



เอกสารอ้างอิง

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ภาคผนวก ก.

โปรแกรมคอมพิวเตอร์ วิเคราะห์ข้อมูลสถิติปริมาณฝน

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01 C RAINFALL-FREQUENCY ANALYSIS
02 DIMENSION M(3),X(30),B(30),C(30),D(30),J(5)
03 WRITE(3,4)
04 4 FORMAT(3X,13HRAINFALL DATA//26X,22(1H*))
05 1 READ(2,5)N,J
06 WRITE(3,6)J
07 READ(2,1)(M(I),I=1,N)
08 READ(2,15)(X(I),I=1,N)
09 SX=1.0
10 D=11(I=1,N)
11 11 SX=SX+X(I)
12 AN=N
13 AV=SX/AN
14 D=22(I=1,N)
15 B(I)=X(I)-AV
16 C(I)=(X(I)-AV)**2
17 D(I)=(X(I)-AV)**3*(1.0+8.5/AN)
20 22 WRITE(3,16)M(I),X(I),B(I),C(I),D(I)
21 SC=1.0
22 SD=1.0
23 D=33(I=1,N)
24 SC=SC+C(I)
25 SD=SD+D(I)
26 33 S=SQR(SC/(AN-1.0))
27 CV=S/AV
28 CS=SD/(AN-1.0)**3
29 WRITE(3,36)N,CV,AV,CS
30 READ(2,2)K
31 IF(1-K)3,1,1
32 5 FORMAT(2,5A3)
33 1 FORMAT(2,4)
34 15 FORMAT(2,F4.1)
35 2 FORMAT(I1)
36 6 FORMAT(1H5,31X,5A3//37X,1H-,13X,3H- 2,8X,3H- 3/10X,4HYEAR,10X,1HX,
37 *9X,5H(X-X),9X,5H(X-X),6X,14H(X-X)(1+8.5/N)/)
38 16 FORMAT(1X,14,6X,F5.1,6X,F7.2,4X,F10.1,6X,F11.1)
39 26 FORMAT(36X,4HSUM,3X,F10.1,6X,F11.1/)
40 36 FORMAT(15X,4HM = , 2,1H,9X,21HCOEFF.OF VARIATION = ,F5.2/12X,7HME
41 *AN = ,F7.2,1H,4X,21HCOEFF.OF SKEW = ,F5.2)
42 3 WRITE(3,14)
43 14 FORMAT(///26X,22(1H*))
44 STOP
45 END

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*DATA

OBJECT MEMORY MAP

PROGRAM/DATA AREAS	BASE	LOCN	DATA	BASE	LOCN	PROG
CHAIN 01						
UNLAB COM	04547					
LABEL COM	04547					
ACBFPP	04547			04547		
ACBFXP	06236			06236		
ACBOIO	07466			07706		
BTDCON	12365			12446		
EFSCNV	15474			15474		
INTCON	20650			20650		
CUBCX2	22004			22004		
TODIAG	22113			22113		
000000	22131			26655		
ACBRIE	31320			31320		
SQRT	32323			32324		
ACBFLO	33077			33077		
IABS	33512			33527		

HIGHEST LOCATION 33636

P THUMWAN

YEAR	X	(X-X)	(X-X) ²	(X-X)(1+8.57N)
2486	82.0	-13.75	189.2	-3338.6
2487	108.0	12.25	150.0	2357.2
2488	90.0	-5.75	33.1	-244.4
2489	65.0	-30.75	945.8	-37326.4
2490	134.0	38.25	1462.8	71799.3
2491	76.0	-19.75	390.2	-9891.5
2492	5.	9.25	85.5	1014.6
2493	125.	29.25	855.4	32104.7
2494	72.	-23.75	564.2	-17199.4
2495	154.	58.25	3392.7	253602.0
2496	85.5	-10.25	105.1	-1383.4
2497	46.5	-49.25	2425.9	-153336.8
2498	9.2	-5.55	30.8	-219.8
2499	93.5	-2.25	5.1	-14.7
2500	188.5	92.75	8601.9	1023845.4
2501	57.3	-38.45	1478.7	-72969.5
2502	141.0	45.25	2047.3	118877.4
2503	69.9	-25.85	668.4	-22176.3
2504	122.1	26.35	694.1	23470.2
2505	88.2	-7.55	57.1	-553.0
25 6	13.4	7.65	58.5	573.8
25 7	1.	5.25	27.5	185.3
25 8	82.1	-13.65	186.4	-3266.3
25 9	7.8	-24.95	622.7	-19940.0
251	7.3	-25.45	647.9	-21162.8
2511	85.5	-10.25	105.1	-1383.4
2512	75.2	-20.55	422.4	-11142.6
2513	66.7	-29.5	844.1	-31472.2
2514	93.6	-2.15	4.6	-12.8
2515	130.3	34.55	1193.5	52912.5
		SJM.	28295.9	1173708.6

N = 30, COEFF. OF VARIATION = .33
 MEAN = 95.75, COEFF. OF SKEW = 1.33

PHRA KHANONG

YEAR	X	(X-X)	(X-X) ²	(X-X)(1+8.57N)
2486	8.	-6.15	37.8	-298.5
2487	12.	33.85	1145.8	49775.5
2488	76.8	-9.35	87.4	-1049.0
2489	98.5	12.35	152.5	2417.4
2490	93.0	6.85	46.9	412.5
2491	109.0	22.85	522.1	15310.8
2492	79.5	-6.65	44.2	-377.4
2493	98.1	11.95	142.8	2190.0
2494	93.	6.85	46.9	412.5
2495	12.5	16.35	267.3	5609.1
2496	82.2	-3.95	15.6	-79.1
2497	42.1	-44.75	1940.4	-109692.6
2498	94.0	7.85	61.6	620.8
2499	45.0	-41.15	1693.3	-89423.0
2500	66.1	-20.05	402.0	-10343.9
2501	44.5	-41.65	1734.7	-92722.4
25 2	87.3	-3.85	14.8	-73.2
25 3	41.6	-44.55	1984.7	-113470.4
25 4	122.5	36.35	1321.3	61638.6
25 5	94.8	8.65	74.8	830.6
2506	88.7	2.55	6.5	21.3
2507	98.9	12.75	162.6	2659.9
2508	73.9	-12.25	150.1	-2359.1
2509	120.6	34.45	1186.8	52469.5
251	73.8	-12.35	152.5	-2417.4
2511	133.4	47.25	2232.6	135377.0
2512	67.6	-18.55	344.1	-8191.6
2513	94.3	8.15	66.4	694.7
2514	65.1	-21.5	463.1	-11970.0
2515	102.7	16.55	273.9	5817.5
		SJM.	16755.8	-106209.9

N = 30, COEFF. OF VARIATION = .28

BANG CHEN

YEAR	X	(X-X)	(X-X) ⁻²	(X-X) ⁻³ (1+8.5/N)
2486	118.4	39.96	1596.9	83183.0
2487	73.	-5.44	29.6	-209.8
2488	1	21.56	464.9	13065.4
2489	5.5	-27.94	780.6	-28430.3
249	65.2	-13.24	175.3	-3025.0
2491	66.8	-11.64	135.5	-2055.5
2492	57.3	-21.14	446.9	-12314.2
2493	125.6	47.16	2224.1	136733.8
2494	93.1	14.66	214.9	4107.7
2495	92.9	14.46	209.1	3941.9
2496	81.5	3.06	9.4	37.4
2497	67.2	-11.24	126.3	-1850.8
2498	70.0	-8.44	71.2	-783.5
2499	64.5	-13.94	194.3	-3530.7
2500	85.1	6.66	44.4	385.2
2501	68.2	-10.24	104.8	-1399.4
25 2	83.1	4.66	21.7	132.0
25 3	59.9	-18.54	343.7	-8306.4
25 4	65.	-13.44	180.6	-3164.2
25 5	96.	17.56	308.4	7059.3
25 6	6.5	-17.94	321.8	-7525.8
25 7	114.	35.56	1264.6	58620.1
25 8	75.	-3.44	11.8	-53.0
25 9	71.8	-6.64	44.1	-381.5
251	4.5	-37.94	1439.4	-71187.3
2511	13.	51.56	2658.5	178686.4
2512	3.5	-47.94	2298.2	-143618.2
2513	90.7	12.26	150.3	2402.6
		SUM.	15871.2	200519.4

N = 28; COEFF. OF VARIATION = .31
 MEAN = 78.44; COEFF. OF SKEW = .52

BANG KAPI

YEAR	X	(X-X)	(X-X) ⁻²	(X-X) ⁻³ (1+8.5/N)
2493	98.5	-7.55	56.9	-570.2
2494	14.5	34.45	1187.1	54269.9
2495	95.4	-10.65	113.3	-1601.1
2496	88.	-18.05	325.7	-7798.3
2497	25.2	144.15	20780.3	3974883.9
2498	96.3	-9.75	95.0	-1228.4
2499	89.1	-16.95	287.2	-6457.4
25	94.1	-11.95	142.7	-2262.2
25 1	74.6	-31.45	988.9	-41261.8
25 2	97.4	-8.65	74.8	-857.7
25 3	85.4	-20.65	426.3	-11677.9
2504	55.4	-50.65	2565.0	-172379.3
2505	74.6	-31.45	988.9	-41261.8
2506	162.0	55.95	3130.8	232453.2
2507	193.6	87.55	7665.7	890576.9
2508	78.8	-27.25	742.4	-26838.7
2509	105.1	-9.95	.9	-1.1
2510	104.3	-1.75	3.0	-7.1
2511	122.1	16.05	257.7	5490.1
2512	72.6	-33.45	1118.6	-49646.0
2513	76.4	-29.65	878.9	-34574.1
2514	71.5	-34.55	1193.4	-54707.2
2515	182.2	76.15	5799.4	586031.9
2516	5.	-56.55	3141.2	-233605.6
2517	77.5	-28.55	814.9	-30866.6
2518	121.6	15.55	241.9	4993.0
		SUM.	53020.9	5031096.5

N = 26; COEFF. OF VARIATION = .43
 MEAN = 106.05; COEFF. OF SKEW = 1.206

L D KRABANG

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
2494	96.4	9.43	89.0	1124.4
2495	81.6	-5.37	28.8	-207.3
2496	81.6	-5.37	28.8	-207.3
2497	88.9	1.93	3.7	9.7
2498	64.6	-22.37	500.3	-14996.4
2499	63.2	-23.77	564.9	-17992.1
25	95.2	8.23	67.8	747.5
2501	107.6	20.63	425.7	11768.7
2502	63.1	-23.87	569.7	-18220.2
2503	82.4	-4.57	20.9	-127.7
2504	107.9	20.93	438.1	12289.6
25 5	83.2	-3.77	14.2	-71.7
25 6	192.8	105.83	11200.4	1588385.1
25 7	14.9	53.93	2908.7	210205.6
25 8	97.3	5.33	28.4	203.1
2509	99.2	12.23	149.6	2452.4
2510	69.1	-17.87	319.3	-7644.2
2511	98.7	11.73	137.6	2163.8
2512	59.8	-27.17	738.1	-26870.6
2513	86.8	-1.17	0	-0
2514	6.3	-26.67	711.2	-25414.2
2515	121.8	34.83	1213.3	56629.1
2516	51.3	-35.67	1272.2	-60805.2
2517	38.2	-48.77	2378.3	-155421.0
2518	47.3	-39.67	1573.6	-83642.3
		SUM.	25382.6	1474359.0

N = 25,
MEAN = 86.97,
COEFF. OF VARIATION = .37
COEFF. OF SKEW = 1.79

MIN BURI

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
2491	115.5	18.75	351.6	8592.9
2492	147.	50.25	2525.1	165402.9
2493	129.4	32.65	1066.0	45371.6
2494	95.0	-1.75	3.1	-7.0
2495	85.0	-11.75	138.1	-2114.7
2496	50.4	-46.35	2148.3	-129802.8
2497	1.1	3.35	11.2	49.0
2498	97.7	-4.75	16.4	-86.6
2499	93.1	-3.65	13.3	-63.4
25	13.3	33.55	1125.6	49228.0
25 1	8.5	-16.25	264.1	-5593.6
2502	79.1	-17.65	311.5	-7167.5
2503	83.4	-13.35	178.2	-3101.5
2504	58.7	-38.75	1447.8	-71812.3
2505	84.2	-12.55	157.5	-2576.7
25 6	65.2	-31.55	995.4	-40938.6
25 7	143.3	46.55	2166.9	131490.4
25 8	5.5	-46.25	2139.1	-128964.5
25 9	66.7	-30.5	930.0	-35372.7
251	89.3	-7.45	55.5	-539.0
2511	163.2	66.45	4415.6	382489.7
2512	90.8	-5.95	35.4	-274.6
2513	71.5	-25.25	637.6	-20985.5
2514	79.8	-16.95	287.3	-6348.1
2515	224.4	127.65	16294.5	2711423.1
2516	87.9	-13.85	191.8	-3463.3
2517	56.5	-40.25	1620.1	-85002.7
2518	1.5	3.75	14.1	68.7
		SUM.	39514.0	2949901.3

N = 28,
MEAN = 96.75,
COEFF. OF VARIATION = .40
COEFF. OF SKEW = 1.95

MONTH BURI

YEAR	X	(X-X)	(X-X) ²	(X-X) (+8.5/N)
2491	6 .	-40.79	1663.7	-90928.9
2492	187.1	86.31	7449.8	861625.1
2493	76.7	-24.09	580.2	-18728.7
2494	94.9	-5.89	34.7	-273.5
2495	137.3	36.51	1333.1	65224.6
2496	64.9	-35.89	1287.9	-61937.3
2497	44.9	-55.89	3123.5	-233916.3
2498	129.2	28.41	807.2	30733.4
2499	69.2	-31.59	997.8	-42234.9
2500	102.5	1.71	2.9	6.7
2501	50.3	-50.49	2549.0	-172452.4
2502	91.5	-9.29	86.3	-1073.7
2503	92.4	-8.39	70.4	-790.8
25 4	135.7	34.91	1218.8	57020.2
25 5	83.6	-17.19	295.4	-6804.3
25 6	9 .2	-10.59	112.1	-1590.5
25 7	167.5	66.71	4450.5	397847.5
2508	86.7	-14.09	198.5	-3746.7
2509	87.5	-13.29	176.6	-3144.0
2510	42.8	-57.99	3362.6	-261287.8
2511	69.7	-31.09	966.5	-40260.9
2512	78.9	-21.89	479.1	-1405.5
2513	58.6	-42.19	1779.8	-100617.1
2514	117.2	16.41	269.4	5923.6
2515	3 .4	199.61	39845.0	10657730.6
		SUM.	73140.7	11022272.4

N = 25, COEFF. OF VARIATION = .55
 MEAN = 100.79, COEFF. OF SKEW = 2.73

PAK KRET

YEAR	X	(X-X)	(X-X) ²	(X-X) (+8.5/N)
249	61.8	-23.52	553.0	-17254.5
2491	72 .	-13.32	177.3	-3132.6
2492	8 .	-5.32	28.3	-199.3
2493	36 .	-49.32	2432.0	-159145.0
2494	89.7	4.38	19.2	111.9
2495	92.5	7.18	51.6	492.1
2496	65.4	-19.92	396.6	-10481.2
2497	75.5	-9.82	96.3	-1254.8
2498	66.3	-19.02	361.6	-9123.5
2499	60.3	-25.02	625.8	-20771.5
2500	102.2	16.88	285.1	6387.3
2501	56.2	-29.12	847.7	-32750.2
2502	116.8	31.48	991.3	41413.4
25 3	87.3	1.98	3.9	10.4
25 4	98.1	12.78	163.4	2772.7
25 5	94.4	9 .8	82.5	994.9
25 6	96.4	11 .8	122.9	1807.2
25 7	15 .4	65 .8	4236.0	365831.2
25 8	94.3	8.98	80.7	962.4
25 9	94.6	9.28	86.2	1062.0
251	54.7	-30.52	937.3	-38077.2
2511	64.3	-21.02	441.6	-12315.7
2512	77.2	-8.12	65.9	-709.2
2513	67.2	-18.12	328.2	-7888.4
2514	116.8	31.48	991.3	41413.4
2515	147.8	62.48	3904.3	323716.7
		SUM.	18310.1	473872.6

N = 26, COEFF. OF VARIATION = .32
 MEAN = 85.32, COEFF. OF SKEW = .96

PITHUM THANI

YEAR	X	(X-X)	(X-X) ²	(X-X)(i+8.5AN)
2486	144.8	56.77	3222.8	234799.0
2487	143.4	55.37	3065.8	217852.7
2488	68.5	-19.53	381.4	-9559.7
2489	97.5	2.47	6.1	19.3
2490	98.0	9.97	99.4	1271.8
2491	83.3	-4.73	22.4	-135.8
2492	76.5	-11.53	132.9	-1967.1
2493	60.2	-27.83	774.5	-27661.7
2494	59.4	-28.63	819.7	-30116.4
2495	75.	-13.3	169.8	-2839.0
2496	71.2	-16.83	283.2	-6117.8
2497	93.	4.97	24.7	157.5
2498	96.2	8.17	66.7	699.9
2499	78.1	-9.93	98.6	-1256.6
2500	102.9	14.87	221.1	4219.6
2501	92.5	4.47	20.0	114.6
25 2	98.7	10.67	113.8	1559.0
25 3	177.3	19.27	371.3	9183.0
25 4	95.1	7.7	50.0	453.5
25 5	76.1	-11.93	142.3	-2179.0
25 6	84.2	-3.83	14.7	-72.1
2507	115.7	27.67	765.6	27187.4
2508	76.5	-11.53	132.9	-1967.1
2509	51.1	-36.93	1363.8	-64636.4
2510	89.4	1.37	1.9	3.3
2511	54.1	-33.93	1151.2	-50129.2
2512	81.3	-6.73	45.3	-39.2
2513	98.3	10.27	105.5	1390.1
2514	69.4	-18.63	347.1	-8298.1
2515	117.2	22.17	491.5	13984.2
		SJM.	14506.3	305567.6

N = 30, COEFF. OF VARIATION = .25
 MEAN = 88.03, COEFF. OF SKEW = .94

RANGSIT

YEAR	X	(X-X)	(X-X) ²	(X-X)(i+8.5AN)
2492	118.4	21.70	471.1	13845.3
2493	80.5	-16.20	262.3	-5752.8
2494	82.0	-14.70	216.0	-4297.9
2495	92.2	-4.50	20.2	-123.1
2496	94.5	-2.20	4.8	-14.3
2497	88.0	-8.70	75.6	-890.4
2498	93.7	-3.00	9.0	-36.4
2499	76.3	-20.40	416.0	-11489.4
2500	128.8	32.10	1030.7	44808.1
25 1	68.1	-28.60	817.7	-31665.1
25 2	71.6	-25.10	629.8	-21403.1
25 3	85.6	-11.10	123.1	-1849.9
25 4	97.5	.80	.6	.7
25 5	63.6	-33.10	1095.3	-49089.9
25 6	88.7	-8.00	63.9	-692.3
25 7	177.6	73.90	5461.8	54661.7
25 8	51.5	-45.20	2042.7	-125016.5
25 9	51.	-45.70	2088.1	-12921.7
251	114.5	17.80	317.0	7642.5
2511	117.6	13.90	193.3	3640.0
2512	122.	25.30	640.3	21940.6
2513	65.3	-31.40	985.7	-41907.2
2514	85.2	-11.50	132.2	-2057.3
2515	227.5	123.80	15327.5	2569673.2
		SJM.	32424.7	2782664.9

N = 24, COEFF. OF VARIATION = .39
 MEAN = 96.70, COEFF. OF SKEW = 2.29

THANY/BURI

YEAR	X	(X-X)	(X-X) ²	(X-X) (+8.5AN)
2495	156.7	56.00	3135.5	240461.5
2496	102.4	1.70	2.9	6.7
2497	89.4	-11.30	127.8	-1978.4
2498	91.5	-9.20	84.7	-1068.0
2499	81.5	-19.20	368.8	-9700.2
2500	136.3	35.60	1267.1	61769.4
2501	70.1	-30.60	936.6	-39258.4
2502	70.9	-29.80	888.3	-36259.5
2503	99.5	-1.20	1.5	-2.4
25 4	9 .6	-10.10	102.1	-1412.9
25 5	63.8	-36.90	1361.9	-68836.0
25 6	88.7	-12.00	144.1	-2369.2
25 7	17 .4	69.70	4857.5	463660.2
25 8	66.6	-34.10	1163.1	-54326.5
25 9	57.9	-42.80	1832.2	-107410.4
251	1 .2	-5.50	.3	-.2
2511	112.2	11.50	132.2	2080.6
2512	92.	-8.70	75.8	-903.2
2513	9 .9	-9.80	96.1	-1290.7
2514	98.1	-2.60	6.8	-24.2
2515	258.7	158.00	24962.6	5401546.6
2516	78.1	-22.60	511.0	-15818.3
2517	49.7	-51.00	2601.4	-181720.7
		SUM.	44660.2	5647145.9

N = 23, COEFF. OF VARIATION = .45
 MEAN = 100.70, COEFF. OF SKEW = 2.81

K-LONG LUANG

YEAR	X	(X-X)	(X-X) ²	(X-X) (+8.5AN)
2495	92.2	-12.94	167.4	-2932.4
2496	70.6	-34.54	1192.8	-55788.5
2497	87.0	-18.14	329.0	-8079.9
2498	101.9	-3.24	10.5	-46.0
2499	71.5	-33.64	1131.5	-51539.9
25	18.4	3.26	10.6	47.0
25 1	163.	57.86	3348.1	262339.5
25 2	8 .	-25.14	631.9	-21509.9
25 3	12 .	14.86	220.9	4445.8
25 4	96.2	-8.94	79.9	-966.8
25 5	18.7	3.56	12.7	61.2
25 6	8 .4	-24.74	611.9	-20499.3
2507	161.0	55.86	3120.6	236065.9
2508	89.7	-15.44	238.3	-4982.0
2509	65.6	-39.54	1563.2	-83695.0
2510	42.8	-62.34	3886.0	-328035.1
2511	92.2	-12.94	167.4	-2932.4
2512	93.6	-11.54	133.1	-2079.7
2513	11.6	-3.54	12.5	-59.9
2514	9 .7	-14.44	208.4	-4075.2
2515	25 .8	145.66	21217.6	4185192.1
2516	117.2	12.06	145.5	2376.8
2517	18 .4	75.26	5664.4	577308.6
2518	57.8	-47.34	2240.8	-143644.2
		SUM.	46345.1	4536970.8

N = 24, COEFF. OF VARIATION = .43
 MEAN = 105.14, COEFF. OF SKEW = 2.18

LIM LUK KA

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
2494	94.3	-1.39	1.9	-3.7
2495	91.4	-4.29	18.4	-109.5
2496	104.7	9.01	81.2	1013.7
2497	64.3	-31.39	985.4	-42883.4
2498	107.4	11.71	137.1	2225.6
2499	96.8	1.11	1.2	1.9
25	95.8	.11	.0	0.0
25 1	114.7	19.11	361.3	9522.7
25 2	56.7	-38.99	1520.3	-82180.2
25 3	94.4	-1.29	1.7	-3.0
25 4	143.	47.31	2238.2	146794.9
25 5	72.5	-23.19	537.8	-17291.4
25 6	111.5	5.81	33.7	271.8
25 7	13.	7.31	53.4	541.3
25 8	78.3	-17.39	302.4	-7292.0
25 9	11.5	4.81	23.1	154.2
2510	89.6	-6.09	37.1	-313.3
2511	75.6	-20.09	403.6	-11242.8
2512	90.0	-5.69	32.4	-255.5
2513	97.5	1.81	3.3	8.2
2514	110.4	14.71	216.4	4412.0
2515	122.8	27.11	734.9	27619.9
		SJM.	7724.9	30991.4

N = 22, COEFF. OF VARIATION = .20
 MEAN = 95.69, COEFF. OF SKEW = .21

SAMUT RAKAN

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
2491	55.	-36.26	1315.1	-62168.8
2492	95.	3.74	14.0	68.0
2493	59.	-32.26	1041.0	-43782.5
2494	82.4	-8.86	78.6	-908.0
2495	91.9	-3.36	.1	-.1
2496	85.1	-6.16	38.0	-305.3
2497	89.6	-1.66	2.8	-6.0
2498	86.2	-5.06	25.6	-169.3
2499	84.2	-7.06	49.9	-459.6
2500	142.8	51.54	2655.9	178426.7
2501	106.8	15.54	241.4	4888.0
2502	95.1	3.84	14.7	73.6
2503	90.6	-.66	.4	-.4
2504	74.2	-17.06	291.2	-6477.4
2505	120.5	29.24	854.7	32574.4
2506	80.8	-10.46	109.5	-1493.7
25 7	117.2	15.94	253.9	5275.3
25 8	95.3	4.04	16.3	85.7
25 9	87.	-4.26	18.2	-101.1
251	86.2	-5.06	25.6	-169.3
2511	82.6	-8.66	75.1	-847.9
2512	65.6	-25.66	658.7	-22035.5
2513	96.4	5.14	26.4	176.6
2514	79.5	-11.76	138.4	-2122.4
2515	121.5	29.24	854.7	32574.4
2516	82.4	-8.86	78.6	-908.0
2517	81.5	-10.76	115.9	-1625.9
2518	134.	42.74	1826.3	101743.7
		SJM.	10821.0	212305.2

N = 28, COEFF. OF VARIATION = .22
 MEAN = 91.26, COEFF. OF SKEW = .98

BANG PHLI

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
2493	57.5	-30.42	925.2	-38543.3
2494	78.5	-9.42	88.7	-1143.9
2495	47.5	-47.42	2248.4	-146014.4
2496	40.0	-47.92	2296.1	-150682.3
2497	50.5	-37.42	1400.1	-71746.9
2498	58.0	-29.92	895.1	-36673.6
2499	99.4	11.48	131.9	2073.5
25	97.8	9.88	97.7	1321.9
25 1	64.8	-23.12	534.4	-16920.0
25 2	96.2	8.28	68.6	778.2
25 3	124.7	36.78	1353.0	68157.0
25 4	12.2	32.28	1042.2	46777.5
25 5	114.	26.78	680.3	24307.7
25 6	161.5	73.58	5414.4	545642.6
25 7	111.2	13.28	176.4	3209.5
25 8	12.8	14.88	221.5	4514.6
25 9	84.5	-3.42	11.7	-54.7
251	64.1	-23.82	567.3	-18504.0
2511	13.	15.78	227.5	4699.1
2512	79.8	-8.12	65.9	-732.5
2513	11.1	12.18	148.4	2476.3
2514	96.5	8.58	73.7	865.8
2515	86.5	-1.42	2.0	-3.9
		SJM.	18670.2	223098.1

N = 23, COEFF. OF VARIATION = .33
 MEAN = 87.92, COEFF. OF SKEW = .41

*2642286 F

ภาคผนวก ข.

โปรแกรมคอมพิวเตอร์ วิเคราะห์ข้อมูลสถิติระดับน้ำหลาก

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01 C FLOOD=FREQUENCY ANALYSIS
02 DIMENSION M(3 ),X(30),B(30),C(30),D(30),J(6)
03 WRITE(3,4)
04 4 F R M A T (34X,10HFLOOD DATA///26X,22(1H*))
05 1 READ(2,5)N,J
06 WRITE(3,6)J
07 READ(2,1 )(M(I), I=1,N)
08 READ(2,15)(X(I),I=1,N)
09 SX=.0
10 D(11)I=1,N
11 SX=SX+X(I)
12 AN=N
13 AV=SX/AN
14 D(22)I=1,N
15 B(I)=X(I)-AV
16 C(I)=(X(I)-AV)**2
17 D(I)=(X(I)-AV)**3*(1.0+8.57/AN)
20 22 W R I T E (3,16)M(I),X(I),B(I),C(I),D(I)
21 SC=.0
22 SD=.0
23 D(33)I=1,N
24 SC=SC+C(I)
25 SD=SD+D(I)
26 33 W R I T E (3,26)SC,SD
27 S=SQRT(SC/(AN-1.0))
28 CV=S/AV
29 CS=SD/((AN-1.0)**3)
30 W R I T E (3,36)N,CV,AV,CS
31 READ(2,2)K
32 IF(1-K)3,1,1
33 5 F R M A T (12,6A3)
34 1 F R M A T (2,4)
35 15 F R M A T (24F3.2)
36 2 F R M A T (11)
37 6 F R M A T (1H5,31X,6A3//37X,1H-,13X,3H- 2,8X,3H- 3/10X,4HYEAR,10X,1HX,
38 *9X,5H(X-X),9X,5H(X-X),6X,14H(X-X)(1+8.5/N)/)
39 16 F R M A T (1X,14,6X,F6.2,6X,F7.3,4X,F10.4,6X,F11.5)
40 26 F R M A T (36X,4HSUM,3X,F10.4,6X,F11.5/)
41 36 F R M A T (15X,4HN = ,12,1H,9X,21HCoeff.OF VARIATION = ,F5.2/12X,7HME
42 *AN = ,F7.2,1H,,4X,21HCoeff.OF SKEW = ,F5.2)
43 3 W R I T E (3,14)
44 14 F R M A T (///26X,22(1H*))
45 STOP
46 END

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*DATA

OBJECT MEMORY MAP

PROGRAM/DATA AREAS	BASE LOCN DATA	BASE LOCN PROG
CHAIN 01		
UNLAB COM	04547	
LABEL COM	04547	
ACBFPP	04547	04547
ACBFXP	06236	06236
ACBOIO	07466	07706
BIDCON	12365	12446
EFGCNV	15474	15474
INTCON	20650	20650
CJBCX2	22004	22004
IODIAG	22113	22113
O'0000	22131	26655
ACBRIE	31320	31320
SQRT	32323	32324
ACBFLO	33077	33077
IABS	33512	33527
HIGHEST LOCATION		33636

FLOOD DATA

CHIANG RAK YAI (C)

YEAR	X	(X-X)	(X-X) ²	(X-X) ³ / (1+8.57N)
2500	2.21	-.103	.0106	-.00156
25 1	2.24	-.073	.0053	-.00055
25 2	2.56	.247	.0610	.02147
25 3	2.26	-.053	.0028	-.00021
25 4	2.42	.107	.0114	.00175
2505	2.48	.167	.0279	.00664
2506	2.26	-.053	.0028	-.00021
2507	2.78	.467	.2181	.14513
2508	2.13	-.183	.0335	-.00873
25 9	2.38	.067	.0045	.00043
251	2.13	-.183	.0335	-.00873
2511	2. 7	-.243	.0590	-.02045
2512	2.17	-.143	.0204	-.00417
2513	2.49	.177	.0313	.00790
2514	2.28	-.033	.0011	-.00005
2515	2.23	-.083	.0069	-.00081
2516	2.18	-.133	.0177	-.00335
2517	2.27	-.043	.0018	-.00011
2518	2.52	.307	.0942	.04 23
2519	2.1	-.213	.0454	-.01377
		SJM.	.6894	.16183

N = 20, COEFF. OF VARIATION = .08
 MEAN = 2.31, COEFF. OF SKEW = 1.23

CHIANG RAK YAI (R)

YEAR	X	(X-X)	(X-X) ²	(X-X) ³ / (1+8.57N)
25	1.98	.014	.0002	.00000
2501	1.50	-.467	.2176	-.14467
2502	2.56	.594	.3522	.29790
2503	1.74	-.227	.0513	-.01656
2504	2.38	.414	.1710	.10075
25 5	2.42	.454	.2057	.13291
25 6	2.15	.184	.0337	.00880
25 7	2.78	.814	.6618	.76716
25 8	1.43	-.537	.2878	-.22005
2509	1.90	-.067	.0044	-.00042
2510	1.55	-.417	.1735	-.10296
2511	1.10	-.867	.7508	-.92709
2512	2.02	.054	.0029	.00022
2513	2.47	.504	.2535	.18189
2514	1.94	-.027	.0007	-.00003
2515	1.5	-.467	.2176	-.14467
2516	1.64	-.327	.1066	-.04960
2517	1.87	-.097	.0093	-.00128
2518	2.62	.654	.4271	.39770
2510	1.78	-.187	.0348	-.00924
		SJM.	3.9625	.27078

N = 20, COEFF. OF VARIATION = .23
 MEAN = 1.97, COEFF. OF SKEW = .15

CHULALONGKORN(C)

YEAR	X	(X-X̄)	(X-X̄) ²	(X-X̄) ³ / (1+8.54N)
25	2.3	.104	.0108	.00160
2501	2.12	-.076	.0058	-.00063
2502	2.47	.274	.0751	.02931
2503	2.12	-.076	.0058	-.00063
2504	2.28	.084	.0071	.00084
25 5	2.3	.104	.0108	.00160
25 6	2.2	.004	.0000	0.00000
25 7	2.6	.404	.1632	.09396
25 8	2.	-.196	.0384	-.01073
2509	2.17	-.026	.0007	-.00003
2510	2.07	-.126	.0159	-.00285
2511	2.06	-.136	.0185	-.00358
2512	2.11	-.086	.0074	-.00091
2513	2.34	.144	.0207	.00426
2514	2. 9	-.106	.0112	-.00170
2515	2.	-.196	.0384	-.01073
2516	2.03	-.166	.0276	-.00652
2517	2.12	-.076	.0058	-.00063
2518	2.46	.264	.0697	.02622
2519	2.08	-.116	.0135	-.00222
		SJM.	.5463	.11666

N = 20, COEFF. OF VARIATION = .08
 MEAN = 2.2, COEFF. OF SKEW = 1.25

CHULALONGKORN(R)

YEAR	X	(X-X̄)	(X-X̄) ²	(X-X̄) ³ / (1+8.54N)
25	2.24	.215	.0460	.01406
2501	1.56	-.466	.2167	-.14374
2502	2.42	.395	.1556	.08749
2503	1.94	-.086	.0073	-.00089
2504	2.25	.225	.0504	.01612
25 5	2.28	.255	.0648	.02349
25 6	2.14	.115	.0131	.00214
25 7	2.52	.495	.2445	.17231
25 8	1.57	-.356	.1264	-.06402
2509	2.00	-.026	.0007	-.00002
2510	1.79	-.236	.0555	-.01861
2511	1.25	-.776	.6014	-.66460
2512	2. 3	.005	.0000	0.00000
2513	2.37	.345	.1187	.05826
2514	1. 9	-.126	.0158	-.00282
2515	1.85	-.176	.0308	-.00770
2516	1.80	-.226	.0509	-.01634
2517	2.04	.015	.0002	.00000
2518	2.57	.545	.2965	.23004
2519	1.89	-.136	.0184	-.00355
		SJM.	2.1135	-.31837

N = 20, COEFF. OF VARIATION = .16
 MEAN = 2. 3, COEFF. OF SKEW = -.45

LAK ST (C)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
251	1.95	-.072	.0052	-.00069
2511	1.89	-.132	.0174	-.00425
2512	1.96	-.062	.0038	-.00044
2513	2.09	.068	.0046	.00058
2514	2.00	-.022	.0005	-.00002
2515	2.00	-.022	.0005	-.00002
2516	1.89	-.132	.0174	-.00425
2517	2.15	.128	.0164	.00388
2518	2.27	.248	.0615	.02822
2519	2.02	-.002	0.0000	-.00000
		SUM.	.1274	.02300

N = 10, COEFF. OF VARIATION = .06
 MEAN = 2.2, COEFF. OF SKEW = 1.52

LAK ST (R)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
251	1.65	-.182	.0331	-.01115
2511	1.74	-.092	.0085	-.00244
2512	1.80	-.032	.0010	-.00006
2513	1.77	-.062	.0038	-.00044
2514	1.75	-.082	.0067	-.00102
2515	1.88	.048	.0023	.00020
2516	1.77	-.062	.0038	-.00044
2517	1.97	.138	.0190	.00486
2518	2.5	.318	.1011	.05949
2519	1.84	.008	.0001	0.00000
		SUM.	.1796	.05000

N = 10, COEFF. OF VARIATION = .08
 MEAN = 1.83, COEFF. OF SKEW = 1.97

BANG KHEN (C)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
2501	1.76	-.155	.0241	-.00562
2502	2.04	.125	.0156	.00291
2503	1.72	-.195	.0381	-.01117
2504	1.85	-.065	.0043	-.00042
25 5	1.92	.0 5	.0000	0.00000
25 6	1.82	-.095	.0091	-.00130
25 7	2.16	.245	.0599	.02198
25 8	1.82	-.095	.0091	-.00130
25 9	1.83	-.085	.0073	-.00093
251	1.8	-.115	.0133	-.00230
2511	1.90	-.015	.0002	-.00001
2512	1.95	.035	.0012	.00006
2513	2.17	.255	.0649	.02479
2514	1.97	.055	.0030	.00025
2515	1.98	.055	.0042	.00041
2516	1.97	.055	.0030	.00025
2517	1.9	-.015	.0002	-.00001
		SUM.	.2574	.02759

N = 17, COEFF. OF VARIATION = .07
 MEAN = 1.92, COEFF. OF SKEW = .84

BANG KHEN (R)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
2501	1.62	-.188	.0352	-.00991
2502	2.04	.232	.0540	.01882
2503	1.66	-.148	.0218	-.00483
2504	1.80	-.008	.0001	-.00000
25 5	1.82	.012	.0002	.00000
25 6	1.77	-.038	.0014	-.00008
25 7	2.16	.352	.1242	.06562
25 8	1.48	-.328	.1074	-.05276
25 9	1.74	-.068	.0046	-.00046
251	1.68	-.128	.0163	-.00312
2511	1.42	-.388	.1503	-.08738
2512	1.72	-.088	.0077	-.00101
2513	2.16	.352	.1242	.06562
2514	1.88	.072	.0052	.00057
2515	1.95	.142	.0203	.00433
2516	1.94	.132	.0175	.00348
2517	1.89	.082	.0068	.00084
		SUM.	.6969	-.00029

N = 17, COEFF. OF VARIATION = .12
 MEAN = 1.81, COEFF. OF SKEW = -.00

PREM BANG ZU (C)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
25	1.68	-.155	.0240	-.00548
25 1	1.72	-.115	.0132	-.00224
2502	1.92	.085	.0072	.00090
2503	1.68	-.155	.0240	-.00548
2504	1.78	-.055	.0030	-.00024
2505	1.80	-.035	.0012	-.00006
25 6	1.82	-.015	.0002	-.00000
25 7	2. 1	.175	.0306	.00789
25 8	1.68	-.155	.0240	-.00548
25 9	1.75	-.085	.0072	-.00090
2510	1.81	-.025	.0006	-.00002
2511	1.78	-.055	.0030	-.00024
2512	1.89	.055	.0030	.00024
2513	2.08	.245	.0600	.02165
2514	1.88	.045	.0020	.00013
2515	1.87	.035	.0012	.00006
2516	1.9	.065	.0042	.00040
2517	1.98	.145	.0210	.00449
		SUM.	.2301	.01561

N = 18, COEFF. OF VARIATION = .06
 MEAN = 1.84, COEFF. OF SKEW = .58

PREM BANG ZU (R)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (1+8.5/N)
2500	1.66	-.031	.0009	-.00004
2501	1.36	-.331	.1093	-.05317
2502	1.84	.149	.0223	.00491
2503	1.58	-.111	.0122	-.00199
2504	1.78	.089	.0080	.00105
2505	1.76	.069	.0048	.00049
25 6	1.58	-.011	.0001	-.00000
25 7	1.98	.289	.0838	.03570
25 8	1.36	-.331	.1093	-.05317
25 9	1.58	-.111	.0122	-.00199
251	1.43	-.261	.0679	-.02604
2511	1.46	-.231	.0532	-.01804
2512	1.53	-.061	.0037	-.00033
2513	2. 7	.379	.1440	.08043
2514	1.71	.019	.0004	.00001
2515	1.70	.009	.0001	.00000
2516	1.88	.189	.0359	.01001
2517	1.97	.279	.0781	.03213
		SUM.	.7461	.00995

N = 18, COEFF. OF VARIATION = .12
 MEAN = 1.69, COEFF. OF SKEW = .06

BANG ZU (C)

YEAR	X	(X-X)	(X-X) ²	(X-X) ³ (1+8.5/N)
2503	1.50	-.188	.0354	-.01000
2504	1.55	-.138	.0191	-.00396
2505	1.61	-.078	.0061	-.00072
2506	1.65	-.038	.0015	-.00008
25 7	1.73	.042	.0017	.00011
25 8	1.63	-.058	.0034	-.00030
25 9	1.58	-.108	.0117	-.00190
251	1.53	-.158	.0250	-.00594
2511	1.59	-.098	.0097	-.00142
2512	1.64	-.048	.0023	-.00017
2513	1.76	.072	.0052	.00055
2514	1.76	.072	.0052	.00055
2515	1.80	.112	.0125	.00209
2516	1.74	.052	.0027	.00021
2517	1.76	.072	.0052	.00055
2518	1.92	.232	.0537	.01867
2519	1.95	.262	.0685	.02690
		SUM.	.2688	.02515

N = 17, COEFF. OF VARIATION = .08
 MEAN = 1.69, COEFF. OF SKEW = .72

BANG ZU (R)

YEAR	X	(X-X)	(X-X) ²	(X-X) ³ (1+8.5/N)
2503	1.50	-.092	.0084	-.00116
2504	1.54	-.052	.0027	-.00021
2505	1.59	-.002	0.0000	-.00000
25 6	1.6	.008	.0001	0.00000
25 7	1.73	.138	.0191	.00396
25 8	1.4	-.192	.0368	-.01058
25 9	1.38	-.212	.0448	-.01424
251	1.32	-.272	.0739	-.03011
2511	1.2	-.392	.1535	-.09019
2512	1.54	-.052	.0027	-.00021
2513	1.60	.008	.0001	0.00000
2514	1.68	.088	.0078	.00103
2515	1.78	.188	.0354	.01000
2516	1.62	.028	.0008	.00003
2517	1.71	.118	.0140	.00248
2518	2. 4	.448	.2009	.13509
2519	1.83	.238	.0568	.02028
		SUM.	.6576	.02618

N = 17, COEFF. OF VARIATION = .13
 MEAN = 1.59, COEFF. OF SKEW = .20

D PHRAO (C)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X)(1+8.5/N)
251	1.6	-.156	.0243	-.00702
2511	1.68	-.076	.0058	-.00081
2512	1.7	-.056	.0031	-.00032
2513	1.79	.034	.0012	.00007
2514	1.75	-.036	.0009	-.00000
2515	1.89	.134	.0180	.00445
2516	1.76	.004	.0009	0.00000
2517	1.75	-.076	.0009	-.00000
2518	1.8	.044	.0019	.00016
2519	1.84	.084	.0071	.0010
		SUM.	.0614	-.00238

N = 10, COEFF. OF VARIATION = .05
 MEAN = 1.76, COEFF. OF SKEW = -.47

D PHRAO (R)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X)(1+8.5/N)
251	1.37	-.166	.0276	-.00846
2511	1.46	-.076	.0058	-.00081
2512	1.54	.004	.0009	0.00000
2513	1.50	-.036	.0013	-.00009
2514	1.40	-.136	.0185	-.00465
2515	1.75	.214	.0458	.01813
2516	1.4	-.136	.0185	-.00465
2517	1.6	.064	.0041	.00048
2518	1.77	.234	.0548	.02370
2519	1.57	.034	.0012	.00007
		SUM.	.1774	.02372

N = 10, COEFF. OF VARIATION = .09
 MEAN = 1.54, COEFF. OF SKEW = .95

PHRA KHANONG (C)

YEAR	X	-	- 2	- 3
		(X-X)	(X-X)	(X-X) (1+8.5/N)
25 1	1.26	-.114	.0130	-.00216
2502	1.30	-.074	.0055	-.00059
2503	1.33	-.044	.0020	-.00013
2504	1.28	-.094	.0089	-.00121
2505	1.30	-.074	.0055	-.00059
2506	1.35	-.024	.0006	-.00002
2507	1.32	-.054	.0029	-.00023
2508	1.40	.026	.0007	.00002
25 9	1.3	-.074	.0055	-.00059
251	1.33	-.044	.0020	-.00013
2511	1.33	-.044	.0020	-.00013
2512	1.37	-.04	.0000	-.00000
2513	1.35	-.024	.0006	-.00002
2514	1.36	-.014	.0002	-.00000
2515	1.46	.086	.0074	.00091
2516	1.38	.06	.0000	0.00000
2517	1.54	.166	.0275	.00660
2518	1.61	.236	.0556	.01897
2519	1.54	.166	.0275	.00660
		SUM.	.1673	.02731

N = 19, COEFF. OF VARIATION = .07
 MEAN = 1.37, COEFF. OF SKEW = 1.69

PHRA KHANONG (R)

YEAR	X	-	- 2	- 3
		(X-X)	(X-X)	(X-X) (1+8.5/N)
25 1	1.5	-.273	.0743	-.02933
25 2	1.72	-.053	.0028	-.00021
25 3	1.64	-.133	.0176	-.00338
25 4	1.69	-.083	.0068	-.00082
25 5	1.7	-.073	.0053	-.00055
2506	1.96	.187	.0351	.00952
2507	1.77	-.003	0.0000	-.00000
2508	1.62	-.153	.0233	-.00515
2509	1.64	-.133	.0176	-.00338
2510	1.58	-.193	.0371	-.01035
2511	1.60	-.173	.0298	-.00745
2512	1.71	-.063	.0039	-.00036
2513	1.98	.207	.0430	.01291
2514	1.73	-.043	.0018	-.00011
2515	1.89	.117	.0138	.00234
2516	1.85	.077	.0060	.00067
2517	1.95	.177	.0315	.00808
2518	2.13	.357	.1277	.06606
2519	2. 2	.247	.0612	.02 91
		SJM.	.5386	.06041

N = 19, COEFF. OF VARIATION = .10
 MEAN = 1.77, COEFF. OF SKEW = .65

SAMRONG (C)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (+8.5/N)
2503	1.12	-.001	0.0000	-.00000
2504	1.02	-.101	.0101	-.00153
2505	1.12	-.001	0.0000	-.00000
25 6	1.18	.059	.0035	.00031
25 7	1. 6	-.061	.0037	-.00033
25 8	1.18	.059	.0035	.00031
25 9	1. 4	-.081	.0065	-.00079
251	1.12	-.001	0.0000	-.00000
2511	1.14	.019	.0004	.00001
2512	1.10	-.021	.0004	-.00001
2513	1.11	-.011	.0001	-.00000
2514	1.13	.009	.0001	.00000
2515	1.17	.049	.0024	.00018
2516	1. 9	-.031	.0009	-.00004
2517	1.23	.109	.0120	.00 96
2518	1. 9	-.031	.0009	-.00004
2519	1.15	.029	.0009	.00004
		SUM.	.0455	.00008

N = 17,
MEAN = 1.12,
COEFF. OF VARIATION = .05
COEFF. OF SKEW = .03

SAMRONG (R)

YEAR	X	- (X-X)	- 2 (X-X)	- 3 (X-X) (+8.5/N)
2503	1.44	-.059	.0035	-.00031
2504	1.40	-.099	.0098	-.00145
2505	1.40	-.099	.0098	-.00145
2506	1.49	-.009	.0001	-.00000
25 7	1.45	-.049	.0024	-.00017
25 8	1.43	-.069	.0047	-.00049
25 9	1.45	-.049	.0024	-.00017
251	1.29	-.209	.0436	-.01366
2511	1.49	-.009	.0001	-.00000
2512	1.48	-.019	.0004	-.00001
2513	1.65	.151	.0229	.00518
2514	1.52	.021	.0004	.00001
2515	1.53	.031	.0010	.00005
2516	1.53	.031	.0010	.00005
2517	1.58	.081	.0066	.00080
2518	1.58	.081	.0066	.00080
2519	1.67	.171	.0293	.00752
		SUM.	.1706	.00482

N = 17,
MEAN = 1.50,
COEFF. OF VARIATION = .07
COEFF. OF SKEW = .27

PAK KRET

YEAR	X	(X-X)	(X-X) ²	(X-X) ³ (1+8.5/N)
2496	1.75	-.067	.0045	-.00041
2497	1.84	.023	.0005	.00002
2498	1.74	-.077	.0059	-.00062
2499	1.90	.093	.0069	.00077
2500	1.75	-.067	.0045	-.00041
2501	1.40	-.417	.1740	-.09825
2502	2.02	.203	.0412	.01131
2503	1.89	.073	.0053	.00052
25 4	1.9	.083	.0069	.00077
25 5	1.9	.083	.0069	.00077
25 6	1.85	.033	.0011	.00005
25 7	2.12	.3 3	.0918	.03764
25 8	1.59	-.227	.0516	-.01586
25 9	1.74	-.077	.0059	-.00062
251	1.68	-.137	.0188	-.00349
2511	1.5	-.317	.1005	-.04317
2512	1.78	-.037	.0014	-.00007
2513	2. 5	.233	.0543	.01711
2514	1.84	.023	.0005	.00002
2515	1.68	-.137	.0188	-.00349
2516	1.74	-.077	.0059	-.00062
2517	1.87	.053	.0028	.00020
2518	2.26	.443	.1962	.11766
2519	1.82	.033	0.0009	0.00000
		SUM.	.8061	.01985

N = 24,
MEAN = 1.82,
COEFF. OF VARIATION = .10
COEFF. OF SKEW = .13

M LJK KA

YEAR	X	(X-X)	(X-X) ²	(X-X) ³ (1+8.5/N)
2500	2.48	.295	.0870	.03931
2501	2.22	.035	.0012	.00007
25 2	2.29	.1 5	.0110	.00 77
25 3	2.24	.055	.0030	.00025
25 4	2.17	-.015	.0002	-.00001
25 5	2.25	.065	.0042	.00042
2506	2.30	.115	.0132	.00233
2507	2.44	.255	.0650	.02539
2508	2.13	-.055	.0030	-.00025
25 9	2.21	.025	.0006	.00002
251	2.11	-.075	.0056	-.00065
2511	2.13	-.055	.0030	-.00025
2512	1.95	-.235	.0552	-.01987
2513	2.01	-.175	.0306	-.00821
2514	1.97	-.215	.0462	-.01522
2515	2.06	-.125	.0156	-.00299
		SUM.	.3450	.02212

N = 16,
MEAN = 2.19,
COEFF. OF VARIATION = .07
COEFF. OF SKEW = .42

MIN BURI

YEAR	X	- (X-X)	- 2 (X-X) ²	- 3 (X-X)(1+8.5/N)
25 1	1.6	.052	.0027	.00022
25 2	1.71	.162	.0262	.00666
25 3	1.68	.132	.0174	.00360
25 4	1.44	-.158	.0117	-.00197
25 5	1.58	.032	.0010	.00005
25 6	1.67	.122	.0149	.00284
25 7	1.62	.072	.0052	.00058
25 8	1.41	-.138	.0190	-.00412
2509	1.50	-.048	.0023	-.00017
2510	1.36	-.188	.0353	-.01041
2511	1.46	-.088	.0077	-.00107
2512	1.49	-.058	.0034	-.00031
2513	1.56	.012	.0001	.00000
2514	1.50	-.048	.0023	-.00017
2515	1.64	.092	.0085	.00122
		SJM.	.1578	-.00303

N = 15, COEFF. OF VARIATION = .07
 MEAN = 1.55, COEFF. OF SKEW = -.18

ภาคผนวก ก.

โปรแกรมคอมพิวเตอร์ กำหนดปริมาณฝนและระดับน้ำหลาก
ที่ RETURN PERIOD ต่างๆ

FORTRAN 200

SOURCE LISTING AND DIAGNOSTICS

PROGRAM: 000000

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001      DIMENSION A(6),X(4),Y(4)
002      WRITE(3,5)
003      5 FORMAT (19X,38HRESULT OF HYDROLOGIC FREQUENCY STUDIES///)
004      WRITE(3,15)
005      15 FORMAT(28X,18HINFALL INTENCITY//9X,7HSTATION,26X,13HRETURN PERIO
006      *D/32X,1H2,1 X,1F5,1 X,2H10,9X,2H25)
007      12 READ(2,4)J,IA,X,CV,XC
008      4 FORMAT(11,5A3,F5.2,F2.2,4(F5.3))
009      IF(J-1)13,23,33
010      33 WRITE(3,25)
011      25 FORMAT(///29X,15HFLOOD ELEVATION//9X,7HSTATION,26X,13HRETURN PERIO
012      *D/32X,1H2,1 X,1F5,1 X,2H10,9X,2H25)
013      23 DO 10 I=1,4
014      1 Y(I)=X*(1.+CV*X(I))
015      WRITE(3,35) IA,Y
016      35 FORMAT(6X,6A3,4(4X,F7.2))
017      GO TO 12
018      13 STOP
019      END

```

*DATA

OBJECT MEMORY MAP

PROGRAM/DATA AREAS	BASE LOCN DATA	BASE LOCN PROG
CHAIN 01		
UNLAB COM	04547	
LABEL COM	04547	
ACBFPF	04547	04547
ACBFXP	06236	06236
ACB010	07466	07706
B0DCON	12365	12446
EFQCNV	15474	15474
INTCON	20650	20650
CJBCX2	22004	22004
100IAG	22113	22113
000000	22131	23013
HIGHEST LOCATION		23664

RESULT OF HYDROLOGIC FREQUENCY STUDIES

RAINFALL INTENCITY

STATION	RETURN PERIOD			
	2	5	10	25
PATUMWAN	89.11	118.50	138.03	162.55
PHRA KHAN NG	87.14	106.89	116.33	126.19
BANG KHEN	76.42	98.14	110.61	124.88
BANG KAPI	92.35	133.87	165.42	207.24
LAD KRABANG	77.90	107.56	131.41	157.54
MIN BURI	85.10	120.36	147.29	182.35
NONTHABURT	78.84	126.84	166.20	227.07
PAK KRET	81.01	106.07	121.91	140.99
PATHUM THANI	84.55	104.76	117.52	132.90
RANG SIT	84.14	118.57	144.82	181.21
THANYABURT	83.57	122.00	155.76	204.02
KLONG LUANG	90.09	131.36	162.83	206.46
LAM LUK KA	95.76	111.57	120.59	130.48
SAMJIT PRAKAN	87.97	106.52	118.16	132.28
BANG PHLI	86.01	111.71	126.13	142.47

FLOOD ELEVATION

STATION	RETURN PERIOD			
	2	5	10	25
CHIANG RAK YAI (C)	2.27	2.45	2.56	2.70
CHULALONGKORN (C)	2.16	2.33	2.44	2.57
LAK SI (C)	1.99	2.10	2.18	2.28
BANG KHEN (C)	1.90	2.02	2.10	2.19
PREM BANG ZU (C)	1.83	1.93	1.99	2.05
BANG ZU (C)	1.57	1.80	1.87	1.96
LAD PHRAO (C)	1.77	1.84	1.87	1.90
PHRA KHAN NG (C)	1.34	1.43	1.50	1.58
SAMRONG (C)	1.12	1.17	1.19	1.22
PAK KRET	1.82	1.97	2.06	2.15
LAM LUK KA	2.18	2.32	2.39	2.48
MIN BURI	1.55	1.64	1.69	1.73
CHIANG RAK YAI (R)	1.96	2.35	2.56	2.79
CHULALONGKORN (R)	2.05	2.29	2.43	2.56
LAK SI (R)	1.79	1.92	2.02	2.15
BANG KHEN (R)	1.81	1.99	2.09	2.19
PREM BANG ZU (R)	1.59	1.86	1.95	2.05
BANG ZU (R)	1.58	1.76	1.86	1.97
LAD PHRAO (R)	1.52	1.65	1.73	1.82
PHRA KHAN NG (R)	1.75	1.91	2.01	2.12
SAMRONG (R)	1.49	1.59	1.64	1.69

ภาคผนวก ง.

โปรแกรมคอมพิวเตอร์

คำนวณราคาค่าก่อสร้างระบบการป้องกันน้ำท่วมและการระบายน้ำ
สำหรับโครงการสร้างที่อยู่อาศัยลักษณะต่างๆ

```

C   CALCULATE COST OF FLOOD PROTECTION AND DRAINAGE SYSTEMS,
C   CONSTRUCTED BY EARTH FILL AND DUTCH POLDER METHODS.
C   YE = COST OF FLOOD PROTECTION AND DRAINAGE SYSTEMS, CONSTRUCTED
C   BY EARTH FILL METHOD. (MILLION BAHT/USEFUL AREA 10 RAI)
C   YD = COST OF FLOOD PROTECTION AND DRAINAGE SYSTEMS, CONSTRUCTED
C   BY DUTCH POLDER METHOD. (MILLION BAHT/USEFUL AREA 10 RAI)
C   XI = AMOUNT OF RAINFALL. (M.M./DAY)
C   XD = DIFFERENCE BETWEEN FLOOD AND EXISTING GROUND ELEVATION. (M.)
C   XC = UNIT COST OF EXISTING LAND. (MILLION BAHT/RAI)
C   XS = SHAPE FACTOR.
C   XA = GROSS AREA OF HOUSING PROJECT. (RAI)
C   WE = EXCAVATED VOLUME. (CU.M.)
C   WC = COMPACTED VOLUME. (CU.M.)
C   WS = SODDING AREA. (SQ.M.)
C   WP = CAPACITY OF PUMP. (CU.M./HR.)
C   WA = LOSING AREA. (RAI)
C   DT = DEPTH OF CHANNEL. (M.)
C   DY = TOP WIDTH OF CHANNEL. (M.)
C   DR = TIP WIDTH OF BUND. (M.)
C   DZ = BASE OF BUND. (M.)
C   DX = DISTANCE FROM HEEL OF BUND TO CHANNEL. (M.)
C   DI = WIDTH OF LOSING AREA. (M.)
C   1: S1 = SIDE SLOPE OF BUND.
C   1: S2 = SIDE SLOPE OF CHANNEL.
C   C = COEFFICIENT OF RUN-OFF
C   C1 = UNIT COST OF EMBANKMENT. (B./CU.M.)
C   C2 = UNIT COST OF EXCAVATION. (B./CU.M.)
C   C3 = UNIT COST OF COMPACTION. (B./CU.M.)
C   C4 = UNIT COST OF SODDING. (B./SQ.M.)
C   C5 = UNIT COST OF CLEARING AND GRUBBING. (B./SQ.M.)
C   Y4 = TOTAL COST OF PUMPING STATION. (B.)
C   *****
001  DIMENSION YD(16)
002  DR=2.50
003  DY=3.00
004  S1=1.75
005  S2=2.50
006  C=0.45
007  C2=20.0
010  C3=40.0
011  C4=12.0
012  C5=3.0
013  WRITE(3,10)
014  1) FORMAT(29X,44HCOST OF FLOOD PROTECTION AND DRAINAGE SYSTEM/
    *48X,9HYEAR 1973//)
015  XI=30.0
016  DI=5 I=1,6
017  WRITE(3,15) XI
020  15) FORMAT(4X,22(14*))//47X,4H I =,F6.1//)
021  WRITE(3,20)
022  2) FORMAT(4X,2H S,30X,35H GROSS AREA OF HOUSING PROJECT (RAI) /6X,
    *6H 50,6H 100,6H 150,6H 200,6H 250,6H 300,6H 350,6H 400,6H 450,6H 500,6H 550,6H 600,
    *6H 650,6H 700,6H 750,6H 800,6H 850,6H 900,6H 950,6H 1000,6H 1050,6H 1100,6H 1150,6H 1200,6H 1250,6H 1300,
    *6H 1350,6H 1400,6H 1450,6H 1500//)
023  XD=0.8
024  DI=44 J=1,6
025  XC=0.02
026  DI=33 K=1,9
027  C1=30.0+125.0*XC

030  YE=0.016*C1*(XD-0.10)
031  WRITE(3,25) XD, XC, YE
032  25) FORMAT(1X,5H( D =,F5.2,6H, C =,F4.2,6H) .YE =,F6.3)
033  XS=4.0
034  DI=22 L=1,5
035  XA=50.0
036  DI=11 M=1,16
037  Q=C*XI*XA*1.6
040  S=X5*SQRT(1600.0*XA)
041  DT=0.2+SQRT(1.0+(0.7*Q)/(S*S2))
042  IF(DT-2.0) 13,13,23
043  13) DY=2.0*S2*DI
044  WE=0.5*DY*DT*S
045  GO TO 43
046  23) DT=2.0
047  DY=0.875*Q/S+1.2*S2
048  WE=2.0*S*(DY-2.0*S2)

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051      43 W=1.2*5*(DY-1.2*52)
052      H=XD+0.5
053      DZ=DB+2.*S1*H
054      WC=0.5*(DZ+DB)*H*5
055      IF(W-WC)53,63,63
056      53 WT=WC-W
057      GO TO 73
060      63 WI=0.0
061      73 W5=2.0*S*(H*SQRT(1.0+S1**2)+(DT-1.0)*SQRT(1.0+S2**2))
062      DM=DX+DY+DZ+3.0
063      WA=(S*DM-4.0*DM**2)/1500.0
064      WP=D/2.0
065      IF(WP-10.0)93,93,93
066      83 Y1=100.0*WP+13000.0
067      GO TO 14
070      93 Y1=230.0*WP
071      14 Y2=250.0*XA
072      Y3=0.15*Y1
073      Y4=4.0*(Y1+Y2+Y3)
074      YD(M)=(((C1*WI+C2*WE+C3*WC+C4*W5+C5*XA*1500.0+Y4)/100000.0)+
      *WA*XC)*10.0/(XA-WA)
075      XA=XA+100.0
076      11 CONTINUE
077      WRITE(3,30)XS,YD
100      30 FORMAT(2X,F4.1,16F6.3)
101      XS=XS+1.0
102      22 CONTINUE
103      XC=XC+0.01
104      33 CONTINUE
105      XD=XD+0.10
106      44 CONTINUE
107      WRITE(3,35)
110      35 FORMAT(/40X,22(1H*)//)
111      XI=XI+10.0
112      55 CONTINUE
113      STOP
114      END

```

*DATA

OBJECT MEMORY MAP

PROGRAM/DATA AREAS BASE LOCN DATA BASE LOCN PROG

CHAIN 01

JNLAB COM	04527	
LABEL COM	04527	
ACBFPD	04527	04527
ACBFPY	06216	06216
ACBFOI	07446	07666
BDCON	17345	12426
EPGCM	15454	15454
CJBCY2	20630	20630
IOBIAG	20737	20737
000000	20755	24313
ACBTE	30545	30545
SDRT	31550	31551
IABS	32324	32341

HIGHEST LOCATION

32450

(D = 1.20, C = .03) YE = .594

4.0	.517	.315	.246	.213	.185	.164	.178	.173	.170	.167	.164	.162	.160	.158	.157
5.0	.787	.379	.290	.249	.225	.211	.200	.192	.186	.180	.177	.174	.172	.169	.168
6.0	1.000	.450	.338	.286	.257	.239	.225	.215	.207	.200	.194	.189	.185	.181	.179
7.0	1.276	.530	.390	.326	.290	.268	.252	.239	.229	.220	.213	.207	.202	.197	.193
8.0	1.646	.620	.447	.370	.326	.299	.279	.264	.252	.242	.233	.226	.220	.215	.210

(D = 1.20, C = .04) YE = .616

4.0	.659	.337	.263	.228	.208	.196	.188	.183	.179	.176	.173	.171	.168	.167	.165
5.0	.846	.408	.312	.267	.241	.225	.213	.204	.197	.192	.188	.185	.182	.179	.177
6.0	1.080	.487	.365	.309	.276	.256	.241	.230	.221	.213	.206	.201	.197	.193	.190
7.0	1.383	.576	.423	.353	.314	.289	.271	.257	.245	.236	.228	.221	.216	.210	.206

(D = 1.20, C = .05) YE = .638

8.0	1.790	.676	.486	.401	.353	.323	.301	.284	.271	.260	.250	.243	.236	.230	.224
4.0	.701	.359	.280	.242	.220	.208	.199	.194	.189	.185	.182	.179	.177	.175	.173
5.0	.904	.437	.334	.285	.257	.240	.227	.217	.209	.203	.199	.195	.192	.189	.187
6.0	1.160	.524	.393	.331	.296	.274	.258	.245	.235	.226	.219	.213	.208	.204	.201
7.0	1.490	.621	.456	.380	.337	.310	.290	.274	.262	.252	.243	.236	.229	.223	.218
8.0	1.934	.731	.525	.433	.381	.348	.324	.305	.290	.278	.268	.259	.251	.245	.239

(D = 1.20, C = .06) YE = .660

4.0	.742	.381	.297	.256	.233	.219	.210	.204	.199	.195	.191	.188	.186	.183	.181
5.0	.963	.467	.356	.304	.273	.254	.240	.229	.221	.214	.209	.205	.202	.199	.196
6.0	1.239	.561	.420	.354	.315	.271	.274	.260	.249	.240	.232	.225	.220	.215	.212
7.0	1.597	.667	.489	.408	.360	.331	.309	.292	.278	.267	.258	.250	.243	.236	.231
8.0	2.078	.787	.564	.465	.408	.372	.346	.326	.309	.296	.285	.275	.267	.260	.253

(D = 1.20, C = .07) YE = .682

4.0	.784	.414	.314	.271	.245	.231	.221	.214	.209	.204	.200	.197	.194	.192	.189
5.0	1.022	.496	.378	.322	.289	.269	.253	.241	.232	.225	.220	.216	.212	.209	.206
6.0	1.319	.598	.447	.376	.335	.309	.290	.275	.263	.253	.244	.237	.232	.226	.223
7.0	1.704	.713	.522	.435	.384	.352	.328	.310	.295	.283	.273	.264	.256	.250	.244
8.0	2.222	.842	.614	.497	.436	.397	.368	.346	.328	.314	.302	.291	.282	.275	.268

(D = 1.20, C = .08) YE = .704

4.0	.826	.426	.331	.285	.258	.242	.232	.224	.219	.214	.210	.206	.203	.200	.198
5.0	1.080	.525	.400	.340	.305	.283	.267	.254	.244	.236	.231	.226	.222	.219	.215
6.0	1.399	.635	.474	.399	.355	.327	.306	.290	.277	.266	.257	.249	.243	.238	.234
7.0	1.811	.759	.555	.462	.407	.373	.347	.327	.312	.298	.287	.278	.270	.263	.256
8.0	2.366	.898	.643	.529	.463	.421	.390	.367	.348	.332	.319	.308	.298	.290	.282

(D = 1.20, C = .09) YE = .726

4.0	.868	.448	.348	.299	.271	.254	.242	.235	.228	.223	.219	.215	.211	.209	.206
5.0	1.139	.554	.422	.358	.321	.298	.280	.266	.256	.247	.242	.237	.232	.229	.225
6.0	1.479	.672	.502	.421	.374	.344	.322	.305	.291	.279	.270	.262	.255	.249	.245
7.0	1.919	.804	.588	.489	.431	.394	.366	.345	.328	.314	.302	.292	.283	.276	.269
8.0	2.510	.953	.682	.561	.490	.445	.412	.387	.367	.350	.336	.324	.314	.305	.296

(D = 1.20, C = .10) YE = .748

4.0	.909	.470	.365	.314	.293	.265	.253	.245	.238	.233	.228	.224	.220	.217	.214
5.0	1.197	.584	.444	.377	.337	.312	.293	.279	.268	.259	.252	.247	.242	.238	.235
6.0	1.559	.709	.529	.444	.394	.362	.338	.320	.305	.293	.282	.274	.267	.260	.256
7.0	2.026	.850	.621	.516	.454	.415	.385	.363	.345	.330	.317	.306	.297	.289	.281
8.0	2.654	1.009	.721	.592	.518	.470	.435	.408	.386	.368	.353	.340	.329	.320	.311

(D = 1.30, C = .02) YE = .524

4.0	.602	.305	.238	.206	.189	.179	.171	.166	.163	.160	.157	.155	.154	.152	.151
5.0	.766	.366	.280	.240	.217	.204	.194	.186	.180	.175	.170	.167	.165	.162	.161
6.0	.974	.435	.326	.276	.247	.230	.217	.208	.200	.193	.188	.183	.179	.175	.172
7.0	1.246	.511	.376	.314	.279	.258	.242	.230	.221	.213	.206	.200	.195	.191	.187
8.0	1.614	.599	.430	.355	.313	.288	.269	.254	.243	.233	.225	.218	.212	.207	.203

(D = 1.30, C = .03) YE = .648

4.0	.644	.328	.255	.221	.202	.190	.182	.176	.173	.169	.167	.164	.162	.160	.159
5.0	.827	.396	.303	.259	.234	.218	.207	.198	.192	.186	.181	.177	.175	.172	.170
6.0	1.057	.473	.354	.299	.267	.248	.234	.223	.214	.207	.200	.195	.191	.187	.184
7.0	1.357	.559	.409	.342	.303	.280	.262	.248	.238	.229	.221	.215	.209	.204	.200
8.0	1.765	.656	.470	.388	.342	.313	.292	.275	.262	.252	.243	.235	.228	.222	.217

(D = 1.30, C = .04) YE = .672

4.0	.687	.350	.273	.236	.215	.202	.193	.187	.182	.179	.176	.173	.171	.169	.167
5.0	.887	.426	.325	.277	.250	.233	.221	.211	.204	.197	.192	.188	.185	.182	.180
6.0	1.140	.511	.382	.322	.288	.266	.250	.238	.228	.220	.213	.208	.203	.199	.195
7.0	1.469	.606	.443	.370	.327	.301	.282	.267	.255	.245	.236	.229	.223	.218	.213
8.0	1.915	.713	.511	.421	.370	.338	.314	.296	.282	.270	.260	.252	.244	.238	.232

(D = 1.30, C = .05) YE = .696

4.0	.730	.373	.290	.250	.227	.214	.204	.197	.192	.188	.185	.182	.180	.177	.175
5.0	.948	.456	.348	.296	.266	.248	.234	.224	.216	.209	.203	.199	.195	.192	.190
6.0	1.222	.549	.410	.345	.308	.284	.267	.254	.243	.234	.226	.220	.215	.210	.206
7.0	1.580	.653	.477	.397	.351	.323	.301	.285	.272	.261	.252	.244	.237	.231	.226
8.0	2.066	.770	.551	.454	.398	.363	.337	.317	.302	.289	.278	.268	.260	.253	.247

(D = 1.30, C = .06) YE = .720																
4.0	.773	.396	.303	.265	.240	.226	.215	.208	.202	.198	.194	.191	.188	.186	.184	.1
5.0	1.008	.486	.370	.315	.283	.263	.248	.236	.228	.220	.214	.209	.206	.202	.200	.1
6.0	1.305	.587	.438	.368	.328	.302	.284	.269	.257	.247	.239	.232	.227	.222	.217	.2
7.0	1.591	.700	.511	.425	.375	.344	.321	.303	.289	.277	.267	.258	.251	.244	.238	.2
8.0	2.216	.827	.591	.486	.426	.388	.360	.338	.321	.307	.295	.285	.276	.269	.262	.2
(D = 1.30, C = .07) YE = .744																
4.0	.816	.419	.325	.280	.253	.238	.226	.218	.212	.208	.204	.200	.197	.194	.192	.1
5.0	1.069	.516	.393	.334	.299	.278	.262	.249	.240	.232	.225	.220	.216	.212	.209	.2
6.0	1.337	.625	.466	.391	.348	.320	.300	.284	.272	.261	.252	.245	.239	.233	.228	.2
7.0	1.833	.747	.545	.453	.399	.365	.340	.321	.316	.293	.282	.273	.265	.258	.251	.2
8.0	2.367	.885	.632	.519	.454	.413	.383	.359	.341	.326	.313	.302	.292	.284	.277	.2
(D = 1.30, C = .08) YE = .768																
4.0	.859	.442	.342	.294	.266	.249	.237	.228	.222	.217	.213	.209	.206	.203	.200	.1
5.0	1.129	.546	.415	.352	.316	.293	.275	.262	.252	.243	.236	.230	.226	.222	.219	.2
6.0	1.470	.663	.494	.414	.368	.339	.317	.300	.286	.275	.265	.257	.251	.245	.240	.2
7.0	1.914	.794	.579	.481	.424	.387	.360	.339	.322	.309	.297	.287	.279	.271	.264	.2
8.0	2.517	.942	.672	.552	.482	.438	.405	.380	.361	.344	.330	.319	.308	.299	.291	.2
(D = 1.30, C = .09) YE = .792																
4.0	.902	.464	.360	.309	.279	.261	.248	.239	.232	.227	.222	.218	.215	.211	.209	.2
5.0	1.190	.576	.438	.371	.332	.307	.289	.274	.263	.255	.247	.241	.236	.232	.229	.2
6.0	1.533	.701	.522	.438	.388	.357	.333	.315	.300	.288	.278	.269	.262	.256	.251	.2
7.0	2.026	.841	.613	.508	.448	.408	.380	.357	.339	.325	.312	.302	.292	.284	.277	.2
8.0	2.568	.999	.713	.584	.510	.463	.428	.402	.380	.363	.348	.335	.324	.315	.306	.2
(D = 1.30, C = .10) YE = .816																
4.0	.945	.487	.377	.324	.292	.273	.259	.249	.242	.236	.231	.227	.223	.220	.217	.2
5.0	1.250	.606	.460	.390	.349	.322	.302	.287	.275	.266	.258	.251	.247	.242	.238	.2
6.0	1.635	.739	.550	.461	.408	.375	.350	.330	.315	.302	.291	.282	.274	.268	.262	.2
7.0	2.137	.888	.647	.536	.472	.430	.399	.375	.356	.341	.327	.316	.306	.298	.290	.2
8.0	2.818	1.056	.753	.617	.539	.488	.451	.423	.400	.381	.365	.352	.340	.330	.321	.3

(D = .90, C = .05) YE = .464
4.0 .624 .324 .258 .225 .212 .204 .198 .193 .189 .186 .183 .181 .179 .177 .175 .173
5.0 .791 .389 .300 .260 .240 .226 .217 .210 .205 .201 .197 .194 .192 .189 .187 .185
6.0 .998 .461 .349 .297 .270 .253 .240 .230 .222 .216 .212 .208 .205 .202 .199 .197
7.0 1.259 .541 .411 .333 .303 .281 .266 .253 .244 .236 .229 .223 .218 .215 .212 .209
8.0 1.502 .630 .458 .381 .339 .312 .292 .278 .266 .256 .248 .241 .235 .230 .225 .220

(D = .90, C = .06) YE = .480
4.0 .663 .345 .274 .240 .224 .215 .209 .203 .199 .195 .192 .190 .187 .185 .183 .181

5.0 .845 .416 .321 .278 .255 .240 .229 .222 .217 .212 .208 .205 .202 .199 .197 .195
6.0 1.070 .495 .374 .318 .289 .270 .256 .245 .236 .229 .224 .220 .216 .213 .210 .208
7.0 1.355 .583 .432 .363 .325 .301 .284 .270 .259 .250 .243 .236 .231 .227 .224 .221
8.0 1.729 .681 .495 .411 .365 .335 .313 .297 .284 .273 .265 .257 .250 .244 .239 .232

(D = .90, C = .07) YE = .496
4.0 .701 .366 .290 .254 .237 .227 .219 .214 .209 .205 .201 .199 .196 .194 .192 .190
5.0 .899 .444 .341 .295 .270 .254 .242 .235 .228 .223 .219 .215 .212 .209 .206 .204
6.0 1.143 .530 .400 .339 .307 .286 .271 .259 .249 .242 .237 .232 .228 .224 .221 .219
7.0 1.452 .625 .463 .388 .347 .321 .302 .287 .275 .265 .257 .250 .244 .240 .236 .232
8.0 1.856 .732 .531 .440 .391 .358 .334 .316 .302 .291 .281 .272 .265 .259 .253 .249

(D = .90, C = .08) YE = .512
4.0 .740 .387 .306 .267 .249 .238 .230 .224 .219 .214 .211 .207 .205 .202 .200 .198
5.0 .953 .471 .362 .312 .285 .267 .255 .247 .240 .234 .230 .226 .222 .219 .216 .214
6.0 1.215 .564 .425 .360 .326 .303 .286 .273 .262 .255 .249 .244 .240 .236 .232 .229
7.0 1.548 .668 .494 .413 .369 .340 .320 .304 .291 .280 .271 .263 .257 .253 .249 .245
8.0 1.933 .783 .568 .470 .416 .381 .355 .335 .320 .308 .297 .288 .280 .273 .267 .262

(D = .90, C = .09) YE = .528
4.0 .779 .407 .322 .281 .261 .250 .241 .234 .228 .224 .220 .216 .213 .211 .208 .206
5.0 1.007 .498 .383 .330 .301 .281 .268 .259 .252 .246 .240 .236 .232 .229 .226 .224
6.0 1.288 .598 .451 .381 .344 .320 .302 .287 .276 .268 .261 .256 .251 .247 .243 .240
7.0 1.644 .710 .524 .438 .391 .360 .333 .321 .307 .295 .285 .277 .271 .265 .261 .257
8.0 2.110 .834 .604 .500 .442 .403 .375 .355 .338 .325 .313 .303 .295 .287 .281 .277

(D = .90, C = .10) YE = .544
4.0 .817 .428 .338 .295 .274 .261 .252 .244 .238 .233 .229 .225 .222 .219 .217 .215
5.0 1.060 .525 .403 .347 .316 .295 .281 .271 .253 .257 .251 .246 .242 .239 .235 .232
6.0 1.360 .633 .476 .402 .363 .337 .317 .302 .289 .281 .274 .268 .263 .258 .254 .251
7.0 1.740 .752 .555 .464 .413 .390 .356 .337 .322 .310 .300 .291 .284 .278 .273 .269
8.0 2.237 .885 .640 .529 .467 .426 .396 .374 .356 .342 .329 .319 .310 .302 .294 .289

(D = 1.00, C = .02) YE = .468
4.0 .531 .272 .215 .189 .179 .173 .168 .165 .162 .160 .158 .156 .154 .153 .152 .151
5.0 .663 .322 .249 .215 .199 .189 .182 .177 .174 .171 .168 .166 .164 .162 .161 .160
6.0 .827 .377 .286 .244 .223 .209 .199 .192 .186 .182 .178 .176 .173 .171 .169 .167
7.0 1.036 .438 .326 .275 .248 .231 .219 .209 .201 .195 .191 .186 .183 .180 .178 .176
8.0 1.312 .507 .369 .308 .276 .255 .240 .228 .219 .211 .205 .200 .195 .191 .188 .186

(D = 1.00, C = .03) YE = .484
4.0 .571 .294 .231 .203 .191 .185 .179 .175 .172 .169 .167 .165 .163 .162 .160 .159
5.0 .718 .350 .270 .233 .214 .203 .195 .190 .185 .182 .179 .176 .174 .172 .170 .169
6.0 .902 .412 .312 .266 .241 .226 .215 .206 .199 .195 .191 .188 .185 .183 .180 .179
7.0 1.136 .482 .357 .301 .271 .251 .237 .226 .217 .211 .205 .200 .196 .193 .191 .189
8.0 1.445 .560 .406 .338 .302 .279 .261 .248 .237 .228 .221 .215 .210 .206 .202 .200

(D = 1.00, C = .04) YE = .504
4.0 .610 .315 .248 .217 .204 .196 .190 .186 .182 .179 .176 .174 .172 .170 .169 .168
5.0 .774 .378 .291 .250 .230 .217 .208 .202 .197 .193 .190 .187 .184 .182 .180 .179
6.0 .977 .447 .338 .287 .260 .243 .230 .221 .213 .206 .204 .200 .197 .194 .192 .191
7.0 1.236 .525 .389 .327 .293 .272 .255 .243 .233 .226 .219 .214 .210 .206 .203 .201
8.0 1.578 .612 .444 .369 .328 .302 .283 .268 .256 .246 .238 .231 .226 .221 .216 .213

(D = 1.00, C = .05) YE = .522
4.0 .650 .336 .264 .231 .216 .208 .201 .196 .192 .189 .186 .183 .181 .179 .177 .176
5.0 .829 .406 .312 .268 .245 .231 .221 .214 .209 .205 .201 .197 .195 .192 .190 .189
6.0 1.052 .483 .364 .309 .279 .260 .246 .235 .227 .221 .216 .212 .209 .205 .203 .202
7.0 1.336 .568 .420 .353 .316 .292 .274 .260 .249 .241 .234 .228 .223 .219 .216 .214
8.0 1.711 .665 .481 .399 .355 .325 .304 .287 .274 .263 .254 .247 .241 .235 .230 .227

(D = 1.00, C = .06) YE = .540
4.0 .690 .358 .280 .245 .229 .219 .212 .207 .202 .198 .195 .192 .190 .188 .186 .185
5.0 .885 .434 .333 .286 .261 .245 .234 .227 .221 .216 .212 .208 .205 .202 .200 .199
6.0 1.127 .518 .390 .331 .298 .277 .261 .250 .241 .234 .229 .224 .220 .217 .214 .212
7.0 1.436 .612 .452 .379 .338 .312 .292 .277 .265 .256 .248 .241 .236 .232 .228 .225
8.0 1.843 .717 .519 .430 .381 .349 .325 .307 .293 .281 .271 .263 .256 .250 .244 .240

(D = 1.00, C = .07) YE = .558
4.0 .730 .379 .297 .259 .241 .231 .223 .217 .212 .208 .204 .201 .199 .196 .194 .193
5.0 .940 .452 .354 .303 .276 .259 .247 .239 .233 .227 .223 .219 .215 .212 .209 .207

6.0 1.202 .553 .416 .352 .317 .294 .277 .264 .254 .247 .241 .236 .232 .228 .225 .223
7.0 1.536 .655 .483 .404 .351 .332 .311 .294 .281 .271 .263 .255 .249 .245 .241 .238
8.0 1.976 .770 .556 .460 .407 .372 .347 .327 .311 .298 .287 .278 .271 .264 .258 .255

(D = 1.00, C = .08) YE = .576
4.0 .769 .401 .313 .273 .254 .243 .234 .227 .222 .217 .214 .210 .207 .205 .203
5.0 .996 .490 .375 .321 .292 .273 .260 .251 .244 .238 .234 .229 .225 .222 .219
6.0 1.277 .589 .443 .374 .336 .311 .293 .279 .268 .260 .254 .248 .244 .240 .236
7.0 1.636 .699 .515 .430 .383 .352 .329 .311 .297 .286 .277 .269 .263 .258 .253
8.0 2.109 .822 .594 .491 .434 .396 .368 .347 .330 .315 .304 .294 .286 .279 .272

(D = 1.00, C = .09) YE = .594
4.0 .809 .422 .330 .287 .266 .254 .245 .238 .232 .227 .223 .219 .216 .214 .211
5.0 1.052 .518 .397 .338 .307 .287 .273 .264 .256 .250 .244 .240 .236 .232 .229
6.0 1.252 .624 .469 .396 .355 .328 .308 .293 .282 .273 .266 .261 .256 .251 .247
7.0 1.736 .742 .547 .456 .406 .372 .347 .323 .313 .301 .291 .283 .276 .271 .266
8.0 2.242 .875 .631 .521 .460 .419 .389 .366 .348 .333 .320 .310 .301 .293 .286

(D = 1.00, C = .10) YE = .612
4.0 .849 .443 .346 .301 .279 .266 .256 .248 .242 .237 .232 .228 .225 .222 .220
5.0 1.107 .545 .418 .356 .323 .301 .286 .276 .268 .261 .255 .250 .246 .242 .239
6.0 1.427 .659 .495 .417 .374 .345 .324 .308 .295 .286 .279 .273 .267 .263 .258
7.0 1.836 .786 .578 .482 .428 .392 .366 .345 .329 .317 .306 .296 .289 .284 .278
8.0 2.375 .927 .668 .552 .486 .443 .411 .386 .366 .350 .337 .326 .316 .308 .300

(D = 1.10, C = .02) YE = .520
4.0 .555 .284 .223 .195 .183 .176 .172 .168 .165 .162 .160 .158 .157 .155 .154
5.0 .697 .337 .260 .224 .206 .194 .186 .181 .177 .174 .171 .169 .167 .165 .163
6.0 .876 .397 .300 .255 .232 .217 .206 .197 .190 .186 .182 .179 .177 .174 .172
7.0 1.105 .463 .343 .289 .260 .242 .228 .217 .209 .202 .196 .191 .187 .184 .182
8.0 1.410 .538 .390 .324 .290 .267 .251 .238 .228 .220 .213 .207 .202 .197 .193

(D = 1.10, C = .03) YE = .540
4.0 .596 .316 .240 .209 .195 .188 .183 .178 .175 .172 .170 .167 .166 .164 .163
5.0 .755 .366 .282 .242 .222 .208 .199 .194 .189 .185 .182 .179 .177 .175 .173
6.0 .953 .433 .327 .277 .252 .235 .222 .212 .204 .199 .195 .192 .189 .186 .184
7.0 1.209 .508 .375 .315 .283 .262 .247 .235 .225 .217 .211 .205 .201 .197 .195
8.0 1.549 .592 .428 .356 .317 .291 .273 .258 .247 .238 .230 .223 .217 .212 .207

(D = 1.10, C = .04) YE = .560
4.0 .637 .328 .257 .223 .208 .200 .194 .189 .185 .182 .179 .177 .175 .173 .171
5.0 .812 .395 .303 .260 .237 .223 .212 .206 .201 .197 .193 .190 .187 .185 .183
6.0 1.031 .469 .353 .300 .271 .252 .238 .227 .218 .212 .208 .204 .201 .198 .195
7.0 1.313 .552 .408 .342 .306 .283 .263 .256 .252 .242 .233 .225 .219 .214 .210
8.0 1.668 .646 .467 .387 .344 .315 .295 .279 .266 .255 .247 .239 .232 .227 .222

(D = 1.10, C = .05) YE = .580
4.0 .678 .349 .274 .237 .221 .212 .205 .199 .195 .192 .188 .186 .183 .181 .180
5.0 .869 .423 .325 .278 .253 .237 .226 .219 .213 .208 .204 .201 .198 .195 .193
6.0 1.109 .505 .380 .322 .290 .269 .254 .242 .232 .225 .220 .216 .212 .209 .206
7.0 1.417 .597 .440 .368 .329 .304 .285 .270 .258 .248 .240 .233 .228 .224 .220
8.0 1.827 .700 .505 .418 .371 .339 .317 .299 .285 .273 .263 .255 .248 .242 .236

(D = 1.10, C = .06) YE = .600
4.0 .718 .371 .290 .251 .233 .223 .216 .210 .205 .201 .198 .195 .192 .190 .188
5.0 .927 .452 .346 .296 .269 .251 .239 .231 .225 .220 .215 .212 .208 .205 .203
6.0 1.187 .542 .407 .344 .310 .287 .270 .257 .246 .239 .233 .229 .224 .221 .218
7.0 1.521 .642 .473 .395 .352 .324 .303 .287 .274 .264 .255 .247 .241 .237 .233
8.0 1.966 .755 .544 .449 .398 .363 .338 .319 .304 .291 .280 .271 .263 .256 .250

(D = 1.10, C = .07) YE = .620
4.0 .759 .393 .307 .266 .246 .235 .227 .221 .215 .211 .207 .204 .201 .199 .197
5.0 .984 .481 .368 .314 .285 .266 .252 .244 .237 .231 .226 .222 .219 .216 .213
6.0 1.264 .578 .434 .366 .329 .304 .286 .272 .260 .252 .246 .241 .236 .232 .229
7.0 1.625 .687 .505 .422 .375 .345 .322 .305 .291 .279 .269 .261 .255 .250 .246
8.0 2.105 .809 .582 .481 .425 .388 .360 .339 .323 .309 .297 .287 .279 .271 .265

(D = 1.10, C = .08) YE = .640
4.0 .800 .415 .324 .280 .259 .247 .238 .231 .225 .221 .217 .213 .210 .208 .205
5.0 1.041 .510 .390 .332 .301 .280 .265 .256 .249 .243 .238 .233 .229 .226 .223
6.0 1.342 .614 .461 .388 .348 .322 .302 .286 .274 .265 .259 .253 .248 .244 .240

7.0 1.728 .731 .537 .448 .399 .365 .341 .322 .307 .295 .284 .275 .268 .263 .258
8.0 2.244 .863 .621 .512 .452 .412 .382 .360 .342 .327 .314 .304 .294 .286 .279
(D = 1.10, C = .09) YE = .660
4.0 .841 .437 .341 .294 .272 .259 .249 .242 .236 .231 .226 .222 .219 .216 .214
5.0 1.098 .538 .411 .350 .317 .294 .279 .269 .261 .254 .249 .244 .240 .236 .233
6.0 1.420 .651 .487 .411 .368 .339 .318 .301 .288 .278 .272 .266 .260 .256 .252
7.0 1.832 .776 .570 .475 .422 .385 .360 .340 .323 .310 .299 .292 .282 .276 .271
8.0 2.382 .917 .659 .543 .479 .436 .404 .380 .361 .345 .331 .320 .310 .301 .293
(D = 1.10, C = .10) YE = .680
4.0 .882 .459 .357 .308 .284 .271 .260 .252 .246 .240 .236 .232 .228 .225 .222
5.0 1.156 .567 .433 .369 .333 .319 .292 .281 .273 .266 .260 .254 .250 .246 .242
6.0 1.497 .687 .514 .433 .387 .356 .334 .316 .302 .292 .284 .278 .272 .267 .263
7.0 1.936 .821 .592 .501 .445 .407 .379 .357 .340 .326 .313 .303 .295 .289 .284
8.0 2.521 .971 .698 .575 .506 .460 .426 .400 .379 .362 .348 .336 .325 .316 .308
(D = 1.20, C = .02) YE = .572
4.0 .580 .296 .232 .202 .197 .180 .175 .171 .168 .165 .163 .161 .159 .157 .156
5.0 .734 .353 .271 .232 .214 .201 .192 .185 .181 .177 .174 .172 .169 .167 .166
6.0 .927 .417 .314 .267 .242 .226 .214 .205 .197 .191 .186 .183 .180 .178 .176
7.0 1.178 .489 .361 .303 .272 .252 .238 .226 .217 .210 .203 .198 .193 .189 .186
8.0 1.516 .570 .411 .341 .304 .280 .262 .249 .238 .229 .221 .215 .209 .204 .200

(D = 1.30, C = .07) YE = .744																
4.0	1.822	.423	.329	.283	.260	.245	.235	.228	.222	.218	.214	.210	.207	.204	.202	.
5.0	1.077	.521	.397	.338	.305	.283	.268	.256	.247	.240	.234	.230	.226	.222	.219	.
6.0	1.398	.631	.471	.396	.354	.327	.306	.290	.277	.267	.259	.252	.246	.241	.237	.
7.0	1.818	.753	.551	.458	.406	.372	.347	.327	.312	.299	.288	.278	.271	.264	.258	.
8.0	2.308	.892	.638	.524	.461	.420	.389	.366	.347	.332	.319	.308	.298	.290	.282	.
(D = 1.30, C = .08) YE = .768																
4.0	.866	.446	.346	.298	.273	.257	.247	.239	.233	.228	.223	.219	.216	.213	.211	.
5.0	1.138	.551	.420	.357	.322	.298	.282	.269	.259	.252	.246	.241	.237	.233	.230	.
6.0	1.481	.669	.499	.419	.375	.345	.323	.306	.292	.281	.272	.265	.258	.253	.249	.
7.0	1.920	.801	.585	.486	.430	.394	.366	.346	.329	.315	.303	.293	.285	.278	.272	.
8.0	2.540	.950	.679	.557	.490	.445	.412	.387	.357	.350	.337	.325	.314	.305	.297	.
(D = 1.30, C = .09) YE = .792																
4.0	.909	.469	.364	.313	.286	.269	.258	.250	.243	.238	.233	.229	.225	.222	.219	.
5.0	1.199	.582	.442	.376	.338	.313	.295	.282	.271	.263	.257	.252	.247	.243	.240	.
6.0	1.565	.707	.527	.442	.395	.363	.340	.321	.306	.295	.286	.277	.270	.265	.260	.
7.0	2.042	.848	.619	.514	.455	.415	.386	.364	.346	.331	.319	.308	.299	.291	.285	.
8.0	2.692	1.008	.719	.590	.518	.470	.435	.405	.387	.369	.354	.342	.331	.321	.312	.
(D = 1.30, C = .10) YE = .816																
4.0	.952	.492	.382	.328	.299	.281	.269	.261	.254	.248	.243	.238	.235	.231	.228	.
5.0	1.259	.612	.465	.395	.355	.328	.309	.295	.284	.275	.269	.263	.258	.254	.250	.
6.0	1.648	.746	.555	.466	.415	.381	.356	.337	.321	.309	.299	.290	.283	.277	.272	.
7.0	2.155	.896	.653	.542	.479	.437	.405	.382	.363	.347	.334	.322	.313	.305	.298	.
8.0	2.844	1.065	.760	.623	.547	.496	.458	.430	.407	.388	.372	.359	.347	.336	.327	.

Table with multiple rows of data, organized into blocks by D and C values. Each block includes a header row: (D = , C =) YE = . Each row contains numerical values in a grid format. The data shows a progression of values as D and C increase, with some values appearing to be rounded or truncated.

Continuation of the table from the previous block. It follows the same structure with headers (D = , C =) YE = . and rows of numerical data. The values continue to progress, showing a clear trend across the different parameters.

(D = 1.20, C = .04) YE = .515															
4.0	.609	.244	.269	.235	.221	.213	.206	.201	.197	.195	.190	.188	.186	.184	.182
5.0	.858	.416	.319	.275	.252	.236	.226	.219	.214	.209	.206	.202	.199	.197	.195
6.0	1.097	.495	.373	.317	.287	.267	.252	.241	.232	.226	.221	.217	.213	.210	.208
7.0	1.406	.586	.432	.362	.325	.300	.282	.267	.256	.247	.239	.233	.228	.224	.221
8.0	1.822	.688	.495	.411	.356	.335	.313	.296	.282	.271	.261	.253	.246	.240	.235
(D = 1.20, C = .05) YE = .639															
4.0	.711	.367	.287	.250	.235	.225	.218	.212	.208	.204	.200	.198	.195	.193	.191
5.0	.918	.446	.342	.293	.268	.251	.240	.233	.227	.222	.217	.214	.210	.209	.205
6.0	1.178	.534	.411	.340	.308	.285	.269	.256	.246	.240	.235	.230	.226	.223	.219
7.0	1.515	.633	.465	.390	.349	.322	.301	.286	.273	.262	.254	.247	.242	.238	.234
8.0	1.969	.744	.535	.443	.394	.360	.336	.317	.302	.289	.279	.270	.262	.256	.250
(D = 1.20, C = .06) YE = .660															
4.0	.754	.389	.314	.265	.248	.237	.230	.223	.218	.214	.210	.207	.205	.202	.200
5.0	.978	.476	.364	.312	.284	.266	.254	.246	.239	.234	.229	.225	.221	.218	.216
6.0	1.259	.572	.429	.363	.328	.303	.285	.272	.261	.254	.248	.243	.239	.235	.231
7.0	1.624	.679	.499	.417	.373	.343	.321	.304	.290	.279	.270	.262	.256	.252	.248
8.0	2.115	.801	.575	.476	.422	.385	.358	.338	.321	.308	.296	.287	.278	.271	.265
(D = 1.20, C = .07) YE = .682															
4.0	.796	.412	.322	.280	.261	.250	.241	.234	.229	.224	.220	.217	.214	.212	.209
5.0	1.037	.505	.386	.331	.301	.281	.268	.259	.252	.246	.241	.236	.233	.229	.226
6.0	1.340	.609	.457	.386	.343	.321	.302	.287	.276	.268	.261	.256	.251	.247	.243
(D = 1.20, C = .08) YE = .704															
4.0	.839	.435	.339	.294	.275	.262	.253	.246	.240	.235	.230	.227	.224	.221	.218
5.0	1.097	.535	.409	.349	.317	.296	.282	.272	.264	.258	.252	.248	.244	.240	.237
6.0	1.421	.647	.484	.409	.368	.339	.318	.302	.290	.282	.275	.269	.264	.259	.255
7.0	1.841	.772	.566	.473	.421	.386	.360	.340	.324	.311	.300	.291	.285	.279	.274
8.0	2.408	.913	.655	.541	.478	.435	.404	.380	.361	.345	.331	.320	.310	.302	.295
(D = 1.20, C = .09) YE = .726															
4.0	.881	.458	.356	.309	.288	.275	.265	.257	.250	.245	.240	.237	.233	.230	.227
5.0	1.156	.565	.431	.368	.334	.311	.296	.285	.277	.270	.264	.259	.255	.251	.247
6.0	1.502	.685	.512	.432	.388	.357	.335	.318	.305	.296	.288	.282	.276	.272	.267
7.0	1.950	.819	.590	.500	.445	.407	.380	.358	.341	.327	.316	.306	.299	.293	.288
8.0	2.555	.970	.695	.573	.506	.460	.426	.401	.380	.363	.349	.337	.326	.318	.310
(D = 1.20, C = .10) YE = .748															
4.0	.923	.480	.374	.324	.302	.287	.276	.268	.261	.255	.250	.246	.243	.239	.236
5.0	1.216	.595	.454	.387	.350	.326	.310	.299	.290	.282	.276	.270	.266	.261	.258
6.0	1.583	.722	.540	.455	.408	.375	.351	.333	.319	.310	.302	.295	.289	.284	.279
7.0	2.059	.865	.633	.528	.469	.429	.399	.376	.358	.343	.331	.321	.313	.307	.301
8.0	2.701	1.026	.735	.606	.534	.485	.449	.422	.400	.382	.366	.353	.342	.333	.325
(D = 1.30, C = .02) YE = .624															
4.0	.610	.311	.244	.213	.199	.191	.186	.182	.178	.175	.173	.171	.169	.167	.166
5.0	.778	.373	.286	.247	.227	.214	.204	.197	.192	.189	.185	.183	.180	.178	.176
6.0	.989	.443	.333	.283	.258	.240	.227	.218	.210	.203	.198	.195	.192	.189	.187
7.0	1.266	.521	.383	.322	.290	.269	.253	.241	.231	.223	.216	.210	.206	.201	.198
8.0	1.643	.609	.438	.364	.325	.299	.279	.265	.253	.243	.235	.228	.222	.217	.213
(D = 1.30, C = .03) YE = .648															
4.0	.654	.334	.262	.225	.213	.204	.198	.193	.189	.186	.183	.181	.179	.177	.175
5.0	.839	.404	.309	.266	.244	.229	.218	.210	.203	.201	.197	.194	.191	.189	.187
6.0	1.073	.481	.361	.307	.278	.259	.244	.233	.225	.218	.212	.208	.205	.202	.199
7.0	1.379	.569	.418	.350	.315	.291	.273	.259	.249	.239	.232	.225	.220	.215	.211
8.0	1.796	.667	.479	.397	.354	.324	.303	.286	.273	.262	.253	.245	.239	.233	.228
(D = 1.30, C = .04) YE = .672															
4.0	.698	.358	.279	.243	.226	.217	.210	.204	.200	.196	.193	.191	.188	.186	.184
5.0	.900	.434	.332	.285	.261	.244	.232	.224	.218	.213	.209	.206	.203	.200	.198
6.0	1.157	.520	.390	.330	.299	.277	.261	.249	.240	.232	.226	.221	.217	.214	.211
7.0	1.493	.616	.452	.372	.339	.313	.293	.273	.255	.245	.247	.241	.235	.229	.225
8.0	1.950	.725	.520	.431	.382	.350	.326	.308	.293	.281	.271	.262	.255	.249	.243
(D = 1.30, C = .05) YE = .696															
4.0	.741	.381	.297	.259	.240	.229	.222	.216	.211	.207	.203	.200	.198	.196	.193
5.0	.962	.465	.355	.304	.278	.260	.247	.237	.231	.225	.221	.217	.214	.211	.208
6.0	1.241	.552	.413	.354	.319	.296	.278	.265	.255	.246	.239	.234	.230	.227	.223
7.0	1.606	.654	.487	.407	.364	.334	.313	.296	.283	.272	.263	.256	.249	.243	.239
8.0	2.103	.734	.561	.464	.411	.375	.349	.329	.313	.300	.289	.280	.271	.265	.259
(D = 1.30, C = .06) YE = .720															
4.0	.785	.414	.315	.274	.253	.242	.233	.227	.222	.217	.213	.210	.207	.205	.203
5.0	1.023	.495	.378	.324	.294	.275	.261	.250	.244	.238	.233	.229	.225	.222	.219
6.0	1.325	.597	.447	.373	.340	.314	.295	.281	.270	.260	.253	.248	.243	.239	.235
7.0	1.719	.712	.521	.435	.388	.356	.333	.315	.300	.288	.279	.271	.264	.258	.252
8.0	2.256	.842	.603	.497	.440	.401	.373	.351	.333	.319	.307	.297	.288	.280	.274
(D = 1.30, C = .07) YE = .744															
4.0	.828	.427	.333	.289	.267	.254	.245	.238	.232	.226	.224	.220	.217	.214	.212
5.0	1.085	.526	.411	.343	.311	.290	.275	.264	.256	.250	.245	.240	.236	.233	.230
6.0	1.409	.636	.475	.401	.361	.333	.312	.296	.285	.275	.266	.261	.256	.251	.248
7.0	1.832	.760	.556	.464	.413	.378	.353	.333	.318	.305	.294	.286	.278	.272	.266
8.0	2.409	.900	.644	.531	.463	.426	.396	.372	.353	.338	.325	.314	.304	.296	.289

(D = 1.30, C = .09) YE = .758

4.0	.872	.451	.351	.304	.281	.267	.257	.250	.243	.238	.234	.230	.227	.224	.221	.2
5.0	1.146	.557	.424	.362	.328	.305	.289	.277	.269	.262	.257	.252	.247	.244	.240	.2
6.0	1.493	.675	.514	.425	.381	.351	.329	.312	.299	.289	.280	.274	.269	.264	.260	.2
7.0	1.946	.808	.590	.492	.437	.400	.373	.352	.335	.321	.310	.301	.293	.286	.280	.2

8.0 2.363 .958 .685 .564 .497 .452 .419 .394 .373 .357 .343 .331 .320 .312 .305 .2

(D = 1.30, C = .09) YE = .792

4.0	.915	.474	.363	.312	.294	.280	.269	.261	.254	.249	.244	.240	.236	.233	.230	.2
5.0	1.207	.587	.447	.381	.345	.321	.304	.291	.282	.275	.269	.263	.259	.255	.251	.2
6.0	1.577	.714	.532	.448	.402	.370	.346	.328	.314	.302	.294	.287	.281	.276	.272	.2
7.0	2.059	.856	.625	.520	.462	.422	.393	.370	.352	.337	.326	.316	.307	.300	.293	.2
8.0	2.716	1.016	.726	.597	.526	.478	.442	.415	.394	.376	.361	.348	.337	.328	.320	.2

(D = 1.30, C = .10) YE = .816

4.0	.959	.497	.385	.334	.308	.292	.281	.272	.265	.259	.254	.250	.246	.242	.239	.2
5.0	1.269	.618	.470	.400	.352	.336	.318	.304	.295	.287	.280	.275	.270	.265	.262	.2
6.0	1.660	.752	.561	.472	.422	.388	.353	.344	.329	.317	.307	.300	.294	.289	.284	.2
7.0	2.172	.903	.659	.548	.486	.444	.413	.389	.370	.354	.341	.331	.322	.314	.307	.2
8.0	2.869	1.074	.767	.630	.554	.503	.466	.437	.414	.395	.379	.365	.353	.344	.335	.2

(D = 1.20, C = .04) YE = .516

4.0	.674	.348	.273	.243	.230	.222	.215	.210	.206	.202	.199	.197	.194	.192	.191
5.0	.865	.420	.323	.280	.257	.244	.235	.228	.223	.218	.215	.211	.208	.206	.203
6.0	1.105	.511	.377	.323	.293	.273	.258	.248	.241	.235	.230	.226	.223	.219	.217
7.0	1.417	.592	.436	.369	.331	.305	.287	.273	.262	.253	.247	.242	.237	.233	.230

(D = 1.20, C = .05) YE = .538

8.0	1.839	.694	.500	.418	.372	.341	.319	.302	.288	.276	.267	.259	.253	.248	.244
4.0	.717	.371	.290	.258	.244	.235	.227	.221	.217	.213	.210	.207	.204	.202	.200
5.0	.925	.450	.345	.299	.274	.259	.250	.242	.236	.231	.227	.223	.220	.217	.214
6.0	1.187	.537	.405	.346	.313	.291	.275	.264	.256	.250	.244	.240	.236	.232	.229
7.0	1.527	.633	.470	.396	.355	.328	.307	.291	.279	.269	.262	.257	.252	.248	.244
8.0	1.986	.751	.540	.450	.400	.366	.342	.323	.307	.295	.285	.276	.269	.264	.259

(D = 1.20, C = .06) YE = .560

4.0	.759	.392	.308	.273	.258	.247	.239	.233	.228	.224	.220	.217	.214	.212	.210
5.0	.985	.480	.368	.318	.291	.275	.264	.256	.249	.244	.239	.235	.231	.228	.225
6.0	1.268	.577	.433	.369	.334	.309	.292	.279	.271	.264	.258	.253	.249	.245	.241
7.0	1.637	.685	.504	.424	.380	.349	.327	.310	.296	.286	.278	.272	.267	.262	.258
8.0	2.134	.808	.581	.483	.428	.392	.365	.344	.327	.314	.302	.293	.285	.279	.275

(D = 1.20, C = .07) YE = .582

4.0	.802	.416	.325	.289	.272	.260	.252	.245	.239	.234	.231	.227	.224	.222	.219
5.0	1.045	.510	.391	.337	.308	.290	.279	.270	.262	.256	.251	.247	.243	.239	.236
6.0	1.350	.615	.461	.393	.354	.327	.309	.295	.286	.279	.272	.267	.262	.258	.254
7.0	1.746	.732	.538	.452	.404	.371	.347	.328	.313	.302	.294	.287	.281	.276	.272
8.0	2.282	.864	.621	.516	.457	.417	.388	.365	.347	.332	.320	.310	.302	.295	.290

(D = 1.20, C = .08) YE = .604

4.0	.845	.437	.343	.304	.286	.273	.264	.256	.250	.245	.241	.237	.234	.231	.229
5.0	1.105	.540	.413	.356	.324	.305	.293	.283	.275	.269	.263	.259	.254	.251	.247
6.0	1.432	.653	.489	.416	.374	.345	.325	.311	.301	.293	.286	.280	.275	.270	.266
7.0	1.856	.779	.572	.480	.428	.392	.366	.346	.331	.318	.309	.302	.296	.291	.286
8.0	2.430	.921	.661	.548	.485	.442	.410	.386	.367	.351	.338	.327	.318	.311	.305

(D = 1.20, C = .09) YE = .626

4.0	.887	.462	.361	.319	.300	.286	.276	.268	.261	.256	.251	.248	.244	.241	.238
5.0	1.165	.570	.436	.375	.341	.321	.307	.297	.289	.281	.275	.270	.266	.262	.258
6.0	1.513	.691	.517	.437	.394	.364	.342	.327	.316	.307	.300	.294	.288	.283	.279
7.0	1.966	.826	.606	.508	.452	.414	.386	.364	.348	.335	.325	.317	.311	.305	.300
8.0	2.577	.978	.702	.581	.513	.467	.433	.407	.387	.370	.355	.344	.335	.327	.321

(D = 1.20, C = .10) YE = .648

4.0	.930	.485	.378	.334	.314	.299	.288	.280	.273	.267	.262	.258	.254	.251	.248
5.0	1.225	.600	.458	.394	.358	.335	.322	.311	.302	.294	.288	.282	.277	.273	.269
6.0	1.595	.729	.545	.462	.415	.382	.359	.343	.331	.322	.314	.307	.301	.296	.291
7.0	2.076	.873	.639	.535	.475	.435	.406	.383	.365	.351	.341	.333	.325	.319	.314
8.0	2.725	1.035	.742	.614	.541	.492	.456	.429	.407	.388	.373	.361	.351	.343	.336

(D = 1.30, C = .02) YE = .624

4.0	.615	.314	.247	.219	.207	.199	.194	.190	.186	.183	.181	.179	.177	.175	.174
5.0	.783	.377	.290	.252	.232	.219	.211	.205	.200	.197	.193	.191	.188	.186	.184
6.0	.997	.447	.336	.289	.263	.245	.233	.223	.215	.210	.206	.203	.200	.197	.195
7.0	1.276	.525	.387	.328	.295	.274	.258	.246	.236	.228	.222	.216	.212	.209	.206
8.0	1.658	.614	.442	.370	.331	.304	.285	.270	.258	.248	.240	.234	.228	.223	.218

(D = 1.30, C = .03) YE = .648

4.0	.659	.338	.265	.234	.221	.213	.206	.201	.197	.194	.191	.189	.187	.185	.183
5.0	.845	.408	.313	.271	.250	.235	.225	.219	.214	.209	.206	.203	.200	.197	.195
6.0	1.081	.486	.365	.312	.284	.264	.250	.239	.231	.225	.221	.217	.213	.210	.208
7.0	1.390	.573	.422	.356	.321	.295	.278	.264	.254	.245	.238	.231	.227	.223	.220
8.0	1.812	.673	.484	.404	.360	.330	.308	.292	.278	.268	.258	.251	.245	.239	.234

(D = 1.30, C = .04) YE = .672

4.0	.703	.361	.283	.250	.235	.225	.219	.213	.209	.205	.202	.199	.197	.195	.193
5.0	.907	.438	.336	.291	.267	.251	.240	.233	.227	.222	.218	.215	.212	.209	.206
6.0	1.166	.525	.394	.336	.305	.283	.267	.256	.246	.240	.235	.230	.227	.223	.220
7.0	1.505	.622	.457	.385	.345	.318	.298	.283	.271	.262	.254	.247	.242	.238	.234
8.0	1.967	.732	.525	.437	.389	.356	.332	.313	.299	.287	.277	.268	.261	.255	.250

(D = 1.30, C = .05) YE = .696

4.0	.747	.385	.301	.265	.249	.239	.231	.225	.220	.216	.213	.210	.207	.205	.203
5.0	.969	.469	.359	.310	.284	.266	.255	.247	.240	.235	.231	.227	.223	.220	.218
6.0	1.250	.564	.422	.360	.325	.301	.284	.272	.261	.255	.249	.244	.240	.236	.233
7.0	1.619	.670	.491	.413	.370	.340	.319	.302	.289	.279	.270	.262	.257	.252	.249
8.0	2.121	.790	.567	.471	.418	.382	.355	.335	.319	.306	.295	.286	.278	.271	.266

(D = 1.30, C = .06) YE = .720

4.0	.790	.408	.319	.281	.263	.252	.243	.237	.231	.227	.223	.220	.217	.214	.212
5.0	1.031	.500	.382	.329	.301	.282	.269	.261	.254	.248	.243	.239	.235	.232	.229
6.0	1.335	.603	.451	.384	.346	.320	.302	.288	.277	.269	.263	.258	.253	.249	.245
7.0	1.733	.718	.526	.442	.395	.363	.339	.321	.306	.295	.286	.278	.272	.267	.263
8.0	2.276	.849	.608	.504	.447	.407	.379	.357	.339	.325	.313	.303	.295	.288	.281

(D = 1.30, C = .07) YE = .744															
4.0	.834	.432	.337	.296	.277	.265	.256	.249	.243	.238	.234	.230	.227	.224	.222
5.0	1.093	.531	.405	.349	.318	.298	.284	.275	.267	.261	.255	.251	.247	.243	.240
6.0	1.419	.642	.480	.438	.367	.339	.319	.304	.292	.284	.277	.271	.266	.262	.258
7.0	1.847	.766	.561	.471	.420	.385	.359	.339	.324	.312	.302	.293	.287	.282	.277
8.0	2.431	.908	.650	.538	.476	.433	.402	.379	.360	.344	.331	.321	.312	.304	.297
(D = 1.30, C = .08) YE = .758															
4.0	.878	.455	.355	.312	.291	.278	.268	.260	.254	.249	.244	.241	.237	.234	.232
5.0	1.154	.562	.429	.368	.335	.313	.299	.288	.280	.273	.268	.263	.258	.254	.251
6.0	1.504	.681	.509	.431	.388	.357	.336	.320	.307	.299	.291	.285	.280	.275	.271
7.0	1.961	.815	.596	.499	.444	.407	.379	.358	.342	.329	.318	.309	.302	.296	.291
8.0	2.585	.966	.691	.572	.504	.459	.426	.400	.380	.363	.349	.338	.329	.320	.313
(D = 1.30, C = .09) YE = .792															
4.0	.922	.479	.372	.327	.305	.291	.280	.272	.265	.260	.255	.251	.247	.244	.241
5.0	1.216	.593	.452	.388	.352	.329	.313	.302	.294	.286	.280	.275	.270	.266	.262
6.0	1.588	.720	.538	.455	.408	.376	.353	.336	.323	.313	.306	.299	.293	.288	.283
7.0	2.075	.863	.631	.528	.469	.429	.400	.377	.359	.346	.334	.324	.317	.311	.305
8.0	2.740	1.025	.732	.605	.533	.485	.449	.422	.400	.382	.367	.356	.345	.336	.328
(D = 1.30, C = .10) YE = .816															
4.0	.966	.502	.390	.343	.319	.304	.293	.284	.277	.271	.266	.261	.257	.254	.251
5.0	1.278	.623	.475	.407	.369	.345	.328	.316	.307	.299	.292	.287	.282	.277	.273
6.0	1.673	.759	.566	.479	.429	.395	.371	.353	.338	.328	.320	.313	.306	.301	.296
7.0	2.189	.911	.666	.556	.494	.451	.420	.395	.377	.362	.350	.340	.332	.325	.319
8.0	2.894	1.083	.774	.639	.562	.511	.473	.444	.421	.401	.385	.373	.362	.353	.344

I = 120.0

S	GROSS AREA OF HOUSING PROJECT (RAI)														
	50	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450
(D = .80, C = .02) YE = .364															
4.0	.498	.268	.219	.204	.196	.190	.186	.183	.180	.178	.176	.175	.174	.172	.171
5.0	.613	.309	.246	.221	.211	.204	.199	.195	.191	.188	.186	.184	.182	.181	.179
6.0	.755	.354	.276	.245	.229	.218	.212	.206	.202	.199	.196	.193	.191	.189	.187
7.0	.933	.404	.309	.271	.250	.235	.225	.219	.213	.209	.206	.203	.200	.198	.195
8.0	1.166	.464	.344	.299	.273	.256	.243	.233	.225	.220	.216	.212	.209	.206	.204
(D = .80, C = .03) YE = .378															
4.0	.537	.289	.235	.218	.209	.203	.198	.195	.192	.189	.187	.185	.183	.182	.181
5.0	.666	.336	.266	.239	.227	.219	.213	.208	.204	.201	.198	.196	.194	.192	.190
6.0	.826	.389	.302	.267	.247	.235	.228	.222	.217	.213	.209	.206	.204	.201	.199
7.0	1.028	.446	.340	.297	.273	.256	.244	.236	.230	.225	.221	.217	.214	.212	.209
8.0	1.291	.514	.381	.328	.299	.279	.264	.253	.244	.238	.233	.229	.225	.222	.219
(D = .80, C = .04) YE = .392															
4.0	.575	.310	.252	.233	.223	.216	.210	.206	.203	.200	.197	.195	.193	.192	.190
5.0	.720	.364	.287	.257	.243	.234	.227	.221	.217	.213	.210	.207	.205	.203	.201
6.0	.898	.423	.328	.289	.266	.253	.244	.237	.231	.227	.223	.220	.217	.214	.212
7.0	1.123	.483	.371	.322	.295	.275	.262	.253	.246	.241	.236	.232	.229	.225	.223
8.0	1.416	.555	.417	.358	.325	.302	.286	.273	.262	.255	.250	.245	.241	.237	.234
(D = .80, C = .05) YE = .406															
4.0	.614	.352	.269	.248	.236	.228	.222	.218	.214	.211	.208	.205	.203	.202	.200
5.0	.773	.392	.308	.275	.259	.249	.241	.235	.230	.226	.222	.219	.216	.214	.212
6.0	.970	.457	.353	.310	.285	.270	.260	.252	.246	.241	.237	.233	.229	.227	.224
7.0	1.218	.530	.401	.348	.317	.295	.281	.271	.263	.257	.251	.247	.243	.239	.236
8.0	1.540	.615	.453	.388	.351	.325	.307	.293	.281	.273	.267	.261	.257	.253	.249
(D = .80, C = .06) YE = .420															
4.0	.652	.353	.285	.263	.250	.241	.234	.229	.225	.221	.218	.216	.213	.211	.210
5.0	.827	.419	.329	.292	.276	.264	.255	.248	.243	.238	.234	.231	.228	.225	.223
6.0	1.041	.492	.379	.332	.304	.287	.276	.268	.261	.255	.250	.246	.242	.239	.236
7.0	1.312	.572	.432	.373	.340	.316	.299	.288	.280	.273	.267	.262	.257	.253	.250
8.0	1.665	.666	.490	.418	.377	.349	.328	.312	.300	.291	.284	.278	.273	.268	.264
(D = .80, C = .07) YE = .434															
4.0	.691	.374	.302	.277	.263	.254	.246	.241	.236	.232	.229	.226	.223	.221	.219
5.0	.880	.447	.350	.310	.292	.279	.269	.262	.255	.250	.246	.242	.239	.236	.234
(D = .80, C = .08) YE = .448															
4.0	.729	.395	.319	.292	.277	.266	.258	.252	.247	.243	.239	.236	.233	.231	.229
5.0	.933	.474	.371	.328	.308	.294	.283	.275	.268	.263	.258	.254	.250	.247	.245
6.0	1.185	.560	.431	.375	.342	.322	.309	.298	.290	.283	.277	.272	.268	.264	.261
7.0	1.502	.656	.494	.425	.384	.357	.336	.323	.313	.304	.297	.291	.286	.281	.277
8.0	1.915	.767	.563	.478	.429	.395	.371	.352	.337	.326	.318	.310	.304	.299	.294
(D = .80, C = .09) YE = .462															
4.0	.768	.417	.335	.307	.290	.279	.270	.264	.258	.253	.249	.246	.243	.241	.238
5.0	.987	.502	.392	.346	.324	.309	.297	.288	.281	.275	.270	.266	.262	.259	.255
6.0	1.256	.595	.456	.396	.361	.339	.325	.314	.305	.297	.291	.286	.281	.277	.273
7.0	1.597	.692	.525	.450	.407	.377	.355	.340	.329	.320	.313	.306	.300	.295	.291
8.0	2.039	.818	.599	.507	.455	.419	.392	.372	.355	.344	.335	.327	.320	.314	.309
(D = .80, C = .10) YE = .476															
4.0	.806	.438	.352	.322	.304	.292	.282	.275	.269	.264	.260	.256	.253	.250	.248
5.0	1.040	.529	.413	.363	.340	.324	.311	.302	.294	.288	.282	.277	.273	.270	.266
6.0	1.328	.629	.482	.418	.380	.357	.341	.329	.320	.311	.305	.299	.294	.289	.285
7.0	1.691	.740	.556	.476	.429	.397	.373	.357	.346	.336	.328	.321	.315	.309	.304
8.0	2.164	.868	.635	.537	.480	.442	.413	.391	.374	.361	.351	.343	.336	.330	.324
(D = .90, C = .02) YE = .416															
4.0	.520	.275	.224	.203	.199	.194	.189	.186	.183	.181	.179	.177	.176	.174	.173
5.0	.645	.318	.252	.227	.216	.209	.203	.198	.194	.191	.189	.187	.185	.183	.182
6.0	.799	.369	.284	.252	.234	.223	.216	.211	.206	.202	.199	.197	.194	.192	.190
7.0	.996	.427	.320	.279	.257	.242	.231	.224	.219	.214	.210	.207	.204	.201	.199
8.0	1.254	.492	.361	.308	.282	.263	.250	.239	.231	.225	.221	.217	.214	.211	.208
(D = .90, C = .03) YE = .432															
4.0	.560	.295	.241	.223	.213	.206	.201	.197	.194	.192	.189	.187	.186	.184	.183
5.0	.700	.346	.273	.245	.232	.223	.217	.212	.207	.204	.201	.199	.196	.194	.193
6.0	.874	.404	.311	.274	.254	.241	.233	.226	.221	.217	.213	.210	.207	.205	.203
7.0	1.094	.470	.351	.306	.280	.263	.250	.241	.235	.230	.225	.222	.218	.215	.213
8.0	1.384	.544	.398	.339	.308	.287	.271	.259	.249	.243	.238	.234	.230	.226	.223
(D = .90, C = .04) YE = .448															
4.0	.599	.318	.258	.238	.227	.219	.214	.209	.205	.202	.200	.198	.196	.194	.192
5.0	.755	.374	.295	.253	.249	.239	.231	.225	.221	.217	.213	.210	.208	.206	.204
6.0	.948	.440	.337	.296	.273	.259	.249	.242	.236	.231	.227	.223	.220	.217	.215
7.0	1.193	.513	.383	.332	.303	.283	.268	.259	.252	.246	.241	.237	.233	.230	.227
8.0	1.515	.595	.435	.369	.334	.311	.293	.280	.269	.261	.255	.250	.246	.242	.238

(D = 1.30, C = .07) YE = .744															
4.0	.840	.435	.342	.305	.288	.275	.266	.259	.253	.248	.244	.240	.237	.234	.232
5.0	1.100	.535	.410	.355	.326	.307	.295	.285	.278	.271	.266	.261	.257	.253	.250
6.0	1.430	.647	.485	.414	.373	.345	.327	.312	.303	.295	.288	.282	.277	.273	.269
7.0	1.862	.773	.566	.478	.426	.391	.365	.347	.332	.320	.311	.304	.298	.292	.288
8.0	2.452	.915	.655	.546	.493	.440	.409	.385	.366	.351	.339	.329	.320	.313	.307
(D = 1.30, C = .08) YE = .768															
4.0	.884	.459	.360	.321	.302	.289	.279	.271	.265	.259	.255	.251	.248	.245	.242
5.0	1.163	.557	.433	.375	.343	.323	.310	.300	.291	.284	.279	.274	.269	.265	.262
6.0	1.515	.687	.514	.438	.394	.365	.344	.329	.319	.310	.303	.296	.291	.286	.282
7.0	1.977	.821	.601	.506	.451	.413	.385	.366	.350	.337	.327	.320	.313	.307	.302
8.0	2.608	.974	.697	.580	.512	.466	.433	.407	.386	.371	.358	.346	.337	.329	.323
(D = 1.30, C = .09) YE = .792															
4.0	.929	.483	.378	.337	.317	.303	.292	.283	.277	.271	.266	.262	.258	.255	.252
5.0	1.225	.598	.456	.394	.361	.339	.325	.314	.305	.298	.291	.286	.281	.277	.273
6.0	1.600	.726	.543	.462	.415	.384	.362	.346	.334	.325	.317	.311	.305	.300	.295
7.0	2.092	.870	.637	.535	.476	.435	.406	.385	.368	.354	.344	.336	.329	.322	.317
8.0	2.764	1.033	.739	.613	.541	.492	.456	.429	.407	.390	.376	.364	.354	.346	.339
(D = 1.30, C = .1) YE = .816															
4.0	.973	.507	.397	.353	.331	.316	.305	.296	.288	.282	.277	.273	.269	.265	.262
5.0	1.287	.629	.480	.414	.378	.355	.340	.328	.319	.311	.304	.298	.293	.289	.285
6.0	1.685	.765	.572	.486	.436	.403	.380	.362	.350	.340	.332	.325	.318	.313	.308
7.0	2.207	.919	.672	.564	.501	.458	.427	.404	.386	.371	.360	.352	.344	.337	.332
8.0	2.920	1.092	.781	.647	.570	.513	.480	.451	.427	.409	.395	.382	.371	.363	.356

(D = .90, C = .04) YE = .448
4.0 .604 .323 .265 .247 .236 .228 .223 .218 .214 .211 .209 .206 .204 .203 .201
5.0 .761 .384 .318 .273 .258 .248 .240 .234 .230 .226 .222 .219 .217 .215 .213
6.0 .955 .444 .342 .303 .281 .263 .259 .251 .245 .240 .236 .233 .229 .227 .224
7.0 1.203 .518 .388 .339 .310 .290 .278 .269 .261 .255 .250 .246 .242 .239 .236
8.0 1.528 .612 .440 .377 .342 .318 .300 .287 .278 .271 .265 .260 .255 .251 .248
(D = .90, C = .05) YE = .464
4.0 .644 .345 .282 .262 .250 .242 .235 .230 .226 .223 .220 .217 .215 .213 .211
5.0 .816 .418 .321 .291 .275 .264 .255 .249 .243 .239 .235 .232 .229 .226 .224
6.0 1.030 .480 .369 .325 .301 .285 .276 .267 .261 .255 .250 .246 .243 .240 .237
7.0 1.302 .562 .421 .366 .333 .311 .297 .287 .279 .272 .266 .262 .257 .254 .250
8.0 1.660 .654 .478 .418 .369 .342 .322 .307 .297 .289 .283 .277 .272 .268 .264
(D = .90, C = .06) YE = .480
4.0 .684 .367 .300 .278 .264 .255 .248 .242 .238 .234 .231 .228 .226 .223 .221
5.0 .872 .437 .343 .310 .292 .279 .270 .263 .257 .252 .248 .244 .241 .238 .236
6.0 1.105 .515 .395 .348 .320 .304 .293 .284 .276 .270 .265 .260 .256 .253 .250
7.0 1.401 .616 .452 .392 .356 .332 .316 .305 .296 .289 .282 .277 .272 .268 .265
8.0 1.791 .737 .515 .439 .396 .365 .344 .327 .317 .308 .301 .294 .289 .284 .279
(D = .90, C = .07) YE = .496
4.0 .724 .389 .317 .293 .279 .268 .260 .254 .249 .245 .242 .239 .236 .234 .232
5.0 .927 .465 .365 .328 .309 .295 .285 .277 .270 .265 .260 .256 .253 .250 .247
6.0 1.180 .551 .422 .370 .340 .323 .310 .300 .292 .285 .279 .274 .270 .266 .263
7.0 1.500 .649 .484 .419 .379 .352 .336 .323 .313 .305 .298 .293 .287 .283 .279
8.0 1.922 .760 .553 .470 .422 .390 .366 .343 .327 .316 .308 .301 .294 .289 .285
(D = .90, C = .08) YE = .512
4.0 .763 .419 .335 .309 .293 .282 .273 .266 .261 .257 .253 .249 .247 .244 .242
5.0 .983 .493 .386 .347 .326 .311 .300 .291 .284 .278 .273 .269 .265 .262 .259
6.0 1.254 .586 .449 .392 .360 .341 .327 .316 .307 .300 .293 .288 .283 .279 .276
7.0 1.607 .693 .515 .445 .402 .373 .355 .342 .331 .322 .314 .308 .302 .298 .293
8.0 2.054 .812 .591 .501 .449 .414 .388 .368 .355 .345 .336 .328 .322 .316 .311
(D = .90, C = .09) YE = .528
4.0 .803 .432 .352 .324 .307 .295 .286 .279 .273 .268 .264 .260 .257 .254 .252
5.0 1.038 .522 .408 .355 .342 .326 .314 .305 .297 .291 .286 .281 .277 .273 .270
6.0 1.329 .622 .475 .414 .379 .359 .344 .332 .322 .314 .308 .302 .297 .293 .289
7.0 1.699 .736 .547 .471 .425 .394 .374 .360 .348 .339 .331 .324 .318 .312 .307
8.0 2.185 .865 .623 .531 .476 .438 .410 .388 .375 .363 .354 .346 .339 .332 .327
(D = .90, C = .10) YE = .544
4.0 .843 .454 .370 .340 .321 .308 .298 .291 .284 .279 .275 .271 .268 .265 .262
5.0 1.094 .550 .429 .384 .359 .342 .329 .319 .311 .304 .298 .293 .289 .285 .282
6.0 1.404 .657 .512 .436 .399 .377 .361 .348 .338 .329 .322 .316 .311 .306 .302
7.0 1.798 .780 .579 .497 .448 .414 .393 .378 .365 .355 .347 .339 .333 .327 .322
8.0 2.317 .917 .666 .562 .502 .462 .432 .409 .394 .382 .372 .363 .355 .348 .342
(D = 1.00, C = .02) YE = .468
4.0 .548 .286 .235 .220 .211 .205 .200 .197 .194 .191 .189 .187 .186 .184 .183
5.0 .684 .336 .263 .241 .229 .221 .215 .210 .206 .203 .200 .198 .196 .194 .192
6.0 .853 .392 .299 .266 .248 .237 .230 .224 .219 .215 .211 .208 .206 .203 .201
7.0 1.071 .455 .340 .296 .271 .255 .245 .238 .232 .227 .223 .219 .216 .213 .211
8.0 1.360 .526 .385 .330 .298 .273 .253 .252 .245 .239 .235 .230 .227 .224 .221
(D = 1.00, C = .03) YE = .486
4.0 .589 .309 .253 .236 .226 .219 .213 .209 .205 .203 .200 .198 .196 .195 .193
5.0 .741 .365 .285 .260 .246 .237 .230 .224 .220 .216 .213 .210 .208 .206 .204
6.0 .931 .429 .326 .299 .288 .256 .247 .240 .234 .230 .226 .222 .219 .217 .215
7.0 1.174 .510 .373 .323 .295 .276 .265 .256 .249 .244 .239 .235 .231 .228 .225
8.0 1.497 .580 .423 .362 .325 .302 .286 .273 .265 .258 .253 .248 .244 .240 .237
(D = 1.00, C = .04) YE = .504
4.0 .629 .331 .271 .252 .240 .232 .226 .221 .217 .214 .211 .209 .207 .205 .203
5.0 .798 .394 .317 .279 .263 .253 .245 .238 .233 .229 .226 .223 .220 .218 .215
6.0 1.008 .465 .353 .311 .288 .274 .264 .255 .250 .245 .240 .236 .233 .230 .228
7.0 1.277 .545 .405 .350 .318 .297 .284 .275 .267 .261 .255 .251 .247 .243 .240
8.0 1.635 .635 .462 .393 .353 .327 .308 .294 .285 .277 .271 .265 .261 .256 .253
(D = 1.00, C = .05) YE = .522
4.0 .670 .353 .289 .267 .255 .245 .239 .233 .229 .225 .222 .220 .218 .215 .214
5.0 .855 .423 .329 .298 .281 .269 .260 .253 .247 .242 .238 .235 .232 .229 .227
6.0 1.085 .512 .380 .334 .308 .293 .281 .273 .266 .260 .255 .251 .247 .244 .241
7.0 1.380 .590 .438 .377 .342 .313 .304 .293 .285 .278 .272 .266 .262 .258 .255
8.0 1.772 .689 .501 .425 .380 .351 .330 .314 .304 .296 .289 .283 .277 .273 .269
(D = 1.00, C = .06) YE = .540
4.0 .711 .375 .306 .283 .269 .259 .252 .246 .241 .237 .234 .231 .228 .226 .224
5.0 .912 .452 .351 .317 .298 .285 .275 .267 .261 .256 .251 .248 .244 .241 .239
6.0 1.163 .538 .407 .356 .328 .311 .299 .289 .281 .275 .269 .265 .261 .257 .254
7.0 1.484 .635 .471 .404 .365 .340 .323 .312 .302 .294 .288 .282 .277 .273 .269
8.0 1.910 .743 .540 .456 .407 .375 .353 .335 .324 .315 .307 .300 .294 .289 .285
(D = 1.00, C = .07) YE = .558
4.0 .752 .398 .324 .299 .283 .272 .264 .258 .253 .248 .245 .242 .239 .236 .234
5.0 .979 .481 .373 .335 .315 .300 .290 .281 .275 .269 .264 .260 .256 .253 .250
6.0 1.240 .575 .435 .379 .348 .329 .316 .305 .297 .290 .284 .279 .274 .270 .267
7.0 1.587 .680 .504 .430 .389 .361 .343 .330 .320 .311 .304 .298 .293 .288 .284
8.0 2.047 .798 .578 .488 .435 .410 .375 .356 .344 .333 .325 .318 .311 .306 .301

(D = 1.30, C = .06) YE = .720
 4.0 .802 .416 .329 .300 .283 .272 .263 .257 .251 .247 .243 .239 .236 .234 .232 .230
 5.0 1.046 .502 .390 .343 .317 .301 .290 .281 .274 .268 .263 .259 .255 .252 .249 .246

6.0 1.355 .613 .460 .396 .359 .335 .318 .307 .298 .290 .284 .278 .274 .269 .266 .262
 7.0 1.760 .730 .536 .456 .408 .375 .352 .335 .322 .313 .305 .299 .293 .288 .283 .279
 8.0 2.316 .863 .619 .519 .460 .421 .392 .369 .353 .339 .328 .319 .313 .307 .301 .297

(D = 1.30, C = .07) YE = .744
 4.0 .846 .440 .347 .315 .298 .286 .277 .269 .263 .258 .254 .251 .247 .245 .242 .240
 5.0 1.108 .541 .414 .363 .335 .318 .306 .296 .288 .282 .276 .272 .267 .264 .261 .258
 6.0 1.441 .653 .489 .421 .380 .354 .336 .324 .314 .306 .299 .293 .288 .283 .279 .276
 7.0 1.876 .779 .572 .485 .433 .397 .373 .355 .340 .330 .322 .315 .309 .303 .299 .294
 8.0 2.473 .923 .661 .553 .490 .447 .415 .391 .374 .359 .347 .338 .330 .324 .318 .313

(D = 1.30, C = .08) YE = .768
 4.0 .891 .464 .366 .333 .313 .300 .290 .282 .276 .270 .266 .262 .258 .255 .253 .250
 5.0 1.171 .572 .437 .383 .353 .335 .321 .311 .303 .296 .290 .285 .280 .276 .273 .270
 6.0 1.526 .693 .519 .445 .401 .373 .354 .341 .330 .321 .314 .308 .302 .297 .293 .289
 7.0 1.992 .828 .607 .514 .458 .420 .394 .374 .359 .348 .339 .331 .325 .319 .314 .309
 8.0 2.631 .982 .703 .587 .519 .473 .439 .414 .395 .379 .366 .356 .348 .341 .335 .329

(D = 1.30, C = .09) YE = .792
 4.0 .935 .488 .385 .349 .328 .314 .303 .295 .288 .282 .277 .273 .269 .266 .263 .261
 5.0 1.234 .603 .461 .403 .370 .351 .337 .326 .317 .309 .303 .297 .293 .289 .285 .281
 6.0 1.612 .732 .548 .469 .423 .393 .372 .358 .347 .337 .329 .322 .316 .311 .307 .302
 7.0 2.108 .877 .642 .543 .483 .443 .415 .394 .377 .366 .356 .348 .341 .334 .329 .324
 8.0 2.788 1.042 .746 .622 .549 .499 .463 .436 .416 .399 .385 .374 .366 .358 .352 .346

(D = 1.30, C = .10) YE = .816
 4.0 .980 .512 .403 .365 .343 .328 .317 .307 .300 .294 .289 .284 .280 .277 .274 .271
 5.0 1.296 .635 .485 .423 .388 .368 .353 .341 .331 .323 .316 .310 .305 .301 .297 .293
 6.0 1.698 .772 .577 .493 .444 .412 .390 .375 .363 .353 .344 .337 .331 .325 .320 .316
 7.0 2.224 .926 .678 .572 .508 .465 .436 .413 .396 .384 .373 .364 .357 .350 .344 .330
 8.0 2.945 1.111 .788 .656 .578 .525 .487 .458 .436 .419 .404 .393 .383 .375 .368 .362

ประวัติการศึกษา

ชื่อ

นายกมล ภูวนันท์

วุฒิการศึกษา

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คณะวิศวกรรมศาสตร์

จุฬาลงกรณ์มหาวิทยาลัย

ปีการศึกษา 2516

ตำแหน่งและสถานที่ทำงาน

วิศวกร 4 ประจำแผนกวิศวกรรมโยธา

กองวิศวกรรม

ฝ่ายการวิจัยและก่อสร้าง

การเคหะแห่งชาติ



ประวัติการทำงาน

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