

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORRELATION BETWEEN STATIONS X and Y

X: 4-130 SMITH'S BRIDGE

Y: 4-050 RAGLAM FARM

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(59/60-10)	2.5	2.0	4.99	6.40	3.89
2	11	3.1	1.9	5.80	9.81	3.43
3	12	8.6	3.0	25.95	73.25	9.19
4	1	17.8	7.4	131.17	315.40	54.55
5	2	76.2	25.3	1930.48	5801.84	642.34
6	3	141.0	86.9	12247.51	19876.10	7546.83
7	4	104.6	86.1	9005.31	10945.96	7408.72
8	5	39.6	25.6	1016.99	1572.12	657.88
9	6	19.0	11.3	214.65	360.14	127.93
10	7	12.5	7.2	89.82	155.97	51.72
11	8	8.7	4.9	42.06	75.21	23.53
12	9	5.6	2.8	15.59	31.58	7.69
13	(60/61-10)	3.9	1.9	7.47	15.33	3.64
14	11	4.4	2.0	8.76	19.48	3.94
15	12	14.9	5.1	76.17	222.82	26.04
16	1	47.0	23.7	1113.71	2212.83	560.53
17	2	133.5	64.3	8586.89	17815.62	4138.77
18	3	159.0	91.9	14611.51	25288.64	8442.38
19	4	136.5	92.7	12649.19	18623.82	8591.26
20	5	77.0	49.8	3836.66	5936.62	2479.52
21	6	38.3	20.8	795.95	1463.41	432.91
22	7	23.5	11.7	275.32	550.61	137.67
23	8	15.3	7.4	113.51	232.69	55.37
24	9	9.2	4.1	37.60	83.87	16.86
25	(61/62-10)	5.4	2.2	12.16	29.70	4.98
26	11	20.2	4.7	94.90	408.64	22.04
27	12	61.8	14.9	922.27	3817.80	222.79
28	1	128.6	59.8	7693.51	16530.25	3580.71
29	2	211.7	114.3	24189.25	44796.56	13061.71
30	3	285.9	201.0	57459.06	81758.98	40381.42
31	4	268.6	196.8	52860.46	72126.89	38740.45
32	5	162.3	112.1	18203.07	26352.81	12573.68
33	6	88.6	43.3	3838.07	7847.99	1877.01
34	7	58.7	24.6	1446.22	3446.67	606.83
35	8	42.0	16.7	701.73	1763.69	279.20
36	9	27.7	10.3	286.45	767.85	106.86
37	(62/63-10)	16.0	5.4	85.93	255.84	28.86
38	11	17.6	4.2	73.82	310.65	17.54
39	12	21.1	42.2	3839.91	8291.43	1778.33
40	1	189.6	101.2	19176.99	35940.51	10232.38
41	2	215.8	134.4	29004.93	46554.10	18071.14
42	3	215.8	149.6	32271.15	46553.25	22370.67
43	4	159.9	112.5	17992.51	25573.18	12658.98
44	5	93.7	50.8	4730.65	8785.14	2579.78
45	6	57.7	24.8	1433.33	3334.16	616.18
46	7	42.7	17.9	763.07	1824.64	319.12
47	8	31.5	12.8	401.58	990.73	162.77
48	9	20.8	7.7	160.29	432.60	59.39
49	(63/64-10)	13.5	4.7	63.10	181.37	21.95
50	11	27.6	8.8	242.84	762.60	77.33

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
51	12	42.7	16.9	722.53	1822.56	286.44
52	1	91.9	35.0	3215.07	8445.13	1223.98
53	2	146.1	67.8	9904.61	21355.58	4593.71
54	3	131.5	88.3	11610.84	17303.13	7791.17
55	4	86.9	56.2	4883.59	7543.79	3161.47
56	5	41.8	20.3	846.22	1744.47	410.50
57	6	26.5	11.2	296.70	699.71	125.81
58	7	21.0	9.2	192.70	441.81	84.05
59	8	16.0	6.8	108.26	254.53	46.05
60	9	11.1	4.7	51.87	122.79	21.91
61	(64/65-10)	7.3	2.8	20.40	53.46	7.79
62	11	10.1	3.5	35.10	102.02	12.08
63	12	19.3	6.4	124.34	372.58	41.50
64	1	70.8	22.2	1573.15	5019.10	493.08
65	2	116.0	51.7	5997.95	13455.38	2673.69
66	3	126.1	61.2	7711.97	15900.31	3740.46
67	4	87.6	48.6	4256.99	7675.83	2360.92
68	5	41.3	19.1	788.52	1702.03	365.31
69	6	23.9	9.6	229.86	571.96	92.37
70	7	18.6	8.0	149.24	345.19	64.52
71	8	13.4	5.4	72.87	180.43	29.43
72	9	8.7	3.5	30.43	76.09	12.17
73	(65/66-10)	6.7	2.3	15.60	45.39	5.36
74	11	8.1	2.1	17.15	65.05	4.52
75	12	17.1	7.2	123.42	293.68	51.87
76	1	30.5	15.8	480.36	928.26	248.58
77	2	84.2	37.0	3116.98	7085.61	1371.17
78	3	141.3	84.5	11947.45	19971.51	7147.26
79	4	86.4	50.2	4342.11	7471.52	2523.43
80	5	40.0	20.2	807.95	1597.21	403.70
81	6	23.1	11.5	266.48	535.64	132.58
82	7	15.4	7.7	118.34	237.95	58.85
83	8	10.9	5.2	56.97	119.65	27.13
84	9	7.9	3.4	27.17	63.07	11.70
85	(66/67-10)	40.8	2.2	90.82	1664.34	4.96
86	11	42.0	1.9	81.24	1764.89	3.74
87	12	58.0	2.9	166.51	3360.22	8.25
88	4	255.6	142.6	36454.10	65322.75	20343.62
89	5	107.1	48.8	5225.22	11468.67	2380.65
90	6	94.0	19.5	1834.35	8842.62	380.53
91	7	76.1	12.4	943.76	5790.42	153.82
92	8	62.4	9.0	562.16	3896.03	81.11
93	9	49.5	6.1	299.72	2448.83	36.68
94	(67/68-10)	9.7	3.6	34.65	94.20	12.75
95	11	14.5	4.8	69.33	209.69	22.93
96	12	32.7	14.4	471.31	1066.32	208.32
97	1	111.7	38.5	4304.93	12478.56	1485.14
98	2	127.7	67.6	8633.58	16302.36	4572.27
99	3	143.0	69.2	9890.59	20450.87	4783.36
100	4	94.9	51.1	4848.93	8998.44	2612.91

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
101	5	46.7	22.7	1058.35	2177.46	514.41
102	6	28.0	13.5	377.89	782.51	182.49
103	7	20.1	9.5	190.63	404.73	89.79
104	8	15.1	6.4	97.14	228.69	41.26
105	9	10.5	4.5	47.44	109.99	20.46
106	(68/69-10)	6.3	2.7	16.92	39.72	7.21
107	11	6.9	2.4	16.64	48.25	5.74
108	12	57.1	12.8	732.49	3263.13	164.43
109	1	150.0	61.0	9158.53	22507.13	3726.76
110	2	268.2	159.3	42729.27	71952.76	25374.85
111	3	266.7	174.5	46538.53	71133.49	30447.47
112	4	233.2	169.9	39615.47	54392.79	28852.82
113	5	156.3	98.0	15307.87	24416.83	9597.10
114	6	79.4	33.4	2650.25	6302.62	1114.43
115	7	51.3	19.8	1017.55	2633.98	393.10
116	8	36.8	14.5	532.04	1352.97	209.22
117	9	22.6	9.2	206.94	509.72	84.02
118	(69/70-10)	15.7	6.1	96.85	248.05	37.81
119	11	21.4	7.3	157.42	459.22	53.96
120	12	60.3	21.5	1297.87	3635.95	463.28
121	1	138.0	57.8	7975.23	19049.31	3338.93
122	2	212.7	123.0	26158.11	45248.16	15122.09
123	3	189.9	132.5	25173.10	36076.81	17564.88
124	4	110.1	63.2	6960.09	12125.38	3995.16
125	5	58.8	27.1	1593.38	3455.53	734.72
126	6	37.3	15.6	584.07	1393.18	244.86
127	7	26.5	11.3	300.51	701.50	128.74
128	8	19.7	8.7	170.89	388.20	75.22
129	9	12.5	5.8	71.87	156.18	33.08
130	(70/71-10)	8.9	3.8	33.44	79.21	14.12
131	11	21.5	5.6	119.98	462.67	31.12
132	12	101.3	31.8	3215.25	10254.92	1008.09
133	1	208.4	102.9	21453.69	43429.51	10597.88
134	2	239.8	164.1	39352.00	57494.71	26934.31
135	3	267.6	201.5	53911.88	71588.54	40599.25
136	4	177.8	128.8	22909.02	31618.92	16598.39
137	5	103.7	54.3	5628.66	10747.35	2947.87
138	6	60.8	25.5	1553.57	3697.28	652.80
139	7	44.7	17.4	775.90	1996.66	301.52
140	8	31.8	12.4	395.61	1010.08	154.94
141	9	21.8	8.2	179.44	475.41	67.73
142	(71/72-10)	16.3	6.2	101.10	265.18	38.54
143	11	21.2	7.5	158.14	449.90	55.59
144	12	50.1	17.2	861.05	2505.30	295.94
145	1	121.0	47.0	5687.96	14649.30	2208.49
146	2	135.1	51.2	6916.00	18246.82	2621.34
147	3	189.2	102.3	19347.47	35792.34	10458.24
148	4	188.4	126.1	23751.25	35483.55	15898.12
149	5	108.5	53.7	5828.86	11781.24	2883.88
150	6	61.6	26.0	1600.57	3789.55	676.02

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	7	41.3	16.5	679.32	1703.19	270.95
152	8	29.9	11.9	355.37	896.66	140.84
153	9	20.3	8.9	180.66	411.18	79.37
154	(72/73-10)	14.7	4.5	65.38	215.19	19.87
155	11	13.7	4.4	59.66	187.15	19.02
156	12	20.1	5.6	112.90	402.89	31.64
157	1	39.2	10.7	418.00	1538.05	113.60
158	2	65.2	19.2	1249.03	4248.83	367.18
159	3	82.8	26.5	2194.98	6848.37	703.52
160	4	57.7	22.8	1317.43	3328.07	521.51
161	5	29.1	12.1	351.80	849.66	145.66
162	6	17.2	6.1	104.46	295.66	36.91
163	7	13.2	4.3	57.00	174.49	18.62
164	8	10.8	3.5	37.63	116.80	12.12
165	9	8.2	2.8	22.55	66.65	7.63
166	(73/74-10)	6.9	2.3	16.11	48.00	5.41
167	11	11.8	2.9	33.98	139.99	8.25
168	12	17.3	3.3	56.67	298.61	10.75
169	1	58.7	12.8	748.77	3440.15	162.98
170	2	84.1	21.9	1842.97	7071.41	480.32
171	3	127.0	47.8	6066.16	16118.07	2283.04
172	4	129.4	58.4	7564.49	16756.11	3414.96
173	5	70.4	25.8	1813.71	4957.26	663.58
174	6	40.6	15.5	628.49	1650.86	239.27
175	7	26.4	8.8	231.24	697.19	76.70
176	8	18.3	5.8	105.82	336.28	33.30
177	9	12.5	3.9	48.47	155.17	15.14
178	(74/75-10)	7.9	2.4	19.33	62.35	5.99
179	11	8.7	2.2	19.38	75.80	4.96
180	12	43.7	6.7	293.54	1909.26	45.13
181	1	123.8	24.3	3012.60	15327.91	592.11
182	2	107.1	28.1	3009.49	11466.67	789.85
183	3	224.1	96.9	21706.56	50222.13	9381.81
184	4	190.1	112.6	21406.77	36153.72	12675.04
185	5	98.0	42.0	4118.52	9600.30	1766.85
186	6	53.3	22.0	1173.44	2840.33	484.79
187	7	34.5	11.4	393.69	1190.34	130.21
188	8	24.6	7.7	188.18	604.78	58.55
189	9	16.4	4.6	76.18	269.97	21.50
190	(75/76-10)	11.1	2.6	28.69	123.00	6.69
191	11	9.4	2.2	20.42	88.26	4.72
192	12	32.2	6.1	195.32	1038.11	36.75
193	1	126.2	46.3	5842.99	15914.80	2145.20
194	2	193.3	80.5	15561.45	37372.91	6479.53
195	3	261.9	121.1	31705.53	68580.83	14657.75
196	4	278.9	165.6	46187.77	77807.66	27417.74
197	5	188.7	111.4	21021.48	35594.28	12414.99
198	6	106.8	40.8	4361.51	11408.16	1667.47
199	7	67.3	22.9	1538.91	4530.75	522.70
200	8	47.0	15.7	738.96	2207.49	247.36

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
201	9	33.3	9.8	326.32	1108.21	96.08
202	(76/77-10)	21.2	4.0	85.36	448.96	16.23
203	11	23.5	3.6	85.31	550.62	13.22
204	12	51.0	9.0	456.72	2596.27	80.34
205	1	105.4	29.4	3095.82	11118.84	861.97
206	2	162.3	67.3	10918.13	26325.69	4528.11
207	3	255.4	150.9	38537.08	65243.11	22762.65
208	4	202.5	129.6	26256.95	41018.59	16807.68
209	5	113.1	53.4	6042.67	12792.62	2854.29
210	6	63.4	25.4	1609.73	4021.54	644.34
211	7	44.2	14.2	627.51	1957.16	201.20
212	8	34.9	10.2	356.24	1219.68	104.05
213	9	24.1	6.3	150.54	578.44	39.18
214	(77/78-10)	15.0	2.6	39.68	225.57	6.98
215	11	19.1	2.2	41.10	364.50	4.63
216	12	70.0	21.5	1505.97	4902.72	462.59
217	1	150.7	65.2	9822.02	22722.16	4245.73
218	2	256.6	171.3	43969.44	65850.78	29358.98
219	3	372.4	231.1	86061.17	138703.71	53398.18
220	4	329.9	230.2	75949.50	108854.48	52991.17
221	5	192.6	121.6	23426.12	37111.50	14787.41
222	6	125.5	49.7	6237.08	15755.43	2469.06
223	7	76.9	30.0	2307.33	5910.52	900.73
224	8	55.2	21.3	1175.55	3045.29	453.79
225	9	40.1	11.1	446.93	1607.97	124.22
226	(78/79-10)	28.5	5.2	148.84	813.22	27.24
227	1	157.4	69.3	10909.78	24771.45	4804.86
228	2	203.7	127.5	25963.90	41474.77	16253.84
229	3	270.4	193.0	52166.02	73094.59	37229.76
230	4	283.7	214.5	60846.82	80492.43	45996.07
231	5	164.2	111.1	18235.54	26952.52	12337.80
232	6	97.2	50.5	4903.22	9439.94	2546.79
233	7	66.7	28.2	1883.71	4446.85	797.95
234	8	49.7	21.6	1070.81	2466.95	464.80
235	9	34.7	12.2	422.46	1205.93	148.00
236	(79/80-10)	27.9	6.6	183.68	777.13	43.41
237	1	147.1	73.8	10847.09	21630.33	5439.55
238	2	154.2	96.6	14904.07	23782.58	9340.09
239	3	196.7	125.0	24578.42	38680.73	15617.56
240	4	200.9	140.7	28263.22	40368.79	19787.80
241	5	139.1	87.8	12220.03	19355.24	7715.18
242	6	76.8	38.9	2985.37	5891.63	1512.72
243	7	51.3	26.9	1376.86	2629.15	721.04
244	8	39.0	20.2	790.00	1523.24	409.72
245	9	27.6	10.2	281.33	760.21	104.11
246	(80/81-10)	19.3	5.9	114.58	373.79	35.13
247	11	16.9	4.8	81.87	286.49	23.40
248	12	41.2	11.9	491.82	1694.51	142.75
249	1	85.1	29.6	2517.91	7249.52	874.52
250	2	132.2	53.7	7101.94	17479.42	2885.54

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
251	3	193.7	102.7	19893.54	37500.36	10553.31
252	4	163.2	110.0	17952.37	26636.22	12099.61
253	5	93.5	44.3	4145.00	8747.67	1964.07
254	6	53.8	24.0	1291.59	2894.63	576.31
255	7	36.2	13.6	494.55	1313.95	186.14
256	8	27.6	9.6	263.70	759.09	91.61
257	9	19.1	6.2	119.02	364.88	38.83
258	(81/82-10)	12.6	3.6	45.69	158.68	13.16
259	11	12.0	2.5	30.29	143.70	6.39
260	12	21.8	5.2	113.25	475.75	26.96
261	1	48.4	14.6	705.28	2341.21	212.46
262	2	162.4	62.9	10213.45	26370.93	3955.67
263	3	125.8	62.7	7890.96	15824.14	3934.95
264	4	85.8	41.1	3526.56	7360.19	1689.72
265	5	64.0	30.8	1973.00	4092.45	951.20
266	6	32.8	14.2	465.66	1075.35	201.65
267	7	20.6	8.2	168.68	424.51	67.02
268	8	16.0	5.5	87.70	256.89	29.94
269	9	11.7	3.5	40.79	135.87	12.25
270	(82/83-10)	11.5	2.9	33.41	132.22	8.44
271	11	17.9	4.4	79.12	319.10	19.62
272	12	74.5	27.1	2019.13	5557.11	733.64
273	1	103.6	42.4	4390.70	10737.61	1795.40
274	2	213.8	100.9	21561.60	45697.37	10173.51
275	3	165.4	83.7	13848.28	27357.90	7009.85
276	4	107.1	41.8	4474.65	11479.98	1744.12
277	5	56.8	23.2	1315.74	3227.16	536.44
278	6	32.7	10.9	356.16	1066.90	118.90
279	7	22.9	6.6	151.42	524.44	43.72
280	8	17.3	4.7	80.88	298.59	21.91
281	9	12.1	3.0	36.43	146.06	9.09
282	(83/84-10)	9.5	2.1	20.09	90.37	4.47
283	11	9.3	1.9	17.65	86.65	3.60
284	12	38.0	6.1	233.06	1444.35	37.61
285	1	111.3	32.1	3576.82	12385.20	1032.98
286	2	127.7	56.2	7177.10	16299.04	3160.36
287	3	155.8	79.5	12385.94	24258.29	6324.08
288	4	94.9	40.9	3878.94	9012.79	1669.42
289	5	37.0	14.2	524.50	1368.06	201.09
290	6	21.0	6.7	140.33	441.75	44.58
291	7	16.7	4.9	81.68	277.48	24.05
292	8	13.4	4.1	54.25	178.73	16.47
293	9	9.2	3.0	27.94	84.88	9.20
294	(84/85-10)	7.3	2.4	17.50	53.86	5.69
295	11	12.1	2.9	34.43	145.73	8.14
296	12	92.2	12.9	1187.30	8507.15	165.71
297	1	127.2	28.5	3625.24	16178.50	812.33
298	2	200.8	69.9	14028.26	40321.50	4880.58
299	3	179.1	74.6	13356.72	32063.19	5564.08
300	4	162.0	86.4	14001.34	26231.75	7473.29

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
301	5	103.4	42.8	4424.57	10694.49	1830.55
302	6	63.4	19.4	1228.88	4024.43	375.25
303	7	34.3	11.7	399.47	1175.63	135.73
304	8	23.4	7.5	175.14	547.54	56.02
305	9	16.0	4.5	72.68	255.23	20.70
306	(85/86-10)	10.7	2.8	29.67	115.35	7.63
307	11	16.4	2.8	46.81	270.18	8.11
308	12	60.3	6.8	408.37	3638.46	45.84
309	1	106.4	19.2	2037.66	11318.46	366.84
310	2	232.5	80.1	18624.53	54069.63	6415.30
311	3	273.9	141.3	38701.20	75013.96	19966.72
312	4	232.9	125.9	29321.71	54229.80	15854.07
313	5	140.8	63.4	8934.45	19829.03	4025.63
314	6	95.5	32.0	3052.44	9125.77	1021.00
315	7	69.4	20.2	1399.97	4821.90	406.46
316	8	50.3	12.4	621.11	2528.27	152.59
317	9	34.8	6.9	239.42	1214.51	47.20
318	(86/87-10)	31.3	4.6	144.86	978.64	21.44
319	11	47.4	9.6	453.18	2246.85	91.40
320	12	59.2	17.5	1032.68	3499.20	304.76
321	1	110.9	38.0	4218.83	12303.48	1446.62
322	2	202.6	101.6	20584.79	41043.94	10323.90
323	3	193.7	114.6	22200.51	37514.54	13137.90
324	4	148.4	80.0	11867.94	22024.67	6395.01
325	5	87.6	35.8	3136.89	7673.49	1282.34
326	6	39.8	18.4	730.78	1581.56	337.66
327	7	29.1	11.9	347.66	848.93	142.37
328	8	23.0	8.9	205.41	527.26	80.03
329	9	16.3	5.4	88.03	265.86	29.15
330	(87/88-10)	14.4	3.2	45.54	207.61	9.99
331	11	9.9	2.4	24.13	97.47	5.98
332	12	17.3	4.4	77.03	300.19	19.77
333	1	60.5	18.9	1142.91	3657.27	357.17
334	2	151.1	61.6	9305.29	22827.34	3793.19
335	3	193.6	95.7	18522.31	37494.03	9150.15
336	4	132.4	70.4	9316.51	17522.83	4953.39
337	5	60.2	29.3	1763.04	3622.60	858.03
338	6	33.8	12.8	433.89	1142.21	164.82
339	7	24.3	8.4	204.52	589.85	70.92
340	8	18.3	5.7	104.86	335.30	32.79
341	9	11.9	3.5	41.45	142.56	12.05
342	(88/89-10)	8.5	2.3	19.94	72.64	5.47
343	12	24.4	6.7	163.67	595.31	45.00
344	1	85.3	26.7	2278.05	7282.28	712.62
345	2	178.7	62.2	11119.19	31922.26	3873.04
346	3	160.6	67.5	10834.68	25788.10	4552.11
347	4	179.7	89.9	16153.97	32292.40	8080.87
348	5	92.9	40.2	3738.65	8632.15	1619.23
349	6	44.3	17.2	761.64	1958.28	296.23
350	7	40.8	9.5	388.79	1664.34	90.82

NO. YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
351	8	42.0	271.73	1764.89	41.84
352	9	58.0	216.00	3360.22	13.89
TOTAL	27673	13427	2223087	4098423	1284526
$Y = a + b * X$					
$X = a' + b' * Y$					
(a' = -a/b, b' = 1/b)					
Corelation Coefficient					
				a=	-9.58662
				b=	0.60715
				a'=	15.78942
				b'=	1.64703
				c=	0.95802

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORELATION BETWEEN STATIONS X and Y

X: 4-130 SMITH'S BRIDGE

Y: 4-120 MWAMBASHI

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(59/60-10)	2.5	0.8	2.07	6.40	0.67
2	11	3.1	0.8	2.61	9.81	0.70
3	12	8.6	1.7	14.27	73.25	2.78
4	1	17.8	2.9	52.29	315.40	8.67
5	2	76.2	14.8	1128.42	5801.84	219.47
6	3	141.0	21.4	3011.29	19876.10	456.22
7	4	104.6	8.3	872.64	10945.96	69.57
8	5	39.6	4.2	164.74	1572.12	17.26
9	6	19.0	2.9	55.74	360.14	8.63
10	7	12.5	2.3	28.87	155.97	5.34
11	8	8.7	1.9	16.13	75.21	3.46
12	9	5.6	1.4	7.95	31.58	2.00
13	(60/61-10)	3.9	1.1	4.15	15.33	1.13
14	11	4.4	1.0	4.52	19.48	1.05
15	12	14.9	2.5	36.87	222.82	6.10
16	1	47.0	5.5	256.54	2212.83	29.74
17	2	133.5	17.2	2291.09	17815.62	294.64
18	3	159.0	19.4	3078.49	25288.64	374.76
19	4	136.5	13.4	1829.54	18623.82	179.73
20	5	77.0	6.4	491.30	5936.62	40.66
21	6	38.3	4.0	151.58	1463.41	15.70
22	7	23.5	3.1	72.45	550.61	9.53
23	8	15.3	2.4	36.30	232.69	5.66
24	9	9.2	1.7	15.85	83.87	3.00
25	(61/62-11)	20.2	3.8	77.42	408.64	14.67
26	12	61.8	8.8	542.47	3817.80	77.08
27	1	128.6	13.3	1710.50	16530.25	177.00
28	2	211.7	25.2	5340.86	44796.56	636.76
29	3	285.9	33.3	9516.13	81758.98	1107.61
30	4	268.6	30.3	8140.00	72126.89	918.65
31	5	162.3	16.0	2603.24	26352.81	257.16
32	6	88.6	9.5	838.12	7847.99	89.51
33	7	58.7	7.0	408.46	3446.67	48.41
34	8	42.0	5.3	220.89	1763.69	27.67
35	9	27.7	3.6	99.87	767.85	12.99
36	(62/63-10)	16.0	2.3	37.40	255.84	5.47
37	11	17.6	2.8	49.79	310.65	7.98
38	12	91.1	10.0	911.84	8291.43	100.28
39	1	189.6	23.6	4476.23	35940.51	557.50
40	2	215.8	26.9	5805.97	46554.10	724.09
41	3	215.8	24.6	5302.33	46553.25	603.93
42	4	159.9	15.2	2438.60	25573.18	232.54
43	5	93.7	9.1	850.79	8785.14	82.39
44	6	57.7	6.8	390.51	3334.16	45.74
45	7	42.7	5.4	232.71	1824.64	29.68
46	8	31.5	4.1	128.62	990.73	16.70
47	9	20.8	2.9	60.73	432.60	8.52
48	(63/64-10)	13.5	2.1	28.11	181.37	4.36
49	11	27.6	4.3	119.82	762.60	18.83
50	12	42.7	5.3	225.98	1822.56	28.02

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
51	1	91.9	8.7	800.74	8445.13	75.92
52	2	146.1	18.2	2661.95	21355.58	331.81
53	3	131.5	10.4	1366.30	17303.13	107.89
54	4	86.9	4.7	409.31	7543.79	22.21
55	5	41.8	3.2	135.28	1744.47	10.49
56	6	26.5	2.8	72.81	699.71	7.58
57	7	21.0	2.4	50.17	441.81	5.70
58	8	16.0	2.0	32.32	254.53	4.10
59	9	11.1	1.5	16.95	122.79	2.34
60	(64/65-10)	7.3	1.2	8.42	53.46	1.33
61	11	10.1	1.5	14.93	102.02	2.19
62	12	19.3	2.8	54.98	372.58	8.11
63	1	70.8	11.8	837.18	5019.10	139.64
64	2	116.0	11.9	1374.76	13455.38	140.46
65	3	126.1	11.5	1447.59	15900.31	131.79
66	4	87.6	6.1	535.49	7675.83	37.36
67	5	41.3	3.2	132.05	1702.03	10.25
68	6	23.9	2.6	62.77	571.96	6.89
69	7	18.6	2.3	42.11	345.19	5.14
70	8	13.4	1.9	24.88	180.43	3.43
71	9	8.7	1.5	12.89	76.09	2.18
72	(65/66-10)	6.7	1.3	8.70	45.39	1.67
73	11	8.1	1.5	12.06	65.05	2.24
74	12	17.1	3.0	51.72	293.68	9.11
75	1	30.5	2.8	86.22	928.26	8.01
76	2	84.2	8.9	746.22	7085.61	78.59
77	3	141.3	17.2	2432.62	19971.51	296.30
78	4	86.4	6.9	595.04	7471.52	47.39
79	5	40.0	3.9	156.81	1597.21	15.40
80	6	23.1	2.8	65.17	535.64	7.93
81	7	15.4	2.3	35.85	237.95	5.40
82	8	10.9	1.9	21.05	119.65	3.70
83	9	7.9	1.5	12.02	63.07	2.29
84	(66/67-10)	40.8	1.1	45.35	1664.34	1.24
85	11	42.0	0.9	39.68	1764.89	0.89
86	12	58.0	1.6	92.94	3360.22	2.57
87	1	196.5	4.7	933.21	38622.75	22.55
88	2	285.5	7.8	2227.34	81496.83	60.87
89	3	274.6	15.5	4242.43	75383.10	233.76
90	4	255.6	10.7	2722.40	65322.75	113.46
91	5	107.1	4.2	445.36	11468.67	17.29
92	6	94.0	2.9	273.93	8842.62	8.49
93	7	76.1	2.3	177.65	5790.42	5.45
94	8	62.4	2.1	129.30	3896.03	4.29
95	9	49.5	1.6	81.07	2448.83	2.68
96	(67/68-10)	9.7	1.2	12.08	94.20	1.55
97	11	14.5	2.5	36.83	209.69	6.47
98	12	32.7	5.6	184.21	1066.32	31.82
99	1	111.7	17.4	1943.88	12478.56	302.81
100	2	127.7	14.4	1835.02	16302.36	206.55

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
101	3	143.0	16.7	2385.12	20450.87	278.17
102	4	94.9	8.2	780.95	8998.44	67.78
103	5	46.7	4.7	219.23	2177.46	22.07
104	6	28.0	3.6	101.59	782.51	13.19
105	7	20.1	3.4	69.37	404.73	11.89
106	8	15.1	2.7	41.21	228.69	7.43
107	9	10.5	2.0	21.02	109.99	4.02
108	(68/69-10)	6.3	1.4	8.71	39.72	1.91
109	11	6.9	1.5	10.37	48.25	2.23
110	12	57.1	8.5	486.21	3263.13	72.45
111	1	150.0	19.0	2845.30	22507.13	359.70
112	2	268.2	29.0	7766.74	71952.76	838.36
113	3	266.7	25.6	6819.65	71133.49	653.81
114	4	233.2	20.0	4662.37	54392.79	399.64
115	5	156.3	11.1	1728.39	24416.83	122.35
116	6	79.4	6.9	544.99	6302.62	47.13
117	7	51.3	5.7	291.84	2633.98	32.34
118	8	36.8	4.4	162.54	1352.97	19.53
119	9	22.6	3.0	66.63	509.72	8.71
120	(69/70-10)	15.7	2.3	37.00	248.05	5.52
121	11	21.4	3.2	69.33	459.22	10.47
122	12	60.3	7.3	438.88	3635.95	52.98
123	1	138.0	12.5	1725.54	19049.31	156.30
124	2	212.7	22.6	4817.40	45248.16	512.89
125	3	189.9	14.5	2762.92	36076.81	211.60
126	4	110.1	6.6	729.79	12125.38	43.92
127	5	58.8	4.2	245.89	3455.53	17.50
128	6	37.3	3.5	130.77	1393.18	12.27
129	7	26.5	3.1	81.15	701.50	9.39
130	8	19.7	2.3	45.40	388.20	5.31
131	9	12.5	1.6	20.27	156.18	2.63
132	(70/71-10)	8.9	1.4	12.14	79.21	1.86
133	11	21.5	2.7	58.03	462.67	7.28
134	12	101.3	13.5	1368.94	10254.92	182.74
135	1	208.4	25.3	5276.58	43429.51	641.09
136	2	239.8	24.4	5839.10	57494.71	593.01
137	3	267.6	25.2	6743.06	71588.54	635.14
138	4	177.8	12.2	2177.95	31618.92	150.02
139	5	103.7	6.3	655.83	10747.35	40.02
140	6	60.8	4.8	292.33	3697.28	23.11
141	7	44.7	4.0	177.44	1996.66	15.77
142	8	31.8	2.9	91.87	1010.08	8.36
143	9	21.8	2.1	46.67	475.41	4.58
144	(71/72-10)	16.3	1.6	25.46	265.18	2.44
145	11	21.2	2.6	55.83	449.90	6.93
146	12	50.1	4.7	234.87	2505.30	22.02
147	1	121.0	13.1	1582.15	14649.30	170.88
148	2	135.1	15.7	2119.96	18246.82	246.30
149	3	189.2	22.7	4290.18	35792.34	514.23
150	4	188.4	14.9	2806.16	35483.55	221.92

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	5	108.5	7.8	849.75	11781.24	61.29
152	6	61.6	5.0	309.95	3789.55	25.35
153	7	41.3	4.2	174.39	1703.19	17.86
154	8	29.9	3.3	99.22	896.66	10.98
155	9	20.3	2.4	48.86	411.18	5.81
156	(72/73-10)	14.7	1.7	25.51	215.19	3.02
157	11	13.7	1.5	20.99	187.15	2.35
158	12	20.1	2.8	55.24	402.89	7.57
159	1	39.2	4.9	190.31	1538.05	23.55
160	2	65.2	6.0	390.98	4248.83	35.98
161	3	82.8	9.2	759.21	6848.37	84.16
162	4	57.7	5.3	304.37	3328.07	27.84
163	5	29.1	2.5	73.52	849.66	6.36
164	6	17.2	2.0	34.25	295.66	3.97
165	7	13.2	1.8	23.76	174.49	3.24
166	8	10.8	1.6	16.82	116.80	2.42
167	9	8.2	1.2	9.77	66.65	1.43
168	(73/74-10)	6.9	1.0	7.23	48.00	1.09
169	11	11.8	1.3	15.43	139.99	1.70
170	12	17.3	1.9	33.05	298.61	3.66
171	1	58.7	7.7	450.10	3440.15	58.89
172	2	84.1	11.3	954.31	7071.41	128.79
173	3	127.0	12.5	1581.10	16118.07	155.10
174	4	129.4	10.6	1367.09	16756.11	111.54
175	5	70.4	5.6	394.89	4957.26	31.46
176	6	40.6	3.6	146.73	1650.86	13.04
177	7	26.4	3.1	81.62	697.19	9.55
178	8	18.3	2.5	46.24	336.28	6.36
179	9	12.5	1.9	23.93	155.17	3.69
180	(74/75-10)	7.9	1.3	10.03	62.35	1.61
181	11	8.7	1.3	11.70	75.80	1.81
182	12	43.7	7.5	329.56	1909.26	56.89
183	1	123.8	19.8	2457.39	15327.91	393.97
184	2	107.1	17.5	1877.62	11466.67	307.45
185	3	224.1	27.5	6168.00	50222.13	757.52
186	4	190.1	16.4	3114.59	36153.72	268.32
187	5	98.0	8.1	792.69	9600.30	65.45
188	6	53.3	5.4	285.24	2840.33	28.65
189	7	34.5	4.1	140.37	1190.34	16.55
190	8	24.6	3.4	83.39	604.78	11.50
191	9	16.4	2.5	41.21	269.97	6.29
192	(75/76-10)	11.1	1.7	18.58	123.00	2.81
193	11	9.4	1.9	17.95	88.26	3.65
194	12	32.2	4.8	153.76	1038.11	22.77
195	1	126.2	11.8	1490.21	15914.80	139.54
196	2	193.3	22.1	4271.06	37372.91	488.11
197	3	261.9	33.2	8682.96	68580.83	1099.34
198	4	278.9	35.8	9980.97	77807.66	1280.33
199	5	188.7	18.1	3415.83	35594.28	327.80
200	6	106.8	10.5	1121.89	11408.16	110.33

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
201	7	67.3	7.7	519.41	4530.75	59.55
202	8	47.0	5.7	266.18	2207.49	32.10
203	9	33.3	4.1	136.37	1108.21	16.78
204	(76/77-10)	21.2	3.1	64.66	448.96	9.31
205	11	23.5	3.0	70.61	550.62	9.06
206	12	51.0	7.3	369.92	2596.27	52.71
207	1	105.4	11.7	1235.17	11118.84	137.21
208	2	162.3	14.4	2337.36	26325.69	207.52
209	3	255.4	26.4	6754.57	65243.11	699.30
210	4	202.5	13.6	2757.52	41018.59	185.38
211	5	113.1	6.4	722.25	12792.62	40.78
212	6	63.4	4.5	286.66	4021.54	20.43
213	7	44.2	3.6	158.55	1957.16	12.84
214	8	34.9	2.9	99.80	1219.68	8.17
215	9	24.1	1.8	42.93	578.44	3.19
216	(77/78-10)	15.0	1.3	19.48	225.57	1.68
217	11	19.1	1.4	27.42	364.50	2.06
218	12	70.0	10.2	717.23	4902.72	104.93
219	1	150.7	15.7	2359.82	22722.16	245.08
220	2	256.6	29.0	7431.97	65850.78	838.78
221	3	372.4	47.6	17715.39	138703.71	2262.63
222	4	329.9	37.9	12511.38	108854.48	1438.02
223	5	192.6	14.9	2878.04	37111.50	223.20
224	6	125.5	9.0	1132.72	15755.43	81.44
225	7	76.9	7.1	544.21	5910.52	50.11
226	8	55.2	5.2	286.35	3045.29	26.93
227	9	40.1	3.6	143.52	1607.97	12.81
228	(78/79-12)	215.1	15.4	3320.89	46248.70	238.46
229	1	157.4	17.7	2790.26	24771.45	314.30
230	2	203.7	22.8	4644.69	41474.77	520.15
231	3	270.4	30.5	8244.25	73094.59	929.86
232	4	283.7	27.3	7759.11	80492.43	747.94
233	5	164.2	11.2	1846.08	26952.52	126.44
234	6	97.2	7.5	726.47	9439.94	55.91
235	7	66.7	5.8	388.10	4446.85	33.87
236	8	49.7	4.2	208.09	2466.95	17.55
237	9	34.7	2.8	98.89	1205.93	8.11
238	(79/80-10)	27.9	2.7	74.72	777.13	7.19
239	1	147.1	10.4	1536.15	21630.33	109.09
240	2	154.2	11.4	1756.67	23782.58	129.75
241	3	196.7	17.5	3450.14	38680.73	307.74
242	4	200.9	17.2	3462.54	40368.79	296.99
243	5	139.1	7.4	1034.51	19355.24	55.29
244	6	76.8	5.1	388.28	5891.63	25.59
245	7	51.3	4.1	211.13	2629.15	16.96
246	8	39.0	2.8	109.83	1523.24	7.92
247	9	27.6	2.0	54.42	760.21	3.90
248	(80/81-10)	19.3	1.7	33.64	373.79	3.03
249	11	16.9	1.8	31.02	286.49	3.36
250	12	41.2	3.9	159.78	1694.51	15.07

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
251	1	85.1	6.1	517.20	7249.52	36.90
252	2	132.2	11.0	1455.40	17479.42	121.18
253	4	163.2	9.9	1612.28	26636.22	97.59
254	5	93.5	5.8	540.03	8747.67	33.34
255	6	53.8	3.8	202.11	2894.63	14.11
256	7	36.2	2.9	105.19	1313.95	8.42
257	8	27.6	2.4	65.22	759.09	5.60
258	9	19.1	1.8	33.66	364.88	3.11
259	(81/82-10)	12.6	1.3	16.47	158.68	1.71
260	11	12.0	1.7	20.69	143.70	2.98
261	12	21.8	3.4	73.16	475.75	11.25
262	1	48.4	8.8	427.81	2341.21	78.17
263	2	162.4	17.7	2876.15	26370.93	313.69
264	3	125.8	9.1	1147.90	15824.14	83.27
265	4	85.8	5.7	486.73	7360.19	32.19
266	5	64.0	4.1	259.97	4092.45	16.51
267	6	32.8	2.3	76.82	1075.35	5.49
268	7	20.6	1.8	37.59	424.51	3.33
269	8	16.0	1.5	24.20	256.89	2.28
270	9	11.7	1.2	14.12	135.87	1.47
271	(82/83-10)	11.5	1.2	13.75	132.22	1.43
272	11	17.9	2.3	41.66	319.10	5.44
273	12	74.5	6.1	452.04	5557.11	36.77
274	1	103.6	9.2	950.80	10737.61	84.19
275	2	213.8	22.9	4894.70	45697.37	524.28
276	3	165.4	11.6	1915.34	27357.90	134.09
277	4	107.1	6.8	731.87	11479.98	46.66
278	5	56.8	3.5	201.40	3227.16	12.57
279	6	32.7	2.3	76.55	1066.90	5.49
280	7	22.9	2.1	49.20	524.44	4.62
281	8	17.3	1.7	29.74	298.59	2.96
282	9	12.1	1.2	14.71	146.06	1.48
283	(83/84-10)	9.5	1.1	10.05	90.37	1.12
284	11	9.3	1.2	11.06	86.65	1.41
285	12	38.0	4.0	151.83	1444.35	15.96
286	1	111.3	9.0	1004.17	12385.20	81.42
287	2	127.7	8.2	1041.42	16299.04	66.54
288	3	155.8	10.2	1585.73	24258.29	103.66
289	4	94.9	7.5	710.37	9012.79	55.99
290	5	37.0	2.4	87.90	1368.06	5.65
291	6	21.0	1.7	36.29	441.75	2.98
292	7	16.7	1.6	27.43	277.48	2.71
293	8	13.4	1.5	19.66	178.73	2.16
294	9	9.2	1.1	10.33	84.88	1.26
295	(84/85-10)	7.3	0.9	6.70	53.86	0.83
296	11	12.1	1.6	18.83	145.73	2.43
297	12	92.2	16.3	1505.32	8507.15	266.36
298	1	127.2	20.6	2625.48	16178.50	426.07
299	2	200.8	24.8	4978.73	40321.50	614.75
300	3	179.1	16.7	2998.37	32063.19	280.39

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
301	4	162.0	11.7	1889.63	26231.75	136.12
302	5	103.4	7.1	734.92	10694.49	50.50
303	6	63.4	4.5	286.55	4024.43	20.40
304	7	34.3	3.2	110.81	1175.63	10.45
305	8	23.4	2.4	55.41	547.54	5.61
306	9	16.0	2.0	32.72	255.23	4.19
307	(85/86-10)	10.7	1.4	14.96	115.35	1.94
308	11	16.4	2.4	40.17	270.18	5.97
309	12	60.3	7.1	429.37	3638.46	50.67
310	1	106.4	16.8	1786.42	11318.46	281.95
311	2	232.5	30.8	7160.48	54069.63	948.27
312	3	273.9	32.0	8760.92	75013.96	1023.19
313	4	232.9	25.3	5892.10	54229.80	640.18
314	5	140.8	15.1	2121.16	19829.03	226.91
315	6	95.5	9.2	877.95	9125.77	84.46
316	7	69.4	7.4	515.20	4821.90	55.05
317	8	50.3	5.8	289.47	2528.27	33.14
318	9	34.8	3.9	135.41	1214.51	15.10
319	(86/87-10)	31.3	3.7	117.02	978.64	13.99
320	11	47.4	7.8	370.23	2246.85	61.01
321	12	59.2	7.6	451.89	3499.20	58.36
322	1	110.9	11.6	1283.86	12303.48	133.97
323	2	202.6	20.2	4094.62	41043.94	408.49
324	3	193.7	15.2	2939.65	37514.54	230.35
325	4	148.4	9.5	1406.66	22024.67	89.84
326	5	87.6	4.8	417.91	7673.49	22.76
327	6	39.8	3.2	129.12	1581.56	10.54
328	7	29.1	2.7	77.40	848.93	7.06
329	8	23.0	2.1	47.79	527.26	4.33
330	9	16.3	1.5	24.85	265.86	2.32
331	(87/88-10)	14.4	1.3	19.39	207.61	1.81
332	11	9.9	1.0	10.24	97.47	1.08
333	12	17.3	2.0	35.22	300.19	4.13
334	1	60.5	9.4	567.06	3657.27	87.92
335	2	151.1	15.2	2302.11	22827.34	232.17
336	3	193.6	17.6	3400.09	37494.03	308.33
337	4	132.4	8.0	1064.94	17522.83	64.72
338	5	60.2	3.6	213.74	3622.60	12.61
339	6	33.8	2.6	87.95	1142.21	6.77
340	7	24.3	2.3	55.98	589.85	5.31
341	8	18.3	1.9	35.67	335.30	3.80
342	9	11.9	1.4	16.83	142.56	1.99
343	(88/89-10)	8.5	1.0	8.55	72.64	1.01
344	12	24.4	3.3	80.43	595.31	10.87
345	1	85.3	8.4	720.86	7282.28	71.36
346	2	178.7	17.9	3203.93	31922.26	321.57
347	3	160.6	11.6	1865.30	25788.10	134.92
348	4	179.7	13.3	2398.27	32292.40	178.11
349	5	92.9	4.6	424.71	8632.15	20.90
350	6	44.3	2.9	129.75	1958.28	8.60

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²	
351	7	40.8	2.7	110.01	1664.34	7.27	
352	8	42.0	2.3	94.76	1764.89	5.09	
353	9	58.0	1.6	93.15	3360.22	2.58	
TOTAL		28416.9	2797.9	420394.7	4301830.8	44433.1	
Y = a + b*X						a =	0.12598
X = a' + b'*Y		(a' = -a/b, b' = 1/b)				b =	0.09689
						a' =	-1.30020
						b' =	10.32073
		Correlation Coefficient				c =	0.92174

<<< MASTER PROGRAM FOR D8-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORELATION BETWEEN STATIONS X and Y

X: 4-200 MPATAMATO

Y: 4-130 SMITH'S BRIDGE

(DISCHARGE UNTT : m3/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
1	(59/60-10)	7.1	2.5	18.01	50.72	6.40
2	11	8.4	3.1	26.25	70.23	9.81
3	12	23.6	8.6	201.67	555.26	73.25
4	1	42.3	17.8	750.82	1787.36	315.40
5	2	136.1	76.2	10363.47	18511.62	5801.84
6	3	200.5	141.0	28263.39	40189.94	19876.10
7	4	118.3	104.6	12379.98	14001.86	10945.96
8	5	47.7	39.6	1891.97	2276.89	1572.12
9	6	26.2	19.0	497.48	687.21	360.14
10	7	19.2	12.5	239.76	368.55	155.97
11	8	14.4	8.7	125.00	207.76	75.21
12	9	10.5	5.6	58.86	109.69	31.58
13	(60/61-10)	8.4	3.9	32.99	70.99	15.33
14	11	10.3	4.4	45.58	106.66	19.48
15	12	23.5	14.9	350.94	552.72	222.82
16	1	65.4	47.0	3074.26	4271.03	2212.83
17	2	187.4	133.5	25007.49	35102.61	17815.62
18	3	259.2	159.0	41225.06	67204.32	25288.64
19	4	192.0	136.5	26199.73	36857.43	18623.82
20	5	87.7	77.0	6754.73	7685.57	5936.62
21	6	46.5	38.3	1777.02	2157.84	1463.41
22	7	31.1	23.5	729.46	966.40	550.61
23	8	22.0	15.3	334.96	482.19	232.69
24	9	14.9	9.2	136.64	222.63	83.87
25	(61/62-10)	10.7	5.4	58.51	115.26	29.70
26	11	32.2	20.2	650.29	1034.85	408.64
27	12	92.5	61.8	5716.34	8559.01	3817.80
28	1	173.6	128.6	22323.81	30147.89	16530.25
29	2	346.6	211.7	73359.97	120136.12	44796.56
30	3	420.2	285.9	120151.44	176572.28	81758.98
31	4	395.0	268.6	106072.68	155994.71	72126.89
32	5	217.1	162.3	35240.68	47126.12	26352.81
33	6	105.6	88.6	9354.73	11150.76	7847.99
34	7	70.9	58.7	4161.27	5024.04	3446.67
35	8	51.7	42.0	2169.93	2669.73	1763.69
36	9	34.8	27.7	963.47	1208.93	767.85
37	(62/63-10)	21.9	16.0	349.66	477.89	255.84
38	11	28.7	17.6	506.56	826.02	310.65
39	12	131.9	91.1	12010.68	17398.25	8291.43
40	1	314.0	189.6	59524.79	98585.17	35940.51
41	2	371.1	215.8	80071.31	137719.67	46554.10
42	3	361.7	215.8	78039.34	130820.90	46553.25
43	4	220.6	159.9	35273.69	48653.84	25573.18
44	5	118.0	93.7	11061.52	13927.76	8785.14
45	6	73.2	57.7	4226.14	5356.76	3334.16
46	7	56.0	42.7	2391.59	3134.70	1824.64
47	8	41.6	31.5	1308.95	1729.38	990.73
48	9	28.4	20.8	591.02	807.45	432.60
49	(64/65-10)	13.7	7.3	100.51	188.97	53.46
50	11	21.0	10.1	212.45	442.40	102.02

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
51	12	35.4	19.3	683.08	1252.34	372.58
52	1	131.3	70.8	9302.12	17240.04	5019.10
53	2	167.1	116.0	19386.36	27931.64	13455.38
54	3	160.6	126.1	20247.05	25782.10	15900.31
55	4	97.4	87.6	8531.66	9482.92	7675.83
56	5	47.6	41.3	1961.76	2261.13	1702.03
57	6	31.4	23.9	750.11	983.74	571.96
58	7	25.8	18.6	479.51	666.11	345.19
59	8	20.2	13.4	271.76	409.32	180.43
60	9	15.2	8.7	132.39	230.36	76.09
61	(65/66-10)	13.2	6.7	89.25	175.47	45.39
62	11	18.4	8.1	148.29	338.05	65.05
63	12	37.2	17.1	638.26	1387.16	293.68
64	1	45.4	30.5	1383.06	2060.70	928.26
65	2	124.4	84.2	10475.14	15486.11	7085.61
66	3	207.7	141.3	29356.47	43151.58	19971.51
67	4	94.7	86.4	8186.50	8969.90	7471.52
68	5	47.4	40.0	1894.00	2245.94	1597.21
69	6	30.6	23.1	708.66	937.55	535.64
70	7	22.6	15.4	348.95	511.73	237.95
71	8	17.4	10.9	190.36	302.86	119.65
72	9	13.8	7.9	109.44	189.92	63.07
73	(66/67-10)	11.2	40.8	457.32	125.66	1664.34
74	11	12.2	42.0	511.96	148.51	1764.89
75	12	22.1	58.0	1282.67	489.62	3360.22
76	1	51.3	196.5	10077.90	2629.64	38622.75
77	2	95.5	285.5	27254.40	9114.49	81496.83
78	3	195.1	274.6	53559.76	38054.26	75383.10
79	4	208.9	255.6	53403.01	43658.31	65322.75
80	5	90.5	107.1	9691.31	8189.39	11468.67
81	6	43.0	94.0	4040.59	1846.33	8842.62
82	7	29.4	76.1	2235.84	863.32	5790.42
83	8	22.9	62.4	1428.97	524.11	3896.03
84	9	17.7	49.5	874.48	312.28	2448.83
85	(67/68-10)	15.8	9.7	153.16	249.03	94.20
86	11	25.8	14.5	372.92	663.19	209.69
87	12	44.7	32.7	1459.09	1996.53	1066.32
88	1	135.5	111.7	15133.37	18352.99	12478.56
89	2	154.5	127.7	19732.29	23883.86	16302.36
90	3	169.3	143.0	24062.45	28311.82	20450.87
91	4	93.9	94.9	8903.37	8809.31	8998.44
92	5	49.7	46.7	2317.04	2465.57	2177.46
93	6	33.1	28.0	925.11	1093.71	782.51
94	7	27.0	20.1	543.01	728.52	404.73
95	8	21.6	15.1	326.92	467.35	228.69
96	9	16.8	10.5	175.73	280.75	109.99
97	(68/69-10)	12.6	6.3	79.65	159.72	39.72
98	11	16.6	6.9	115.37	275.88	48.25
99	12	66.8	57.1	3814.81	4459.76	3263.13
100	1	215.9	150.0	32390.60	46614.15	22507.13

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
101	2	423.7	268.2	113657.12	179533.62	71952.76
102	3	387.2	266.7	103260.82	149898.40	71133.49
103	4	342.9	233.2	79969.05	117571.64	54392.79
104	5	180.9	156.3	28266.37	32722.82	24416.83
105	6	90.5	79.4	7187.55	8196.73	6302.62
106	7	61.4	51.3	3148.71	3764.04	2633.98
107	8	45.9	36.8	1688.31	2106.77	1352.97
108	9	30.6	22.6	690.81	936.23	509.72
109	(69/70-10)	23.0	15.7	361.48	526.78	248.05
110	11	28.5	21.4	610.84	812.51	459.22
111	12	74.1	60.3	4470.56	5496.76	3635.95
112	1	167.1	138.0	23064.07	27924.97	19049.31
113	2	278.0	212.7	59125.87	77259.92	45248.16
114	3	207.9	189.9	39491.88	43230.23	36076.81
115	4	105.6	110.1	11631.50	11157.74	12125.38
116	5	58.2	58.8	3424.09	3392.94	3455.53
117	6	40.1	37.3	1498.28	1611.31	1393.18
118	7	30.7	26.5	814.08	944.74	701.50
119	8	24.2	19.7	476.78	585.58	388.20
120	9	17.0	12.5	212.97	290.40	156.18
121	(70/71-10)	13.4	8.9	119.47	180.18	79.21
122	11	26.6	21.5	572.55	708.53	462.67
123	12	118.6	101.3	12006.60	14057.48	10254.92
124	1	288.0	208.4	60026.65	82966.61	43429.51
125	2	356.7	239.8	85529.73	127234.92	57494.71
126	3	347.7	267.6	93029.15	120891.16	71588.54
127	4	191.5	177.8	34045.24	36657.74	31618.92
128	5	99.2	103.7	10283.32	9839.33	10747.35
129	6	61.0	60.8	3707.14	3717.04	3697.28
130	7	46.5	44.7	2078.58	2163.86	1996.66
131	8	34.9	31.8	1109.86	1219.51	1010.08
132	9	25.3	21.8	550.82	638.19	475.41
133	(71/72-10)	19.9	16.3	324.49	397.06	265.18
134	11	25.6	21.2	542.79	654.86	449.90
135	12	56.8	50.1	2841.13	3221.97	2505.30
136	1	130.2	121.0	15752.92	16939.67	14649.30
137	2	145.5	135.1	19652.15	21165.72	18246.82
138	3	218.6	189.2	41360.65	47795.24	35792.34
139	4	194.5	188.4	36633.33	37820.37	35483.55
140	5	106.6	108.5	11569.40	11361.36	11781.24
141	6	59.9	61.6	3684.49	3582.34	3789.55
142	7	44.0	41.3	1815.28	1934.75	1703.19
143	8	32.7	29.9	977.70	1066.07	896.66
144	9	23.7	20.3	481.37	563.53	411.18
145	(72/73-10)	18.0	14.7	263.34	322.27	215.19
146	11	19.3	13.7	263.62	371.34	187.15
147	12	28.4	20.1	569.31	804.45	402.89
148	1	40.3	39.2	1578.94	1620.91	1538.05
149	2	72.0	65.2	4691.37	5180.00	4248.83
150	3	92.9	82.8	7684.95	8623.72	6848.37

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	4	53.0	57.7	3060.25	2813.99	3328.07
152	5	30.3	29.1	883.24	918.15	849.66
153	6	20.2	17.2	347.34	408.06	295.66
154	7	17.2	13.2	226.84	294.92	174.49
155	8	14.6	10.8	157.72	212.99	116.80
156	9	12.2	8.2	99.93	149.83	66.65
157	(73/74-10)	12.2	6.9	84.39	148.37	48.00
158	11	21.6	11.8	255.17	465.10	139.99
159	12	30.1	17.3	519.63	904.26	298.61
160	1	78.8	58.7	4619.82	6204.01	3440.15
161	2	168.4	84.1	14163.99	28370.38	7071.41
162	3	201.1	127.0	25537.12	40460.47	16118.07
163	4	163.6	129.4	21176.90	26764.02	16756.11
164	5	81.9	70.4	5765.64	6705.84	4957.26
165	6	47.7	40.6	1939.58	2278.80	1650.86
166	7	33.8	26.4	891.59	1140.19	697.19
167	8	24.6	18.3	450.73	604.13	336.28
168	9	17.4	12.5	217.24	304.14	155.17
169	(74/75-10)	12.6	7.9	99.15	157.66	62.35
170	11	59.3	8.7	516.09	3513.77	75.80
171	12	183.0	43.7	7994.09	33471.37	1909.26
172	1	152.4	123.8	18869.71	23229.90	15327.91
173	2	294.2	107.1	31505.17	86561.86	11466.67
174	3	229.4	224.1	51409.79	52625.55	50222.13
175	4	102.3	190.1	19460.24	10474.74	36153.72
176	5	57.9	98.0	5674.58	3354.15	9600.30
177	6	40.3	53.3	2145.37	1620.46	2840.33
178	7	30.4	34.5	1047.95	922.60	1190.34
179	8	22.0	24.6	541.87	485.50	604.78
180	(75/76-10)	15.7	11.1	173.59	244.98	123.00
181	11	15.7	9.4	147.82	247.58	88.26
182	12	40.8	32.2	1315.67	1667.45	1038.11
183	1	130.6	126.2	16478.67	17062.51	15914.80
184	2	227.4	193.3	43970.15	51731.97	37372.91
185	3	337.0	261.9	88256.92	113578.15	68580.83
186	4	381.0	278.9	106273.46	145153.42	77807.66
187	5	208.4	188.7	39323.19	43442.75	35594.23
188	6	105.5	106.8	11271.60	11136.68	11408.16
189	7	69.6	67.3	4685.26	4845.04	4530.75
190	8	49.9	47.0	2346.18	2493.59	2207.49
191	9	36.5	33.3	1216.26	1334.85	1108.21
192	(76/77-10)	25.5	21.2	539.59	648.53	448.96
193	11	26.3	23.5	618.29	694.29	550.62
194	12	44.9	51.0	2289.70	2019.33	2596.27
195	1	98.6	105.4	10392.37	9713.37	11118.84
196	2	187.3	162.3	30397.16	35098.31	26325.69
197	3	353.0	255.4	90159.59	124591.72	65243.11
198	4	225.9	202.5	45742.39	51010.21	41018.59
199	5	106.7	113.1	12071.07	11390.22	12792.62
200	6	61.0	63.4	3870.20	3724.55	4021.54

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
201	7	44.4	44.2	1962.29	1967.43	1957.16
202	8	35.0	34.9	1221.31	1222.93	1219.68
203	9	24.5	24.1	588.08	597.88	578.44
204	(77/78-10)	16.8	15.0	252.09	281.73	225.57
205	11	17.8	19.1	339.59	316.38	364.50
206	12	89.4	70.0	6262.73	8000.02	4902.72
207	1	205.8	150.7	31025.80	42363.94	22722.16
208	2	383.7	256.6	98465.55	147233.86	65850.78
209	3	315.8	372.4	117618.18	99738.05	138703.71
210	4	398.3	329.9	131399.64	158614.20	108854.48
211	5	223.2	192.6	42999.45	49821.54	37111.50
212	6	122.9	125.5	15423.67	15098.90	15755.43
213	7	83.9	76.9	6451.31	7041.58	5910.52
214	8	59.3	55.2	3274.55	3521.06	3045.29
215	9	42.9	40.1	1719.19	1838.10	1607.97
216	(78/79-10)	31.0	28.5	883.72	960.34	813.22
217	12	129.2	215.1	27781.39	16688.16	46248.70
218	1	189.9	157.4	29894.58	36077.26	24771.45
219	2	247.4	203.7	50386.65	61213.47	41474.77
220	3	385.4	270.4	104209.84	148570.37	73094.59
221	4	365.1	283.7	103581.66	133294.03	80492.43
222	6	189.2	97.2	18380.21	35787.52	9439.94
223	(79/80-1)	168.1	147.1	24727.83	28268.90	21630.33
224	2	190.8	154.2	29423.28	36401.85	23782.58
225	3	276.0	196.7	54282.49	76177.19	38680.73
226	4	254.8	200.9	51190.65	64913.59	40368.79
227	5	145.6	139.1	20251.90	21190.10	19355.24
228	6	81.9	76.8	6288.87	6712.90	5891.63
229	7	59.8	51.3	3068.38	3580.98	2629.15
230	8	44.9	39.0	1751.55	2014.09	1523.24
231	9	31.6	27.6	871.12	998.21	760.21
232	(80/81-10)	32.0	19.3	619.43	1026.50	373.79
233	11	29.1	16.9	492.60	847.01	286.49
234	12	57.5	41.2	2365.74	3302.86	1694.51
235	1	138.8	85.1	11818.20	19266.07	7249.52
236	2	223.8	132.2	29584.14	50071.53	17479.42
237	3	331.2	193.7	64139.78	109703.23	37500.36
238	4	197.3	163.2	32198.60	38922.57	26636.22
239	5	119.8	93.5	11208.86	14362.50	8747.67
240	6	68.1	53.8	3663.38	4636.28	2894.63
241	7	49.6	36.2	1796.29	2455.71	1313.95
242	8	37.2	27.6	1026.27	1387.49	759.09
243	9	27.2	19.1	519.63	740.02	364.88
244	(81/82-10)	19.2	12.6	242.11	369.38	158.68
245	11	18.1	12.0	217.34	328.71	143.70
246	12	32.2	21.8	701.88	1035.51	475.75
247	1	65.6	48.4	3175.74	4307.74	2341.21
248	2	177.6	162.4	28839.96	31540.16	26370.93
249	3	131.3	125.8	16517.52	17241.28	15824.14
250	4	83.3	85.8	7143.37	6932.94	7360.19

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
251	5	63.8	64.0	4080.46	4068.51	4092.45
252	6	36.8	32.8	1205.67	1351.78	1075.35
253	7	26.5	20.6	546.54	703.65	424.51
254	8	22.2	16.0	355.06	490.74	256.89
255	9	18.2	11.7	211.62	329.61	135.87
256	(82/83-10)	18.8	11.5	216.45	354.34	132.22
257	11	23.7	17.9	423.33	561.60	319.10
258	12	79.9	74.5	5954.86	6381.08	5557.11
259	1	106.4	103.6	11022.63	11315.21	10737.61
260	2	255.0	213.8	54521.01	65048.39	45697.37
261	3	168.3	165.4	27840.74	28332.11	27357.90
262	4	98.0	107.1	10495.14	9594.78	11479.98
263	5	57.2	56.8	3247.35	3267.68	3227.16
264	6	37.3	32.7	1219.05	1392.89	1066.90
265	7	30.4	22.9	697.04	926.45	524.44
266	8	24.3	17.3	419.38	589.04	298.59
267	9	18.2	12.1	219.71	330.50	146.06
268	(83/84-10)	15.0	9.5	143.02	226.35	90.37
269	11	15.1	9.3	140.22	226.89	86.65
270	12	41.9	38.0	1591.59	1753.85	1444.35
271	1	126.4	111.3	14068.01	15979.46	12385.20
272	2	128.9	127.7	16450.88	16604.14	16299.04
273	3	167.0	155.8	26007.56	27882.96	24258.29
274	4	96.8	94.9	9192.27	9375.32	9012.79
275	5	40.9	37.0	1511.05	1668.99	1368.06
276	6	29.5	21.0	619.05	867.50	441.75
277	7	24.4	16.7	405.80	593.45	277.48
278	8	19.9	13.4	265.77	395.20	178.73
279	9	15.5	9.2	143.15	241.41	84.88
280	(84/85-10)	13.9	7.3	101.96	193.04	53.86
281	11	20.9	12.1	252.29	436.75	145.73
282	12	132.4	92.2	12216.32	17542.71	8507.15
283	1	199.5	127.2	25380.07	39815.05	16178.50
284	2	343.0	200.8	68878.01	117658.85	40321.50
285	3	256.4	179.1	45910.11	65737.00	32063.19
286	4	205.2	162.0	33238.31	42116.35	26231.75
287	5	111.6	103.4	11539.24	12450.72	10694.49
288	6	62.4	63.4	3955.89	3888.53	4024.43
289	7	43.9	34.3	1505.52	1927.98	1175.63
290	8	34.1	23.4	797.50	1161.58	547.54
291	9	27.5	16.0	439.55	756.99	255.23
292	(85/86-10)	20.5	10.7	219.79	418.80	115.35
293	11	27.3	16.4	448.03	742.95	270.18
294	12	66.9	60.3	4036.15	4477.32	3638.46
295	1	138.0	106.4	14683.94	19050.13	11318.46
296	2	337.7	232.5	78513.87	114009.07	54069.63
297	3	358.6	273.9	98205.13	128566.03	75013.96
298	4	301.6	232.9	70243.88	90986.92	54229.80
299	5	179.4	140.8	25256.56	32169.68	19829.03
300	6	97.5	95.5	9316.45	9511.11	9125.77

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
301	7	64.6	69.4	4484.19	4170.14	4821.90
TOTAL		30715.8	24911.3	4790057.5	6297755.7	3905853.9
Y = a + b*X					a=	10.24486
X = a' + b'*Y		(a'=-a/b. b'=1/b)			b=	0.71063
					a'=	-14.41657
					b'=	1.40720
		Correlation Coefficient			c=	0.93072

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORRELATION BETWEEN STATIONS X and Y

X: 4-280 MACHIYA FERRY

Y: 4-200 MPATAMATO

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(62/63-10)	33.7	21.9	737.50	1138.14	477.89
2	11	37.3	28.7	1072.97	1393.74	826.02
3	12	182.8	131.9	24116.93	33430.15	17399.25
4	1	479.7	314.0	150603.66	230069.73	98585.17
5	2	582.0	371.1	215997.62	338767.69	137719.67
6	3	649.2	361.7	234823.44	421507.93	130820.90
7	4	427.0	220.6	94188.43	182338.33	48653.84
8	5	208.8	118.0	24645.29	43610.06	13927.76
9	6	116.4	73.2	8516.42	13539.79	5356.76
10	7	87.7	56.0	4908.20	7685.11	3134.70
11	8	64.8	41.6	2693.12	4193.93	1729.38
12	9	45.0	28.4	1278.81	2025.33	807.45
13	(64/65-10)	19.7	13.7	270.43	387.01	188.97
14	11	24.0	21.0	505.71	578.08	442.40
15	12	44.6	35.4	1579.79	1992.85	1252.34
16	1	215.5	131.3	28301.99	46461.77	17240.04
17	2	286.9	167.1	47945.99	82301.58	27931.64
18	3	258.5	160.6	41498.91	66796.73	25782.10
19	4	148.1	97.4	14423.96	21939.52	9482.92
20	5	67.7	47.6	3220.03	4585.58	2261.13
21	6	46.5	31.4	1458.87	2163.46	983.74
22	7	38.8	25.8	1001.80	1506.68	666.11
23	8	31.6	20.2	639.24	998.30	409.32
24	9	24.0	15.2	364.04	575.31	230.36
25	(65/66-10)	18.7	13.2	247.18	348.18	175.47
26	11	20.7	18.4	381.03	429.48	338.05
27	12	44.3	37.2	1650.90	1964.78	1387.16
28	1	58.1	45.4	2639.69	3381.35	2060.70
29	2	171.2	124.4	21300.88	29298.99	15486.11
30	3	293.8	207.7	61030.85	86318.15	43151.58
31	4	153.0	94.7	14487.18	23398.06	8969.90
32	5	70.0	47.4	3319.19	4905.29	2245.94
33	6	46.2	30.6	1414.09	2132.83	937.55
34	7	36.0	22.6	813.51	1293.25	511.73
35	8	27.3	17.4	475.26	745.79	302.86
36	9	21.2	13.8	292.26	449.74	189.92
37	(66/67-10)	15.7	11.2	175.74	245.77	125.66
38	11	14.2	12.2	173.49	202.67	148.51
39	12	22.9	22.1	507.48	526.00	489.62
40	1	65.4	51.3	3352.49	4274.03	2629.64
41	2	124.5	95.5	11881.94	15489.66	9114.49
42	3	275.5	195.1	53739.83	75890.83	38054.26
43	4	304.5	208.9	63628.20	92732.57	43658.31
44	5	137.5	90.5	12443.54	18907.60	8189.39
45	6	58.3	43.0	2506.07	3401.55	1846.33
46	7	41.3	29.4	1212.71	1703.50	863.32
47	8	33.7	22.9	771.55	1135.81	524.11
48	9	25.6	17.7	453.05	657.27	312.28
49	(67/68-10)	19.8	15.8	312.52	392.19	249.03
50	11	28.3	25.8	728.33	799.87	663.19

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
51	12	54.5	44.7	2436.11	2972.48	1996.53
52	1	149.7	135.5	20283.53	22417.14	18352.99
53	2	255.3	154.5	39449.61	65159.97	23883.86
54	3	224.6	168.3	37785.91	50430.35	28311.82
55	4	136.0	93.9	12766.91	18502.46	8809.31
56	5	68.8	49.7	3415.09	4730.28	2465.57
57	6	46.0	33.1	1520.12	2112.79	1093.71
58	7	38.9	27.0	1049.27	1511.22	728.52
59	8	31.8	21.6	688.36	1013.89	467.35
60	9	24.7	16.8	414.66	612.44	280.75
61	(68/69-10)	17.7	12.6	223.79	313.57	159.72
62	11	17.2	16.6	285.22	294.87	275.88
63	12	75.4	66.8	5033.98	5682.14	4459.76
64	1	281.0	215.9	60662.74	78945.31	46614.15
65	2	593.0	423.7	251257.65	351635.58	179533.62
66	3	613.3	387.2	237440.86	376109.16	149898.40
67	4	600.8	342.9	206014.68	360988.85	117571.64
68	5	327.6	180.9	59269.06	107350.82	32722.82
69	6	141.9	90.5	12849.31	20142.76	8196.73
70	7	91.7	61.4	5625.52	8407.58	3764.04
71	8	72.3	45.9	3317.99	5225.55	2106.77
72	9	50.5	30.6	1544.78	2548.87	936.23
73	(69/70-10)	34.6	23.0	793.01	1193.79	526.78
74	11	44.6	28.5	1270.84	1987.72	812.51
75	12	107.1	74.1	7941.71	11474.16	5496.76
76	1	281.1	167.1	46980.73	79040.00	27924.97
77	2	377.9	278.0	105043.03	142817.12	77259.92
78	3	349.7	207.9	72714.92	122309.30	43230.23
79	4	161.0	105.6	17005.34	25917.58	11157.74
80	5	83.1	58.2	4841.40	6908.22	3392.94
81	6	55.4	40.1	2223.04	3067.00	1611.31
82	7	43.7	30.7	1341.71	1905.50	944.74
83	8	35.7	24.2	864.74	1276.98	585.58
84	9	25.8	17.0	439.50	665.14	290.40
85	(70/71-10)	21.0	13.4	282.16	441.85	180.18
86	11	32.6	26.6	866.56	1059.82	708.53
87	12	150.8	118.6	17835.36	22755.57	14057.48
88	1	351.5	288.0	101253.08	123570.02	82966.61
89	2	501.3	356.7	178826.40	251337.29	127234.92
90	3	515.7	347.7	179302.34	265936.16	120891.16
91	4	355.6	191.5	68077.05	126425.80	36657.74
92	5	150.2	99.2	14899.96	22563.40	9839.33
93	6	85.7	61.0	5223.72	7341.14	3717.04
94	7	65.0	46.5	3021.30	4218.51	2163.86
95	8	50.0	34.9	1744.77	2496.27	1219.51
96	9	37.4	25.3	944.49	1397.80	638.19
97	(71/72-10)	29.7	19.9	592.76	884.92	397.06
98	11	35.5	25.6	907.75	1258.29	654.86
99	12	68.7	56.8	3898.96	4718.19	3221.97
100	1	182.0	130.2	23688.26	33125.40	16939.67

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
101	2	197.1	145.5	28668.14	38829.89	21165.72
102	3	297.5	218.6	65042.04	88512.30	47795.24
103	4	294.3	194.5	57236.86	86621.53	37820.37
104	5	159.5	106.6	16996.50	25426.61	11361.36
105	6	81.1	59.9	4853.17	6574.82	3582.34
106	7	59.8	44.0	2630.43	3576.26	1934.75
107	8	45.9	32.7	1499.74	2109.83	1066.07
108	9	35.0	23.7	831.17	1225.92	563.53
109	(72/73-10)	26.4	18.0	474.35	698.21	322.27
110	11	23.9	19.3	461.10	572.56	371.34
111	12	31.0	28.4	878.57	959.52	804.45
112	1	51.1	40.3	2058.14	2613.33	1620.91
113	2	89.6	72.0	6449.94	8031.22	5180.00
114	3	141.2	92.9	13108.44	19925.43	8623.72
115	4	72.2	53.0	3829.65	5211.91	2813.99
116	5	41.2	30.3	1247.09	1693.88	918.15
117	6	28.1	20.2	568.09	790.89	408.06
118	7	23.9	17.2	410.56	571.55	294.92
119	8	20.9	14.6	305.09	437.00	212.99
120	9	17.4	12.2	213.36	303.82	149.83
121	(73/74-10)	15.0	12.2	182.28	223.94	148.37
122	11	20.5	21.6	442.71	421.40	465.10
123	12	31.4	30.1	943.38	984.20	904.26
124	1	112.3	78.8	8846.32	12614.00	6204.01
125	2	269.0	168.4	45306.35	72352.42	28370.38
126	3	353.1	201.1	71022.50	124669.72	40460.47
127	4	263.7	163.6	43141.87	69541.89	26764.02
128	5	123.4	81.9	10104.02	15224.23	6705.84
129	6	70.6	47.7	3368.60	4979.59	2278.80
130	7	47.2	33.8	1592.89	2225.34	1140.19
131	8	36.7	24.6	901.15	1344.22	604.13
132	9	27.6	17.4	481.24	761.47	304.14
133	(74/75-10)	19.5	12.6	245.41	381.99	157.66
134	11	16.8	59.3	995.86	282.24	3513.77
135	12	73.3	183.0	13411.28	5373.62	33471.37
136	1	288.0	152.4	43902.63	82972.44	23229.90
137	2	240.9	294.2	70869.58	58022.06	86561.86
138	3	389.2	229.4	89282.51	151473.31	52625.55
139	4	382.0	102.3	39091.73	145890.30	10474.74
140	5	155.9	57.9	9030.54	24313.32	3354.15
141	6	78.5	40.3	3159.76	6161.27	1620.46
142	7	55.8	30.4	1694.57	3112.48	922.60
143	8	43.5	22.0	958.34	1891.70	485.50
144	(75/76-10)	23.3	15.7	364.15	541.29	244.98
145	11	19.2	15.7	302.88	370.53	247.58
146	12	40.2	40.8	1641.66	1616.26	1667.45
147	1	158.3	130.6	20683.34	25072.55	17062.51
148	2	278.3	227.4	63289.10	77428.15	51731.97
149	3	426.4	337.0	143719.31	181859.26	113578.15
150	4	599.4	381.0	228371.84	359300.50	145153.42

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	5	392.9	208.4	81898.65	154396.04	43442.75
152	6	165.3	105.5	17449.22	27339.86	11136.68
153	7	98.7	69.6	6872.39	9748.06	4845.04
154	8	70.5	49.9	3520.31	4969.78	2493.59
155	9	51.9	36.5	1894.49	2688.76	1334.85
156	(76/77-10)	37.1	25.5	945.85	1379.48	648.53
157	11	35.7	26.3	939.38	1270.98	694.29
158	12	58.3	44.9	2618.77	3396.14	2019.33
159	1	123.0	98.6	12126.56	15139.28	9713.37
160	2	248.1	187.3	46472.40	61532.42	35098.31
161	3	471.1	353.0	166282.95	221925.02	124591.72
162	4	405.4	225.9	91553.16	164319.67	51010.21
163	5	168.6	106.7	17989.25	28411.47	11390.22
164	6	84.9	61.0	5181.31	7207.83	3724.55
165	7	63.1	44.4	2799.95	3984.76	1967.43
166	8	51.0	35.0	1783.48	2600.97	1222.93
167	9	36.7	24.5	898.55	1350.43	597.88
168	(77/78-10)	26.5	16.8	444.54	701.43	281.73
169	11	26.2	17.8	465.72	685.55	316.38
170	12	116.3	89.4	10398.55	13516.20	8000.02
171	1	300.3	205.8	61804.65	90166.64	42363.94
172	2	632.6	383.7	242729.98	400165.04	147233.86
173	3	743.7	315.8	234857.24	553027.91	99738.05
174	4	779.8	398.3	310557.73	608054.66	158614.20
175	5	449.9	223.2	100417.90	202397.47	49821.54
176	6	210.4	122.9	25858.94	44287.00	15098.90
177	7	130.1	83.9	10913.59	16914.74	7041.58
178	8	91.7	59.3	5440.22	8405.42	3521.06
179	9	62.9	42.9	2695.95	3954.16	1838.10
180	(78/79-10)	42.6	31.0	1319.05	1811.74	960.34
181	11	60.1	45.3	2718.61	3607.65	2048.65
182	12	173.9	129.2	22465.38	30242.58	16688.16
183	1	333.8	189.9	63402.71	111424.89	36077.26
184	2	354.3	247.4	87662.68	125540.12	61213.47
185	3	568.4	385.4	219103.85	323122.96	148570.37
186	4	646.7	365.1	236121.57	418273.77	133294.03
187	6	163.5	189.2	30932.52	26736.17	35787.52
188	(79/80-12)	202.1	154.9	31309.14	40845.56	23999.23
189	1	270.5	168.1	45482.32	73177.31	28268.90
190	2	311.0	190.8	59339.82	96731.77	36401.85
191	3	415.5	276.0	114688.46	172669.06	76177.19
192	4	417.4	254.8	106339.37	174201.74	64913.59
193	5	285.1	145.6	41500.66	81278.75	21190.10
194	6	129.2	81.9	10585.14	16691.01	6712.90
195	7	90.9	59.8	5439.97	8264.02	3580.98
196	8	72.5	44.9	3255.21	5261.13	2014.09
197	9	51.4	31.6	1623.29	2639.79	998.21
198	(80/81-10)	40.6	32.0	1301.87	1651.12	1026.50
199	11	40.9	29.1	1191.25	1675.40	847.01
200	12	71.4	57.5	4105.30	5102.70	3302.86

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
201	1	195.9	138.8	27187.37	38365.54	19266.07
202	2	312.0	223.8	69826.29	97374.93	50071.53
203	3	547.7	331.2	181422.74	300029.56	109703.23
204	4	391.3	197.3	77206.82	153147.47	38922.57
205	5	204.8	119.8	24546.39	41951.28	14362.50
206	6	105.4	68.1	7177.22	11110.74	4636.28
207	7	76.6	49.6	3796.63	5869.75	2455.71
208	8	59.8	37.2	2226.31	3572.25	1387.49
209	9	43.7	27.2	1187.77	1906.43	740.02
210	(81/82-10)	33.7	19.2	648.01	1136.80	369.38
211	11	30.0	18.1	543.02	897.06	328.71
212	12	43.2	32.2	1388.74	1862.46	1035.51
213	1	87.3	65.6	5730.21	7622.38	4307.74
214	2	250.9	177.6	44562.47	62961.45	31540.16
215	3	250.1	131.3	32844.73	62569.38	17241.28
216	4	121.5	83.3	10117.75	14765.56	6932.94
217	5	95.2	63.8	6071.51	9060.63	4068.51
218	6	59.5	36.8	2188.02	3541.55	1351.78
219	7	43.4	26.5	1150.75	1881.95	703.65
220	8	35.9	22.2	795.01	1287.92	490.74
221	9	28.8	18.2	522.37	827.87	329.61
222	(82/83-10)	26.0	18.8	488.72	674.05	354.34
223	11	30.9	23.7	731.96	953.99	561.60
224	12	89.0	79.9	7111.58	7925.71	6381.08
225	1	105.7	106.4	11242.58	11170.41	11315.21
226	2	308.7	255.0	78734.74	95300.74	65048.39
227	3	289.8	168.3	48771.97	83957.93	28332.11
228	4	144.4	98.0	14144.70	20852.23	9594.78
229	5	82.3	57.2	4705.37	6775.62	3267.68
230	6	54.2	37.3	2023.32	2939.09	1392.89
231	7	42.8	30.4	1302.12	1830.11	926.45
232	8	35.6	24.3	864.26	1268.09	589.04
233	9	28.8	18.2	523.41	828.94	330.50
234	(83/84-10)	22.4	15.0	336.86	501.34	226.35
235	11	21.2	15.1	319.90	451.03	226.89
236	12	39.0	41.9	1631.49	1517.67	1753.85
237	1	157.8	126.4	19946.73	24898.97	15979.46
238	2	152.1	128.9	19598.73	23133.40	16604.14
239	3	236.9	167.0	39563.79	56137.99	27882.96
240	4	151.1	96.8	14625.61	22816.12	9375.32
241	5	57.8	40.9	2359.91	3336.85	1668.99
242	6	36.8	29.5	1084.01	1354.55	867.50
243	7	30.5	24.4	742.35	928.60	593.45
244	8	25.7	19.9	510.43	659.25	395.20
245	9	20.7	15.5	322.40	430.56	241.41
246	(84/85-10)	17.7	13.9	246.51	314.79	193.04
247	11	24.3	20.9	508.25	591.45	436.75
248	12	131.6	132.4	17436.06	17330.05	17542.71
249	1	301.3	199.5	60114.56	90763.67	39815.05
250	2	467.7	343.0	160432.12	218755.02	117658.85

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
251	3	434.5	256.4	111397.55	188773.65	65737.00
252	4	354.0	205.2	72641.62	125291.12	42116.35
253	5	176.3	111.6	19666.69	31064.76	12450.72
254	6	89.2	62.4	5564.66	7963.29	3888.53
255	7	62.1	43.9	2728.58	3861.64	1927.98
256	8	46.2	34.1	1572.95	2130.00	1161.58
257	9	34.0	27.5	936.75	1159.19	756.99
258	(85/86-10)	24.6	20.5	504.26	607.14	418.80
259	11	28.9	27.3	788.59	837.04	742.95
260	12	74.7	66.9	4998.95	5581.36	4477.32
261	1	193.1	138.0	26654.97	37295.66	19050.13
262	2	410.5	337.7	138595.77	168484.73	114009.07
263	3	484.1	358.6	173563.94	234311.03	128566.03
264	4	487.3	301.6	146979.63	237429.88	90986.92
265	5	311.3	179.4	55842.63	96935.97	32169.68
266	6	139.2	97.5	13578.08	19384.08	9511.11
267	7	87.6	64.6	5655.45	7669.79	4170.14
T O T A L		41250.8	27362.7	8466987.8	13426113.2	5529566.4
Y = a + b*X					a =	9.61382
X = a' + b'*Y		(a' = -a/b, b' = 1/b)			b =	0.60110
					a' =	-15.99376
					b' =	1.66362
		Correlation Coefficient			c =	0.96698

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORRELATION BETWEEN STATIONS X and Y

X: 4-200 MPATAMATO

Y: 4-280 MACHIYA FERRY

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(62/63-10)	21.9	33.7	737.50	477.89	1138.14
2	11	28.7	37.3	1072.97	826.02	1393.74
3	12	131.9	182.8	24116.93	17398.25	33430.15
4	1	314.0	479.7	150603.66	98585.17	230069.73
5	2	371.1	582.0	215997.62	137719.67	338767.69
6	3	361.7	649.2	234823.44	130820.90	421507.93
7	4	220.6	427.0	94188.43	48653.84	182338.33
8	5	118.0	208.8	24645.29	13927.76	43610.06
9	6	73.2	116.4	8516.42	5356.76	13539.79
10	7	56.0	87.7	4908.20	3134.70	7685.11
11	8	41.6	64.8	2693.12	1729.38	4193.93
12	9	28.4	45.0	1278.81	807.45	2025.33
13	(64/65-10)	13.7	19.7	270.43	188.97	387.01
14	11	21.0	24.0	505.71	442.40	578.08
15	12	35.4	44.6	1579.79	1252.34	1992.85
16	1	131.3	215.5	28301.99	17240.04	46461.77
17	2	167.1	286.9	47945.99	27931.64	82301.58
18	3	160.6	258.5	41498.91	25782.10	66796.73
19	4	97.4	148.1	14423.96	9482.92	21939.52
20	5	47.6	67.7	3220.03	2261.13	4585.58
21	6	31.4	46.5	1458.87	983.74	2163.46
22	7	25.8	38.8	1001.80	666.11	1506.68
23	8	20.2	31.6	639.24	409.32	998.30
24	9	15.2	24.0	364.04	230.36	575.31
25	(65/66-10)	13.2	18.7	247.18	175.47	348.18
26	11	18.4	20.7	381.03	338.05	429.48
27	12	37.2	44.3	1650.90	1387.16	1964.78
28	1	45.4	58.1	2639.69	2060.70	3381.35
29	2	124.4	171.2	21300.88	15486.11	29298.99
30	3	207.7	293.8	61030.85	43151.58	86318.15
31	4	94.7	153.0	14487.18	8969.90	23398.06
32	5	47.4	70.0	3319.19	2245.94	4905.29
33	6	30.6	46.2	1414.09	937.55	2132.83
34	7	22.6	36.0	813.51	511.73	1293.25
35	8	17.4	27.3	475.26	302.86	745.79
36	9	13.8	21.2	292.26	189.92	449.74
37	(66/67-10)	11.2	15.7	175.74	125.66	245.77
38	11	12.2	14.2	173.49	148.51	202.67
39	12	22.1	22.9	507.48	489.62	526.00
40	1	51.3	65.4	3352.49	2629.64	4274.03
41	2	95.5	124.5	11881.94	9114.49	15489.66
42	3	195.1	275.5	53739.83	38054.26	75890.83
43	4	208.9	304.5	63628.20	43658.31	92732.57
44	5	90.5	137.5	12443.54	8189.39	18907.60
45	6	43.0	58.3	2506.07	1846.33	3401.55
46	7	29.4	41.3	1212.71	863.32	1703.50
47	8	22.9	33.7	771.55	524.11	1135.81
48	9	17.7	25.6	453.05	312.28	657.27
49	(67/68-10)	15.8	19.8	312.52	249.03	392.19
50	11	25.8	28.3	728.33	663.19	799.87

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
51	12	44.7	54.5	2436.11	1996.53	2972.48
52	1	135.5	149.7	20283.53	18352.99	22417.14
53	2	154.5	255.3	39449.61	23883.86	65159.97
54	3	168.3	224.6	37785.91	28311.82	50430.35
55	4	93.9	136.0	12766.91	8809.31	18502.46
56	5	49.7	68.8	3415.09	2465.57	4730.28
57	6	33.1	46.0	1520.12	1093.71	2112.79
58	7	27.0	38.9	1049.27	728.52	1511.22
59	8	21.6	31.8	688.36	467.35	1013.89
60	9	16.8	24.7	414.66	280.75	612.44
61	(68/69-10)	12.6	17.7	223.79	159.72	313.57
62	11	16.6	17.2	285.22	275.88	294.87
63	12	66.8	75.4	5033.98	4459.76	5682.14
64	1	215.9	281.0	60662.74	46614.15	78945.31
65	2	423.7	593.0	251257.65	179533.62	351635.58
66	3	387.2	613.3	237440.86	149898.40	376109.16
67	4	342.9	600.8	206014.68	117571.64	360988.85
68	5	180.9	327.6	59269.06	32722.82	107350.82
69	6	90.5	141.9	12849.31	8196.73	20142.76
70	7	61.4	91.7	5625.52	3764.04	8407.58
71	8	45.9	72.3	3317.99	2106.77	5225.55
72	9	30.6	50.5	1544.78	936.23	2548.87
73	(69/70-10)	23.0	34.6	793.01	526.78	1193.79
74	11	28.5	44.6	1270.84	812.51	1987.72
75	12	74.1	107.1	7941.71	5496.76	11474.16
76	1	167.1	281.1	46980.73	27924.97	79040.00
77	2	278.0	377.9	105043.03	77259.92	142817.12
78	3	207.9	349.7	72714.92	43230.23	122309.30
79	4	105.6	161.0	17005.34	11157.74	25917.58
80	5	58.2	83.1	4841.40	3392.94	6908.22
81	6	40.1	55.4	2223.04	1611.31	3067.00
82	7	30.7	43.7	1341.71	944.74	1905.50
83	8	24.2	35.7	864.74	585.58	1276.98
84	9	17.0	25.8	439.50	290.40	665.14
85	(70/71-10)	13.4	21.0	282.16	180.18	441.85
86	11	26.6	32.6	866.56	708.53	1059.82
87	12	118.6	150.8	17885.36	14057.48	22755.57
88	1	288.0	351.5	101253.08	82966.61	123570.02
89	2	356.7	501.3	178826.40	127234.92	251337.29
90	3	347.7	515.7	179302.34	120891.16	265936.16
91	4	191.5	355.6	68077.05	36657.74	126425.80
92	5	99.2	150.2	14899.96	9839.33	22563.40
93	6	61.0	85.7	5223.72	3717.04	7341.14
94	7	46.5	65.0	3021.30	2163.86	4218.51
95	8	34.9	50.0	1744.77	1219.51	2496.27
96	9	25.3	37.4	944.49	638.19	1397.80
97	(71/72-10)	19.9	29.7	592.76	397.06	884.92
98	11	25.6	35.5	907.75	654.86	1258.29
99	12	56.8	68.7	3898.96	3221.97	4718.19
100	1	130.2	182.0	23688.26	16939.67	33125.40

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
101	2	145.5	197.1	28668.14	21165.72	38829.89
102	3	218.6	297.5	65042.04	47795.24	88512.30
103	4	194.5	294.3	57236.86	37820.37	86621.53
104	5	106.6	159.5	16996.50	11361.36	25426.61
105	6	59.9	81.1	4853.17	3582.34	6574.82
106	7	44.0	59.8	2630.43	1934.75	3576.26
107	8	32.7	45.9	1499.74	1066.07	2109.83
108	9	23.7	35.0	831.17	563.53	1225.92
109	(72/73-10)	18.0	26.4	474.35	322.27	698.21
110	11	19.3	23.9	461.10	371.34	572.56
111	12	28.4	31.0	878.57	804.45	959.52
112	1	40.3	51.1	2058.14	1620.91	2613.33
113	2	72.0	89.6	6449.94	5180.00	8031.22
114	3	92.9	141.2	13108.44	8623.72	19925.43
115	4	53.0	72.2	3829.65	2813.99	5211.91
116	5	30.3	41.2	1247.09	918.15	1693.88
117	6	20.2	28.1	568.09	408.06	790.89
118	7	17.2	23.9	410.56	294.92	571.55
119	8	14.6	20.9	305.09	212.99	437.00
120	9	12.2	17.4	213.36	149.83	303.82
121	(73/74-10)	12.2	15.0	182.28	148.37	223.94
122	11	21.6	20.5	442.71	465.10	421.40
123	12	30.1	31.4	943.38	904.26	984.20
124	1	78.8	112.3	8846.32	6204.01	12614.00
125	2	168.4	269.0	45306.35	28370.38	72352.42
126	3	201.1	353.1	71022.50	40460.47	124669.72
127	4	163.6	263.7	43141.87	26764.02	69541.89
128	5	81.9	123.4	10104.02	6705.84	15224.23
129	6	47.7	70.6	3368.60	2278.80	4979.59
130	7	33.8	47.2	1592.89	1140.19	2225.34
131	8	24.6	36.7	901.15	604.13	1344.22
132	9	17.4	27.6	481.24	304.14	761.47
133	(74/75-10)	12.6	19.5	245.41	157.66	381.99
134	11	59.3	16.8	995.86	3513.77	282.24
135	12	183.0	73.3	13411.28	33471.37	5373.62
136	1	152.4	288.0	43902.63	23229.90	82972.44
137	2	294.2	240.9	70869.58	86561.86	58022.06
138	3	229.4	389.2	89282.51	52625.55	151473.31
139	4	102.3	382.0	39091.73	10474.74	145890.30
140	5	57.9	155.9	9030.54	3354.15	24313.32
141	6	40.3	78.5	3159.76	1620.46	6161.27
142	7	30.4	55.8	1694.57	922.60	3112.48
143	8	22.0	43.5	958.34	485.50	1891.70
144	(75/76-10)	15.7	23.3	364.15	244.98	541.29
145	11	15.7	19.2	302.88	247.58	370.53
146	12	40.8	40.2	1641.66	1667.45	1616.26
147	1	130.6	158.3	20683.34	17062.51	25072.55
148	2	227.4	278.3	63289.10	51731.97	77428.15
149	3	337.0	426.4	143719.31	113578.15	181859.26
150	4	381.0	599.4	228371.84	145153.42	359300.50

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	5	208.4	392.9	81898.65	43442.75	154396.04
152	6	105.5	165.3	17449.22	11136.68	27339.86
153	7	69.6	98.7	6872.39	4845.04	9748.06
154	8	49.9	70.5	3520.31	2493.59	4969.78
155	9	36.5	51.9	1894.49	1334.85	2688.76
156	(76/77-10)	25.5	37.1	945.85	648.53	1379.48
157	11	26.3	35.7	939.38	694.29	1270.98
158	12	44.9	58.3	2618.77	2019.33	3396.14
159	1	98.6	123.0	12126.56	9713.37	15139.28
160	2	187.3	248.1	46472.40	35098.31	61532.42
161	3	353.0	471.1	166282.95	124591.72	221925.02
162	4	225.9	405.4	91553.16	51010.21	164319.67
163	5	106.7	168.6	17989.25	11390.22	28411.47
164	6	61.0	84.9	5181.31	3724.55	7207.83
165	7	44.4	63.1	2799.95	1967.43	3984.76
166	8	35.0	51.0	1783.48	1222.93	2600.97
167	9	24.5	36.7	898.55	597.88	1350.43
168	(77/78-10)	16.8	26.5	444.54	281.73	701.43
169	11	17.8	26.2	465.72	316.38	685.55
170	12	89.4	116.3	10398.55	8000.02	13516.20
171	1	205.8	300.3	61804.65	42363.94	90166.64
172	2	383.7	632.6	242729.98	147233.86	400165.04
173	3	315.8	743.7	234857.24	99738.05	553027.91
174	4	398.3	779.8	310557.73	158614.20	608054.66
175	5	223.2	449.9	100417.90	49821.54	202397.47
176	6	122.9	210.4	25858.94	15098.90	44287.00
177	7	83.9	130.1	10913.59	7041.58	16914.74
178	8	59.3	91.7	5440.22	3521.06	8405.42
179	9	42.9	62.9	2695.95	1838.10	3954.16
180	(78/79-10)	31.0	42.6	1319.05	960.34	1811.74
181	11	45.3	60.1	2718.61	2048.65	3607.65
182	12	129.2	173.9	22465.38	16688.16	30242.58
183	1	189.9	333.8	63402.71	36077.26	111424.89
184	2	247.4	354.3	87662.68	61213.47	125540.12
185	3	385.4	568.4	219103.85	148570.37	323122.96
186	4	365.1	646.7	236121.57	133294.03	418273.77
187	6	189.2	163.5	30932.52	35787.52	26736.17
188	(79/80-12)	154.9	202.1	31309.14	23999.23	40845.56
189	1	168.1	270.5	45482.32	28268.90	73177.31
190	2	190.8	311.0	59339.82	36401.85	96731.77
191	3	276.0	415.5	114688.46	76177.19	172669.06
192	4	254.8	417.4	106339.37	64913.59	174201.74
193	5	145.6	285.1	41500.66	21190.10	81278.75
194	6	81.9	129.2	10585.14	6712.90	16691.01
195	7	59.8	90.9	5439.97	3580.98	8264.02
196	8	44.9	72.5	3255.21	2014.09	5261.13
197	9	31.6	51.4	1623.29	998.21	2639.79
198	(80/81-10)	32.0	40.6	1301.87	1026.50	1651.12
199	11	29.1	40.9	1191.25	847.01	1675.40
200	12	57.5	71.4	4105.30	3302.86	5102.70

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
201	1	138.8	195.9	27187.37	19266.07	38365.54
202	2	223.8	312.0	69826.29	50071.53	97374.93
203	3	331.2	547.7	181422.74	109703.23	300029.56
204	4	197.3	391.3	77206.82	38922.57	153147.47
205	5	119.8	204.8	24546.39	14362.50	41951.28
206	6	68.1	105.4	7177.22	4636.28	11110.74
207	7	49.6	76.6	3796.63	2455.71	5869.75
208	8	37.2	59.8	2226.31	1387.49	3572.25
209	9	27.2	43.7	1187.77	740.02	1906.43
210	(81/82-10)	19.2	33.7	648.01	369.38	1136.80
211	11	18.1	30.0	543.02	328.71	897.06
212	12	32.2	43.2	1388.74	1035.51	1862.46
213	1	65.6	87.3	5730.21	4307.74	7622.38
214	2	177.6	250.9	44562.47	31540.16	62961.45
215	3	131.3	250.1	32844.73	17241.28	62569.38
216	4	83.3	121.5	10117.75	6932.94	14765.56
217	5	63.8	95.2	6071.51	4068.51	9060.63
218	6	36.8	59.5	2188.02	1351.78	3541.55
219	7	26.5	43.4	1150.75	703.65	1881.95
220	8	22.2	35.9	795.01	490.74	1287.92
221	9	18.2	28.8	522.37	329.61	827.87
222	(82/83-10)	18.8	26.0	488.72	354.34	674.05
223	11	23.7	30.9	731.96	561.60	953.99
224	12	79.9	89.0	7111.58	6381.08	7925.71
225	1	106.4	105.7	11242.58	11315.21	11170.41
226	2	255.0	308.7	78734.74	65048.39	95300.74
227	3	168.3	289.8	48771.97	28332.11	83957.93
228	4	98.0	144.4	14144.70	9594.78	20852.23
229	5	57.2	82.3	4705.37	3267.68	6775.62
230	6	37.3	54.2	2023.32	1392.89	2939.09
231	7	30.4	42.8	1302.12	926.45	1830.11
232	8	24.3	35.6	864.26	589.04	1268.09
233	9	18.2	28.8	523.41	330.50	828.94
234	(83/84-10)	15.0	22.4	336.86	226.35	501.34
235	11	15.1	21.2	319.90	226.89	451.03
236	12	41.9	39.0	1631.49	1753.85	1517.67
237	1	126.4	157.8	19946.73	15979.46	24898.97
238	2	128.9	152.1	19598.73	16604.14	23133.40
239	3	167.0	236.9	39563.79	27882.96	56137.99
240	4	96.8	151.1	14625.61	9375.32	22816.12
241	5	40.9	57.8	2359.91	1668.99	3336.85
242	6	29.5	36.8	1084.01	867.50	1354.55
243	7	24.4	30.5	742.35	593.45	928.60
244	8	19.9	25.7	510.43	395.20	659.25
245	9	15.5	20.7	322.40	241.41	430.56
246	(84/85-10)	13.9	17.7	246.51	193.04	314.79
247	11	20.9	24.3	508.25	436.75	591.45
248	12	132.4	131.6	17436.06	17542.71	17330.05
249	1	199.5	301.3	60114.56	39815.05	90763.67
250	2	343.0	467.7	160432.12	117658.85	218755.02

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
251	3	256.4	434.5	111397.55	65737.00	188773.65
252	4	205.2	354.0	72641.62	42116.35	125291.12
253	5	111.6	176.3	19666.69	12450.72	31064.76
254	6	62.4	89.2	5564.66	3888.53	7963.29
255	7	43.9	62.1	2728.58	1927.98	3861.64
256	8	34.1	46.2	1572.95	1161.58	2130.00
257	9	27.5	34.0	936.75	756.99	1159.19
258	(85/86-10)	20.5	24.6	504.26	418.80	607.14
259	11	27.3	28.9	788.59	742.95	837.04
260	12	66.9	74.7	4998.95	4477.32	5581.36
261	1	138.0	193.1	26654.97	19050.13	37295.66
262	2	337.7	410.5	138595.77	114009.07	168484.73
263	3	358.6	484.1	173563.94	128566.03	234311.03
264	4	301.6	487.3	146979.63	90986.92	237429.88
265	5	179.4	311.3	55842.63	32169.68	96935.97
266	6	97.5	139.2	13578.08	9511.11	19384.08
267	7	64.6	87.6	5655.45	4170.14	7669.79
TOTAL		27362.7	41250.8	8466987.8	5529566.4	13426113.2
Y = a + b*X					a=	-4.92016
X = a' + b'*Y		(a'=-a/b, b'=1/b)			b=	1.55557
					a' =	3.16293
					b' =	0.64285
		Correlation Coefficient			c=	0.96698

<<< MASTER PROGRAM FOR 08-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORELATION BETWEEN STATIONS X and Y

X: NO.11 MACHIYA FERRY (4-280)

Y: NO.12 CHILENGA (4-350)

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(64/65-10)	19.7	25.3	498.51	387.01	642.13
2	11	24.0	26.7	641.67	578.08	712.25
3	12	44.6	47.8	2134.58	1992.85	2286.36
4	1	215.5	221.3	47700.61	46461.77	48972.49
5	2	286.9	416.7	119536.70	82301.58	173617.85
6	3	258.5	406.8	105147.59	66796.73	165517.32
7	4	148.1	240.6	35630.83	21939.52	57866.17
8	5	67.7	107.2	7256.85	4585.58	11484.22
9	6	46.5	61.3	2850.08	2163.46	3754.61
10	7	38.8	46.9	1821.31	1506.68	2201.64
11	8	31.6	37.3	1179.29	998.30	1393.10
12	9	24.0	29.2	699.83	575.31	851.31
13	(65/66-10)	18.7	23.3	434.45	348.18	542.09
14	11	20.7	23.8	492.87	429.48	565.60
15	12	44.3	50.4	2232.13	1964.78	2535.87
16	1	58.1	78.4	4558.03	3381.35	6144.18
17	2	171.2	185.0	31661.14	29298.99	34213.74
18	3	293.8	348.4	102352.04	86318.15	121364.27
19	4	153.0	282.9	43277.18	23398.06	80045.71
20	5	70.0	112.4	7874.45	4905.29	12640.83
21	6	46.2	57.9	2672.93	2132.83	3349.80
22	7	36.0	41.1	1478.34	1293.25	1689.92
23	8	27.3	31.8	869.28	745.79	1013.22
24	9	21.2	25.6	542.50	449.74	654.39
25	(66/67-10)	15.7	19.6	307.95	245.77	385.86
26	11	14.2	17.6	250.49	202.67	309.57
27	12	22.9	23.8	545.04	526.00	564.78
28	1	65.4	67.5	4413.83	4274.03	4558.20
29	2	124.5	140.9	17541.52	15489.66	19865.18
30	3	275.5	297.6	81979.97	75890.83	88557.62
31	4	304.5	442.5	134745.45	92732.57	195792.45
32	5	137.5	254.6	35014.68	18907.60	64843.11
33	6	58.3	85.0	4960.21	3401.55	7233.07
34	7	41.3	52.4	2163.96	1703.50	2748.87
35	8	33.7	38.9	1312.28	1135.81	1516.16
36	9	25.6	29.7	761.63	657.27	882.87
37	(67/68-10)	19.8	23.2	459.94	392.19	539.36
38	11	28.3	29.2	826.10	799.87	853.29
39	12	54.5	66.4	3618.16	2972.48	4404.10
40	1	149.7	141.8	21223.38	22417.14	20093.29
41	2	255.3	304.7	77788.78	65159.97	92865.22
42	3	224.6	274.7	61691.85	50430.35	75468.12
43	4	136.0	227.2	30908.26	18502.46	51632.08
44	5	68.8	110.0	7566.02	4730.28	12101.74
45	6	46.0	57.3	2634.08	2112.79	3283.98
46	7	38.9	45.3	1762.35	1511.22	2055.20
47	8	31.8	35.8	1138.48	1013.89	1278.37
48	9	24.7	27.8	688.19	612.44	773.31
49	(68/69-10)	17.7	21.2	375.23	313.57	449.01
50	11	17.2	20.3	349.26	294.87	413.67

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
51	12	75.4	76.4	5762.23	5682.14	5843.44
52	1	281.0	333.3	93639.46	78945.31	111068.64
53	2	593.0	676.7	401280.95	351635.58	457935.46
54	3	613.3	814.7	499632.16	376109.16	663722.97
55	4	600.8	839.9	504622.25	360988.85	705405.77
56	5	327.6	547.0	179233.28	107350.82	299248.47
57	6	141.9	237.2	33666.03	20142.76	56268.43
58	7	91.7	141.1	12941.65	8407.58	19920.36
59	8	72.3	100.7	7279.81	5225.55	10141.64
60	9	50.5	65.8	3321.68	2548.87	4328.79
61	(69/70-10)	34.6	42.5	1469.68	1193.79	1809.33
62	11	44.6	56.2	2505.57	1987.72	3158.32
63	12	107.1	103.3	11062.07	11474.16	10664.77
64	1	281.1	371.4	104412.87	79040.00	137930.77
65	2	377.9	472.4	178535.19	142817.12	223186.21
66	3	349.7	505.6	176829.74	122309.30	255553.16
67	4	161.0	267.4	43041.18	25917.58	71478.24
68	5	83.1	133.9	11126.76	6908.22	17921.37
69	6	55.4	79.4	4394.96	3067.00	6297.89
70	7	43.7	57.6	2512.88	1905.50	3313.85
71	8	35.7	43.9	1568.26	1276.98	1925.99
72	9	25.8	32.0	824.89	665.14	1023.02
73	(70/71-10)	21.0	26.1	548.15	441.85	680.01
74	11	32.6	33.1	1076.21	1059.82	1092.84
75	12	150.8	147.5	22255.10	22755.57	21765.63
76	1	351.5	368.0	129360.44	123570.02	135422.19
77	2	501.3	609.8	305736.35	251337.29	371909.44
78	3	515.7	651.9	336171.00	265936.16	424955.16
79	4	355.6	537.0	190921.13	126425.80	288318.34
80	5	150.2	239.0	35896.68	22563.40	57108.93
81	6	85.7	124.3	10651.52	7341.14	15454.67
82	7	65.0	90.1	5852.76	4218.51	8120.14
83	8	50.0	63.8	3187.76	2496.27	4070.81
84	9	37.4	44.9	1679.56	1397.80	2018.11
85	(71/72-10)	29.7	33.6	998.52	884.92	1126.71
86	11	55.5	38.5	1366.50	1258.29	1484.01
87	12	68.7	76.2	5231.54	4718.19	5800.74
88	1	182.0	220.8	40191.61	33125.40	48765.15
89	2	197.1	249.4	49141.48	38829.89	62191.38
90	3	297.5	339.5	101001.31	88512.30	115252.51
91	4	294.3	421.8	124131.73	86621.53	177885.18
92	5	157.5	250.6	39967.92	25426.61	62825.32
93	6	81.1	121.6	9859.73	6574.82	14785.85
94	7	59.8	81.8	4891.80	3576.26	6691.25
95	8	45.9	58.7	2695.79	2109.83	3444.49
96	9	35.0	41.4	1449.24	1225.92	1713.24
97	(72/73-10)	26.4	30.6	808.76	698.21	936.82
98	11	23.9	27.5	656.93	572.56	753.75
99	12	31.0	33.4	1034.88	959.52	1116.15
100	1	51.1	63.9	3264.84	2613.33	4078.79

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
101	2	89.6	99.3	8903.22	8031.22	9869.91
102	3	141.2	187.1	26408.62	19925.43	35001.25
103	4	72.2	113.5	8194.76	5211.91	12884.75
104	5	41.2	54.9	2260.88	1693.88	3017.67
105	6	28.1	31.8	893.12	790.89	1008.56
106	7	23.9	27.1	647.32	571.55	733.13
107	8	20.9	23.8	496.54	437.00	564.19
108	9	17.4	20.6	359.41	303.82	425.18
109	(73/74-10)	15.0	18.2	272.85	223.94	332.44
110	11	20.5	22.5	462.40	421.40	507.39
111	12	31.4	36.6	1148.84	984.20	1341.02
112	1	112.3	137.2	15408.57	12614.00	18822.27
113	2	269.0	332.7	89484.72	72352.42	110673.77
114	3	353.1	559.1	197426.76	124669.72	312644.70
115	4	263.7	410.9	108347.86	69541.89	168808.44
116	5	123.4	194.8	24031.31	15224.23	37933.22
117	6	70.6	103.0	7265.43	4979.59	10600.56
118	7	47.2	64.9	3061.71	2225.34	4212.43
119	8	36.7	41.5	1521.44	1344.22	1722.02
120	9	27.6	24.8	685.61	761.47	617.31
121	(74/75-10)	19.5	16.4	321.10	381.99	269.92
122	11	16.8	22.1	371.69	282.24	489.48
123	12	73.3	74.0	5422.71	5373.62	5472.24
124	1	288.0	345.4	99482.93	82972.44	119278.80
125	2	240.9	368.5	88768.51	58022.06	135807.81
126	3	389.2	514.1	200073.62	151473.31	264267.38
127	4	382.0	558.7	213386.23	145890.30	312109.04
128	5	155.9	246.3	38403.85	24313.32	60660.41
129	6	78.5	96.5	7571.10	6161.27	9303.53
130	7	55.8	60.4	3371.12	3112.48	3651.26
131	8	43.5	42.0	1828.32	1891.70	1767.06
132	9	32.8	29.6	972.84	1078.38	877.63
133	(75/76-10)	23.3	22.0	512.01	541.29	484.32
134	11	19.2	17.9	343.76	370.53	318.92
135	12	40.2	34.3	1380.63	1616.26	1179.35
136	1	158.3	143.1	22654.39	25072.55	20469.47
137	2	278.3	281.8	78402.82	77428.15	79389.76
138	3	426.4	541.0	230724.11	181859.26	292718.74
139	4	599.4	759.1	455040.24	359300.50	576290.93
140	5	392.9	624.3	245314.36	154398.04	389771.25
141	6	165.3	270.2	44684.79	27339.86	73033.68
142	7	98.7	133.8	13206.32	9748.06	17891.44
143	8	70.5	88.2	6219.43	4969.78	7783.31
144	9	51.9	57.1	2962.03	2688.76	3263.06
145	(76/77-10)	37.1	37.7	1401.55	1379.48	1423.98
146	11	35.7	38.7	1380.84	1270.98	1500.19
147	12	58.3	66.0	3848.14	3396.14	4360.30
148	1	123.0	141.3	17382.14	15139.28	19957.28
149	2	248.1	269.3	66807.95	61532.42	72535.79
150	3	471.1	586.8	276435.99	221925.02	344336.37

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	4	405.4	616.4	249855.95	164319.67	379917.95
152	5	168.6	295.9	49880.59	28411.47	87572.84
153	6	84.9	130.3	11066.02	7207.83	16989.42
154	7	63.1	87.8	5540.22	3984.76	7702.84
155	8	51.0	66.2	3376.53	2600.97	4383.34
156	9	36.7	45.4	1669.25	1350.43	2063.33
157	(77/78-12)	116.3	117.0	13602.51	13516.20	13689.36
158	1	300.3	337.4	101299.13	90166.64	113806.10
159	2	632.6	719.6	455202.95	400165.04	517810.67
160	3	743.7	935.0	695304.71	553027.91	374184.89
161	5	449.9	738.9	332431.90	202397.47	546009.64
162	6	210.4	352.4	74156.98	44287.00	124173.20
163	7	130.1	196.8	25598.56	16914.74	38740.55
164	8	91.7	142.4	13057.37	8405.42	20283.91
165	9	62.9	95.4	6000.93	3954.16	9107.15
166	(78/79-10)	42.6	60.4	2568.82	1811.74	3642.27
167	11	60.1	77.5	4652.63	3607.65	6000.29
168	12	173.9	172.3	29963.99	30242.58	29687.96
169	1	333.8	401.2	133907.42	111424.89	160926.32
170	2	354.3	443.3	157074.58	125540.12	196530.18
171	3	568.4	708.2	402547.15	323122.96	501493.95
172	4	646.7	869.7	562492.17	418273.77	756436.24
173	5	355.0	593.0	210510.07	126005.44	351687.10
174	6	163.5	261.1	42694.58	26736.17	68178.32
175	7	109.5	169.1	18511.20	11984.44	28592.45
176	8	81.5	124.2	10121.75	6636.66	15436.94
177	9	57.4	82.5	4736.14	3295.01	6807.58
178	(79/80-10)	45.5	58.5	2660.87	2069.80	3420.72
179	11	58.9	70.4	4147.12	3470.30	4955.95
180	12	202.1	202.3	40885.11	40845.56	40924.70
181	1	270.5	361.1	97671.87	73177.31	130365.47
182	2	311.0	399.9	124378.18	96731.77	159926.09
183	3	415.5	564.6	234629.48	172669.06	318823.72
184	4	417.4	600.4	250811.70	174201.74	360537.30
185	5	285.1	466.2	132908.61	81278.75	217334.80
186	6	129.2	204.5	26425.34	16691.01	41836.81
187	7	90.9	136.6	12415.59	8264.02	18652.79
188	8	72.5	102.4	7431.05	5261.13	10495.95
189	9	51.4	69.3	3562.32	2639.79	4807.26
190	(80/81-10)	40.6	46.9	1906.88	1651.12	2202.26
191	11	49.9	50.0	2046.70	1675.40	2500.29
192	12	71.4	75.4	5386.27	5102.70	5685.61
193	1	195.9	196.5	38479.96	38365.54	38594.72
194	2	312.0	357.7	111635.07	97374.93	127983.54
195	3	547.7	721.3	395072.42	300029.56	520222.79
196	4	391.3	635.6	248735.25	153147.47	403984.62
197	5	204.8	330.7	67726.20	41951.28	109337.25
198	6	105.4	169.3	17844.92	11110.74	28660.67
199	7	76.6	112.7	8633.90	5869.75	12699.73
200	8	59.8	84.0	5020.14	3572.25	7054.90

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
201	9	43.7	58.6	2556.47	1906.43	3428.15
202	(81/82-10)	33.7	40.54	1366.96	1136.80	1643.73
203	12	43.2	54.84	2366.74	1862.46	3007.55
204	1	87.3	96.55	8429.32	7622.38	9321.68
205	2	250.9	269.29	67570.95	62961.45	72517.91
206	3	250.1	419.56	104948.76	62569.38	176032.46
207	4	121.5	202.70	24631.31	14765.56	41088.95
208	5	95.2	145.58	13857.48	9060.63	21193.86
209	6	59.5	84.26	5014.29	3541.55	7099.46
210	7	43.4	54.73	2374.14	1881.95	2995.04
211	8	35.9	42.70	1532.54	1287.92	1823.62
212	9	28.8	32.94	947.90	827.87	1085.33
213	(82/83-10)	26.0	28.6	742.73	674.05	818.40
214	11	30.9	34.9	1076.93	953.99	1215.71
215	12	89.0	104.5	9299.12	7925.71	10910.54
216	1	105.7	139.1	14706.55	11170.41	19362.11
217	2	308.7	304.3	93948.40	95300.74	92615.26
218	3	289.8	416.2	120594.10	83957.93	173216.95
219	4	144.4	225.6	32583.01	20852.23	50913.15
220	5	82.3	115.5	9503.79	6775.62	13330.44
221	6	54.2	63.5	3442.24	2939.09	4031.51
222	7	42.8	45.8	1959.59	1830.11	2098.23
223	8	35.6	37.8	1345.94	1268.09	1428.55
224	9	28.8	30.0	864.66	828.94	901.92
225	(83/84-10)	22.4	23.8	533.36	501.34	567.42
226	11	21.2	22.7	482.02	451.03	515.13
227	12	39.0	39.6	1542.79	1517.67	1568.32
228	3	236.9	273.8	64867.01	56137.99	74953.34
229	4	151.1	262.4	39642.09	22816.12	68876.53
230	5	57.8	115.5	6670.63	3336.85	13335.13
231	6	36.8	53.2	1959.41	1354.55	2834.36
232	7	30.5	39.6	1206.71	928.60	1568.11
233	8	25.7	32.0	821.49	659.25	1023.65
234	9	20.7	24.7	511.96	430.56	608.75
235	(84/85-10)	17.7	20.61	365.63	314.79	424.69
236	11	24.3	25.27	614.64	591.45	638.73
237	12	131.6	100.33	13207.57	17330.05	10065.75
238	1	301.3	328.63	99005.34	90763.67	107995.38
239	2	467.7	523.74	244957.53	218755.02	274298.58
240	3	434.5	582.39	253038.26	188773.65	339180.61
241	4	354.0	512.27	181324.24	125291.12	262416.68
242	5	176.3	266.82	47027.32	31064.76	71192.21
243	7	62.1	83.89	5212.96	3861.64	7037.16
244	8	46.2	59.18	2731.08	2130.00	3501.80
245	9	34.0	41.87	1425.70	1159.19	1753.48
246	(85/86-10)	24.6	28.2	693.71	607.14	792.62
247	11	28.9	30.8	892.35	837.04	951.32
248	12	74.7	66.5	4967.06	5581.36	4420.38
249	1	193.1	196.1	37862.80	37295.66	38438.57
250	2	410.5	387.8	159164.23	168484.73	150359.33

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2	
251	3	484.1	592.8	286934.03	234311.03	351375.43	
252	4	487.3	641.0	312345.31	237429.88	410898.55	
253	5	311.3	513.9	160000.09	96935.97	264092.14	
254	6	139.2	209.8	29208.01	19384.08	44010.74	
255	7	87.6	122.8	10750.73	7669.79	15069.30	
256	8	66.0	86.9	5736.80	4361.51	7545.76	
257	9	46.6	56.2	2615.79	2168.01	3156.05	
258	(86/87-10)	37.8	41.28	1558.17	1425.13	1703.64	
259	11	67.3	71.99	4843.84	4526.97	5182.89	
260	2	260.9	301.53	78676.04	68078.83	90922.81	
261	3	321.4	412.75	132654.28	103291.05	170364.79	
262	4	239.6	282.17	67615.72	57422.51	79618.34	
263	5	96.7	141.12	13652.87	9359.82	19915.00	
264	6	61.2	70.47	4310.95	3742.68	4965.50	
265	7	46.2	53.48	2468.51	2130.24	2860.50	
266	8	35.4	43.27	1533.31	1255.54	1872.54	
267	9	28.1	32.24	907.35	792.02	1039.49	
268	(87/88-10)	23.8	24.8	589.43	566.26	613.56	
269	11	17.9	20.2	362.41	321.67	408.32	
270	12	24.4	36.7	896.87	595.93	1349.79	
271	1	108.1	75.4	8149.28	11682.49	5684.63	
272	2	247.5	275.0	68055.50	61265.33	75598.25	
273	3	337.6	457.6	154454.76	113941.96	209372.16	
274	4	350.4	479.8	168115.54	122768.68	230212.10	
275	5	96.2	166.2	15992.43	9254.04	27637.41	
276	6	56.5	70.7	3994.19	3196.16	4991.47	
277	7	42.3	51.6	2185.38	1792.80	2663.93	
278	(88/89-12)	39.3	42.86	1684.40	1544.37	1837.12	
279	1	221.1	126.61	27999.55	48902.92	16031.24	
280	2	351.0	376.29	132078.20	123200.78	141595.30	
281	3	334.7	497.76	166612.65	112040.29	247766.02	
282	4	306.7	419.64	128697.74	94055.18	176099.91	
283	5	98.8	256.26	25317.77	9761.14	65667.49	
284	6	82.2	105.75	8690.98	6754.45	11182.73	
285	7	60.2	66.41	3997.26	3622.63	4410.63	
286	8	44.3	49.36	2185.18	1959.98	2436.26	
287	9	30.1	34.69	1045.61	908.70	1203.15	
T O T A L		41996	55150	16545568	12621309	22153541	
Y = a + b*X						a=	0.65659
X = a' + b'*Y		(a'=-a/b, b'=1/b)				b=	1.30874
						a'=	-0.50178
						b'=	0.76409
		Correlation Coefficient				c=	0.97974

<<< MASTER PROGRAM FOR D8-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORRELATION BETWEEN STATIONS X and Y

X: NO.12 CHILERGA (4-350)

Y: NO.13 LUBUNGU (4-450)

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(64/65-10)	25.3	31.5	798.41	642.13	992.74
2	11	26.7	30.4	812.52	712.25	926.90
3	12	47.8	57.0	2724.46	2286.38	3246.48
4	1	221.3	229.1	50695.35	48972.49	52478.82
5	2	416.7	431.9	179968.27	173617.85	186550.98
6	3	406.8	404.0	164359.92	165517.32	163210.60
7	4	240.6	273.8	65863.96	57866.17	74967.14
8	5	107.2	120.5	12915.78	11484.22	14525.79
9	6	61.3	72.0	4413.55	3754.61	5198.13
10	7	46.9	56.9	2671.77	2201.64	3242.29
11	8	37.3	46.7	1741.20	1393.10	2176.29
12	9	29.2	35.2	1025.68	851.31	1235.76
13	(65/66-10)	23.3	24.2	564.56	542.09	587.95
14	11	23.8	24.9	592.73	565.60	621.15
15	12	50.4	54.6	2748.67	2535.87	2979.32
16	1	78.4	86.1	6746.18	6144.18	7407.16
17	2	185.0	184.9	34197.53	34213.74	34181.33
18	3	348.4	348.5	121421.97	121364.27	121479.69
19	4	282.9	288.9	81726.20	80045.71	83441.98
20	5	112.4	126.6	14235.18	12640.83	16030.62
21	6	57.9	69.4	4014.48	3349.80	4811.04
22	7	41.1	50.5	2076.92	1689.92	2552.54
23	8	31.8	38.8	1233.62	1013.22	1501.95
24	9	25.6	29.1	743.44	654.39	844.60
25	(66/67-10)	19.6	19.2	376.40	385.86	367.16
26	11	17.6	14.3	251.17	309.57	203.79
27	12	23.8	23.2	551.05	564.78	537.65
28	1	67.5	70.1	4730.09	4558.20	4908.46
29	2	140.9	150.5	21217.30	19865.18	22661.44
30	3	297.6	298.0	88691.45	88557.68	88825.43
31	4	442.5	399.7	176848.39	195792.45	159737.29
32	5	254.6	279.8	71252.48	64843.11	78295.38
33	6	95.0	95.8	8146.39	7233.07	9175.04
34	7	52.4	60.5	3174.50	2748.87	3666.03
35	8	38.9	46.3	1804.49	1516.16	2147.64
36	9	29.7	34.9	1036.03	882.57	1216.18
37	(67/68-10)	23.7	24.3	564.22	539.38	590.21
38	11	29.2	30.5	892.00	853.20	932.56
39	12	66.4	65.0	4314.74	4404.10	4227.20
40	1	141.8	123.7	17534.82	20093.20	15302.19
41	2	304.7	273.4	83320.66	92865.22	74757.08
42	3	274.7	283.0	77750.17	75468.12	80101.22
43	4	227.2	234.7	53338.72	51632.08	55101.77
44	5	110.0	117.9	12965.26	12101.74	13890.40
45	6	57.3	63.7	3649.33	3283.98	4055.31
46	7	45.3	51.4	2331.22	2055.20	2644.30
47	8	35.8	41.7	1491.81	1278.37	1740.89
48	9	27.8	31.6	880.03	773.31	1001.49
49	(68/69-10)	21.2	21.3	451.04	449.01	453.08
50	11	20.3	17.3	351.24	413.67	298.23

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
51	12	76.4	63.9	4886.68	5843.44	4086.57
52	1	333.3	324.5	108159.76	111068.64	105327.08
53	2	676.7	634.8	429592.66	457935.46	403004.07
54	3	814.7	882.2	718740.71	663722.97	778319.01
55	4	839.9	956.7	803553.43	705405.77	915357.01
56	5	547.0	641.2	350786.72	299248.47	411201.18
57	6	237.2	347.4	82403.20	56268.43	120676.68
58	7	141.1	186.0	26259.27	19920.86	34614.44
59	8	100.7	134.9	13586.20	10141.64	18200.70
60	9	65.8	95.9	6309.92	4328.79	9197.73
61	(69/70-10)	42.5	67.2	2860.16	1809.33	4521.30
62	11	56.2	77.8	4373.05	3158.32	6054.98
63	12	103.3	152.6	15759.25	10664.77	23287.31
64	1	371.4	426.2	158294.34	137930.77	181664.32
65	2	472.4	540.0	255090.67	223186.21	291555.87
66	3	505.6	496.5	251039.50	255653.16	246509.10
67	4	267.4	334.9	89531.96	71478.24	112145.62
68	5	133.9	157.6	21099.62	17921.37	24841.50
69	6	79.4	95.4	7569.19	6297.89	9097.13
70	7	57.6	73.1	4205.73	3313.85	5337.64
71	8	43.9	57.2	2509.47	1925.99	3269.72
72	9	32.0	41.0	1311.86	1023.02	1682.26
73	(70/71-10)	26.1	29.0	757.35	680.01	843.49
74	11	33.1	33.2	1097.97	1092.84	1103.11
75	12	147.5	134.2	19794.95	21765.63	18002.71
76	1	368.0	375.4	138156.01	135422.19	140945.02
77	2	609.8	587.4	358219.27	371909.44	345033.03
78	3	651.9	603.0	393106.78	424955.16	363645.29
79	4	537.0	536.1	287864.54	288318.34	287411.45
80	5	239.0	315.9	75488.26	57108.93	99782.60
81	6	124.3	136.1	16917.62	15454.67	18519.07
82	7	90.1	95.3	8585.52	8120.14	9077.58
83	8	63.8	73.5	4688.66	4070.81	5400.30
84	9	44.9	53.4	2400.74	2018.11	2855.93
85	(71/72-10)	33.6	37.8	1267.14	1126.71	1425.08
86	11	38.5	41.7	1605.08	1484.01	1736.02
87	12	76.2	78.0	5937.69	5800.74	6077.88
88	1	220.8	248.6	54894.55	48765.15	61794.36
89	2	249.4	273.9	68305.71	62191.38	75021.17
90	3	339.5	329.0	111676.71	115252.51	108211.86
91	4	421.8	389.6	164321.10	177885.18	151791.31
92	5	250.6	284.1	71205.07	62825.32	80702.51
93	6	121.6	127.6	15519.49	14785.85	16289.52
94	7	81.8	85.0	6952.42	6691.25	7223.78
95	8	58.7	64.8	3801.74	3444.49	4196.04
96	9	41.4	48.0	1987.02	1713.24	2304.56
97	(72/73-10)	30.6	34.6	1060.52	936.82	1200.55
98	11	27.5	29.1	798.24	753.75	845.35
99	12	33.4	33.3	1111.32	1116.15	1106.50
100	1	63.9	64.9	4142.84	4078.79	4207.90

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
101	2	99.3	95.2	9458.39	9869.91	9064.02
102	3	187.1	180.4	33744.88	35001.25	32533.61
103	4	113.5	119.5	13562.52	12884.75	14275.94
104	5	54.9	69.4	3813.61	3017.67	4819.50
105	6	31.8	38.2	1212.62	1008.56	1457.95
106	7	27.1	31.4	850.25	733.13	986.07
107	8	23.8	25.7	610.84	564.19	661.34
108	9	20.6	19.5	401.95	425.18	379.99
109	(73/74-10)	18.2	14.8	270.20	332.44	219.62
110	11	22.5	20.4	459.57	507.39	416.26
111	12	36.6	42.2	1544.68	1341.02	1779.27
112	1	137.2	158.7	21773.53	18822.27	25187.53
113	2	332.7	413.0	137399.22	110673.77	170578.33
114	3	559.1	490.3	274145.64	312644.70	240387.35
115	4	410.9	438.3	180077.23	168808.44	192098.26
116	5	194.8	229.7	44745.12	37933.22	52780.29
117	6	103.0	118.1	12158.70	10600.56	13945.86
118	7	64.9	76.3	4953.73	4212.43	5825.50
119	8	41.5	56.7	2354.69	1722.02	3219.80
120	9	24.8	40.4	1003.12	617.31	1630.06
121	(74/75-10)	16.4	25.3	415.91	269.92	640.87
122	11	22.1	20.0	441.79	489.48	398.74
123	12	74.0	106.9	7908.34	5472.24	11428.91
124	1	345.4	417.2	144074.97	119278.80	174025.87
125	2	368.5	437.0	161036.11	135807.81	190950.94
126	3	514.1	567.2	291591.90	264267.38	321741.69
127	4	558.7	502.8	280879.87	312109.04	252775.44
128	5	246.3	320.9	79035.64	60660.41	102977.10
129	6	96.5	128.6	12400.62	9303.53	16528.70
130	7	60.4	85.7	5177.27	3651.26	7341.06
131	8	42.0	64.5	2709.62	1767.06	4154.93
132	9	29.6	48.4	1433.96	877.63	2342.96
133	(75/76-10)	22.0	33.0	726.34	484.32	1089.31
134	11	17.9	23.3	415.45	318.92	541.19
135	12	34.3	52.4	1798.11	1179.35	2741.51
136	1	143.1	182.6	26117.78	20469.47	33324.69
137	2	281.8	371.0	104527.50	79389.76	137624.78
138	3	541.0	536.0	290010.06	292718.74	287326.44
139	4	759.1	721.1	547440.50	576290.93	520034.39
140	5	624.3	599.9	374498.37	389771.23	359823.97
141	6	270.2	373.5	100936.46	73033.68	139499.61
142	7	133.8	170.9	22860.88	17891.44	29210.61
143	8	88.2	113.7	10032.24	7783.31	12930.96
144	9	57.1	79.7	4551.44	3263.06	6348.52
145	(76/77-10)	37.7	57.5	2171.42	1423.98	3311.18
146	11	38.7	48.1	1862.05	1500.19	2311.20
147	12	66.0	67.3	4447.22	4360.30	4535.86
148	1	141.3	136.6	19297.99	19957.28	18660.49
149	2	269.3	253.1	68162.50	72535.79	64052.89
150	3	586.8	464.8	272774.70	344336.37	216085.33

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	4	616.4	533.6	328894.99	379917.95	284724.42
152	5	295.9	363.0	107412.56	87572.84	131747.00
153	6	130.3	145.6	18974.87	16989.42	21192.35
154	7	87.8	95.1	8346.78	7702.84	9044.54
155	8	66.2	74.1	4903.61	4383.34	5485.63
156	9	45.4	54.1	2458.83	2063.33	2930.15
157	(77/78-10)	30.2	35.3	1063.92	909.32	1244.82
158	11	28.7	28.1	805.96	824.13	788.20
159	12	117.0	112.7	13183.91	13689.36	12697.12
160	2	719.6	673.7	484795.45	517810.67	453885.26
161	6	352.4	34.4	12121.54	124173.20	1183.28
162	7	196.8	14.3	2815.42	38740.55	204.61
163	8	142.4	7.0	1004.00	20283.91	49.70
164	(78/79- 2)	443.3	478.3	212053.15	196530.18	228802.20
165	3	708.2	678.6	480523.82	501493.95	460430.56
166	4	869.7	890.0	774029.41	756436.24	792031.77
167	5	593.0	668.4	396397.45	351687.10	446791.86
168	7	169.1	200.9	33963.25	28592.45	40342.91
169	8	124.2	144.5	17954.82	15436.94	20883.39
170	9	82.5	99.3	8194.92	6807.58	9864.98
171	(79/80-10)	58.5	68.2	3988.33	3420.72	4650.13
172	11	70.4	79.0	5558.12	4955.95	6233.45
173	12	202.3	212.6	43003.55	40924.70	45188.00
174	1	361.1	377.3	136222.72	130365.47	142343.13
175	2	399.9	439.2	175626.68	159926.09	192868.67
176	3	564.6	525.2	296532.60	318823.72	275800.01
177	4	600.4	551.7	331280.88	360537.30	304398.52
178	5	466.2	497.2	231774.23	217334.80	247173.01
179	6	204.5	253.2	51792.71	41836.81	64117.82
180	7	136.6	148.0	20219.93	18652.79	21918.74
181	8	102.4	112.3	11504.93	10495.95	12610.91
182	9	69.3	79.4	5505.59	4807.26	6305.37
183	(80/81-10)	46.9	56.4	2646.57	2202.26	3180.52
184	11	50.0	59.4	2968.45	2500.29	3524.26
185	12	75.4	76.6	5778.93	5685.61	5873.78
186	1	196.5	214.6	42164.85	38594.72	46065.23
187	4	635.6	673.5	428097.82	403984.62	453650.30
188	5	330.7	461.5	152614.24	109337.25	213020.76
189	7	112.7	146.0	16455.29	12699.73	21321.43
190	8	84.0	103.3	8676.56	7054.90	10670.98
191	9	58.6	72.5	4242.97	3428.15	5251.45
192	(81/82-10)	40.5	49.0	1987.70	1643.73	2403.66
193	11	33.1	38.8	1284.36	1098.55	1501.59
194	12	54.8	61.1	3350.67	3007.55	3732.94
195	1	96.5	98.5	9512.07	9321.68	9706.35
196	2	269.3	280.2	75449.26	72517.91	78499.10
197	3	419.6	399.8	167720.22	176032.46	159800.47
198	6	84.3	91.6	7720.96	7099.46	8396.87
199	7	54.7	63.1	3455.77	2995.04	3987.39
200	8	42.7	49.6	2116.10	1823.62	2455.48

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
201	9	32.9	38.5	1268.77	1085.33	1483.21
202	(82/83-10)	28.6	31.3	894.32	818.40	977.27
203	11	34.9	34.6	1206.70	1215.71	1197.75
204	12	104.5	62.8	6560.12	10910.54	3944.37
205	1	139.1	130.9	18219.23	19362.11	17143.80
206	2	304.3	169.1	51464.51	92615.26	28597.84
207	3	416.2	332.6	138434.75	173216.95	110636.87
208	4	225.6	347.2	78335.92	50913.15	120529.11
209	5	115.5	162.9	18810.17	13330.44	26542.44
210	6	63.5	85.5	5428.27	4031.51	7308.95
211	7	45.8	58.5	2680.95	2098.23	3425.52
212	8	37.8	45.9	1734.98	1428.55	2107.13
213	9	30.0	36.9	1107.13	901.92	1359.03
214	(83/84-12)	39.6	44.7	1769.16	1568.32	1995.73
215	1	138.8	160.5	22280.63	19273.62	25756.79
216	(84/85-1)	328.6	282.2	92735.83	107995.38	79632.43
217	2	523.7	493.4	258425.10	274298.58	243470.21
218	3	582.4	496.4	289111.71	339180.61	246433.84
219	4	512.3	478.7	245202.23	262416.68	229117.03
220	7	83.9	90.6	7597.42	7037.16	8202.28
221	8	59.2	65.4	3867.24	3501.80	4270.82
222	9	41.9	47.8	1999.81	1753.48	2280.74
223	(85/86-10)	28.2	31.9	898.14	792.62	1017.72
224	2	387.8	367.5	142504.80	150359.33	135060.57
225	4	641.0	506.6	324722.02	410898.55	256619.04
226	5	513.9	472.4	242790.57	264092.14	223207.18
227	6	209.8	269.9	56625.75	44010.74	72856.67
228	8	86.9	94.4	8197.88	7545.76	8906.36
229	(86/87-10)	41.3	48.7	2011.13	1703.64	2374.11
230	(87/88-3)	457.6	417.4	190983.08	209372.16	174209.10
231	4	479.8	409.6	196533.84	230212.10	167782.45
232	6	70.7	82.4	5821.82	4991.47	6790.30
233	8	42.1	43.5	1831.03	1769.01	1895.22
234	(88/89-11)	25.0	22.2	553.83	623.70	491.79
235	12	42.9	39.5	1692.68	1837.12	1559.59
236	1	126.6	109.1	13809.95	16031.24	11896.44
237	7	66.4	72.3	4803.11	4410.63	5230.52
T O T A L		44648	45957	17762139	17830683	18153016
Y = a + b*X					a=	11.83116
X = a' + b'*Y		(a'=-a/b. b'=1/b)			b=	0.96653
					a'=	-12.24085
					b'=	1.03463
		Correlation Coefficient			c=	0.97581

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORRELATION BETWEEN STATIONS X and Y

X: NO.13 LUBUNGU (4-450)

Y: NO.14 CHIFUMPA PONTOON (4-560)

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(59/60-10)	13.0	19.4	252.50	169.63	375.85
2	11	10.9	20.3	220.84	118.17	412.72
3	12	25.6	30.3	776.21	654.93	919.95
4	1	93.3	50.1	4678.40	8713.04	2512.03
5	2	157.6	133.1	20975.75	24846.32	17708.14
6	3	352.6	256.3	90367.52	124297.67	65699.44
7	4	360.5	98.5	35521.08	129976.45	9707.51
8	5	159.9	48.2	7702.18	25583.66	2318.80
9	6	58.3	37.7	2201.12	3402.58	1423.90
10	7	40.7	33.0	1341.27	1652.94	1088.37
11	8	30.5	28.9	882.66	931.20	836.64
12	9	20.9	24.4	509.47	436.95	594.03
13	(60/61-10)	14.2	21.4	303.85	201.40	458.43
14	11	14.0	25.3	353.72	196.12	637.95
15	12	21.9	32.9	721.96	480.72	1084.28
16	1	80.0	81.8	6545.12	6397.46	6696.18
17	2	259.1	233.1	60383.04	67123.89	54319.13
18	3	560.9	471.3	264317.65	314573.43	222090.66
19	4	573.6	286.9	164586.54	329047.97	82324.56
20	5	387.7	90.7	35149.17	150339.31	8217.84
21	6	155.4	57.3	8896.47	24141.40	3278.48
22	7	83.5	48.3	4033.95	6965.28	2336.26
23	8	58.1	39.8	2313.30	3376.91	1584.68
24	9	39.9	31.9	1273.59	1595.13	1016.87
25	(61/62-10)	30.9	25.6	791.93	953.50	657.73
26	11	20.5	34.9	715.79	420.10	1219.62
27	12	74.7	90.5	6762.21	5587.07	8184.50
28	1	180.9	136.5	24697.95	32729.05	18637.53
29	2	423.2	423.9	179387.81	179091.39	179684.71
30	3	631.0	558.8	352559.35	398112.98	312218.15
31	4	849.8	632.9	537871.33	722176.11	400602.52
32	5	805.4	170.0	136876.06	648644.81	28883.38
33	6	551.7	97.1	53570.89	304398.13	9427.92
34	7	279.2	76.0	21217.02	77978.98	5772.86
35	8	162.9	60.9	9923.53	26542.44	3710.15
36	9	114.6	45.1	5171.07	13131.43	2036.33
37	(62/63-10)	60.4	32.5	1964.12	3644.25	1058.59
38	11	52.3	39.6	2068.49	2731.25	1566.55
39	12	242.2	281.2	68101.19	58647.23	79079.13
40	1	625.7	504.6	315717.53	391480.67	254616.81
41	2	888.2	528.7	469632.55	788927.56	279562.71
42	3	1054.6	634.1	668732.72	1112163.34	402102.32
43	4	848.3	205.7	174528.94	719565.78	42331.57
44	5	536.9	105.8	56799.71	288277.66	11191.32
45	6	259.5	80.5	20886.19	67351.37	6476.97
46	7	175.6	68.9	12092.95	30825.68	4744.07
47	8	131.0	55.2	7236.10	17173.82	3048.89
48	9	90.9	42.2	3841.22	8267.61	1784.67
49	(63/64-10)	62.4	32.3	2014.11	3894.27	1041.69
50	11	75.5	48.8	3682.93	5697.26	2380.78

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
51	12	162.6	97.5	15845.53	26425.97	9501.29
52	1	237.4	116.7	27715.85	56373.84	13626.33
53	2	509.6	312.3	159160.56	259740.31	97528.51
54	3	584.4	156.1	91245.46	341494.55	24380.28
55	4	377.1	76.5	28836.51	142226.26	5846.63
56	5	150.2	49.0	7355.16	22555.66	2398.44
57	6	93.0	42.7	3964.94	8640.72	1819.37
58	7	76.3	38.7	2951.47	5825.60	1495.32
59	8	62.6	32.6	2042.20	3922.21	1063.32
60	9	46.3	26.6	1232.28	2146.03	707.60
61	(64/65-10)	31.5	21.4	672.81	992.74	455.98
62	11	30.4	23.8	724.06	926.90	565.62
63	12	57.0	38.3	2180.61	3246.48	1464.68
64	1	229.1	98.5	22563.59	52478.82	9701.35
65	2	431.9	210.8	91063.26	186550.98	44451.75
66	3	404.0	112.6	45489.83	163210.60	12678.86
67	4	273.8	57.8	15831.58	74967.14	3343.32
68	5	120.5	36.3	4370.29	14525.79	1314.86
69	6	72.0	32.3	2329.48	5188.13	1045.94
70	7	56.9	29.5	1682.55	3242.29	873.14
71	8	46.7	26.9	1256.90	2176.29	725.91
72	9	35.2	22.5	790.80	1235.76	506.06
73	(65/66-10)	24.2	20.1	488.03	587.95	405.08
74	11	24.9	22.2	552.63	621.15	491.66
75	12	54.6	42.4	2313.08	2979.32	1795.82
76	1	86.1	42.4	3647.06	7407.16	1795.70
77	2	184.9	92.1	17031.79	34181.33	8486.56
78	3	348.5	133.1	46406.16	121479.69	17727.50
79	4	288.9	94.1	27178.53	83441.98	8852.53
80	5	126.6	39.3	4982.00	16030.62	1548.30
81	6	69.4	32.4	2247.25	4811.04	1049.69
82	7	50.5	29.8	1504.15	2552.54	886.36
83	8	38.8	27.0	1045.63	1501.95	727.95
84	9	29.1	23.1	670.65	844.60	532.53
85	(66/67-10)	19.2	19.2	367.95	367.16	368.73
86	11	14.3	19.2	273.87	203.79	368.04
87	12	23.2	23.1	535.07	537.65	532.51
88	1	70.1	34.2	2394.70	4908.46	1168.31
89	2	150.5	98.5	14834.41	22661.44	9710.76
90	3	298.0	160.8	47926.47	88825.43	25859.11
91	4	399.7	139.7	55840.38	159737.29	19520.48
92	5	279.8	54.7	15292.32	78295.38	2986.83
93	6	95.8	38.4	3674.45	9175.04	1471.55
94	7	60.5	33.8	2045.23	3666.03	1141.01
95	8	46.3	30.9	1430.94	2147.64	953.42
96	9	34.9	25.9	902.21	1216.18	669.30
97	(67/68-10)	24.3	21.4	519.01	590.21	456.39
98	11	30.5	27.8	849.56	932.56	773.95
99	12	65.0	44.9	2922.10	4227.20	2019.94
100	1	123.7	89.1	11021.29	15302.19	7938.01

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
101	2	273.4	109.0	29815.34	74757.08	11891.24
102	3	283.0	133.0	37630.84	80101.22	17678.63
103	4	234.7	65.0	15258.92	55101.77	4225.54
104	5	117.9	46.6	5488.77	13890.40	2168.88
105	6	63.7	37.8	2405.77	4055.31	1427.19
106	7	51.4	38.2	1963.90	2644.30	1458.56
107	8	41.7	33.7	1405.84	1740.89	1135.28
108	9	31.6	27.7	875.97	1001.49	766.19
109	(68/69-10)	21.3	23.0	488.60	453.08	526.90
110	11	17.3	26.3	454.27	298.23	691.95
111	12	63.9	87.2	5576.11	4086.57	7608.58
112	1	324.5	270.2	87694.02	105327.08	73012.95
113	2	634.8	638.0	404996.72	403004.07	406999.22
114	3	882.2	761.1	671491.81	778319.01	579327.05
115	4	956.7	672.9	643761.50	915357.01	452751.07
116	5	641.2	136.5	87545.15	411201.18	18638.45
117	6	347.4	90.0	31275.19	120676.68	8105.44
118	7	186.0	73.6	13696.22	34614.44	5419.31
119	8	134.9	59.2	7983.93	18200.70	3502.24
120	9	95.9	45.1	4320.68	9197.73	2029.66
121	(69/70-10)	67.2	37.4	2512.28	4521.30	1395.96
122	11	77.8	49.1	3824.00	6054.98	2415.03
123	12	152.6	119.7	18264.79	23287.31	14325.51
124	1	426.2	203.6	86798.46	181664.32	41471.94
125	2	540.0	459.5	248111.97	291555.87	211141.52
126	3	496.5	257.4	127773.94	246509.10	66229.52
127	4	334.9	124.6	41739.77	112145.62	15535.24
128	5	157.6	80.6	12700.82	24841.50	6493.60
129	6	95.4	60.2	5738.79	9097.13	3620.23
130	7	73.1	51.4	3757.78	5337.64	2645.53
131	8	57.2	42.0	2400.91	3269.72	1762.96
132	9	41.0	31.5	1291.79	1682.26	991.96
133	(70/71-10)	29.0	26.7	774.43	843.49	711.03
134	11	33.2	33.8	1121.46	1103.11	1140.10
135	12	134.2	85.1	11423.90	18002.71	7249.22
136	1	375.4	198.0	74340.70	140945.02	39210.61
137	2	587.4	214.0	125690.79	345033.03	45787.43
138	3	603.0	218.8	131928.81	363645.29	47863.16
139	4	536.1	121.6	65191.17	287411.45	14786.77
140	5	315.9	74.7	23590.25	99782.60	5577.12
141	6	136.1	56.9	7749.26	18519.07	3242.66
142	7	95.3	50.2	4787.13	9077.58	2524.53
143	8	73.5	41.3	3032.86	5400.30	1703.29
144	9	53.4	34.0	1814.33	2855.93	1152.62
145	(71/72-10)	37.8	26.6	1002.73	1425.08	705.56
146	11	41.7	33.3	1389.07	1736.02	1111.46
147	12	78.0	43.3	3371.93	6077.88	1870.71
148	1	248.6	85.9	21362.10	61794.36	7384.80
149	2	273.9	65.5	17945.87	75021.17	4292.84
150	3	329.0	132.7	43644.29	108211.86	17602.73

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	4	389.6	105.0	40907.42	151791.31	11024.46
152	5	284.1	60.8	17262.87	80702.51	3692.66
153	6	127.6	42.1	5372.41	16289.52	1771.86
154	7	85.0	36.7	3121.24	7223.78	1348.62
155	8	64.8	31.5	2043.42	4196.04	995.12
156	9	48.0	26.9	1292.42	2304.56	724.81
157	(72/73-10)	34.6	21.5	744.91	1200.55	462.19
158	11	29.1	20.1	585.43	845.35	405.43
159	12	33.3	24.1	801.94	1106.50	581.20
160	1	64.9	41.1	2664.55	4207.90	1687.26
161	2	95.2	45.4	4323.42	9064.02	2062.21
162	3	180.4	49.8	8980.02	32533.61	2478.69
163	4	119.5	28.2	3369.61	14275.94	795.34
164	5	69.4	19.8	1377.88	4819.50	393.93
165	6	38.2	17.3	662.03	1457.95	300.62
166	7	31.4	17.6	551.30	986.07	308.23
167	8	25.7	16.3	418.56	661.34	264.90
168	9	19.5	14.4	281.47	379.99	208.50
169	(73/74-10)	14.8	13.1	194.71	219.62	172.63
170	11	20.4	15.2	309.23	416.26	229.72
171	12	42.2	21.4	904.03	1779.27	459.32
172	1	158.7	52.3	8304.24	25187.53	2737.88
173	2	413.0	104.0	42973.16	170578.33	10826.07
174	3	490.3	130.7	64086.77	240387.35	17085.40
175	4	438.3	65.8	28847.77	192098.26	4332.13
176	5	229.7	36.1	8299.90	52780.29	1305.19
177	6	118.1	27.9	3294.12	13945.86	778.10
178	7	76.3	25.2	1920.34	5825.50	633.03
179	8	56.7	22.2	1257.75	3219.80	491.32
180	9	40.4	18.7	753.38	1630.06	348.19
181	(74/75-10)	25.3	14.8	374.36	640.87	218.67
182	11	20.0	14.7	293.19	398.74	215.58
183	12	106.9	46.7	4992.20	11428.91	2180.61
184	1	417.2	158.2	65978.08	174025.87	25014.14
185	2	437.0	170.8	74653.17	190950.94	29186.01
186	3	567.2	225.5	127936.98	321741.69	50867.94
187	4	502.8	138.2	68472.45	252775.44	18547.99
188	5	320.9	55.3	17739.46	102977.10	3055.91
189	6	128.6	41.5	5339.21	16528.70	1724.70
190	7	85.7	34.8	2982.50	7341.06	1211.72
191	8	64.5	30.0	1932.46	4154.93	898.79
192	9	48.4	24.6	1188.67	2342.96	603.06
193	(75/76-10)	33.0	19.1	629.57	1089.31	363.86
194	11	23.3	16.8	389.90	541.19	280.90
195	12	52.4	36.1	1890.36	2741.51	1303.46
196	1	132.6	110.6	20185.23	33324.69	12226.48
197	2	371.0	139.1	51602.02	137624.78	19348.03
198	3	536.0	304.8	163356.29	287326.44	92874.42
199	4	721.1	329.3	237456.41	520034.39	108426.57
200	5	599.9	123.5	74106.38	359823.97	15262.34

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
201	6	373.5	67.9	25344.48	139499.61	4604.62
202	7	170.9	55.5	9489.39	29210.61	3082.74
203	8	113.7	45.2	5143.65	12930.96	2046.03
204	9	79.7	35.2	2803.41	6348.52	1237.94
205	(76/77-10)	57.5	30.3	1742.62	3311.18	917.12
206	11	48.1	27.1	1302.28	2311.20	733.79
207	12	67.3	40.3	2712.05	4535.86	1621.57
208	1	136.6	87.6	11971.47	18660.49	7680.19
209	2	253.1	106.8	27041.35	64052.89	11416.10
210	3	464.8	258.7	120272.56	216085.33	66943.41
211	4	533.6	159.1	84889.94	284724.42	25309.75
212	5	363.0	73.8	26769.71	131747.00	5439.35
213	6	145.6	51.7	7522.68	21192.35	2670.34
214	7	95.1	43.9	4173.84	9044.54	1926.12
215	8	74.1	38.1	2821.86	5485.63	1451.59
216	9	54.1	29.1	1576.06	2930.15	847.73
217	(77/78-10)	35.3	27.0	952.03	1244.82	728.10
218	11	28.1	20.8	585.07	788.20	434.29
219	12	112.7	86.1	9699.14	12697.12	7409.03
220	2	673.7	401.8	270712.16	453885.26	161461.67
221	6	34.4	132.2	4547.00	1183.28	17472.76
222	7	14.3	93.6	1339.15	204.61	8764.75
223	8	7.0	71.3	502.92	49.70	5089.62
224	(78/79-7)	200.9	95.8	19937.43	40342.91	9173.33
225	8	144.5	75.4	10896.18	20883.39	5685.23
226	9	99.3	55.7	5530.27	9864.98	3100.25
227	(79/80-10)	68.2	48.5	3308.95	4650.13	2354.59
228	11	79.0	64.9	5127.46	6233.45	4217.71
229	12	212.6	157.3	33429.98	45188.00	24731.42
230	1	377.3	164.1	61895.75	142343.13	26914.43
231	2	439.2	231.6	101689.54	192868.67	53615.57
232	3	525.2	270.5	142063.17	275800.01	73176.01
233	8	112.3	59.7	6705.48	12610.91	3565.44
234	9	79.4	44.4	3525.66	6305.37	1971.38
235	(80/81-10)	56.4	37.4	2107.68	3180.52	1396.73
236	11	59.4	37.3	2215.60	3524.26	1392.89
237	12	76.6	58.8	4509.39	5873.78	3461.94
238	1	214.6	93.6	20086.89	46065.23	8758.95
239	4	673.3	199.9	134623.00	453650.30	39950.05
240	5	461.5	106.9	49319.47	213020.76	11418.65
241	7	146.0	61.9	9037.94	21321.43	3831.07
242	8	103.3	51.3	5301.00	10670.98	2633.37
243	9	72.5	40.3	2918.61	5251.45	1622.08
244	(81/82-10)	49.0	30.5	1493.42	2403.66	927.88
245	11	38.8	27.4	1063.16	1501.59	752.74
246	12	61.1	33.6	2051.94	3732.94	1127.92
247	1	98.5	61.0	6013.86	9706.35	3726.06
248	2	280.2	151.7	42492.69	78499.10	23001.90
249	3	399.8	97.3	38891.38	159800.47	9465.17
250	6	91.6	36.7	3366.45	8396.87	1349.67

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
251	7	63.1	33.4	2106.08	3987.39	1112.40
252	(82/83-10)	31.3	22.9	715.44	977.27	523.76
253	11	34.6	27.5	953.19	1197.75	758.56
254	12	62.8	72.6	4560.67	3944.37	5273.28
255	1	130.9	52.8	6914.08	17143.80	2788.44
256	2	169.1	102.9	17397.81	28597.84	10584.15
257	3	332.6	56.8	18887.84	110636.87	3224.52
258	4	347.2	45.2	15688.15	120529.11	2041.98
259	5	162.9	37.2	6061.66	26542.44	1384.34
260	6	85.5	30.2	2586.06	7308.95	915.00
261	7	58.5	26.9	1577.17	3425.52	726.16
262	9	36.9	23.4	862.66	1359.03	547.58
263	(83/84-12)	44.7	87.3	3899.13	1995.73	7617.89
264	(84/85- 8)	65.4	400.9	26199.70	4270.82	160724.20
265	9	47.8	389.8	18617.37	2280.74	151970.98
266	(85/86- 2)	367.5	145.4	53428.11	135060.57	21135.43
267	4	506.6	118.5	60051.17	256619.04	14052.52
268	5	472.4	427.8	202105.30	223207.18	182998.38
269	6	269.9	408.4	110236.58	72856.67	166794.66
270	8	94.4	396.9	37455.35	8906.36	157516.94
271	(86/87-10)	48.7	27.8	1356.31	2374.11	774.84
272	(87/88- 3)	417.4	373.4	155859.89	174209.10	139443.37
273	6	82.4	46.5	3832.51	6790.30	2163.10
274	(88/89-11)	22.2	29.8	661.29	491.79	889.22
275	1	109.1	72.0	7849.17	11896.44	5178.82
276	7	72.3	37.8	2732.83	5230.52	1427.84
T O T A L		54232	27820	11081371	22579425	7234602
Y = a + b*X					a=	8.26301
X = a' + b'*Y		(a'=-a/b, b'=1/b)			b=	0.47093
					a'=	-17.54627
					b'=	2.12347
		Correlation Coefficient			c=	0.77255

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORELATION BETWEEN STATIONS X and Y

X: NO.13 LUBUNGU (4-450)

Y: NO.15 KAFUE HOOK BRIDGE (4-669)

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(73/74-10)	14.8	40.8	604.41	219.62	1663.36
2	11	20.4	49.8	1015.41	416.26	2476.94
3	12	42.2	105.3	4442.21	1779.27	11090.64
4	1	158.7	323.8	51388.29	25187.53	104843.77
5	2	413.0	1012.3	418080.94	170578.33	1024700.31
6	3	490.3	760.2	372708.17	240387.35	577864.76
7	4	438.3	568.1	249009.72	192098.26	322781.90
8	5	229.7	302.1	69398.06	52780.29	91247.90
9	6	118.1	173.9	20538.25	13945.86	30246.94
10	7	76.3	124.8	9523.54	5825.50	15569.11
11	8	56.7	99.6	5651.02	3219.80	9918.04
12	9	40.4	76.6	3092.16	1630.06	5865.70
13	(74/75-10)	25.3	54.3	1373.42	640.87	2943.30
14	11	20.0	46.4	926.68	398.74	2153.62
15	12	106.9	207.4	22171.75	11428.91	43012.52
16	1	417.2	790.5	329786.36	174025.87	624959.04
17	2	437.0	672.2	293725.39	190950.94	451815.54
18	3	567.2	997.6	565854.38	321741.69	995180.88
19	4	502.8	713.5	358742.78	252775.44	509133.27
20	5	320.9	425.6	136568.47	102977.10	181117.42
21	6	128.6	193.2	24833.54	16528.70	37311.15
22	7	85.7	135.3	11590.77	7341.06	18300.63
23	8	64.5	109.0	7025.39	4154.93	11878.93
24	9	48.4	87.5	4236.43	2342.96	7660.10
25	(75/76-10)	33.0	65.4	2159.79	1089.31	4282.25
26	11	23.3	53.2	1237.47	541.19	2829.57
27	12	52.4	105.6	5527.08	2741.51	11142.97
28	1	182.6	351.0	64075.25	33324.69	123201.06
29	2	371.0	806.6	299244.64	137624.78	650663.04
30	3	536.0	1021.0	547284.03	287326.44	1042437.34
31	4	721.1	1253.1	903670.30	520034.39	1570319.25
32	5	599.9	852.5	511391.38	359823.97	726802.99
33	6	373.5	502.3	187625.88	139499.61	252355.33
34	7	170.9	249.6	42651.24	29210.61	62276.29
35	8	113.7	178.1	20253.08	12930.96	31721.30
36	9	79.7	136.2	10853.78	6348.52	18556.23
37	(76/77-10)	57.5	109.0	6272.89	3311.18	11883.72
38	11	48.1	94.3	4535.63	2311.20	8900.97
39	12	67.3	123.3	8302.96	4535.86	15198.67
40	1	136.6	229.3	31320.50	18660.49	52569.55
41	2	253.1	374.9	94890.43	64052.89	140574.34
42	3	464.8	712.3	331131.36	216085.33	507429.05
43	4	533.6	732.0	390569.08	284724.42	535760.88
44	5	363.0	468.5	170034.11	131747.00	219447.87
45	6	145.6	220.7	32129.79	21192.35	48712.08
46	7	95.1	157.9	15012.52	9044.54	24918.42
47	8	74.1	131.4	9732.10	5485.63	17265.82
48	9	54.1	101.2	5475.83	2930.15	10233.17
49	(77/78-10)	35.3	73.1	2577.84	1244.82	5338.36
50	11	28.1	59.7	1675.99	788.20	3563.76

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
51	12	112.7	200.4	22584.84	12697.12	40172.48
52	2	673.7	1301.7	876969.77	453885.26	1694428.19
53	6	34.4	862.6	29672.55	1183.28	744083.46
54	7	14.3	463.5	6630.12	204.61	214843.91
55	8	7.0	310.2	2186.52	49.70	96203.69
56	(78/79-2)	478.3	729.6	348970.50	228802.20	532251.92
57	3	678.6	1210.8	821588.33	460430.56	1466035.15
58	4	890.0	1583.5	1409258.72	792031.77	2507487.98
59	5	668.4	927.5	619957.87	446791.86	860238.96
60	7	200.9	314.4	63153.67	40342.91	98862.12
61	8	144.5	238.9	34517.00	20883.39	57051.26
62	9	99.3	175.0	17378.13	9864.98	30613.28
63	(79/80-10)	68.2	133.9	9131.36	4650.13	17931.06
64	11	79.0	157.7	12448.20	6233.45	24859.07
65	12	212.6	381.0	80992.82	45188.00	145167.69
66	1	377.3	548.4	206914.72	142343.13	300778.16
67	2	439.2	720.6	316460.29	192868.67	519250.30
68	3	525.2	961.6	504985.06	275800.01	924618.93
69	4	551.7	805.3	444286.04	304398.52	648459.41
70	5	497.2	645.0	320672.11	247173.01	416026.82
71	6	253.2	361.1	91439.31	64117.82	130402.87
72	7	148.0	233.9	34631.20	21918.74	54716.66
73	8	112.3	187.5	21058.82	12610.91	35165.91
74	9	79.4	141.7	11255.75	6305.37	20092.72
75	(80/81-10)	56.4	108.5	6119.61	3180.52	11774.70
76	11	59.4	119.3	7084.33	3524.26	14240.62
77	12	76.6	157.9	12103.99	5873.78	24942.49
78	1	214.6	372.2	79883.73	46065.23	138529.87
79	2	429.5	819.6	351998.92	184432.92	671806.53
80	4	673.5	1039.3	699991.91	453650.30	1080102.16
81	5	461.5	626.9	289358.50	213020.76	393052.49
82	7	146.0	218.1	31840.15	21321.43	47548.18
83	8	103.3	174.7	18051.01	10670.98	30535.05
84	9	72.5	136.3	9879.57	5251.45	18586.47
85	(81/82-10)	49.0	103.4	5071.44	2403.66	10700.12
86	11	38.8	86.0	3333.95	1501.59	7402.30
87	12	61.1	116.8	7138.59	3732.94	13651.31
88	1	98.5	187.8	18505.25	9706.35	35280.45
89	2	280.2	534.8	149845.60	78499.10	286037.72
90	3	399.8	567.0	226675.64	159800.47	321537.50
91	6	91.6	154.4	14145.31	8396.87	23829.10
92	7	63.1	119.8	7565.01	3987.39	14352.62
93	8	49.6	100.6	4987.28	2455.48	10129.58
94	9	38.5	84.5	3252.98	1483.21	7134.42
95	(82/83-10)	31.3	71.6	2239.20	977.27	5130.62
96	11	34.6	85.7	2964.63	1197.75	7337.96
97	12	62.8	200.8	12612.65	3944.37	40330.63
98	1	130.9	227.0	29722.11	17143.80	51529.06
99	2	169.1	396.3	67023.60	28597.84	157080.53
100	3	332.6	456.4	151802.87	110636.87	208286.01

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2	
101	4	347.2	333.6	115815.78	120529.11	111286.77	
102	5	162.9	180.6	29415.06	26542.44	32598.57	
103	6	85.5	118.7	10151.70	7308.95	14100.11	
104	7	58.5	96.1	5625.57	3425.52	9238.60	
105	8	45.9	82.3	3779.96	2107.13	6780.83	
106	9	36.9	69.3	2556.08	1359.03	4807.51	
107	(83/84-12)	44.7	202.8	9058.26	1995.73	41113.87	
108	1	160.5	226.4	36326.87	25756.79	51234.70	
109	(84/85- 1)	282.2	383.0	108077.77	79632.43	146684.01	
110	2	493.4	823.0	406079.79	243470.21	677293.54	
111	3	496.4	648.1	321743.37	246433.84	420067.29	
112	4	478.7	649.7	310985.05	229117.03	422106.11	
113	6	143.0	200.1	28607.99	20442.64	40034.81	
114	7	90.6	138.5	12545.38	8202.28	19188.16	
115	8	65.4	108.4	7085.73	4270.82	11755.96	
116	9	47.8	85.8	4099.43	2280.74	7368.36	
117	(85/86-10)	31.9	60.9	1942.72	1017.72	3708.43	
118	2	367.5	565.0	207637.56	135060.57	319214.99	
119	4	506.6	724.2	366851.56	256619.04	524435.24	
120	5	472.4	621.6	293656.25	223207.18	386340.60	
121	6	269.9	346.3	93471.01	72856.67	119918.05	
122	8	94.4	140.3	13240.82	8906.36	19684.73	
123	(86/87-10)	48.7	88.0	4288.66	2374.11	7747.14	
124	(87/88- 3)	417.4	799.1	333528.03	174209.10	638548.42	
125	4	409.6	629.3	257775.69	167782.45	396038.48	
126	6	82.4	145.3	11976.21	6790.30	21122.72	
127	8	43.5	91.8	3996.45	1895.22	8427.32	
128	(88/89-11)	22.2	58.7	1300.76	491.79	3440.44	
129	12	39.5	84.7	3344.07	1559.59	7170.31	
130	1	109.1	184.9	20165.32	11896.44	34181.69	
131	7	72.3	117.1	8469.12	5230.52	13712.96	
T O T A L		28034	47097	18215862	11354989	30912081	
Y = a + b*X						a =	34.39575
X = a' + b'*Y		(a' = -a/b, b' = 1/b)				b =	1.51930
						a' =	-22.63922
						b' =	0.65820
		Corelation Coefficient				c =	0.94040

<<< MASTER PROGRAM FOR DG-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORRELATION BETWEEN STATIONS X and Y

X: NO.18 EXCHANGE FARM (5-030)

Y: NO.16 KALEYA DAM SITE (4-941)

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(59/60-10)	0.02	0.18	0.00	0.00	0.03
2	11	0.02	0.17	0.00	0.00	0.03
3	12	1.02	1.02	1.04	1.03	1.04
4	1	0.39	0.56	0.22	0.15	0.31
5	2	0.39	0.55	0.21	0.15	0.30
6	3	0.11	0.29	0.03	0.01	0.08
7	4	0.03	0.21	0.01	0.00	0.04
8	5	0.04	0.20	0.01	0.00	0.04
9	6	0.03	0.18	0.00	0.00	0.03
10	7	0.03	0.17	0.00	0.00	0.03
11	8	0.02	0.16	0.00	0.00	0.03
12	9	0.02	0.13	0.00	0.00	0.02
13	(60/61-12)	0.04	0.14	0.01	0.00	0.02
14	1	0.46	0.68	0.31	0.21	0.47
15	2	0.55	0.23	0.12	0.30	0.05
16	3	0.69	0.18	0.12	0.47	0.03
17	4	0.16	0.16	0.02	0.02	0.02
18	5	0.05	0.13	0.01	0.00	0.02
19	6	0.04	0.13	0.01	0.00	0.02
20	7	0.04	0.14	0.01	0.00	0.02
21	8	0.03	0.13	0.00	0.00	0.02
22	9	0.02	0.12	0.00	0.00	0.01
23	(61/62-11)	0.03	0.21	0.01	0.00	0.04
24	12	0.06	0.20	0.01	0.00	0.04
25	1	0.36	0.27	0.10	0.13	0.07
26	2	0.78	0.52	0.41	0.62	0.27
27	3	0.84	0.20	0.17	0.71	0.04
28	4	0.21	0.18	0.04	0.05	0.03
29	5	0.11	0.17	0.02	0.01	0.03
30	6	0.08	0.17	0.01	0.01	0.03
31	7	0.07	0.17	0.01	0.00	0.03
32	8	0.05	0.15	0.01	0.00	0.02
33	9	0.03	0.14	0.00	0.00	0.02
34	(62/63-10)	0.02	0.12	0.00	0.00	0.01
35	11	0.08	0.23	0.02	0.01	0.05
36	12	1.35	1.19	1.61	1.84	1.42
37	1	0.36	0.45	0.16	0.13	0.20
38	2	2.04	0.77	1.58	4.17	0.60
39	3	1.13	0.57	0.65	1.28	0.33
40	4	0.21	0.31	0.07	0.04	0.10
41	5	0.12	0.27	0.03	0.02	0.08
42	6	0.11	0.27	0.03	0.01	0.07
43	7	0.09	0.25	0.02	0.01	0.06
44	8	0.06	0.23	0.01	0.00	0.05
45	9	0.04	0.21	0.01	0.00	0.05
46	(63/64-10)	0.02	0.18	0.00	0.00	0.03
47	11	0.02	0.17	0.00	0.00	0.03
48	12	0.18	0.49	0.09	0.03	0.24
49	1	0.38	0.23	0.09	0.14	0.06
50	2	0.53	0.27	0.15	0.28	0.08

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
51	3	0.11	0.19	0.02	0.01	0.04
52	4	0.02	0.14	0.00	0.00	0.02
53	5	0.02	0.13	0.00	0.00	0.02
54	6	0.02	0.14	0.00	0.00	0.02
55	7	0.03	0.16	0.00	0.00	0.03
56	8	0.02	0.14	0.00	0.00	0.02
57	9	0.02	0.12	0.00	0.00	0.01
58	(64/65-11)	0.02	0.11	0.00	0.00	0.01
59	12	0.23	1.15	0.26	0.05	1.33
60	1	0.76	1.26	0.96	0.58	1.59
61	2	0.48	0.96	0.46	0.23	0.92
62	3	0.16	0.20	0.03	0.03	0.04
63	4	0.05	0.15	0.01	0.00	0.02
64	5	0.02	0.13	0.00	0.00	0.02
65	6	0.03	0.13	0.00	0.00	0.02
66	7	0.03	0.14	0.00	0.00	0.02
67	8	0.03	0.12	0.00	0.00	0.01
68	9	0.03	0.11	0.00	0.00	0.01
69	(65/66-2)	0.38	0.94	0.36	0.15	0.89
70	3	0.14	0.24	0.03	0.02	0.06
71	4	0.03	0.12	0.00	0.00	0.01
72	5	0.02	0.11	0.00	0.00	0.01
73	6	0.02	0.11	0.00	0.00	0.01
74	7	0.02	0.12	0.00	0.00	0.01
75	8	0.02	0.12	0.00	0.00	0.02
76	9	0.01	0.11	0.00	0.00	0.01
77	(66/67-1)	0.48	0.45	0.22	0.23	0.21
78	2	0.29	0.15	0.04	0.08	0.02
79	3	0.27	0.13	0.03	0.07	0.02
80	4	0.07	0.11	0.01	0.01	0.01
81	5	0.05	0.12	0.01	0.00	0.01
82	6	0.03	0.10	0.00	0.00	0.01
83	7	0.03	0.11	0.00	0.00	0.01
84	8	0.02	0.09	0.00	0.00	0.01
85	9	0.02	0.07	0.00	0.00	0.01
86	(67/68-1)	0.02	0.44	0.04	0.01	0.17
87	2	0.51	0.17	0.09	0.26	0.03
88	(68/69-1)	0.15	1.02	0.16	0.02	1.04
89	2	0.03	0.21	0.02	0.01	0.04
90	3	0.19	0.14	0.03	0.04	0.02
91	4	0.07	0.11	0.01	0.00	0.01
92	5	0.02	0.10	0.00	0.00	0.01
93	6	0.01	0.11	0.00	0.00	0.01
94	7	0.01	0.11	0.00	0.00	0.01
95	8	0.01	0.12	0.00	0.00	0.01
96	(69/70-1)	0.20	0.15	0.03	0.04	0.02
97	2	0.12	0.26	0.03	0.01	0.07
98	3	0.03	0.11	0.00	0.00	0.01
99	4	0.01	0.11	0.00	0.00	0.01
100	7	0.01	0.13	0.00	0.00	0.02

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
101	(70/71- 2)	0.32	0.42	0.13	0.10	0.17
102	3	0.09	0.11	0.01	0.01	0.01
103	4	0.06	0.07	0.00	0.00	0.00
104	(71/72-12)	0.05	0.43	0.02	0.00	0.19
105	1	0.61	0.82	0.50	0.37	0.67
106	2	0.56	0.91	0.51	0.31	0.83
107	3	0.14	0.39	0.05	0.02	0.15
108	4	0.03	0.38	0.03	0.01	0.14
109	5	0.04	0.32	0.01	0.00	0.10
110	6	0.04	0.32	0.01	0.00	0.10
111	7	0.04	0.32	0.01	0.00	0.10
112	8	0.03	0.30	0.01	0.00	0.09
113	9	0.02	0.30	0.01	0.00	0.09
114	(72/73-10)	0.02	0.25	0.00	0.00	0.06
115	2	0.06	0.52	0.03	0.00	0.27
116	3	0.07	0.22	0.02	0.01	0.05
117	4	0.02	0.15	0.00	0.00	0.02
118	7	0.01	0.16	0.00	0.00	0.03
119	8	0.01	0.16	0.00	0.00	0.03
120	(73/74- 1)	0.18	0.19	0.03	0.03	0.03
121	2	0.65	0.42	0.27	0.42	0.18
122	3	0.70	0.57	0.40	0.49	0.33
123	4	0.12	0.22	0.03	0.01	0.05
124	5	0.08	0.21	0.02	0.01	0.04
125	6	0.05	0.20	0.01	0.00	0.04
126	7	0.04	0.23	0.01	0.00	0.05
127	8	0.03	0.23	0.01	0.00	0.05
128	9	0.02	0.22	0.00	0.00	0.05
129	(74/75-12)	0.42	0.26	0.11	0.18	0.07
130	2	1.28	0.41	0.52	1.64	0.17
131	3	0.47	0.24	0.11	0.22	0.06
132	5	0.07	0.18	0.01	0.01	0.03
133	6	0.07	0.20	0.01	0.01	0.04
134	7	0.06	0.21	0.01	0.00	0.04
135	8	0.05	0.20	0.01	0.00	0.04
136	9	0.03	0.17	0.01	0.00	0.03
137	(75/76-12)	0.07	0.16	0.01	0.01	0.03
138	1	0.16	0.28	0.05	0.03	0.08
139	2	0.34	0.38	0.13	0.12	0.14
140	4	0.71	0.63	0.44	0.50	0.40
141	5	0.21	0.27	0.06	0.05	0.07
142	6	0.14	0.25	0.03	0.02	0.06
143	7	0.09	0.12	0.01	0.01	0.02
144	8	0.06	0.24	0.02	0.00	0.06
145	(76/77-10)	0.03	0.22	0.01	0.00	0.05
146	11	0.04	0.31	0.01	0.00	0.09
147	12	0.09	0.18	0.02	0.01	0.03
148	1	0.05	0.25	0.01	0.00	0.06
149	2	0.13	0.24	0.03	0.02	0.06
150	3	0.39	0.18	0.07	0.15	0.03

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	4	0.08	0.15	0.01	0.01	0.02
152	5	0.03	0.14	0.00	0.00	0.02
153	6	0.03	0.14	0.00	0.00	0.02
154	7	0.03	0.14	0.00	0.00	0.02
155	8	0.02	0.15	0.00	0.00	0.02
156	(77/78-12)	0.27	0.41	0.11	0.07	0.17
157	6	0.21	0.23	0.05	0.04	0.05
158	7	0.15	0.22	0.03	0.02	0.05
159	8	0.09	0.21	0.02	0.01	0.04
160	9	0.07	0.19	0.01	0.00	0.04
161	(78/79-11)	0.05	0.16	0.01	0.00	0.03
162	1	0.23	0.33	0.08	0.06	0.11
163	2	0.51	0.32	0.16	0.26	0.10
164	4	0.13	0.36	0.05	0.02	0.13
165	5	0.07	0.29	0.02	0.00	0.08
166	6	0.06	0.27	0.01	0.00	0.07
167	8	0.04	0.22	0.01	0.00	0.05
168	9	0.03	0.20	0.01	0.00	0.04
169	(79/80-10)	0.03	0.18	0.00	0.00	0.03
170	11	0.14	0.21	0.03	0.02	0.04
171	1	0.59	0.24	0.14	0.34	0.06
172	2	1.15	0.22	0.25	1.33	0.05
173	3	1.51	0.24	0.37	2.28	0.06
174	4	0.44	0.21	0.09	0.19	0.04
175	5	0.14	0.19	0.03	0.02	0.04
176	6	0.10	0.19	0.02	0.01	0.04
177	7	0.09	0.20	0.02	0.01	0.04
178	8	0.07	0.19	0.01	0.00	0.04
179	9	0.04	0.17	0.01	0.00	0.03
180	(80/81-10)	0.03	0.16	0.00	0.00	0.02
181	11	0.03	0.17	0.01	0.00	0.03
182	1	0.43	0.23	0.10	0.18	0.05
183	4	0.37	0.49	0.18	0.14	0.24
184	5	0.28	0.41	0.11	0.08	0.16
185	6	0.12	0.36	0.04	0.02	0.13
186	7	0.09	0.35	0.03	0.01	0.13
187	8	0.07	0.32	0.02	0.00	0.10
188	9	0.04	0.27	0.01	0.00	0.07
189	(81/82-10)	0.02	0.21	0.00	0.00	0.04
190	2	1.36	0.62	0.85	1.84	0.39
191	3	0.19	0.29	0.05	0.04	0.08
192	4	0.09	0.23	0.02	0.01	0.05
193	5	0.06	0.22	0.01	0.00	0.05
194	6	0.05	0.22	0.01	0.00	0.05
195	7	0.04	0.23	0.01	0.00	0.05
196	8	0.03	0.23	0.01	0.00	0.05
197	9	0.02	0.21	0.00	0.00	0.05
198	(82/83-10)	0.04	0.22	0.01	0.00	0.05
199	11	0.02	0.31	0.01	0.00	0.09
200	12	0.05	0.18	0.01	0.00	0.03

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
201	1	0.45	0.27	0.12	0.20	0.07
202	2	0.20	0.24	0.05	0.04	0.06
203	3	0.04	0.18	0.01	0.00	0.03
204	4	0.02	0.15	0.00	0.00	0.02
205	5	0.01	0.14	0.00	0.00	0.02
206	6	0.01	0.14	0.00	0.00	0.02
207	7	0.01	0.14	0.00	0.00	0.02
208	8	0.01	0.15	0.00	0.00	0.02
209	(84/85- 2)	0.93	0.43	0.40	0.87	0.18
210	8	0.02	0.12	0.00	0.00	0.01
211	(85/86- 8)	0.08	0.14	0.01	0.01	0.02
212	9	0.05	0.12	0.01	0.00	0.02
TOTAL		40	56	18	27	23
Y = a + b*X					a =	0.18885
X = a' + b'*Y		(a' = -a/b, b' = 1/b)			b =	0.39889
					a' =	-0.48562
					b' =	2.57141
		Corelation Coefficient			c =	0.57676

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORRELATION BETWEEN STATIONS X and Y

X: NO.16 KALEYA DAM SITE (4-941)

Y: NO.17 URUAFF FARM (4-958)

(DISCHARGE UNIT: m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(61/62- 2)	0.5	0.2	0.10	0.27	0.04
2	(62/63-12)	1.2	4.5	5.37	1.42	20.33
3	2	0.8	1.7	1.34	0.60	3.01
4	3	0.6	0.2	0.10	0.33	0.03
5	(64/65- 1)	1.3	2.2	2.82	1.59	5.00
6	2	1.0	0.4	0.34	0.92	0.12
7	(66/67- 2)	0.1	0.2	0.04	0.02	0.06
8	(68/69- 1)	1.0	0.7	0.70	1.04	0.47
9	3	0.1	0.3	0.05	0.02	0.11
10	(70/71- 2)	0.4	0.4	0.16	0.17	0.15
11	(71/72- 1)	0.8	1.0	0.80	0.67	0.96
12	2	0.9	1.6	1.42	0.83	2.42
13	3	0.4	0.4	0.14	0.15	0.12
14	(73/74- 1)	0.2	1.6	0.30	0.03	2.57
15	2	0.4	6.1	2.56	0.18	36.97
16	3	0.6	1.5	0.87	0.33	2.32
17	4	0.2	0.0	0.01	0.05	0.00
18	6	0.2	0.0	0.00	0.04	0.00
19	7	0.2	0.0	0.00	0.05	0.00
20	(74/75-12)	0.3	1.2	0.32	0.07	1.45
21	2	0.4	0.3	0.14	0.17	0.12
22	3	0.2	0.0	0.01	0.06	0.00
23	5	0.2	0.0	0.00	0.03	0.00
24	6	0.2	0.0	0.00	0.04	0.00
25	(75/76- 2)	0.4	0.0	0.02	0.14	0.00
26	4	0.6	3.6	2.27	0.40	13.06
27	5	0.3	0.0	0.00	0.07	0.00
28	6	0.2	0.0	0.00	0.06	0.00
29	7	0.1	0.0	0.00	0.02	0.00
30	(76/77- 3)	0.2	0.1	0.01	0.03	0.00
31	4	0.1	0.0	0.00	0.02	0.00
32	5	0.1	0.0	0.00	0.02	0.00
33	(77/78-12)	0.4	1.5	0.60	0.17	2.14
34	6	0.2	0.0	0.00	0.05	0.00
35	7	0.2	0.0	0.00	0.05	0.00
36	8	0.2	0.0	0.00	0.04	0.00
37	9	0.2	0.0	0.00	0.04	0.00
38	(78/79- 1)	0.3	0.0	0.00	0.11	0.00
39	2	0.5	0.0	0.00	0.10	0.00
40	4	0.4	0.0	0.00	0.13	0.00
41	5	0.3	0.0	0.00	0.08	0.00
42	6	0.3	0.0	0.00	0.07	0.00
43	9	0.2	0.0	0.00	0.04	0.00
44	(79/80- 1)	0.2	0.0	0.01	0.06	0.00
45	3	0.2	0.1	0.01	0.06	0.03
46	4	0.2	0.0	0.00	0.04	0.00
47	6	0.2	0.0	0.00	0.04	0.00
48	7	0.2	0.0	0.00	0.04	0.00
49	(80/81- 1)	0.2	1.1	0.26	0.05	1.29
50	4	0.5	0.0	0.02	0.24	0.00

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
51	5	0.4	0.0	0.00	0.16	0.00
52	6	0.4	0.0	0.00	0.13	0.00
53	7	0.4	0.0	0.00	0.13	0.00
54	8	0.3	0.0	0.00	0.10	0.00
55	9	0.3	0.0	0.00	0.07	0.00
56	(81/82-10)	0.2	0.0	0.00	0.04	0.00
57	2	0.6	0.1	0.08	0.39	0.02
58	3	0.3	0.0	0.00	0.08	0.00
59	4	0.2	0.0	0.00	0.05	0.00
60	5	0.2	0.0	0.00	0.05	0.00
61	6	0.2	0.0	0.00	0.05	0.00
62	7	0.2	0.0	0.00	0.05	0.00
63	8	0.2	0.0	0.00	0.05	0.00
64	9	0.2	0.0	0.00	0.05	0.00
65	(82/83- 2)	0.2	0.0	0.00	0.06	0.00
66	3	0.2	0.0	0.00	0.03	0.00
67	(83/84- 3)	0.2	0.0	0.00	0.02	0.00
68	4	0.1	0.0	0.00	0.02	0.00
69	(84/85- 2)	0.4	0.1	0.05	0.18	0.01
70	(85/86- 8)	0.1	0.0	0.00	0.02	0.00
71	9	0.1	0.0	0.00	0.02	0.00
TOTAL		25	31	21	13	93
Y = a + b*X					a=	-0.35260
X = a' + b'*Y		(a'=-a/b, b'=1/b)			b=	2.28197
					a'=	0.15452
					b'=	0.43822
					Correlation Coefficient c=	0.53809

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORELATION BETWEEN STATIONS X and Y

X: NO.16 KALEYA DAM SITE (4-941)

Y: NO.18 EXCHANGE FARM (5-030)

(DISCHARGE UNIT : m3/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
1	(59/60-10)	0.2	0.0	0.00	0.03	0.00
2	11	0.2	0.0	0.00	0.03	0.00
3	12	1.0	1.0	1.04	1.04	1.03
4	1	0.6	0.4	0.22	0.31	0.15
5	2	0.5	0.4	0.21	0.30	0.15
6	3	0.3	0.1	0.03	0.08	0.01
7	4	0.2	0.0	0.01	0.04	0.00
8	5	0.2	0.0	0.01	0.04	0.00
9	6	0.2	0.0	0.00	0.03	0.00
10	7	0.2	0.0	0.00	0.03	0.00
11	8	0.2	0.0	0.00	0.03	0.00
12	9	0.1	0.0	0.00	0.02	0.00
13	(60/61-12)	0.1	0.0	0.01	0.02	0.00
14	1	0.7	0.5	0.31	0.47	0.21
15	2	0.2	0.5	0.12	0.05	0.30
16	3	0.2	0.7	0.12	0.03	0.47
17	4	0.2	0.2	0.02	0.02	0.02
18	5	0.1	0.0	0.01	0.02	0.00
19	6	0.1	0.0	0.01	0.02	0.00
20	7	0.1	0.0	0.01	0.02	0.00
21	8	0.1	0.0	0.00	0.02	0.00
22	9	0.1	0.0	0.00	0.01	0.00
23	(61/62-11)	0.2	0.0	0.01	0.04	0.00
24	12	0.2	0.1	0.01	0.04	0.00
25	1	0.3	0.4	0.10	0.07	0.13
26	2	0.5	0.8	0.41	0.27	0.62
27	3	0.2	0.8	0.17	0.04	0.71
28	4	0.2	0.2	0.04	0.03	0.05
29	5	0.2	0.1	0.02	0.03	0.01
30	6	0.2	0.1	0.01	0.03	0.01
31	7	0.2	0.1	0.01	0.03	0.00
32	8	0.2	0.0	0.01	0.02	0.00
33	9	0.1	0.0	0.00	0.02	0.00
34	(62/63-10)	0.1	0.0	0.00	0.01	0.00
35	11	0.2	0.1	0.02	0.05	0.01
36	12	1.2	1.4	1.61	1.42	1.84
37	1	0.4	0.4	0.16	0.20	0.13
38	2	0.8	2.0	1.58	0.60	4.17
39	3	0.6	1.1	0.65	0.33	1.28
40	4	0.3	0.2	0.07	0.10	0.04
41	5	0.3	0.1	0.03	0.08	0.02
42	6	0.3	0.1	0.03	0.07	0.01
43	7	0.2	0.1	0.02	0.06	0.01
44	8	0.2	0.1	0.01	0.05	0.00
45	9	0.2	0.0	0.01	0.05	0.00
46	(63/64-10)	0.2	0.0	0.00	0.03	0.00
47	11	0.2	0.0	0.00	0.03	0.00
48	12	0.5	0.2	0.09	0.24	0.03
49	1	0.2	0.4	0.09	0.06	0.14
50	2	0.3	0.5	0.15	0.08	0.28

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
51	3	0.2	0.1	0.02	0.04	0.01
52	4	0.1	0.0	0.00	0.02	0.00
53	5	0.1	0.0	0.00	0.02	0.00
54	6	0.1	0.0	0.00	0.02	0.00
55	7	0.2	0.0	0.00	0.03	0.00
56	8	0.1	0.0	0.00	0.02	0.00
57	9	0.1	0.0	0.00	0.01	0.00
58	(64/65-11)	0.1	0.0	0.00	0.01	0.00
59	12	1.2	0.2	0.26	1.33	0.05
60	1	1.3	0.8	0.96	1.59	0.58
61	2	1.0	0.5	0.46	0.92	0.23
62	3	0.2	0.2	0.03	0.04	0.03
63	4	0.1	0.1	0.01	0.02	0.00
64	5	0.1	0.0	0.00	0.02	0.00
65	6	0.1	0.0	0.00	0.02	0.00
66	7	0.1	0.0	0.00	0.02	0.00
67	8	0.1	0.0	0.00	0.01	0.00
68	9	0.1	0.0	0.00	0.01	0.00
69	(65/66- 2)	0.9	0.4	0.36	0.89	0.15
70	3	0.2	0.1	0.03	0.06	0.02
71	4	0.1	0.0	0.00	0.01	0.00
72	5	0.1	0.0	0.00	0.01	0.00
73	6	0.1	0.0	0.00	0.01	0.00
74	7	0.1	0.0	0.00	0.01	0.00
75	8	0.1	0.0	0.00	0.02	0.00
76	9	0.1	0.0	0.00	0.01	0.00
77	(66/67- 1)	0.5	0.5	0.22	0.21	0.23
78	2	0.1	0.3	0.04	0.02	0.08
79	3	0.1	0.3	0.03	0.02	0.07
80	4	0.1	0.1	0.01	0.01	0.01
81	5	0.1	0.1	0.01	0.01	0.00
82	6	0.1	0.0	0.00	0.01	0.00
83	7	0.1	0.0	0.00	0.01	0.00
84	8	0.1	0.0	0.00	0.01	0.00
85	9	0.1	0.0	0.00	0.01	0.00
86	(67/68- 1)	0.4	0.1	0.04	0.19	0.01
87	2	0.2	0.5	0.09	0.03	0.26
88	(68/69- 1)	1.0	0.2	0.16	1.04	0.02
89	2	0.2	0.1	0.02	0.04	0.01
90	3	0.1	0.2	0.03	0.02	0.04
91	4	0.1	0.1	0.01	0.01	0.00
92	5	0.1	0.0	0.00	0.01	0.00
93	6	0.1	0.0	0.00	0.01	0.00
94	7	0.1	0.0	0.00	0.01	0.00
95	8	0.1	0.0	0.00	0.01	0.00
96	(69/70- 1)	0.1	0.2	0.03	0.02	0.04
97	2	0.3	0.1	0.03	0.07	0.01
98	3	0.1	0.0	0.00	0.01	0.00
99	4	0.1	0.0	0.00	0.01	0.00
100	7	0.1	0.0	0.00	0.02	0.00

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
101	(70/71- 2)	0.4	0.3	0.13	0.17	0.10
102	3	0.1	0.1	0.01	0.01	0.01
103	4	0.1	0.1	0.00	0.00	0.00
104	(71/72-12)	0.4	0.1	0.02	0.19	0.00
105	1	0.8	0.6	0.50	0.67	0.37
106	2	0.9	0.6	0.51	0.83	0.31
107	3	0.4	0.1	0.05	0.15	0.02
108	4	0.4	0.1	0.03	0.14	0.01
109	5	0.3	0.0	0.01	0.10	0.00
110	6	0.3	0.0	0.01	0.10	0.00
111	7	0.3	0.0	0.01	0.10	0.00
112	8	0.3	0.0	0.01	0.09	0.00
113	9	0.3	0.0	0.01	0.09	0.00
114	(72/73-10)	0.3	0.0	0.00	0.06	0.00
115	2	0.5	0.1	0.03	0.27	0.00
116	3	0.2	0.1	0.02	0.05	0.01
117	4	0.1	0.0	0.00	0.02	0.00
118	7	0.2	0.0	0.00	0.03	0.00
119	8	0.2	0.0	0.00	0.03	0.00
120	(73/74- 1)	0.2	0.2	0.03	0.03	0.03
121	2	0.4	0.6	0.27	0.18	0.42
122	3	0.6	0.7	0.40	0.33	0.49
123	4	0.2	0.1	0.03	0.05	0.01
124	5	0.2	0.1	0.02	0.04	0.01
125	6	0.2	0.0	0.01	0.04	0.00
126	7	0.2	0.0	0.01	0.05	0.00
127	8	0.2	0.0	0.01	0.05	0.00
128	9	0.2	0.0	0.00	0.05	0.00
129	(74/75-12)	0.3	0.4	0.11	0.07	0.18
130	2	0.4	1.3	0.52	0.17	1.64
131	3	0.2	0.5	0.11	0.06	0.22
132	5	0.2	0.1	0.01	0.03	0.01
133	6	0.2	0.1	0.01	0.04	0.01
134	7	0.2	0.1	0.01	0.04	0.00
135	8	0.2	0.1	0.01	0.04	0.00
136	9	0.2	0.0	0.01	0.03	0.00
137	(75/76-12)	0.2	0.1	0.01	0.03	0.01
138	1	0.3	0.2	0.05	0.08	0.03
139	2	0.4	0.3	0.13	0.14	0.12
140	4	0.6	0.7	0.44	0.40	0.50
141	5	0.3	0.2	0.06	0.07	0.05
142	6	0.2	0.1	0.03	0.06	0.02
143	7	0.1	0.1	0.01	0.02	0.01
144	8	0.2	0.1	0.02	0.06	0.00
145	(76/77-10)	0.2	0.0	0.01	0.05	0.00
146	11	0.3	0.0	0.01	0.09	0.00
147	12	0.2	0.1	0.02	0.03	0.01
148	1	0.3	0.1	0.01	0.06	0.00
149	2	0.2	0.1	0.03	0.06	0.02
150	3	0.2	0.4	0.07	0.03	0.15

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
151	4	0.1	0.1	0.01	0.02	0.01
152	5	0.1	0.0	0.00	0.02	0.00
153	6	0.1	0.0	0.00	0.02	0.00
154	7	0.1	0.0	0.00	0.02	0.00
155	8	0.2	0.0	0.00	0.02	0.00
156	(77/78-12)	0.4	0.3	0.11	0.17	0.07
157	6	0.2	0.2	0.05	0.05	0.04
158	7	0.2	0.2	0.03	0.05	0.02
159	8	0.2	0.1	0.02	0.04	0.01
160	9	0.2	0.1	0.01	0.04	0.00
161	(78/79-11)	0.2	0.1	0.01	0.03	0.00
162	1	0.3	0.2	0.08	0.11	0.06
163	2	0.3	0.5	0.16	0.10	0.26
164	4	0.4	0.1	0.05	0.13	0.02
165	5	0.3	0.1	0.02	0.08	0.00
166	6	0.3	0.1	0.01	0.07	0.00
167	8	0.2	0.0	0.01	0.05	0.00
168	9	0.2	0.0	0.01	0.04	0.00
169	(79/80-10)	0.2	0.0	0.00	0.03	0.00
170	11	0.2	0.1	0.03	0.04	0.02
171	1	0.2	0.6	0.14	0.06	0.34
172	2	0.2	1.2	0.25	0.05	1.33
173	3	0.2	1.5	0.37	0.06	2.28
174	4	0.2	0.4	0.09	0.04	0.19
175	5	0.2	0.1	0.03	0.04	0.02
176	6	0.2	0.1	0.02	0.04	0.01
177	7	0.2	0.1	0.02	0.04	0.01
178	8	0.2	0.1	0.01	0.04	0.00
179	9	0.2	0.0	0.01	0.03	0.00
180	(80/81-10)	0.2	0.0	0.00	0.02	0.00
181	11	0.2	0.0	0.01	0.03	0.00
182	1	0.2	0.4	0.10	0.05	0.18
183	4	0.5	0.4	0.18	0.24	0.14
184	5	0.4	0.3	0.11	0.16	0.08
185	6	0.4	0.1	0.04	0.13	0.02
186	7	0.4	0.1	0.03	0.13	0.01
187	8	0.3	0.1	0.02	0.10	0.00
188	9	0.3	0.0	0.01	0.07	0.00
189	(81/82-10)	0.2	0.0	0.00	0.04	0.00
190	2	0.6	1.4	0.85	0.39	1.84
191	3	0.3	0.2	0.05	0.08	0.04
192	4	0.2	0.1	0.02	0.05	0.01
193	5	0.2	0.1	0.01	0.05	0.00
194	6	0.2	0.0	0.01	0.05	0.00
195	7	0.2	0.0	0.01	0.05	0.00
196	8	0.2	0.0	0.01	0.05	0.00
197	9	0.2	0.0	0.00	0.05	0.00
198	(82/83-10)	0.2	0.0	0.01	0.05	0.00
199	11	0.3	0.0	0.01	0.09	0.00
200	12	0.2	0.0	0.01	0.03	0.00

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
201	1	0.3	0.4	0.12	0.07	0.20
202	2	0.2	0.2	0.05	0.06	0.04
203	3	0.2	0.0	0.01	0.03	0.00
204	4	0.1	0.0	0.00	0.02	0.00
205	5	0.1	0.0	0.00	0.02	0.00
206	6	0.1	0.0	0.00	0.02	0.00
207	7	0.1	0.0	0.00	0.02	0.00
208	8	0.2	0.0	0.00	0.02	0.00
209	(84/85- 2)	0.4	0.9	0.40	0.18	0.87
210	8	0.1	0.0	0.00	0.01	0.00
211	(85/86- 8)	0.1	0.1	0.01	0.02	0.01
212	9	0.1	0.0	0.01	0.02	0.00
T O T A L		56	40	18	23	27
Y = a + b*X					a=	-0.03608
X = a' + b'*Y		(a'=-a/b, b'=1/b)			b=	0.85538
					a'=	0.04219
					b'=	1.16907
		Corelation Coefficient			c=	0.57676

<<< MASTER PROGRAM FOR DB-7:REGRESSION CURVE >>>

MONTHLY DISCHARGE CORELATION BETWEEN STATIONS X and Y

X: NO.10 MPATAMATO (4-200)

Y: NO.19 LUANGWA BRIDGE (5-940)

(DISCHARGE UNIT : m³/s)

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
1	(59/60-10)	7.1	0.5	3.36	50.72	0.22
2	11	8.4	0.4	3.51	70.23	0.18
3	12	23.6	244.4	5758.56	555.26	59721.97
4	1	42.3	398.4	16844.86	1787.36	158753.43
5	2	136.1	766.4	104277.50	18511.62	587403.81
6	3	200.5	1410.9	282846.02	40189.94	1990594.23
7	4	118.3	405.6	47993.09	14001.86	164502.26
8	5	47.7	165.5	7899.30	2276.89	27405.30
9	6	26.2	94.3	2471.79	687.21	8890.57
10	7	19.2	63.1	1211.24	368.55	3980.69
11	8	14.4	41.9	603.87	207.76	1755.17
12	9	10.5	24.0	251.13	109.69	574.93
13	(60/61-10)	8.4	11.5	96.83	70.99	132.09
14	11	10.3	11.6	119.30	106.66	133.44
15	12	23.5	57.7	1356.28	552.72	3328.09
16	1	65.4	636.7	41610.44	4271.03	405388.91
17	2	187.4	1215.9	227804.86	35102.61	1478381.76
18	3	259.2	1845.9	478517.41	67204.32	3407205.30
19	4	192.0	713.0	136886.49	36857.43	508389.01
20	5	87.7	268.2	23512.18	7685.57	71929.88
21	6	46.5	142.3	6611.33	2157.84	20256.25
22	7	31.1	103.2	3208.98	966.40	10655.58
23	8	22.0	72.7	1597.37	482.19	5291.67
24	9	14.9	48.6	725.67	222.63	2365.41
25	(61/62-10)	10.7	27.1	290.41	115.26	731.74
26	11	32.2	80.4	2587.38	1034.85	6469.10
27	12	92.5	731.0	67626.76	8559.01	534335.15
28	1	173.6	2856.8	496031.67	30147.89	8161347.87
29	2	346.6	3835.8	1329513.48	120136.12	14713360.23
30	3	420.2	3048.7	1281092.92	176572.28	9294772.13
31	4	395.0	1645.3	649816.20	155994.71	2706893.77
32	5	217.1	545.4	118399.51	47126.12	297466.53
33	6	105.6	265.4	28022.95	11150.76	70424.39
34	7	70.9	169.0	11977.70	5024.04	28555.81
35	8	51.7	114.6	5919.64	2669.73	13125.73
36	9	34.8	79.8	2773.30	1208.93	6362.02
37	(62/63-10)	21.9	49.2	1074.76	477.89	2417.12
38	11	28.7	60.9	1748.96	826.02	3703.12
39	12	131.9	718.1	94722.96	17398.25	515709.14
40	1	314.0	1548.7	486250.93	98585.17	2398332.01
41	2	371.1	2623.2	973473.45	137719.67	6381011.12
42	3	361.7	3086.7	1116429.48	130820.90	9527642.60
43	4	220.6	1250.8	275902.72	48653.84	1564569.49
44	5	118.0	464.0	54754.59	13927.76	215258.27
45	6	73.2	271.0	19835.03	5356.76	73445.32
46	7	56.0	197.1	11037.95	3134.70	38867.04
47	8	41.6	132.5	5802.98	1729.38	19472.11
48	9	28.4	94.1	2674.31	807.45	8257.45
49	(64/65-10)	13.7	49.9	685.80	188.97	2483.81
50	11	21.0	40.8	858.08	442.40	1664.32

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
51	12	35.4	136.9	4845.60	1252.34	18748.71
52	1	131.3	1453.9	190902.85	17240.04	2113910.11
53	2	167.1	2283.4	381622.30	27931.64	5214000.25
54	3	160.6	1338.4	214904.33	25782.10	1791315.56
55	4	97.4	705.7	68724.80	9482.92	498063.81
56	5	47.6	265.4	12620.43	2261.13	70440.71
57	6	31.4	189.7	5949.11	983.74	35976.79
58	7	25.8	140.9	3636.11	666.11	19848.60
59	8	20.2	108.5	2196.13	409.32	11782.76
60	9	15.2	82.1	1245.52	230.36	6734.32
61	(65/66-10)	13.2	61.0	808.27	175.47	3723.16
62	11	18.4	55.8	1025.07	338.05	3108.34
63	12	37.2	157.6	5868.70	1387.16	24828.92
64	1	45.4	451.7	20504.74	2060.70	204030.12
65	2	124.4	1133.7	141082.80	15486.11	1285303.57
66	3	207.7	1206.3	250593.75	43151.58	1455270.56
67	4	94.7	260.5	24670.94	8969.90	67855.29
68	7	22.6	62.6	1416.62	511.73	3921.59
69	8	17.4	39.6	689.02	302.86	1567.53
70	9	13.8	21.9	302.28	189.92	481.12
71	(66/67-10)	11.2	14.6	164.07	125.66	214.23
72	11	12.2	12.7	155.05	148.51	161.87
73	12	22.1	187.8	4156.45	489.62	35284.58
74	1	51.3	551.2	28264.68	2629.64	303802.42
75	2	95.5	775.9	74077.56	9114.49	602061.51
76	3	195.1	1385.6	270291.83	38054.26	1919828.92
77	4	208.9	894.3	186861.22	43658.31	799781.60
78	5	90.5	283.7	25669.79	8189.39	80462.40
79	6	43.0	161.8	6951.12	1846.33	26169.87
80	7	29.4	124.3	3652.44	863.32	15452.31
81	8	22.9	100.2	2293.41	524.11	10035.63
82	9	17.7	77.8	1374.48	312.28	6049.76
83	(67/68-10)	15.8	58.8	927.71	249.03	3455.93
84	11	25.8	61.2	1575.53	663.19	3742.97
85	12	44.7	255.3	11408.99	1996.53	65195.62
86	1	135.5	683.8	92632.89	18352.99	467545.17
87	2	154.5	1084.0	167533.43	23983.86	1175163.82
88	3	168.3	1347.3	226697.12	28311.82	1815199.13
89	4	93.9	418.3	39261.46	8309.31	174981.07
90	6	33.1	168.7	5577.83	1093.71	28446.61
91	7	27.0	138.6	3740.71	728.52	19207.21
92	8	21.6	108.9	2354.87	467.35	11865.66
93	9	16.8	84.3	1412.51	280.75	7106.53
94	(68/69-10)	12.6	67.1	847.57	159.72	4497.72
95	11	16.6	69.1	1148.39	275.88	4730.34
96	12	66.8	204.8	13678.44	4459.76	41952.85
97	1	215.9	924.0	199496.80	46614.15	853795.97
98	2	423.7	1885.4	798863.26	179533.62	3554668.54
99	3	387.2	1809.0	700369.18	149398.40	3272329.70
100	6	90.5	266.0	24085.41	8196.73	70772.97

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
101	7	51.4	182.3	11186.22	3764.04	33243.97
102	(69/70-10)	23.0	68.8	1579.70	526.78	4737.21
103	11	28.5	57.2	1630.59	812.51	3272.36
104	12	74.1	42.6	3154.81	5496.76	1810.67
105	1	167.1	1235.7	206487.85	27924.97	1526849.88
106	2	278.0	1639.8	455798.96	77259.92	2689010.12
107	3	207.9	802.0	166753.15	43230.23	643221.43
108	4	105.6	610.2	64458.49	11157.74	372377.91
109	5	58.2	297.0	17297.28	3392.94	88181.95
110	6	40.1	175.2	7033.58	1611.31	30702.42
111	7	30.7	135.8	4173.93	944.74	18440.78
112	8	24.2	105.7	2558.30	585.58	11176.78
113	9	17.0	84.1	1433.27	290.40	7073.81
114	(70/71-10)	13.4	67.2	901.46	180.18	4510.03
115	11	26.6	78.6	2091.94	708.53	6176.43
116	12	118.6	942.1	111702.68	14057.48	887604.69
117	1	288.0	1672.3	481700.05	82966.61	2796726.79
118	2	356.7	3009.3	1073414.12	127234.92	9055830.62
119	3	347.7	2003.9	696734.67	120891.16	4015506.21
120	4	191.5	639.4	122424.06	36657.74	408853.60
121	5	99.2	319.1	31653.63	9839.33	101831.35
122	6	61.0	198.4	12093.83	3717.04	39348.74
123	7	46.5	147.9	6881.17	2163.86	21882.44
124	8	34.9	115.0	4015.72	1219.51	13223.32
125	9	25.3	88.3	2230.96	638.19	7798.88
126	(71/72-10)	19.9	67.6	1346.35	397.06	4565.14
127	11	25.6	82.9	2120.97	634.86	6869.43
128	12	56.8	241.1	13686.31	3221.97	58136.81
129	1	130.2	802.2	104408.90	16939.67	643531.73
130	2	145.5	670.7	97570.12	21165.72	449780.60
131	3	218.6	1092.0	238729.31	47795.24	1192413.51
132	4	174.5	514.4	100038.22	37820.37	264609.90
133	5	106.6	280.4	29392.01	11361.36	78646.58
134	6	59.9	177.5	10621.76	3532.34	31493.92
135	7	44.0	138.1	6074.34	1934.75	19070.98
136	8	32.7	115.8	3781.43	1066.07	13413.02
137	9	23.7	97.2	2308.12	563.53	9453.74
138	(72/73-10)	18.0	50.2	1440.47	322.27	6438.61
139	11	19.3	80.2	1546.10	371.34	6437.34
140	12	28.4	139.2	3947.52	804.45	19370.95
141	1	40.3	347.5	13990.03	1620.91	120747.83
142	2	72.0	795.3	57238.87	5180.00	632488.60
143	3	92.9	1100.8	102222.76	8623.72	1211715.71
144	4	53.0	541.0	28697.85	2813.99	292668.79
145	5	30.3	279.6	8473.44	918.15	78199.57
146	6	20.2	183.5	3707.23	409.06	33680.45
147	7	17.2	138.6	2380.29	294.92	19211.60
148	8	14.6	111.4	1626.47	212.79	12420.40
149	9	12.2	82.9	1014.36	149.83	6867.46
150	(73/74-10)	12.2	58.5	713.09	148.37	3427.28

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X ²	Y ²
151	11	21.6	60.4	1303.68	465.10	3654.19
152	12	30.1	293.9	8837.62	904.26	86373.25
153	1	78.8	1125.3	88636.26	6204.01	1266340.36
154	2	168.4	2866.1	482754.33	28370.38	8214615.89
155	3	201.1	2862.2	575733.51	40460.47	8192417.02
156	4	163.6	1892.9	309679.32	26764.02	3583216.47
157	5	81.9	559.0	45780.04	6705.84	312535.51
158	6	47.7	263.4	12574.54	2278.80	69387.04
159	7	33.8	170.6	5760.92	1140.19	29107.66
160	8	24.6	115.2	2831.47	604.13	13270.77
161	9	17.4	67.1	1169.85	304.14	4499.83
162	(74/75-12)	183.0	374.4	68493.16	33471.37	140158.95
163	1	152.4	1053.1	160505.26	23229.90	1108999.14
164	2	294.2	999.4	294031.56	86561.86	998760.39
165	3	229.4	2130.2	488667.63	52625.55	4537645.05
166	4	102.3	839.9	85955.83	10474.74	705354.16
167	5	57.9	409.6	23719.65	3354.15	167738.72
168	6	40.3	169.4	6819.79	1620.46	28701.52
169	7	30.4	11.8	356.99	922.60	138.13
170	8	22.0	2.7	59.29	485.50	7.24
171	(75/76-10)	15.7	2.8	44.08	244.98	7.93
172	11	15.7	5.2	82.40	247.58	27.43
173	12	40.8	298.0	12167.92	1667.45	88793.29
174	1	130.6	992.4	129631.71	17062.51	984871.74
175	2	227.4	2017.0	458754.41	51731.97	4068192.11
176	3	337.0	3297.4	1111283.27	113578.15	10873134.19
177	4	381.0	2162.3	823808.01	145153.42	4675464.19
178	5	208.4	694.3	144703.15	43442.75	481990.72
179	6	105.5	376.6	39745.46	11136.68	141846.71
180	7	69.6	122.9	8556.46	4845.04	15110.90
181	8	49.9	7.5	373.85	2493.59	56.05
182	9	36.5	1.3	47.29	1334.85	1.68
183	(76/77-10)	25.5	1.1	29.01	648.53	1.30
184	11	26.3	4.9	130.31	694.29	24.46
185	12	44.9	176.8	7944.14	2019.33	31252.59
186	1	187.3	1088.8	203976.22	35098.31	1185421.65
187	2	353.0	1997.0	704889.62	124591.72	3987980.63
188	3	61.0	15.4	941.12	3724.55	237.80
189	4	44.4	77.8	3452.57	1967.43	6058.77
190	5	35.0	101.4	3547.10	1222.93	10288.31
191	6	24.5	77.5	1894.65	597.88	6004.01
192	(77/78-10)	16.8	56.6	950.83	281.73	3209.03
193	11	17.8	52.3	930.38	316.38	2735.94
194	12	89.4	310.7	27793.93	8000.02	96562.65
195	1	205.8	1377.3	386389.48	42363.94	3524148.67
196	2	383.7	3218.6	1234997.82	147233.86	10359163.26
197	3	223.2	512.3	114353.23	49821.54	262470.03
198	4	122.9	262.5	32257.89	15098.90	68917.06
199	5	83.9	171.0	14349.76	7041.58	29242.79
200	6	59.3	90.7	5379.09	3521.06	8217.56

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
201	9	42.9	39.7	1703.30	1838.10	1578.40
202	(78/79-10)	31.0	18.8	582.55	960.34	353.38
203	11	45.3	21.3	964.81	2048.65	454.37
204	12	129.2	1045.6	135066.97	16688.16	1093175.29
205	1	189.9	1038.1	197185.25	36077.26	1077743.37
206	2	247.4	1112.2	275169.87	61213.47	1236957.49
207	3	385.4	2400.9	925407.99	148570.37	5764136.89
208	4	365.1	1355.1	494725.09	133294.03	1836188.13
209	(80/81-10)	32.0	73.7	2360.39	1026.50	5427.62
210	11	29.1	61.6	1793.82	847.01	3799.01
211	12	57.5	449.3	25822.93	3302.86	201892.97
212	1	138.8	788.2	109401.42	19266.07	621230.55
213	2	223.8	2290.5	512546.84	50071.53	5246579.99
214	3	331.2	1840.4	609581.79	109703.23	3387229.00
215	4	197.3	496.0	97855.05	38922.57	246016.93
216	5	119.8	338.5	40567.58	14362.50	114585.06
217	6	68.1	159.1	10834.95	4636.28	25321.21
218	7	49.6	114.5	5671.63	2455.71	13099.06
219	8	37.2	83.3	3101.59	1387.49	6933.31
220	9	27.2	62.4	1697.96	740.02	3895.90
221	(81/82-10)	19.2	45.8	879.79	369.38	2095.44
222	11	18.1	34.2	619.36	328.71	1167.01
223	12	32.2	55.2	1774.75	1035.51	3041.72
224	1	65.6	772.1	50674.89	4307.74	596122.58
225	2	177.6	2176.4	386510.67	31540.16	4736517.35
226	3	131.3	933.2	122541.13	17241.28	870952.15
227	4	83.3	365.4	30428.25	6932.94	133547.71
228	5	63.8	232.0	14797.27	4068.51	53813.06
229	6	36.8	108.6	3994.22	1351.78	11802.00
230	7	26.5	75.0	1990.28	703.65	5629.58
231	8	22.2	50.5	1118.40	490.74	2548.82
232	(82/83-10)	18.8	27.3	513.51	354.34	744.16
233	11	23.7	34.1	807.58	561.60	1161.29
234	12	79.9	106.2	8483.99	6381.08	11279.93
235	1	106.4	289.7	30812.73	11315.21	83966.87
236	2	255.0	1064.2	271424.84	65048.39	1132563.68
237	3	168.3	667.6	112367.74	28332.11	445660.74
238	4	98.0	374.8	36713.78	9594.78	140482.76
239	5	57.2	263.8	11652.29	3267.68	41551.21
240	6	37.3	103.8	3873.39	1392.89	10771.25
241	7	30.4	78.1	2378.55	926.45	6106.63
242	8	24.3	54.0	1311.35	589.04	2919.39
243	9	18.2	42.9	779.19	330.50	1837.06
244	(83/84-10)	15.0	31.4	472.01	226.35	984.30
245	11	15.1	22.3	336.50	226.89	499.07
246	12	41.9	21.9	916.94	1753.85	479.40
247	1	126.4	824.9	104279.98	15979.46	680518.18
248	2	128.9	449.6	57935.27	16604.14	202148.16
249	3	167.0	1284.3	214459.28	27832.96	1649494.21
250	4	96.8	648.2	62760.37	9375.32	420131.19

NO	YEAR-MONTH	ST:X	ST:Y	X*Y	X^2	Y^2
251	5	40.9	239.0	9763.54	1668.99	57116.54
252	6	29.5	146.5	4313.95	867.50	21452.63
253	7	24.4	103.3	2516.55	593.45	10671.62
254	8	19.9	79.0	1570.15	395.20	6238.33
255	9	15.5	56.5	877.73	241.41	3191.30
256	(84/85-10)	13.9	43.4	603.04	193.04	1883.90
257	12	132.4	660.2	87440.43	17542.71	435840.66
258	1	199.5	1332.6	265904.38	39815.05	1775839.39
259	2	343.0	3044.0	1044138.18	117658.85	9265980.07
260	3	258.4	1457.8	373780.70	65737.00	2125317.53
261	4	205.2	957.3	196466.65	42116.35	916488.43
262	5	111.6	335.4	37422.99	12450.72	112481.81
263	6	62.4	213.9	13338.78	3888.53	45755.91
264	7	43.9	150.0	6584.85	1927.98	22490.02
265	8	34.1	116.1	3957.93	1161.58	13486.10
266	9	27.5	85.9	2362.82	756.99	7375.16
267	(85/86-10)	20.5	64.9	1328.46	418.80	4213.93
268	11	27.3	106.9	2914.22	742.95	11430.99
269	12	66.9	358.6	23995.70	4477.32	128602.40
270	3	358.6	1883.4	675315.95	128566.03	3547217.12
271	4	301.6	1506.9	454540.76	90986.92	2270736.37
272	5	179.4	873.0	102765.01	32169.68	328279.54
273	6	97.5	318.3	31046.31	9511.11	101341.83
274	7	64.6	243.7	15737.17	4170.14	59388.50
TOTAL		26859	155413	33473028	5396809	245998554
Y = a + b*X					a=	-79.62798
X = a' + b'*Y		(a'=-a/b, b'=1/b)			b=	6.59866
					a'=	12.06729
					b'=	0.15155
		Correlation Coefficient			c=	0.87318

