5.70	1.81	2.81	1.55	1.57	0.49	0.67	0.04	1.77	0.82	3.39	1.93	6.68	2.90	3.38	1.80		0.00
Kodungallur (M)	5.81	1.85	5.97	3.54	7.49	2.35	2.53	0.14	7.20	3.33	3.52	2.00	7.99	3.47	2.44	1.30		0.00
Kunnankulam (M)	3.57	1.13	1.01	0.60	1.67	0.52	0.16	0.01	2.09	0.97	1.56	0.89	5.74	2.49	3.78	2.01	1.33	0.86
Total	314.59		168.70		318.98		1787.21		216.46		175.84		230.44		187.93		154.42	
Alathur	3.80	3.43	2.96	1.97	39.02	17.39	1.37	4.71	4.90	2.15	3.08	0.83	86.33	15.37	2.78	5.15	0.01	0.54
Attappady	9.85	8.89	25.79	17.16	29.64	13.21	2.87	9.87	7.40	3.25	25.44	6.83	25.93	4.14	6.18	11.45	0.02	1.08
Chittoor	4.53	4.09	14.05	9.35	5.81	2.59	1.90	6.53	20.44	8.99	44.46	11.94	146.22	23.32	1.23	2.28	0.12	6.49
Kollengode	6.29	5.67	6.11	4.06	10.66	4.76	1.07	3.68	12.54	5.51	35.36	9.50		0.00		0.00	0.01	0.54
Kozhalmannam	3.09	2.79	0.06	0.04	14.64	6.52	2.01	6.91	9.88	4.35	0.20	0.05	4.33	0.69	0.20	0.37	0.33	17.84
Malampuzha	15.45	13.94	22.23	14.78	10.85	4.84	2.40	8.25	6.90	3.03	8.29	2.23	88.15	14.06	7.90	14.64	0.01	0.54
Mannarkkad	3.45	3.11	13.42	8.93	20.08	8.95	2.00	6.88	20.85	9.17	59.28	15.92	27.66	4.41	2.51	4.65	0.03	1.62
Nenmara	0.69	0.62	8.02	5.34	12.61	5.62	2.47	8.49	10.07	4.43	19.76	5.31	51.87	8.27	3.71	6.88	0.01	0.54
Ottappalam	10.49	9.46	11.73	7.80	9.88	4.40	1.60	5.50	10.36	4.56	29.64	7.96	11.06	1.76	0.40	0.74	0.02	1.08
Palakkad	7.40	6.68	0.93	0.62	6.22	2.77	0.31	1.07	10.80	4.75	5.34	1.43	60.51	9.65	8.89	16.48	0.02	1.08
Pattambi	11.86	10.70	6.79	4.52	20.75	9.25	2.60	8.94	20.70	9.10	34.58	9.29	55.30	8.82	3.14	5.82	0.26	14.05
Sreekrishnapuram	12.44	11.22	27.60	18.36	19.01	8.47	2.51	8.63	12.76	5.61	28.89	7.76	40.20	6.41	2.80	5.19	0.21	11.35
Thrithala	17.29	15.60	7.19	4.78	15.80	7.04	1.40	4.81	14.82	6.52	63.23	18.98	0.87	0.14	1.83	3.39	0.01	0.54
Chittoor (M)	0.06	0.05	0.29	0.19	0.10	0.04		0.00	12.83	5.64	0.94	0.25	4.34	0.69	11.12	20.61	0.17	9.19
Thathamangalam (M)	0.93	0.84	0.62	0.41	4.92	2.19	2.80	9.63	12.03	5.29	5.80	1.56	4.80	0.77	0.13	0.24	0.40	21.62
Ottappalam (M)	2.40	2.17	0.31	0.21	0.31	0.14	0.59	2.03	20.05	8.82	2.22	0.60	3.20	0.51	0.04	0.07	0.21	11.35
Palakkad (M)	0.83	0.75	2.21	1.47	4.08	1.82	1.18	4.06	20.05	8.82	5.86	1.57	6.15	0.98	1.10	2.04	0.01	0.54
Shornur (M)																		
Total	110.85		150.31		224.40		29.08		227.38		372.37		626.92		53.96		1.85	
Palakkad Balussery	20.71	7.26	18.27	11.11	31.32	13.76	11.48	7.67	84.89	10.93	15.68	6.34	8.24	4.30	1.98	6.70	1.23	9.75

Wayanad	Chelannur	11.05	3.87	36.13	21.97	21.25	9.33	12.67	8.47	56.35	7.26	26.22	10.59	16.13	8.42	2.31	7.81			0.00
	Koduvely	35.79	12.55	8.86	5.39	11.52	5.06	8.19	5.47	14.67	1.89	20.29	8.20	4.95	2.58	5.67	19.18	2.56	20.29	
	Kozhikkode	34.77	12.19	8.92	5.42	14.83	6.51	4.12	2.75	10.92	1.41	12.86	5.20	3.42	1.79	1.17	3.96	2.70	21.39	
	Kunnamangalam	13.77	4.83	41.03	24.95	25.24	11.09	23.57	15.75	85.53	11.02	58.62	23.68	7.79	4.07	8.77	29.67		0.00	
	Kunnummel	20.45	7.17	13.73	8.35	21.47	9.43	31.64	21.14	62.30	8.02	13.80	5.58	20.47	10.69	1.30	4.40	1.48	11.73	
	Melady	14.59	5.11	8.23	5.00	15.65	6.87	19.35	12.93	48.38	6.23	23.88	9.65	34.03	17.76	3.00	10.15		0.00	
	Panthalayini	28.71	10.06	11.54	7.02	8.79	3.86	9.48	6.33	81.17	10.45	19.12	7.73	22.53	11.76	1.40	4.74	1.85	14.66	
	Perambra	12.51	4.39	3.29	2.00	12.43	5.46	6.81	4.55	48.12	6.20	8.62	3.48	11.48	5.99	0.17	0.58	0.93	7.37	
	Thodannoore	12.53	4.39	0.18	0.11	11.84	5.11	0.86	0.44	8.22	1.06	1.86	0.75	0.64	0.33	0.20	0.68		0.00	
	Thuneri	13.76	4.82	3.31	2.01	19.56	8.59	14.60	9.78	239.74	30.88	20.83	8.42	43.95	22.94	0.91	3.08		0.00	
	Vadakara	20.05	7.03		0.00	12.56	5.52		0.00	1.93	0.25		0.00		0.00		0.00	0.00	0.00	
	Kozhikkode (C)	14.65	5.14	9.97	6.06	5.07	2.23	4.96	3.31	11.44	1.47	20.66	8.35	4.57	2.39	2.27	7.68	1.06	8.40	
	Quilandy (M)	21.92	7.68	1.02	0.82	5.48	2.41	2.13	1.42	22.77	2.93	5.06	2.04	13.37	6.98	0.41	1.39	0.81	6.42	
	Vadakara (M)	10.02	3.51		0.00	10.86	4.77			0.00		0.00		0.00			0.00		0.00	
	Total	285.28		164.48		227.67			149.86		776.43		247.50		191.57		29.58		12.62	
	Kalpetta	207.49	48.57	13.78	23.04	76.77	16.78		10.16	34.44	93.25	35.28	28.99	56.30	6.82	22.92	92.55	44.22	0.07	0.24
	Mananthavady	18.40	4.31	1.42	2.37	312.00	68.23		1.50	5.08	96.50	36.51	15.00	29.13	5.00	16.80	2.90	1.39	11.50	39.86
	Panamaram	180.81	42.33	40.67	67.99	46.71	10.21		6.35	21.53	43.36	16.40	5.30	10.29	16.12	54.17	95.42	45.59	17.27	59.86
	Sulthan Bathery	16.33	3.82	3.29	5.50	16.47	3.60		11.29	38.27	28.48	10.77	2.20	4.27	1.82	6.12	12.10	5.78	0.01	0.03
Kalpetta (M)	4.15	0.97	0.66	1.10	5.35	1.17		0.20	0.68	2.73	1.03		0.00		0.00	6.34	3.03		0.00	
Total	427.18		59.82		457.30			29.50		264.32		51.49		29.76		209.31		28.85		
Kannur	Edakkad	82.36	14.67	9.78	6.54	63.19	14.73	23.54	18.21	74.00	6.90	20.01	14.79	21.55	8.09	2.57	3.83	8.74	4.20	
	Irikur	41.12	7.32	3.39	2.27	44.04	10.27	6.83	5.28	91.93	8.57	1.28	0.95	22.55	8.47	1.83	2.72	6.35	3.05	
	Iritty	35.86	6.39	8.50	5.68	34.61	8.07	3.56	2.75	96.23	8.98	16.89	12.48	16.46	6.18	3.68	5.48	1.34	0.64	
	Kalliasseri	52.12	9.28	20.64	13.80	7.41	1.73	32.47	25.12	78.55	7.33	6.82	5.04	1.97	0.74	0.05	0.07	0.15	0.07	
	Kannur	33.46	5.96	30.59	20.45	10.32	2.41	5.42	4.19	72.62	6.77	9.04	6.68	13.19	4.95	6.10	9.08	0.59	0.28	
	Koothuparamba	43.60	7.76	41.29	27.60	53.13	12.38	13.89	10.75	151.12	14.10	3.05	2.25	22.53	8.46	4.22	6.28	43.87	21.07	
	Panoor	47.93	8.54	9.29	6.21	18.53	4.32	11.35	8.78	150.83	14.07	16.89	12.48	47.72	17.91	1.38	2.05	23.12	11.10	
	Payannur	38.93	6.93	5.71	3.82	43.72	10.19	6.42	4.97	115.87	10.81	9.36	6.92	42.68	16.02	4.39	6.53	65.58	31.49	
	Peravoor	56.15	10.00	8.00	5.35	7.29	1.70	6.95	5.38	88.93	8.30	1.94	1.43	26.06	9.78	11.21	16.69	2.33	1.12	
	Thalasseri	67.41	12.00	8.97	6.00	27.71	6.46	13.71	10.61	68.85	6.42	16.16	11.94	42.53	15.97	11.02	16.40	20.01	9.61	
Thaliparamba	62.61	11.15	3.45	2.31	119.08	27.76	5.12	3.96	83.15	7.76	33.89	25.04	9.15	3.43	20.73	30.86	36.15	17.36		

Kasaragode														
Total	561.55	149.61	429.03	129.26	1072.08	135.33	266.39	67.18	208.23					
Kanhangad	2.14	3.23	5.72	9.29	4.63	1.10	4.62	112.90	14.80	12.21	6.13	2.29	3.45	1.31
Kasaragod	2.68	4.05	5.13	8.33	0.53	1.31	5.50	13.58	1.79	1.45	0.73	3.31	4.99	2.07
Karadukka	0.72	1.09	1.61	2.61	0.40	0.12	0.00	2.99	0.39	0.32	0.16	1.53	2.31	1.84
Manjeswar	7.09	10.71	11.15	18.11	2.45	0.70	18.57	9.22	1.22	7.54	3.78	12.35	18.63	10.58
Neeleswar	27.38	41.36	27.89	45.30	25.34	7.29	43.66	308.31	40.69	51.18	25.69	31.43	47.41	2.30
Parappa	22.97	34.70	5.12	8.32	298.45	85.82	24.33	302.25	39.89	121.63	61.04	15.01	22.64	100.59
Kanjhangad (M)	2.02	3.05	4.05	6.58	4.51	1.30	0.00	3.72	0.49	0.00	0.00	0.37	0.56	0.00
Kasaragod (M)		0.00		0.00	0.00	0.00	0.00		0.00		0.00		0.00	0.00
Neeleswar (M)	1.20	1.81	0.90	1.46	0.00	0.79	3.32	4.70	0.62	4.92	2.47		0.00	1.26
Total	66.20		61.57		347.78	23.80		757.67		199.25		56.29		120.37
														341.89

Conclusion

Per capita production is estimated, on the basis of Population Census data of 2011. The per capita production of all vegetables from all seasons is estimated at State level is 1.38 kg., lowest production is in Ernakulum district only at 670 gm and the highest is in Kottayam at 3.56 Kg followed by Pathanamthitta with 3.48 and Thiruvananthapuram with 2.12 Kg. and Thrissur with 2.11 Kg.

The monthly per capita consumption of vegetables, estimated on the basis of the 68th round Socio-economic Survey of NSS on Employment Unemployment and Consumer Expenditure, is 3.192 Kg at State level. It is given in table 39.

Table-39

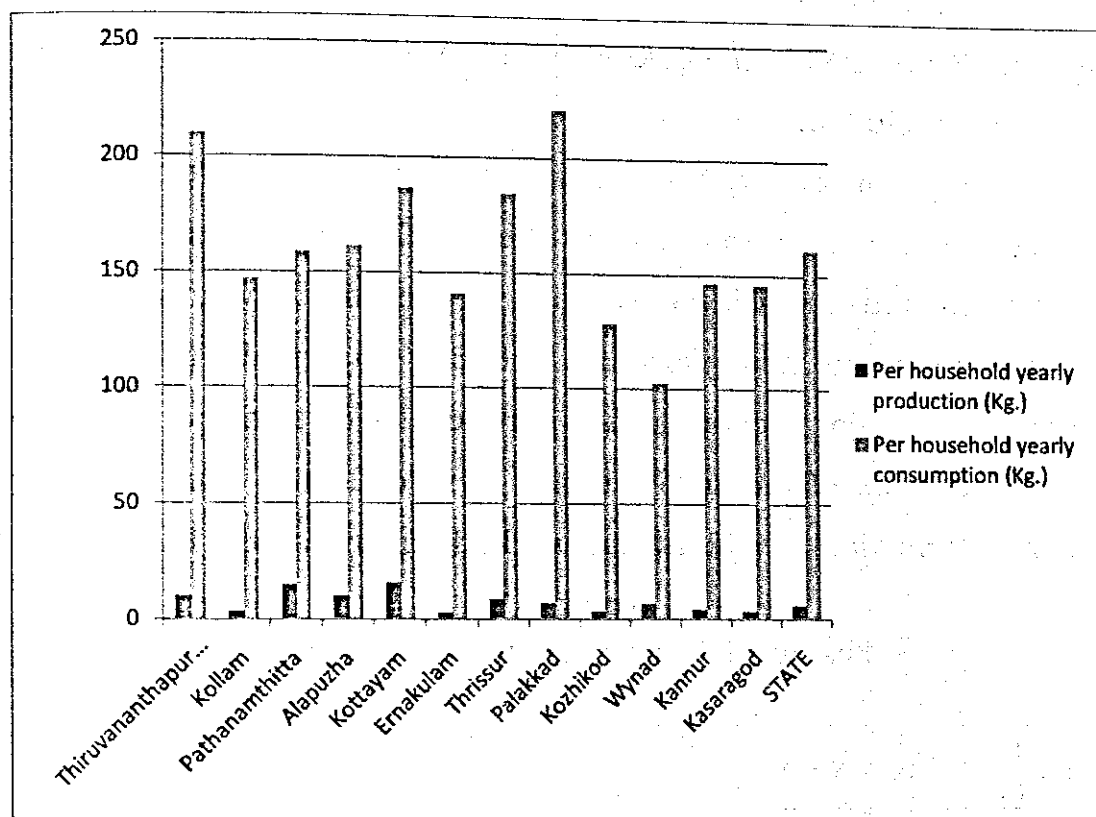
District	Population	Vegetable production (kg.)			Per capita production (Kg)
		Autumn	Winter	Summer	
Thiruvananthapuram	3307284	2099176	2394140	2512808	2.12
Kollam	2629703	491060	637244	813310	0.74
Pathanamthitta	1195537	1356610	1443760	1362390	3.48
Alapuzha	2121943	1408220	1556960	1803770	2.25
Kottayam	1979384	2071110	2622557	2352209	3.56
Ernakulam	3279860	772440	1063335	360210	0.67
Thrissur	3110327	2101687	2199413	2276397	2.11
Palakkad	2810892	2045780	1519440	1158514	1.68
Kozhikode	3089543	506900	672279	1265846	0.79
Wynad	816558	390269	506153	568600	1.79
Kannur	2525637	407450	895420	1322590	1.04
Kasaragod	1302600	322090	442250	260210	0.79
STATE	33387677	13972792	15952951	16056854	1.38

To have a better understanding on the production and consumption scenario of vegetables, household approach is more suitable. So based on Population Census 2011, district wise average household size and household wise production and consumption is worked out as follows. Household wise State level production gap is estimated at 147.892 Kg. District wise production gap is given in the table 40 and its diagrammatic representation given in chart 28.

Table-40
District wise Per Household Production, Consumption & Production gap of all seasonal vegetables(in Kg.)

District	Per capita production (Kg.)	Average household size (nos.)	Per household yearly production (Kg.)	Per household yearly consumption (Kg.)	Production gap (Kg.)
Thiruvananthapuram	2.12	4.78	10.134	209.879	199.745
Kollam	0.74	4.55	3.367	147.038	143.671
Pathanamthitta	3.48	4.28	14.894	158.804	143.91
Alapuzha	2.25	4.42	9.945	161.508	151.563
Kottayam	3.56	4.41	15.7	186.701	171.001
Ernakulam	0.67	4.11	2.754	141.056	138.302
Thrissur	2.11	4.03	8.503	184.493	175.99
Palakkad	1.68	4.05	6.804	221.374	214.57
Kozhikod	0.79	3.97	3.136	128.342	125.206
Wynad	1.79	3.71	6.641	102.397	95.756
Kannur	1.04	3.94	4.098	146.568	142.47
Kasaragod	0.79	3.94	3.113	145.906	142.793
STATE	1.38	4.16	5.741	161.172	147.892

Household size at State level is calculated excluding Malappuram & Idukki

Chart -29

Since production data of horticrops were collected through a survey in census method in Malappuram and Idukki districts these two districts were not covered in this survey. So in the analysis data pertaining to these two districts were not taken in to account. In computing State level household size and production gap also these two districts are excluded.

To bridge or at least to shrink the gap in the production of vegetables, earnest efforts are to be made in boosting vegetable cultivation at household level. To have an idea on how households are to be persuaded to this effort, an attempt has made to assess the productivity of major vegetables at micro level. For this the Productivity and stand per ha. of major vegetables were collected from Agriculture department and yield per plant has worked out in Table 41.

Table 41
Yearly yield per plant of Vegetables

Sl. No.	Crop Name	Stand per ha	Yield per ha.(Kg)	yield per plant (Kg.)
1	Ladiesfinger	37037	13338	0.36
2	Bitter gourd	2500	19760	7.904
3	Snake gourd	2500	24700	9.88
4	Cucumber	3333	29640	8.893
5	Ash gourd	1111	28405	25.567
6	Pumpkin	1111	27170	24.455
7	Brinjal	24305	39520	1.626
8	Cowpea	2500	19760	7.904

In the case of Amaranths, yield is calculated per one gram of seed. Yield per ha of Amaranths is 20995 Kg. Per ha and seed rate is 1.750 Kg. Per ha. Yield per one gram of Amaranths seed is 12 Kg.

The State level per household production gap of vegetables is estimated at 147.892 Kg. To bridge the gap or at least to shrink it, earnest effort is to be made at household level. As per the above estimates one plant each of Ladiesfinger, Bitter gourd, Snake gourd, Cucumber, Pumpkin, Brinjal and Cowpea along with one gram of Amaranths seed will fetch around 98 Kg. of vegetables in a house hold. So to satiate the vegetable needs of the State, households may be persuaded by the implementing agency to cultivate vegetables at least at the above rate.

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