

TABLE I—(cont.)

Taluk	Area (acres)	No. of Experiments	Mean yield of dry paddy (lbs./acre)		Standard error in (lbs.)		Total out-turn of dry paddy (tons)		Total out-turn of rice (tons)		Percentage of Standard error
			4	5	6	7	8				
1	2	3	4	5	6	7	8				
Karthikappalli	22449	30	1759	98	17628	11583	5.57				
Ambalapuzha	49342	30	1290	155	28416	18672	12.01				
Shertallur	7731	30	836	64	2885	1896	7.66				
Changanacherry	25464	30	1778	232	20212	13281	13.05				
Kottayam	36625	30	1507	112	24640	16191	7.43				
Valkom	20812	30	793	32	7368	4842	4.04				
Meenachil	5080	30	1682	49	3815	2507	2.91				
Thodupuzha	9200	30	1838	86	7549	4960	4.68				
Muvattupuzha	22537	30	2180	93	21933	14412	4.27				
Kannathunad	38500	30	1537	50	26417	17359	3.25				
Parur-Cranganur	13851	39	1219	58	7538	4953	4.76				
Kanayannur	8702	30	1791	102	6958	4572	5.70				
Mukundapuram	38634	30	1703	88	29372	19300	5.17				
Chittur	25800	30	1789	200	20605	13540	11.18				
Trichur	38310	30	1356	93	23187	15236	6.86				
Talappilli	34274	30	1387	90	21222	13945	6.49				
Total	632329	995	1545	25	436121	286555	1.62				

TABLE II—(cont.)

Taluk	Aid				No Aid			
	Estimated area receiving G.M.F. Aid (acres)	No. of Experiments	Average yield per acre (lbs.)	Standard error (lbs.)	Estimated area receiving no G.M.F. Aid (acres)	No. of Experiments	Average yield per acre (lbs.)	Standard error (lbs.)
	2	3	4	5	6	7	8	9
1								
Karunagappalli	1209	4	1314	246	16837	26	1337	112
Karthikappalli	18071	20	1928	88	4378	10	1421	89
Ambalapuzha	40954	22	1504	143	8388	8	702	42
Sherthalli	25464	30	1778	232	7731	30	836	64
Changanacherry	36625	30	1507	112	..	..	..	..
Kattayam	..	..	..	..	..	..	..	..
Vaikom	..	..	..	..	20812	30	793	32
Meenachil	..	..	..	..	5680	30	1682	49
Thodupuzha	2411	3	2505	138	9200	30	1838	86
Muvattupuzha	1733	2	1568	..	20126	27	2144	96
Kunnathunad	8892	26	1333	53	36767	28	1535	40
Parur-Cranganur	..	..	..	..	4959	13	991	91
Kanayannur	..	..	..	..	8702	30	1791	102
Mukundapuram	14835	15	2114	287	38634	30	1703	88
Chittur	30303	15	1544	120	10965	15	1464	226
Trichur	10282	6	1735	104	8007	15	1168	131
Talappilli	..	..	..	..	23992	24	1300	83
Total	275948	399	1702	42	356381	596	1458	23

TABLE III
Analysis of Variances of Plot Yields in (lb.)² per Plot of 1/160th of an Acre

Taluk	Plots which received G.M.F. Aid			Plots which received no Aid			Plots of both kinds					
	Between karas		Within karas	Between karas		Within karas	Between karas		Within karas			
	D.F.	M.S.	D.F.	M.S.	D.F.	M.S.	D.F.	M.S.	D.F.	M.S.		
1	2	3	4	5	6	7	8	9	10	11	12	13
Thovala	8	14.77	7	10.67	7	14.41	6	5.64	9	20.71	20	7.09
Agasteeswararam	9	15.21	20	1.35	9	15.21	20	1.35
Kakulam	..	3.61	2	1.59	8	21.53	16	8.75	9	27.54	20	6.96
Vilavancode	..	11.22	5	7.46	8	15.37	11	2.45	9	42.59	20	4.86
Neyyattinkara	..	14.76	1	7.08	9	8.00	17	3.86	9	8.36	20	4.63
Trivandrum	..	31.54	14	4.64	3	8.94	2	4.14	9	26.78	20	6.20
Nedumangad	..	15.06	5	7.07	8	6.35	11	16.33	9	10.77	20	12.16
Chirayinkil	..	6.67	8	5.38	7	9.89	5	5.02	9	11.37	20	4.42
Quilon	..	3.20	6	4.80	8	6.32	8	1.36	9	20.26	20	2.74
Kottarakara	..	2.26	4	0.63	8	2.88	11	1.40	10	5.44	19	1.56
Kunnathur	..	1.73	11	0.85	6	0.79	3	0.76	9	1.79	20	0.72
Pathanapuram	..	9.90	13	6.11	3	5.10	3	5.65	9	14.23	20	6.26
Shencottah	..	90.83	17	16.45	..	..	..	..	8	90.83	17	16.45
Pathanamthitta	..	49.12	20	8.91	..	..	..	..	9	49.12	20	8.91
Thiruvalla	9	11.26	20	1.16	9	11.26	20	1.16
Mavelikkara	..	4.68	10	2.30	6	7.49	3	2.30	9	7.71	20	3.16

TABLE III—(cont.)

Taluk	Plots which received G.M.F. Aid				Plots which received no Aid				Plots of both kinds			
	Between karas		Within karas		Between karas		Within karas		Between karas		Within karas	
	D.F.	M.S.	D.F.	M.S.	D.F.	M.S.	D.F.	M.S.	D.F.	M.S.	D.F.	M.S.
1	2	3	4	5	6	7	8	9	10	11	12	13
Karunagappalli	1	8.67	2	4.59	9	12.10	16	4.69	9	12.45	20	4.49
Karthikappalli	9	5.38	10	1.65	6	3.00	3	1.71	9	11.21	20	2.70
Ambalapuzha	7	15.16	14	17.79	2	0.58	5	1.16	9	28.41	20	12.75
Shermal	9	19.78	20	4.79	9	4.86	20	0.91	9	4.86	20	0.91
Changanacherry	9	14.64	20	3.67	..	..	..	..	9	19.78	20	4.79
Kottayam	..	..	..	..	..	..	..	..	9	14.64	20	3.67
Vaikom	..	..	..	..	9	1.19	20	0.96	9	1.19	20	0.96
Meenachil	..	..	..	..	9	2.87	20	1.36	9	2.87	20	1.36
Theodupuzha	..	..	..	..	9	8.73	20	4.73	9	8.73	20	4.75
Muvattupuzha	..	..	..	..	9	8.45	17	2.80	9	10.18	20	2.52
Kunnathunad	2	2.24	1	1.76	9	1.95	18	7.36	9	1.55	20	6.90
Parur-Cranganur	9	1.75	16	1.14	5	0.67	7	1.54	12	3.83	20	1.74
Kanayannur	..	..	..	..	9	12.13	20	6.02	9	12.13	20	6.02
Mukundapuram	..	..	..	..	9	8.98	20	14.91	9	8.98	20	14.91
Chittur	5	43.85	9	6.19	5	28.41	9	16.24	9	46.88	20	13.26
Trichur	4	8.42	10	6.30	4	3.63	10	1.99	9	9.98	20	4.15
Talappilli	4	3.38	1	0.48	9	6.77	14	10.66	9	9.53	20	8.68

TABLE IV

Analysis of Variance of Plot Yields Pooled for the State in (lb.)²
per Plot of 1/160th of an Acre

A. Plots which received G.M.F. Aid

Source	Sum of squares	Degrees of freedom	Variance
Between taluks ..	3050.75	24	127.11*
Between karas within taluks ..	2486.07	148	16.80*
Within karas ..	1701.18	226	7.53

B. Plots which received no Aid

Source	Sum of squares	Degrees of freedom	Variance
Between taluks ..	3425.11	28	122.32*
Between karas within taluks ..	2908.72	212	13.72*
Within karas ..	1968.77	355	5.55

C. Plots of both kinds

Source	Sum of squares	Degrees of freedom	Variance
Between taluks ..	5911.63	32	184.74*
Between karas within taluks ..	5675.10	300	18.92*
Within karas ..	4990.27	662	7.54

* Denotes significance at 1 per cent level.

TABLE V
Percentage Reduction due to Driage

Taluk	Percentage reduction	Taluk	Percentage reduction
Thovala ..	6.50	Karthikappalli ..	5.50
Agasteeswaram ..	3.40	Ambalapuzha ..	6.60
Kalkulam ..	4.70	Shertalla ..	4.40
Vilavancode ..	6.80	Changanacherry ..	5.30
Neyyattinkara ..	5.90	Kottayam ..	5.80
Trivandrum ..	4.70	Vaikom ..	4.40
Nedumangad ..	6.90	Meenachil ..	7.80
Chirayinkil ..	9.10	Thodupuzha ..	5.70
Quilon ..	6.80	Muvattupuzha ..	7.00
Kottarakkara ..	3.90	Kunnathunad ..	6.10
Kunnathur ..	5.40	Parur-Cranganur ..	5.80
Pathanapuram ..	4.70	Kanayannur ..	8.60
Shencottah ..	7.60	Mukundapuram ..	5.40
Pathanamthitta ..	6.20	Chittur ..	4.00
Thiruvalla ..	5.70	Trichur ..	6.00
Mavelikkara ..	5.50	Talappilli ..	4.40
Karunagappalli ..	4.80		

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