

Table 4B-2 Summary of Required Reservoir Capacity

(Unit: MCM)

<u>Year</u>	<u>Inflow at Dam Site</u>	<u>Required Reservoir Capacity</u>
1955	162.5	123.5
56	227.7	132.7
57	199.0	139.5
58	225.1	152.6
59	197.8	116.2
60	202.8	139.0
61	241.9	111.5
62	214.0	117.3
63	247.7	130.1
64	218.7	118.8
65	242.2	108.4
66	209.4	113.4
67	224.2	90.5
68	242.3	129.0
69	217.0	136.6
70	229.7	127.5
71	175.4	149.5
72	234.4	173.4
73	239.7	157.5
74	256.0	118.9
75	244.9	118.2
76	195.2	142.0
77	242.6	127.1
78	201.5	95.2
79	157.0	193.7
80	257.7	256.9

FIGURE 4B-2 WATER BALANCE SIMULATION (1955 to 1980)

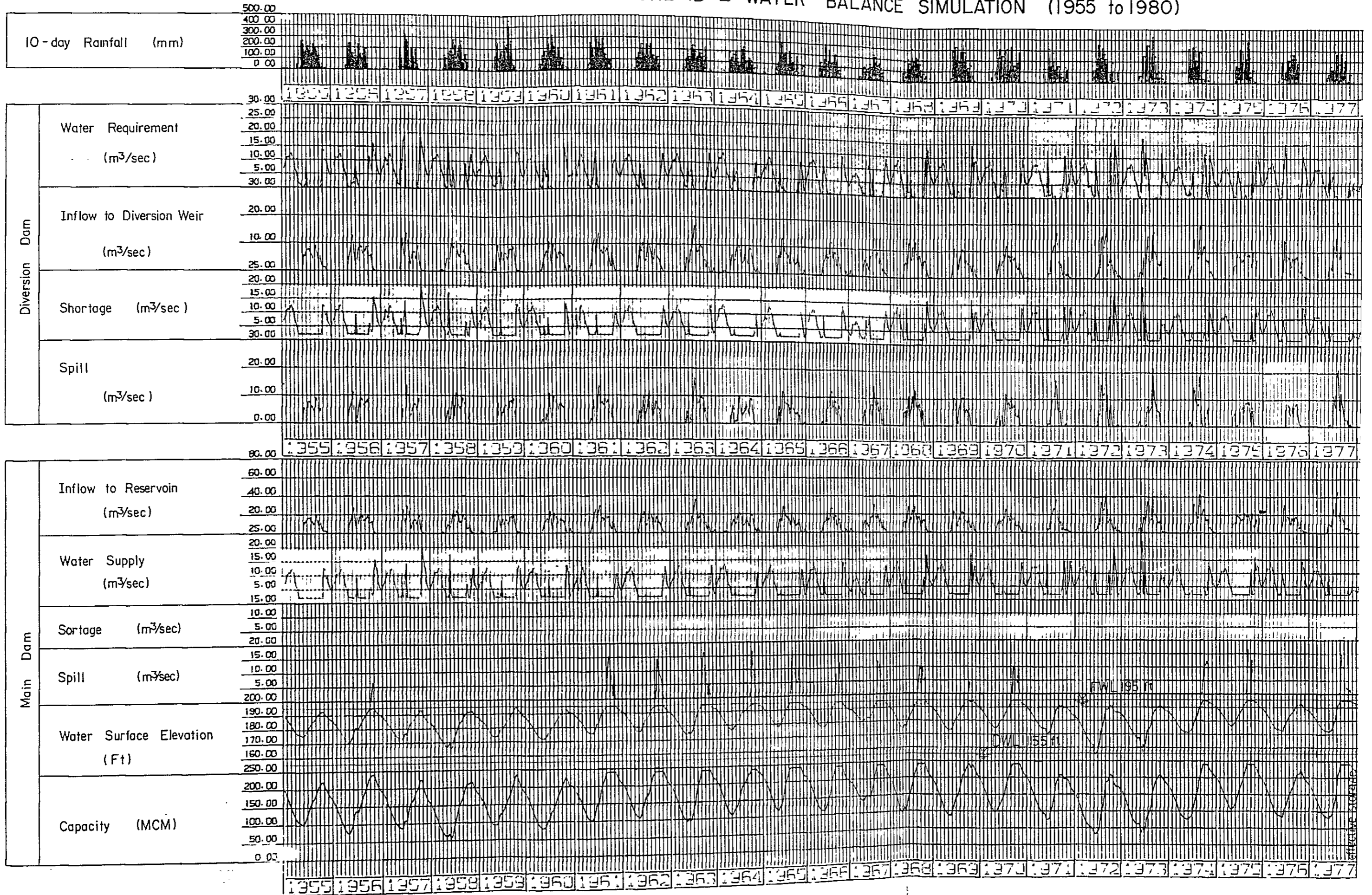
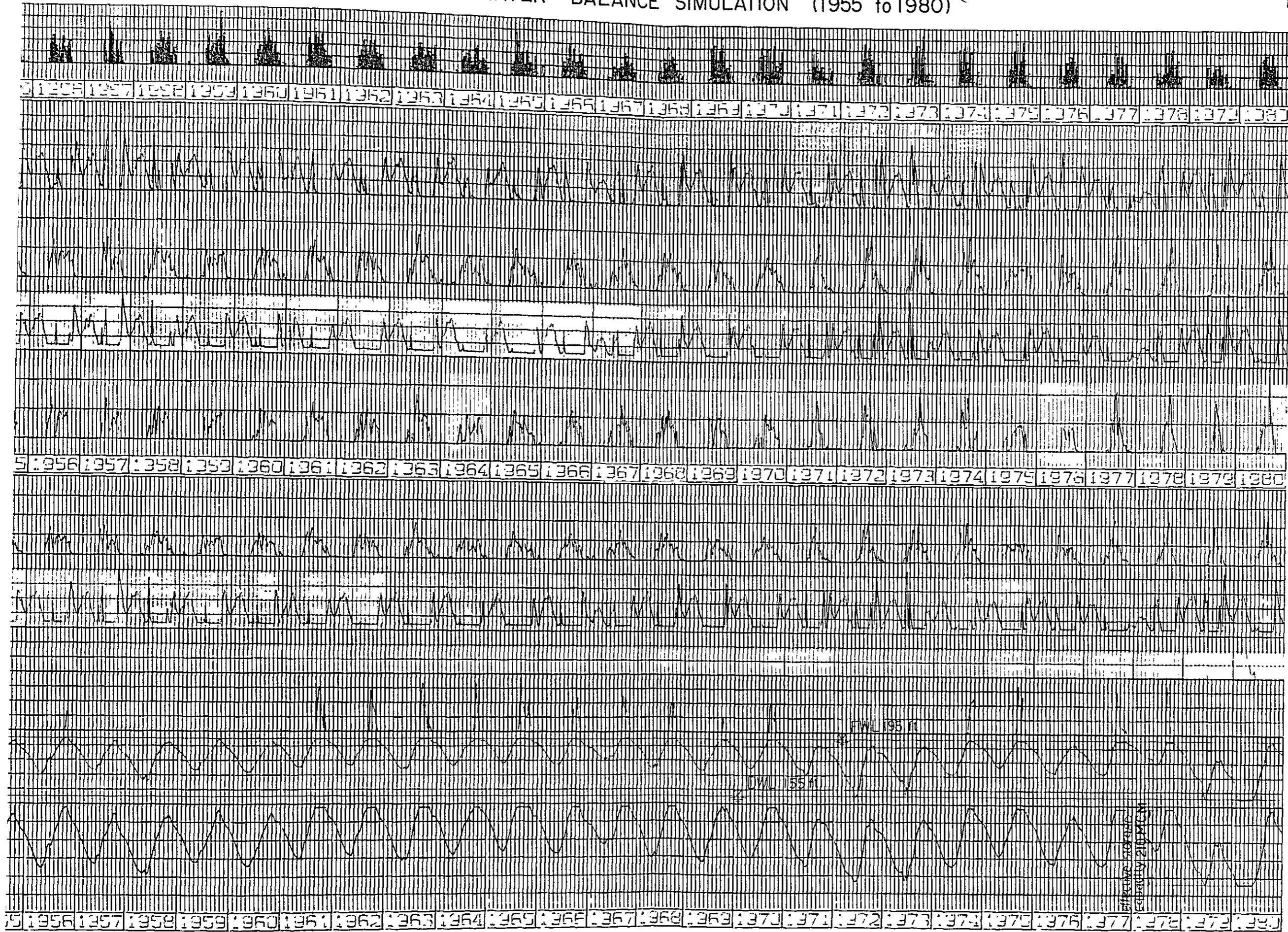


FIGURE 4B-2 WATER BALANCE SIMULATION (1955 to 1980)





Water Balance Simulation

A (1) :	Run-off inflow into reservoir	(cu.m/s - 10 days)
A (2) :	Run-off inflow into diversion dam	( - do - )
A (3) :	Total water requirements	( " )
A (4) :	Spill water at diversion dam	( " )
A (5) :	Water shortage at diversion dam (with hydro-power)	( " )
A (6) :	Possible storage water into reservoir	( " )
A (7) :	Water to be discharged from reservoir without storage	( " )
A (8) :	Water to be discharged from stored water of reservoir	( " )
A (9) :	Total discharge from reservoir	( " )
A (10) :	Evaporation loss from water surface in reservoir	( " )
A (11) :	Effective reservoir capacity	( " )
A (12) :	Shortage	( " )
A (13) :	Spill water at reservoir	( " )
A (14) :	Total reservoir capacity	( MCM )
A (15) :	Water surface elevation	( FT )
A (16) :	Water release for hydro-power	(cu.m/s - 10 days)



Table 4B-3 (2)

YEAR 1956	OXKAN DAM IRRIGATION PROJECT ( C.H/SEC-10DAYS)															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1 10	0.0	0.0	64.7	0.0	64.7	0.0	0.0	64.7	64.7	8.0	1557.9	0.0	0.0	164.6	184.9	0.0
20	0.0	0.0	75.1	0.0	75.1	0.0	0.0	75.1	75.1	7.8	1475.0	0.0	0.0	157.4	183.9	0.0
31	0.0	0.0	103.3	0.0	103.3	0.0	0.0	103.3	103.3	8.4	1363.3	0.0	0.0	147.8	182.5	0.0
2 10	0.0	0.0	110.7	0.0	110.7	0.0	0.0	110.7	110.7	9.5	1243.1	0.0	0.0	137.4	181.1	0.0
20	6.8	3.1	107.5	0.0	104.4	0.0	6.8	97.6	104.4	9.1	1136.5	0.0	0.0	128.2	179.7	0.0
29	1.5	0.7	103.8	0.0	103.1	0.0	1.5	101.6	103.1	7.8	1027.0	0.0	0.0	118.7	178.1	0.0
3 10	0.0	0.0	124.4	0.0	124.4	0.0	0.0	124.4	124.4	10.6	892.1	0.0	0.0	107.1	176.2	0.0
20	0.0	0.0	103.9	0.0	103.9	0.0	0.0	103.9	103.9	10.0	778.1	0.0	0.0	97.2	174.5	0.0
31	0.0	0.0	101.8	0.0	101.8	0.0	0.0	101.8	101.8	10.5	665.8	0.0	0.0	87.5	172.9	0.0
4 10	0.0	0.0	63.2	0.0	63.2	0.0	0.0	63.2	63.2	9.9	592.7	0.0	0.0	81.2	171.9	0.0
20	0.6	0.3	50.1	0.0	49.8	0.0	0.6	49.2	49.8	9.5	534.0	0.0	0.0	76.1	171.0	0.0
30	3.3	1.5	22.9	0.0	21.4	0.0	3.3	18.1	21.4	9.3	506.6	0.0	0.0	73.8	170.6	0.0
5 10	100.5	46.5	1.8	44.6	20.0	80.5	20.0	0.0	20.0	6.6	580.6	0.0	0.0	80.2	171.7	20.0
20	144.0	66.5	0.0	66.5	20.0	124.0	20.0	0.0	20.0	6.8	697.7	0.0	0.0	90.3	173.4	20.0
31	225.6	104.3	14.3	89.9	22.0	203.6	22.0	0.0	22.0	7.9	893.4	0.0	0.0	107.2	176.2	22.0
6 10	276.2	127.6	15.3	112.3	20.0	256.2	20.0	0.0	20.0	4.6	1145.1	0.0	0.0	128.9	179.8	20.0
20	127.4	58.9	18.8	40.1	20.0	107.4	20.0	0.0	20.0	5.1	1247.4	0.0	0.0	137.8	181.1	20.0
30	43.1	19.9	110.4	0.0	90.5	0.0	43.1	47.4	90.5	5.3	1194.8	0.0	0.0	133.2	180.5	0.0
7 10	86.4	39.9	34.0	6.0	20.0	66.4	20.0	0.0	20.0	4.7	1256.5	0.0	0.0	138.6	181.2	20.0
20	166.7	77.0	11.6	65.4	20.0	146.7	20.0	0.0	20.0	4.8	1398.4	0.0	0.0	150.8	183.0	20.0
31	207.6	95.9	0.0	95.9	22.0	185.6	22.0	0.0	22.0	5.6	1578.4	0.0	0.0	166.4	185.2	22.0
8 10	192.9	89.1	0.0	89.1	20.0	172.9	20.0	0.0	20.0	5.7	1745.6	0.0	0.0	180.8	187.3	20.0
20	134.7	62.3	0.0	62.3	20.0	114.7	20.0	0.0	20.0	6.1	1854.3	0.0	0.0	190.2	188.6	20.0
31	165.3	76.4	0.0	76.4	22.0	143.3	22.0	0.0	22.0	6.9	1990.7	0.0	0.0	202.0	190.2	22.0
9 10	159.4	73.7	0.0	73.7	20.0	139.4	20.0	0.0	20.0	7.5	2122.6	0.0	0.0	213.4	191.7	20.0
20	188.5	87.1	0.0	87.1	20.0	168.5	20.0	0.0	20.0	7.8	2283.2	0.0	0.0	227.3	193.4	20.0
30	105.1	48.6	0.0	48.6	20.0	85.1	20.0	0.0	20.0	8.1	2360.3	0.0	0.0	233.9	194.2	20.0
10 10	116.4	53.8	113.4	0.0	59.7	56.8	59.7	0.0	59.7	10.0	2407.0	0.0	0.0	238.0	194.7	0.0
20	128.0	59.1	89.0	0.0	29.8	98.1	29.8	0.0	29.8	10.2	2430.6	0.0	64.4	240.0	195.0	0.0
31	45.3	20.9	66.0	0.0	45.1	0.2	45.1	0.0	45.1	11.2	2419.5	0.0	0.0	239.0	194.9	0.0
11 10	7.1	3.3	161.2	0.0	157.9	0.0	7.1	150.8	157.9	10.2	2258.6	0.0	0.0	225.1	193.1	0.0
20	3.0	1.4	127.6	0.0	126.2	0.0	3.0	123.2	126.2	9.8	2125.6	0.0	0.0	213.7	191.7	0.0
30	0.0	0.0	94.9	0.0	94.9	0.0	0.0	94.9	94.9	9.5	2021.2	0.0	0.0	204.6	190.6	0.0
12 10	0.0	0.0	65.3	0.0	65.3	0.0	0.0	65.3	65.3	9.0	1946.8	0.0	0.0	198.2	189.7	0.0
20	0.0	0.0	50.7	0.0	50.2	0.0	0.0	50.2	50.2	8.9	1887.8	0.0	0.0	193.1	189.0	0.0
31	0.0	0.0	49.0	0.0	49.0	0.0	0.0	49.0	49.0	9.6	1829.2	0.0	0.0	188.0	188.3	0.0
TOTAL	2635.4	1247.8	2054.2	958.0	2080.3	2149.5	486.0	1594.4	2080.3	292.1		0.0	64.4	188.0		286.0
MILLION M <sup>3</sup>	227.70	105.22	177.48	82.77	179.74	185.71	41.99	137.75	179.74	25.24		0.0	5.56			24.71

Table 4B-3 (3)

YEAR 1957	OKKAN DAM IRRIGATION PROJECT ( C-M/SEC-10DAYS)															
A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)	
1	10	0.0	64.7	0.0	64.7	0.0	64.7	64.7	8.5	1756.0	0.0	0.0	181.7	187.4	0.0	
20	0.0	75.1	0.0	75.1	0.0	0.0	75.1	75.1	8.4	1672.5	0.0	0.0	174.5	186.4	0.0	
31	0.0	103.3	0.0	103.3	0.0	0.0	103.3	103.3	8.9	1560.3	0.0	0.0	164.8	185.0	0.0	
2	20	0.0	110.7	0.0	110.7	0.0	110.7	110.7	10.2	1439.5	0.0	0.0	154.4	183.5	0.0	
28	0.6	80.7	0.0	79.8	0.0	2.0	77.8	79.8	9.7	1351.9	0.0	0.0	146.8	182.4	0.0	
3	10	0.0	88.9	0.0	88.6	0.0	88.0	88.6	7.6	1256.4	0.0	0.0	138.6	181.2	0.0	
20	0.0	124.4	0.0	124.4	0.0	0.0	124.4	124.4	11.5	1120.5	0.0	0.0	126.8	179.5	0.0	
31	0.0	103.9	0.0	103.9	0.0	0.0	103.9	103.9	10.9	1005.7	0.0	0.0	116.9	177.8	0.0	
4	10	0.0	63.2	0.0	63.2	0.0	63.2	63.2	11.5	892.3	0.0	0.0	107.1	176.2	0.0	
20	0.0	50.1	0.0	50.1	0.0	0.0	50.1	50.1	10.8	818.3	0.0	0.0	100.7	175.1	0.0	
30	0.0	34.0	0.0	34.0	0.0	0.0	34.0	34.0	10.5	757.7	0.0	0.0	95.5	174.2	0.0	
5	10	0.0	16.5	0.0	16.5	0.0	16.5	16.5	10.3	713.4	0.0	0.0	91.6	173.6	0.0	
20	0.0	10.0	0.0	10.0	0.0	0.0	10.0	10.0	7.2	686.2	0.0	0.0	89.3	173.2	3.5	
31	81.4	37.6	120.6	0.0	83.0	0.0	20.0	20.0	7.1	659.0	0.0	0.0	86.9	172.8	10.0	
6	10	254.4	117.6	65.1	52.5	20.0	0.0	81.4	7.8	649.7	0.0	0.0	106.0	172.7	0.0	
20	147.0	67.9	170.6	0.0	102.7	102.7	0.0	20.0	4.1	879.9	0.0	0.0	106.0	172.7	0.0	
30	103.4	47.8	187.9	0.0	140.1	103.4	0.0	102.7	4.6	919.6	0.0	0.0	109.5	176.6	0.0	
20	296.7	137.1	0.0	137.1	0.0	20.0	0.0	20.0	4.6	878.3	0.0	0.0	105.9	176.0	0.0	
31	173.8	80.3	1.4	78.9	20.0	216.8	0.0	20.0	4.1	1150.8	0.0	0.0	129.4	179.9	20.0	
8	10	56.6	26.2	0.0	26.2	20.0	0.0	20.0	5.5	1509.3	0.0	0.0	147.8	182.5	20.0	
20	104.2	48.2	0.8	47.3	20.0	36.6	0.0	22.0	5.5	1540.3	0.0	0.0	160.4	184.3	22.0	
31	166.1	76.7	0.0	76.7	22.0	84.2	0.0	20.0	5.7	1618.9	0.0	0.0	163.1	184.7	20.0	
9	10	150.8	69.7	0.0	69.7	20.0	0.0	22.0	6.4	1756.5	0.0	0.0	169.9	185.7	20.0	
20	96.0	44.4	0.0	44.4	20.0	76.0	0.0	20.0	7.0	1880.3	0.0	0.0	181.8	187.4	22.0	
30	156.5	72.3	0.0	72.3	20.0	130.8	0.0	20.0	7.3	1949.0	0.0	0.0	192.5	188.9	20.0	
10	10	194.5	89.9	0.0	89.9	20.0	0.0	20.0	7.5	2078.1	0.0	0.0	198.4	189.8	20.0	
20	54.9	25.4	72.6	0.0	47.2	174.5	0.0	20.0	9.8	2243.2	0.0	0.0	209.5	191.2	20.0	
31	16.5	7.6	230.1	0.0	222.7	0.0	206.2	47.2	10.7	2024.2	0.0	0.0	223.8	193.0	0.0	
11	10	8.8	4.1	161.6	0.0	8.8	148.7	157.5	9.2	1866.3	0.0	0.0	204.9	190.6	0.0	
20	2.0	0.9	127.6	0.0	126.6	0.0	124.7	126.6	8.8	1732.7	0.0	0.0	179.7	187.1	0.0	
30	0.0	0.0	94.9	0.0	94.9	0.0	94.9	94.9	8.5	1629.3	0.0	0.0	170.8	185.8	0.0	
12	10	0.0	65.3	0.0	65.3	0.0	65.3	65.3	8.0	1556.0	0.0	0.0	164.4	184.9	0.0	
20	0.0	0.0	50.2	0.0	50.2	0.0	50.2	50.2	7.8	1498.0	0.0	0.0	159.4	184.2	0.0	
31	0.0	0.0	49.0	0.0	49.0	0.0	49.0	49.0	8.4	1440.6	0.0	0.0	154.5	183.5	0.0	
TOTAL	2703.0	1064.2	2425.2	804.4	2402.9	1714.4	588.6	1814.3	2402.9	208.8	0.0	0.0	237.5	201.5	20.0	
198-98	91.95	209.53	69.10	207.61	148.12	50.85	156.75	207.61	24.95	0.0	0.0	0.0	26.52	20.52	20.0	



Table 4B-3 (4)

YEAR 1958		OKKAN DAM IRRIGATION PROJECT														( C.M/SEC-10DAYS)	
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)	
1	10	0.0	64.7	0.0	64.7	0.0	0.0	64.7	64.7	7.5	1368.3	0.0	0.0	148.2	182.6	0.0	
	20	0.0	75.1	0.0	75.1	0.0	0.0	75.1	75.1	7.3	1285.9	0.0	0.0	141.1	181.6	0.0	
2	10	0.0	103.3	0.0	103.3	0.0	0.0	103.3	103.3	8.8	1174.8	0.0	0.0	131.5	180.2	0.0	
	20	0.0	110.7	0.0	110.7	0.0	0.0	110.7	110.7	7.8	1055.3	0.0	0.0	121.2	178.5	0.0	
3	10	0.0	93.6	0.0	93.6	0.0	0.0	93.6	93.6	8.4	939.0	0.0	0.0	111.1	176.9	0.0	
	20	0.0	124.4	0.0	124.4	0.0	0.0	124.4	124.4	6.5	838.9	0.0	0.0	102.5	175.4	0.0	
4	10	13.4	103.9	0.0	103.9	0.0	13.4	103.9	103.9	9.3	704.7	0.0	0.0	90.9	173.5	0.0	
	20	14.5	63.2	0.0	56.6	0.0	14.5	42.1	56.6	9.1	591.6	0.0	0.0	81.1	171.9	0.0	
5	10	3.1	50.1	0.0	48.6	0.0	3.1	45.5	48.6	8.8	448.4	0.0	0.0	73.2	170.5	0.0	
	20	1.2	32.6	0.0	32.1	0.0	1.2	30.9	32.1	8.2	394.1	0.0	0.0	64.0	167.8	0.0	
6	10	48.6	22.5	7.2	20.0	28.6	20.0	0.0	20.0	5.6	377.9	0.0	0.0	62.7	167.3	20.0	
	20	99.4	41.9	0.4	20.0	79.4	20.0	0.0	20.0	5.8	451.5	0.0	0.0	69.0	169.6	20.0	
7	10	50.7	23.4	212.6	189.2	0.0	50.7	138.4	189.2	7.0	306.1	0.0	0.0	56.4	165.0	0.0	
	20	84.2	38.9	75.7	36.8	47.5	36.8	0.0	36.8	3.1	350.4	0.0	0.0	60.3	166.4	0.0	
8	10	187.8	86.8	10.4	76.3	167.8	20.0	0.0	20.0	3.3	514.9	0.0	0.0	74.5	170.7	20.0	
	20	257.0	118.7	4.5	114.3	237.0	20.0	0.0	20.0	3.9	748.0	0.0	0.0	94.6	174.1	20.0	
9	10	177.5	82.0	66.7	15.4	157.5	20.0	0.0	20.0	3.9	901.5	0.0	0.0	107.9	176.3	20.0	
	20	241.5	111.6	1.5	110.1	221.5	20.0	0.0	20.0	4.2	1118.8	0.0	0.0	126.7	179.4	20.0	
10	10	249.9	115.5	0.0	115.5	227.9	22.0	0.0	22.0	5.0	1341.7	0.0	0.0	145.9	182.3	22.0	
	20	140.6	65.0	0.0	65.0	170.6	20.0	0.0	20.0	5.3	1457.0	0.0	0.0	155.9	183.7	20.0	
11	10	115.5	53.4	0.0	53.4	95.5	20.0	0.0	20.0	5.5	1547.0	0.0	0.0	163.7	184.8	20.0	
	20	153.1	70.8	0.0	70.8	131.1	22.0	0.0	22.0	6.2	1671.8	0.0	0.0	174.4	186.3	22.0	
12	10	199.9	92.4	0.0	92.4	179.9	20.0	0.0	20.0	6.8	1844.9	0.0	0.0	189.4	188.5	20.0	
	20	147.9	68.3	0.0	68.3	127.9	20.0	0.0	20.0	7.2	1965.6	0.0	0.0	199.8	190.0	20.0	
13	10	178.0	82.3	0.0	82.3	158.0	20.0	0.0	20.0	7.5	2116.2	0.0	0.0	212.8	191.6	20.0	
	20	52.2	74.1	91.2	0.0	39.0	52.2	14.9	67.1	9.5	2091.8	0.0	0.0	210.7	191.3	0.0	
14	10	59.0	27.3	32.3	0.0	79.5	22.0	0.0	22.0	10.4	2121.4	0.0	0.0	213.3	191.7	14.9	
	20	101.5	46.9	0.0	46.9	79.5	20.0	0.0	20.0	9.6	2135.6	0.0	0.0	214.5	191.8	22.0	
15	10	20.6	9.5	75.3	0.0	124.8	0.0	119.0	124.8	9.5	2007.1	0.0	0.0	203.4	190.4	0.0	
	20	5.9	2.7	127.6	0.0	93.9	2.2	91.7	93.9	8.7	1906.2	0.0	0.0	194.7	189.2	0.0	
16	10	2.2	1.0	94.9	0.0	65.3	0.0	65.3	65.3	8.6	1832.1	0.0	0.0	188.3	189.3	0.0	
	20	0.0	0.0	50.2	0.0	50.2	0.0	50.2	50.2	9.6	1773.3	0.0	0.0	183.2	187.6	0.0	
17	10	0.0	49.0	49.0	0.0	49.0	0.0	49.0	49.0	9.2	1715.1	0.0	0.0	178.2	186.9	0.0	
	20	2605.0	1203.8	1996.1	971.2	2064.5	506.5	1558.0	2064.5	266.0	300.9	0.0	0.0	300.9	266.0	26.00	
TOTAL		225.08	104.01	172.47	83.91	178.37	181.31	43.76	134.61	178.37	22.98	0.0	0.0	0.0	0.0	0.0	

Table 4B-3 (5)

YEAR 1959	( C.M/SEC-10DAYS)															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	64.7	0.0	64.7	0.0	0.0	64.7	64.7	8.2	1642.1	0.0	0.0	171.9	186.0	0.0
2	20	0.0	75.1	0.0	75.1	0.0	0.0	75.1	75.1	8.1	1559.0	0.0	0.0	164.7	185.0	0.0
3	31	39.6	68.5	0.0	50.2	0.0	39.6	10.6	50.2	8.6	1539.8	0.0	0.0	163.0	184.7	0.0
4	10	8.4	102.7	0.0	98.8	0.0	8.4	90.4	98.8	10.1	1439.3	0.0	0.0	154.4	183.5	0.0
5	20	0.0	107.8	0.0	107.8	0.0	0.0	107.8	107.8	9.7	1321.7	0.0	0.0	144.2	182.0	0.0
6	28	0.0	93.6	0.0	93.6	0.0	0.0	93.6	93.6	7.5	1220.6	0.0	0.0	135.5	180.8	0.0
7	10	0.0	124.4	0.0	124.4	0.0	0.0	124.4	124.4	11.4	1084.9	0.0	0.0	123.7	179.0	0.0
8	20	0.0	103.9	0.0	103.9	0.0	0.0	103.9	103.9	10.8	970.2	0.0	0.0	113.8	177.3	0.0
9	31	0.0	101.8	0.0	101.8	0.0	0.0	101.8	101.8	11.4	857.0	0.0	0.0	104.0	175.7	0.0
10	10	0.0	60.3	0.0	60.3	0.0	0.0	60.3	60.3	10.7	786.1	0.0	0.0	97.9	174.7	0.0
11	20	0.0	47.0	0.0	47.0	0.0	0.0	47.0	47.0	10.4	728.7	0.0	0.0	93.0	173.8	0.0
12	30	20.7	34.0	0.0	24.4	0.0	20.7	3.7	24.4	10.1	714.8	0.0	0.0	91.8	173.6	0.0
13	10	21.0	9.7	15.9	0.0	1.0	20.0	0.0	20.0	7.2	708.6	0.0	0.0	91.2	173.5	13.8
14	20	13.9	6.4	8.8	0.0	0.0	13.9	6.1	20.0	7.2	695.3	0.0	0.0	90.1	173.3	17.7
15	31	158.4	73.2	84.1	0.0	136.4	22.0	0.0	22.0	7.9	823.8	0.0	0.0	101.2	175.2	11.1
16	10	207.4	95.9	20.9	74.9	187.4	20.0	0.0	20.0	4.5	1006.8	0.0	0.0	117.0	177.8	20.0
17	20	102.5	47.3	50.3	0.0	82.5	20.0	0.0	20.0	4.8	1084.4	0.0	0.0	123.7	178.9	17.1
18	30	57.0	26.4	104.3	0.0	78.0	57.0	20.9	78.0	4.9	1058.6	0.0	0.0	121.5	178.6	0.0
19	10	159.5	73.7	30.8	42.9	139.5	20.0	0.0	20.0	4.5	1193.7	0.0	0.0	133.1	180.4	20.0
20	20	93.2	43.1	3.7	39.4	73.2	20.0	0.0	20.0	4.7	1262.1	0.0	0.0	139.0	181.3	20.0
21	31	167.5	77.4	2.6	74.8	145.5	22.0	0.0	22.0	5.3	1402.3	0.0	0.0	151.2	183.0	22.0
22	10	146.7	67.8	0.3	67.4	126.7	20.0	0.0	20.0	5.4	1523.6	0.0	0.0	161.6	184.5	20.0
23	20	113.0	52.2	0.0	52.2	93.0	20.0	0.0	20.0	5.6	1611.0	0.0	0.0	169.2	185.6	20.0
24	31	109.0	50.4	0.0	50.4	87.0	22.0	0.0	22.0	6.4	1691.6	0.0	0.0	176.2	186.6	22.0
25	10	174.8	80.8	0.0	80.8	154.8	20.0	0.0	20.0	6.9	1839.6	0.0	0.0	188.9	188.4	20.0
26	20	181.8	84.0	0.0	84.0	161.8	20.0	0.0	20.0	7.2	1994.2	0.0	0.0	202.3	190.3	20.0
27	30	144.5	66.8	0.0	66.8	124.5	20.0	0.0	20.0	7.5	2111.1	0.0	0.0	212.4	191.6	20.0
28	10	198.1	91.5	0.0	91.5	178.1	20.0	0.0	20.0	9.5	2279.8	0.0	0.0	227.0	193.4	20.0
29	20	118.1	54.6	0.0	54.6	98.1	20.0	0.0	20.0	9.9	2368.0	0.0	0.0	234.6	194.3	20.0
30	31	31.2	14.4	108.7	0.0	94.3	31.2	63.0	94.3	11.1	2293.9	0.0	0.0	228.2	193.5	0.0
31	10	9.9	4.6	137.9	0.0	133.3	9.9	123.5	133.3	9.9	2160.6	0.0	0.0	216.7	192.1	0.0
32	20	11.4	5.7	127.6	0.0	122.3	11.4	111.0	122.3	9.6	2040.0	0.0	0.0	206.3	190.8	0.0
33	30	1.7	0.8	94.9	0.0	94.1	1.7	92.4	94.1	9.3	1938.3	0.0	0.0	193.5	189.6	0.0
34	10	0.0	0.0	65.3	0.0	65.3	0.0	65.3	65.3	8.8	1864.2	0.0	0.0	191.1	188.7	0.0
35	20	0.0	0.0	50.2	0.0	50.2	0.0	50.2	50.2	8.6	1805.3	0.0	0.0	186.0	188.0	0.0
36	31	0.0	0.0	49.0	0.0	49.0	0.0	49.0	49.0	9.3	1747.0	0.0	0.0	180.9	187.3	0.0
TOTAL		2289.3	1057.9	1939.0	779.3	1964.5	1789.5	499.9	1464.7	292.9	275.70	0.0	0.0	303.6	303.6	26.23
MILLION M <sup>3</sup>		197.80	91.40	167.53	67.37	169.74	154.61	43.19	126.55	149.74	25.70	0.0	0.0	180.9	187.3	0.0

Table 4B-3 (6)

YEAR 1960	OKKAN DAM IRRIGATION PROJECT																1 C-M/SEC-10DAYS)
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)	
1	10	0.0	64.7	0.0	64.7	0.0	0.0	64.7	64.7	8.3	1674.0	0.0	0.0	174.6	186.4	0.0	
2	20	0.0	75.1	0.0	75.1	0.0	0.0	75.1	75.1	8.1	1590.8	0.0	0.0	167.4	185.3	0.0	
3	31	2.5	103.3	0.0	102.1	0.0	2.5	99.6	102.1	8.7	1482.5	0.0	0.0	158.1	184.0	0.0	
4	10	2.7	110.7	0.0	109.4	0.0	2.7	106.8	109.4	9.9	1365.9	0.0	0.0	148.0	182.6	0.0	
5	20	0.1	107.5	0.0	107.5	0.0	0.1	107.3	107.5	9.5	1249.0	0.0	0.0	137.9	181.1	0.0	
6	30	0.0	103.8	0.0	103.8	0.0	0.0	103.8	103.8	8.2	1137.0	0.0	0.0	128.2	179.7	0.0	
7	10	0.0	124.4	0.0	124.4	0.0	0.0	124.4	124.4	11.0	1001.7	0.0	0.0	116.5	177.8	0.0	
8	20	0.0	103.9	0.0	103.9	0.0	0.0	103.9	103.9	10.5	887.3	0.0	0.0	106.7	174.5	0.0	
9	30	0.0	101.8	0.0	101.8	0.0	0.0	101.8	101.8	11.0	774.5	0.0	0.0	96.9	174.5	0.0	
10	10	0.0	63.2	0.0	63.2	0.0	0.0	63.2	63.2	10.3	700.9	0.0	0.0	90.6	173.4	0.0	
11	20	0.0	50.1	0.0	50.1	0.0	0.0	50.1	50.1	10.0	640.8	0.0	0.0	85.4	172.6	0.0	
12	30	0.0	34.0	0.0	34.0	0.0	0.0	34.0	34.0	9.8	597.1	0.0	0.0	81.6	171.9	0.0	
13	10	3.0	7.0	0.0	20.0	0.0	3.0	17.0	20.0	6.9	573.2	0.0	0.0	79.5	171.6	14.3	
14	20	38.8	17.9	2.7	15.2	18.8	20.0	0.0	20.0	6.8	585.2	0.0	0.0	80.6	171.8	20.0	
15	30	115.1	53.2	111.5	0.0	56.8	58.3	0.0	58.3	7.5	634.5	0.0	0.0	84.8	172.5	0.0	
16	10	125.6	58.1	65.9	0.0	105.6	20.0	0.0	20.0	4.1	736.0	0.0	0.0	93.6	173.9	12.2	
17	20	162.0	74.9	41.1	33.8	142.0	20.0	0.0	20.0	4.3	873.7	0.0	0.0	105.5	175.9	20.0	
18	30	89.2	41.2	122.8	0.0	7.6	81.6	0.0	81.6	4.6	876.7	0.0	0.0	105.7	176.0	0.0	
19	10	234.0	108.2	0.0	108.2	214.0	20.0	0.0	20.0	4.1	1086.6	0.0	0.0	123.9	179.0	20.0	
20	20	101.1	46.7	11.5	35.2	81.1	20.0	0.0	20.0	4.5	1163.2	0.0	0.0	130.5	180.1	20.0	
21	30	59.8	27.6	5.7	21.9	37.8	22.0	0.0	22.0	5.1	1195.9	0.0	0.0	133.3	180.5	22.0	
22	10	216.3	99.9	0.0	99.9	196.3	20.0	0.0	20.0	5.0	1387.1	0.0	0.0	149.8	182.8	20.0	
23	20	171.9	79.4	0.0	79.4	151.9	20.0	0.0	20.0	5.4	1533.7	0.0	0.0	162.5	184.6	20.0	
24	30	172.9	79.9	0.0	79.9	150.9	22.0	0.0	22.0	6.2	1678.3	0.0	0.0	175.0	186.4	22.0	
25	10	101.5	46.9	0.0	46.9	81.5	20.0	0.0	20.0	6.9	1752.9	0.0	0.0	181.5	187.4	20.0	
26	20	141.1	65.2	0.0	65.2	121.1	20.0	0.0	20.0	7.0	1867.0	0.0	0.0	191.3	188.8	20.0	
27	30	158.7	73.4	0.0	73.4	138.7	20.0	0.0	20.0	7.3	1998.5	0.0	0.0	202.7	190.3	20.0	
28	10	136.2	63.0	0.0	63.0	116.2	20.0	0.0	20.0	9.2	2105.5	0.0	0.0	211.9	191.5	20.0	
29	20	128.6	59.4	0.0	59.4	108.6	20.0	0.0	20.0	9.4	2204.6	0.0	0.0	220.5	192.6	20.0	
30	30	104.0	48.0	0.0	48.0	82.0	22.0	0.0	22.0	10.6	2276.0	0.0	0.0	226.6	193.3	22.0	
31	10	25.5	11.8	145.9	0.0	134.2	25.5	0.0	134.2	9.8	2157.4	0.0	0.0	216.4	192.0	0.0	
32	20	0.0	116.5	0.0	116.5	0.0	0.0	116.5	116.5	9.6	2031.3	0.0	0.0	205.5	190.7	0.0	
33	30	3.1	43.4	0.0	42.0	0.0	3.1	38.9	42.0	9.3	1983.1	0.0	0.0	201.3	190.2	0.0	
34	10	44.6	20.6	42.5	0.0	22.8	21.9	0.0	21.9	8.9	1996.9	0.0	0.0	202.5	190.3	0.0	
35	20	9.1	4.2	49.6	0.0	45.4	9.1	36.3	45.4	9.0	1951.7	0.0	0.0	198.6	189.8	0.0	
36	30	0.0	0.0	49.0	0.0	49.0	0.0	49.0	49.0	9.8	1892.9	0.0	0.0	193.6	189.1	0.0	
TOTAL		2347.2	1084.7	1857.6	829.3	1914.8	1833.6	513.7	1401.2	286.5		0.0	0.0			312.5	
MILLION M <sup>3</sup>		202.80	93.71	160.50	71.65	165.44	158.42	44.38	121.06	165.44	24.75	0.0	0.0			27.00	

Table 4B-3 (7)

YEAR 1961	OKKAN DAM IRRIGATION PROJECT ( C-M/SEC-10DAYS)															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	0.0	0.0	63.4	0.0	63.4	0.0	0.0	63.4	63.4	8.7	1620.9	0.0	0.0	187.3	186.2	0.0
2	0.0	0.0	74.0	0.0	74.0	0.0	0.0	74.0	74.0	8.5	1738.4	0.0	0.0	180.2	187.2	0.0
3	0.0	0.0	99.9	0.0	99.9	0.0	0.0	99.9	99.9	9.1	1629.3	0.0	0.0	170.8	185.0	0.0
4	0.0	0.0	43.0	0.0	43.0	0.0	0.0	43.0	43.0	10.4	1575.9	0.0	0.0	166.2	185.2	0.0
5	0.0	0.0	81.9	0.0	81.9	0.0	0.0	81.9	81.9	10.2	1483.8	0.0	0.0	158.2	184.0	0.0
6	0.0	0.0	91.1	0.0	91.1	0.0	0.0	91.1	91.1	7.9	1384.8	0.0	0.0	149.6	182.8	0.0
7	0.0	0.0	125.8	0.0	125.8	0.0	0.0	125.8	125.8	12.1	1246.9	0.0	0.0	137.7	181.1	0.0
8	0.0	0.0	105.2	0.0	105.2	0.0	0.0	105.2	105.2	11.5	1130.2	0.0	0.0	127.7	179.6	0.0
9	0.0	0.0	102.2	0.0	102.2	0.0	0.0	102.2	102.2	12.1	1016.0	0.0	0.0	117.8	178.0	0.0
10	0.0	0.0	62.8	0.0	62.8	0.0	0.0	62.8	62.8	11.4	941.8	0.0	0.0	111.4	176.9	0.0
11	2.4	1.1	49.7	0.0	48.6	0.0	2.4	46.2	48.6	11.1	884.5	0.0	0.0	106.4	176.1	0.0
12	3.9	1.8	33.6	0.0	31.8	0.0	3.9	28.0	31.8	10.8	845.8	0.0	0.0	103.1	175.5	0.0
13	4.6	2.1	11.4	0.0	20.0	0.0	4.6	15.4	20.0	7.6	822.7	0.0	0.0	101.1	175.2	10.7
14	39.0	18.0	1.0	17.0	20.0	0.0	19.0	0.0	20.0	7.6	834.1	0.0	0.0	102.1	175.3	20.0
15	115.1	53.2	43.7	9.5	22.0	93.1	22.0	0.0	22.0	8.4	918.8	0.0	0.0	109.4	176.6	22.0
16	211.4	97.7	14.6	83.0	20.0	191.4	20.0	0.0	20.0	4.6	1105.6	0.0	0.0	125.5	179.3	20.0
17	253.2	117.0	90.9	26.1	20.0	233.2	20.0	0.0	20.0	5.0	1333.8	0.0	0.0	145.2	182.2	20.0
18	106.0	49.0	140.6	0.0	91.6	14.3	91.6	0.0	91.6	5.4	1342.7	0.0	0.0	146.0	182.3	0.0
19	234.3	108.2	14.4	93.8	20.0	214.3	20.0	0.0	20.0	5.0	1552.0	0.0	0.0	164.1	184.9	20.0
20	298.7	138.0	4.2	133.8	20.0	278.7	20.0	0.0	20.0	5.3	1825.4	0.0	0.0	187.7	188.2	20.0
21	164.8	76.2	0.0	76.2	22.0	142.8	22.0	0.0	22.0	6.4	1961.8	0.0	0.0	199.5	189.9	22.0
22	171.0	79.0	0.0	79.0	20.0	151.0	20.0	0.0	20.0	6.5	2106.4	0.0	0.0	212.0	191.5	20.0
23	137.3	63.5	0.0	63.5	20.0	117.3	20.0	0.0	20.0	6.7	2217.0	0.0	0.0	221.5	192.7	20.0
24	213.2	98.3	0.0	98.3	22.0	191.2	22.0	0.0	22.0	7.6	2400.7	0.0	0.0	237.4	194.7	22.0
25	152.5	70.5	0.0	70.5	20.0	132.5	20.0	0.0	20.0	8.3	2430.6	0.0	94.2	240.0	195.0	20.0
26	181.3	83.9	0.0	83.9	20.0	161.5	20.0	0.0	20.0	8.4	2430.6	0.0	153.1	240.0	195.0	20.0
27	142.2	65.7	0.0	65.7	20.0	122.2	20.0	0.0	20.0	8.4	2430.6	0.0	113.8	240.0	195.0	20.0
28	84.8	39.2	0.0	39.2	20.0	64.8	20.0	0.0	20.0	10.2	2430.6	0.0	54.6	240.0	195.0	20.0
29	39.4	18.2	0.0	18.2	20.0	19.4	20.0	0.0	20.0	10.2	2430.6	0.0	9.2	240.0	195.0	20.0
30	165.6	76.5	0.0	76.5	22.0	143.6	22.0	0.0	22.0	11.2	2416.2	0.0	132.4	240.0	195.0	22.0
31	57.1	26.4	87.6	0.0	61.2	0.0	57.1	4.1	61.2	10.2	2416.2	0.0	0.0	238.8	194.8	0.0
32	8.6	4.0	103.2	0.0	101.2	0.0	8.6	92.6	101.2	10.2	2313.5	0.0	0.0	229.9	193.7	0.0
33	1.7	0.8	93.3	0.0	92.5	0.0	1.7	90.7	92.5	9.9	2212.8	0.0	0.0	221.2	192.6	0.0
34	1.2	0.5	64.9	0.0	64.3	0.0	1.2	63.1	64.3	9.5	2140.2	0.0	0.0	214.9	191.9	0.0
35	0.0	0.0	49.8	0.0	49.8	0.0	0.0	49.8	49.8	9.3	2081.1	0.0	0.0	209.8	191.2	0.0
36	9.9	4.6	47.6	0.0	43.0	0.0	9.9	33.1	43.0	10.1	2037.9	0.0	0.0	206.1	190.8	0.0
TOTAL	2799.5	1293.7	1701.8	1034.5	1781.4	2290.4	509.1	1272.3	1781.4	315.8	2037.9	0.0	557.3	206.1	190.8	338.7
MILLION M <sup>3</sup>	241.88	111.77	147.04	87.38	153.91	197.89	43.99	109.92	153.91	27.29	2037.9	0.0	48.15	206.1	190.8	29.27

Table 4B-3 (8)

YEAR 1962		OKKAN DAM IRRIGATION PROJECT ( C.M/SEC--10DAYS)														
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	2.4	1.1	55.8	0.0	54.7	0.0	2.4	52.4	54.7	9.1	1976.5	0.0	200.8	190.1	0.0
	20	0.0	0.0	72.0	0.0	72.0	0.0	0.0	72.0	72.0	8.9	1895.5	0.0	193.8	189.1	0.0
2	10	0.0	0.0	101.8	0.0	101.8	0.0	0.0	101.8	101.8	9.6	1784.2	0.0	184.2	187.7	0.0
	20	0.0	0.0	108.1	0.0	108.1	0.0	0.0	108.1	108.1	10.9	1665.1	0.0	173.9	186.3	0.0
	30	0.0	0.0	105.4	0.0	105.4	0.0	0.0	105.4	105.4	10.5	1549.2	0.0	163.9	184.8	0.0
3	10	0.0	0.0	92.8	0.0	92.8	0.0	0.0	92.8	92.8	8.1	1448.3	0.0	155.1	183.6	0.0
	20	0.0	0.0	124.4	0.0	124.4	0.0	0.0	124.4	124.4	12.3	1311.6	0.0	143.3	181.9	0.0
	30	0.0	0.0	103.9	0.0	103.9	0.0	0.0	103.9	103.9	11.7	1196.0	0.0	133.3	180.5	0.0
4	10	0.0	0.0	100.3	0.0	100.3	0.0	0.0	100.3	100.3	12.4	1083.3	0.0	123.6	178.9	0.0
	20	0.0	0.0	61.2	0.0	61.2	0.0	0.0	61.2	61.2	11.7	1010.4	0.0	117.3	177.9	0.0
	30	0.0	0.0	48.5	0.0	48.5	0.0	0.0	48.5	48.5	11.4	950.5	0.0	112.1	177.0	0.0
5	10	6.3	2.9	29.8	0.0	26.9	0.0	6.3	20.7	26.9	11.1	918.8	0.0	109.4	176.6	0.0
	20	10.6	4.9	12.9	0.0	20.0	0.0	10.6	9.4	20.0	7.9	901.5	0.0	107.9	176.3	12.0
	30	107.2	49.5	4.5	45.0	87.2	20.0	0.0	0.0	20.0	7.8	980.9	0.0	114.7	177.5	20.0
6	10	250.9	116.0	99.8	16.2	22.0	228.9	22.0	0.0	22.0	8.9	1200.9	0.0	133.8	180.5	22.0
	20	156.9	72.5	40.8	31.7	20.0	136.9	20.0	0.0	20.0	5.2	1332.7	0.0	145.1	182.2	20.0
	30	230.7	106.6	9.9	96.6	210.7	20.0	0.0	0.0	20.0	5.4	1538.0	0.0	162.9	184.7	20.0
7	10	93.3	43.1	68.6	0.0	25.5	67.8	25.5	0.0	25.5	5.8	1600.0	0.0	168.2	185.5	0.0
	20	84.3	39.0	1.9	37.1	64.3	20.0	0.0	0.0	20.0	5.4	1658.9	0.0	173.3	186.2	20.0
	30	137.5	63.5	5.0	58.5	117.5	20.0	0.0	0.0	20.0	5.5	1770.9	0.0	183.0	187.6	20.0
8	10	265.1	131.8	0.7	131.0	263.1	22.0	0.0	0.0	22.0	6.3	2027.8	0.0	205.2	190.6	22.0
	20	192.6	89.0	0.0	89.0	172.6	20.0	0.0	0.0	20.0	6.6	2193.8	0.0	219.5	192.4	20.0
	30	159.4	73.7	0.0	73.7	139.4	20.0	0.0	0.0	20.0	6.9	2326.3	0.0	231.0	193.9	20.0
9	10	60.0	27.7	0.0	27.7	38.0	22.0	0.0	0.0	22.0	7.8	2356.5	0.0	233.6	194.2	22.0
	20	97.0	44.8	0.0	44.8	77.0	20.0	0.0	0.0	20.0	8.2	2425.2	0.0	239.5	194.9	20.0
	30	175.3	81.0	0.0	81.0	155.3	20.0	0.0	0.0	20.0	8.4	2430.6	0.0	240.0	195.0	20.0
10	10	127.7	59.0	0.0	59.0	107.7	20.0	0.0	0.0	20.0	8.4	2430.6	0.0	240.0	195.0	20.0
	20	111.7	51.6	0.0	51.6	91.7	20.0	0.0	0.0	20.0	10.2	2430.6	0.0	240.0	195.0	20.0
	30	197.5	45.1	0.0	45.1	77.5	20.0	0.0	0.0	20.0	10.2	2430.6	0.0	240.0	195.0	20.0
11	10	60.4	27.9	54.6	0.0	26.7	33.6	26.7	0.0	26.7	11.2	2374.6	0.0	240.0	195.0	20.0
	20	25.2	11.6	82.5	0.0	70.9	0.0	25.2	45.7	70.9	10.2	2241.8	0.0	224.4	194.4	0.0
	30	4.8	2.2	129.8	0.0	127.6	0.0	4.8	122.8	127.6	10.1	2241.8	0.0	224.4	194.4	0.0
12	10	0.0	0.0	96.6	0.0	96.6	0.0	0.0	96.6	96.6	9.8	2135.4	0.0	235.2	194.4	0.0
	20	0.0	0.0	65.8	0.0	65.8	0.0	0.0	65.8	65.8	9.3	2060.4	0.0	214.5	191.8	0.0
	30	0.0	0.0	50.6	0.0	50.6	0.0	0.0	50.6	50.6	9.1	2000.6	0.0	208.0	190.4	0.0
31	0.0	0.0	0.0	49.1	0.0	49.1	0.0	0.0	49.1	49.1	9.9	1941.6	0.0	197.8	189.7	0.0
TOTAL	2476.8	1144.5	1777.1	888.2	1838.8	2069.4	407.4	1431.4	1838.8	322.2	412.1	35.60	318.0	27.47	318.0	27.47
MILLION M#3	213.99	98.89	153.54	76.74	158.87	178.79	35.20	123.67	158.87	27.84	0.0	0.0	0.0	0.0	0.0	0.0



Table 4B-3 (10)

YEAR 1964	OKKAN DAM IRRIGATION PROJECT ( C.M/SEC--10DAYS)															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	69.2	0.0	69.2	0.0	0.0	69.2	69.2	9.2	2005.3	0.0	0.0	203.3	190.4	0.0
2	20	0.0	80.3	0.0	80.3	0.0	0.0	80.3	80.3	9.0	1916.0	0.0	0.0	195.5	189.4	0.0
3	31	0.0	111.0	0.0	111.0	0.0	0.0	111.0	111.0	9.7	1795.3	0.0	0.0	185.1	187.9	0.0
4	10	0.0	119.5	0.0	119.5	0.0	0.0	119.5	119.5	11.0	1664.8	0.0	0.0	173.8	186.3	0.0
5	20	0.0	116.1	0.0	116.1	0.0	0.0	116.1	116.1	10.5	1538.2	0.0	0.0	162.9	184.7	0.0
6	29	0.0	113.9	0.0	113.9	0.0	0.0	113.9	113.9	9.1	1415.2	0.0	0.0	152.3	183.2	0.0
7	10	12.7	138.1	0.0	132.2	0.0	12.7	119.5	132.2	12.2	1283.5	0.0	0.0	140.9	181.6	0.0
8	20	17.8	115.3	0.0	107.1	0.0	17.8	89.3	107.1	11.6	1182.6	0.0	0.0	132.2	180.3	0.0
9	31	3.3	96.4	0.0	94.9	0.0	3.3	91.6	94.9	12.3	1078.7	0.0	0.0	123.2	178.9	0.0
10	10	0.0	58.6	0.0	58.6	0.0	0.0	58.6	58.6	11.7	1008.4	0.0	0.0	117.1	177.9	0.0
11	20	0.0	53.7	0.0	53.7	0.0	0.0	53.7	53.7	11.4	943.3	0.0	0.0	111.5	176.9	0.0
12	30	0.0	34.3	0.0	34.3	0.0	0.0	34.3	34.3	11.1	898.0	0.0	0.0	107.6	176.3	0.0
13	10	88.2	40.8	10.5	30.2	68.2	20.0	0.0	20.0	7.8	958.4	0.0	0.0	112.8	177.1	20.0
14	20	142.9	66.1	0.3	65.7	122.9	20.0	0.0	20.0	8.0	1073.3	0.0	0.0	122.7	178.8	20.0
15	31	101.3	46.8	91.6	0.0	56.6	44.8	0.0	44.8	9.2	1120.7	0.0	0.0	126.8	179.5	0.0
16	10	100.7	46.5	34.1	17.4	80.7	20.0	0.0	20.0	5.0	1196.4	0.0	0.0	133.4	180.5	20.0
17	20	167.1	77.2	70.1	7.2	147.1	20.0	0.0	20.0	5.2	1338.3	0.0	0.0	145.6	182.2	20.0
18	30	208.5	96.3	62.8	33.6	188.5	20.0	0.0	20.0	5.4	1521.3	0.0	0.0	161.4	184.5	20.0
19	10	213.7	98.8	1.3	97.5	193.7	20.0	0.0	20.0	5.3	1709.8	0.0	0.0	177.7	186.8	20.0
20	20	172.7	79.8	9.7	70.2	152.7	20.0	0.0	20.0	5.6	1856.9	0.0	0.0	190.4	188.6	20.0
21	31	79.8	36.9	5.1	31.8	57.8	22.0	0.0	22.0	6.5	1908.2	0.0	0.0	194.9	189.3	22.0
22	10	83.8	38.7	1.7	37.0	63.8	20.0	0.0	20.0	6.4	1965.6	0.0	0.0	199.8	190.0	20.0
23	20	100.6	46.5	0.0	46.5	80.6	20.0	0.0	20.0	6.5	2039.7	0.0	0.0	206.2	190.8	20.0
24	31	167.8	77.5	0.0	77.5	145.8	22.0	0.0	22.0	7.3	2178.3	0.0	0.0	218.2	192.3	22.0
25	10	109.0	50.4	0.0	50.4	89.0	20.0	0.0	20.0	7.9	2259.4	0.0	0.0	225.2	193.2	20.0
26	20	68.6	31.7	0.0	31.7	48.6	20.0	0.0	20.0	8.1	2299.9	0.0	0.0	228.7	193.6	20.0
27	30	186.1	86.0	0.0	86.0	166.1	20.0	0.0	20.0	8.1	2430.6	0.0	27.3	240.0	195.0	20.0
28	10	195.7	90.4	0.0	90.4	175.7	20.0	0.0	20.0	10.2	2430.6	0.0	165.4	240.0	195.0	20.0
29	20	129.8	60.0	0.0	60.0	109.8	20.0	0.0	20.0	10.2	2430.6	0.0	49.6	240.0	195.0	20.0
30	31	73.3	33.9	0.0	33.9	51.3	22.0	0.0	22.0	11.2	2430.6	0.0	40.0	240.0	195.0	22.0
31	10	29.7	13.7	44.2	0.0	0.0	29.7	0.9	30.5	10.2	2419.5	0.0	0.0	239.0	194.9	0.0
32	20	12.2	5.6	107.2	0.0	0.0	12.2	89.4	101.6	10.2	2319.9	0.0	0.0	230.4	193.8	0.0
33	30	46.9	21.7	42.8	0.0	25.8	21.2	0.0	21.2	9.9	2335.7	0.0	0.0	231.8	194.0	0.0
34	10	19.0	8.8	58.8	0.0	0.0	19.0	31.0	50.0	9.8	2295.0	0.0	0.0	228.3	193.5	0.0
35	20	0.0	0.0	50.2	0.0	0.0	0.0	50.2	50.2	9.7	2235.1	0.0	0.0	223.1	192.9	0.0
36	31	0.0	0.0	50.4	0.0	0.0	0.0	50.4	50.4	10.5	2174.3	0.0	0.0	217.9	192.2	0.0
TOTAL		2531.1	1169.6	1747.3	861.9	1785.5	2024.5	506.6	1278.9	1785.5	322.7	0.0	332.4	346.0	29.89	346.0
MILLION M <sup>3</sup>		218.69	101.06	150.97	74.47	154.27	174.92	43.77	110.50	154.27	27.86	0.0	28.72	29.89	29.89	29.89





Table 4B-3 (12)

YEAR 1966	ONKAN DAM IPRIGATION PROJECT ( C.M/SEC-10DAYS)															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	54.2	0.0	54.2	0.0	0.0	54.2	54.2	9.3	2055.5	0.0	0.0	207.6	190.9	0.0
2	20	0.0	71.2	0.0	71.2	0.0	0.0	71.2	71.2	9.1	1975.2	0.0	0.0	200.7	190.1	0.0
3	31	5.4	102.2	0.0	99.7	0.0	5.4	94.3	99.7	9.8	1871.1	0.0	0.0	191.7	188.8	0.0
4	10	4.9	114.4	0.0	112.2	0.0	4.9	107.3	112.2	11.2	1752.6	0.0	0.0	181.4	187.3	0.0
5	20	0.0	111.4	0.0	111.4	0.0	0.0	111.4	111.4	10.8	1630.3	0.0	0.0	170.9	185.8	0.0
6	28	0.0	94.5	0.0	94.5	0.0	0.0	94.5	94.5	8.3	1527.6	0.0	0.0	162.0	184.6	0.0
7	10	0.0	123.6	0.0	123.6	0.0	0.0	123.6	123.6	12.7	1391.3	0.0	0.0	150.2	182.9	0.0
8	20	0.0	103.3	0.0	103.3	0.0	0.0	103.3	103.3	12.1	1275.9	0.0	0.0	140.2	181.5	0.0
9	31	0.0	101.2	0.0	101.2	0.0	0.0	101.2	101.2	12.8	1162.0	0.0	0.0	130.4	180.1	0.0
10	10	0.0	62.8	0.0	62.8	0.0	0.0	62.8	62.8	12.0	1087.2	0.0	0.0	123.9	179.0	0.0
11	20	0.0	49.7	0.0	49.7	0.0	0.0	49.7	49.7	11.7	1025.8	0.0	0.0	118.6	178.1	0.0
12	30	0.0	33.4	0.0	33.4	0.0	0.0	33.4	33.4	11.4	981.0	0.0	0.0	114.8	177.5	0.0
13	10	5.3	2.4	0.0	20.0	0.0	5.3	14.7	20.0	8.1	958.2	0.0	0.0	112.8	177.1	14.7
14	20	25.3	11.7	0.4	11.3	20.0	20.0	0.0	20.0	8.0	955.5	0.0	0.0	112.6	177.1	20.0
15	31	99.8	46.1	157.7	0.0	111.6	0.0	99.8	111.6	8.8	934.8	0.0	0.0	110.8	176.8	0.0
16	10	114.4	52.9	81.5	0.0	28.6	85.0	0.0	28.6	4.7	1015.9	0.0	0.0	117.8	178.0	0.0
17	20	130.8	60.4	63.9	0.0	110.8	110.8	0.0	20.0	4.8	1121.9	0.0	0.0	126.9	179.5	16.6
18	30	228.9	105.8	19.1	86.7	20.0	208.9	0.0	20.0	5.0	1325.8	0.0	0.0	144.5	182.1	20.0
19	10	130.8	60.4	2.4	58.1	20.0	110.8	0.0	20.0	4.9	1431.7	0.0	0.0	153.7	183.4	20.0
20	20	171.8	79.4	4.3	75.1	20.0	151.8	0.0	20.0	5.1	1578.4	0.0	0.0	166.4	185.2	20.0
21	31	292.6	135.2	3.2	132.0	22.0	270.6	0.0	22.0	5.9	1843.0	0.0	0.0	189.2	188.5	22.0
22	10	259.3	119.8	0.0	119.8	20.0	239.3	0.0	20.0	6.2	2076.1	0.0	0.0	209.4	191.2	20.0
23	20	132.5	61.2	0.0	61.2	20.0	112.5	0.0	20.0	6.7	2181.9	0.0	0.0	218.5	192.3	20.0
24	31	202.8	93.7	0.0	93.7	22.0	180.8	0.0	22.0	7.5	2355.2	0.0	0.0	233.5	194.2	22.0
25	10	180.8	83.6	0.0	83.6	20.0	160.8	0.0	20.0	8.2	2430.6	0.0	77.2	240.0	195.0	20.0
26	20	81.0	37.5	0.0	37.5	20.0	61.0	0.0	20.0	8.4	2430.6	0.0	52.6	240.0	195.0	20.0
27	30	77.7	35.9	0.0	35.9	20.0	57.7	0.0	20.0	8.4	2430.6	0.0	49.3	240.0	195.0	20.0
28	10	148.4	68.6	0.0	68.6	20.0	128.4	0.0	20.0	10.2	2430.6	0.0	118.2	240.0	195.0	20.0
29	20	67.1	31.0	0.0	31.0	20.0	47.1	0.0	20.0	10.2	2430.6	0.0	36.9	240.0	195.0	20.0
30	31	16.5	7.6	33.1	0.0	25.5	0.0	8.9	25.5	11.2	2410.4	0.0	0.0	238.3	194.8	0.0
31	10	5.4	2.5	140.2	0.0	137.7	0.0	5.4	137.7	9.8	2267.9	0.0	0.0	225.9	193.2	0.0
32	20	1.1	0.5	121.6	0.0	121.1	0.0	1.1	120.0	9.8	2138.1	0.0	0.0	214.7	191.8	0.0
33	30	0.0	0.0	90.5	0.0	90.5	0.0	0.0	90.5	9.5	2038.1	0.0	0.0	206.1	190.8	0.0
34	10	36.4	16.8	65.3	0.0	48.5	0.0	36.4	48.5	9.1	2016.8	0.0	0.0	204.3	190.5	0.0
35	20	5.2	2.4	50.2	0.0	47.8	0.0	5.2	47.8	9.0	1965.3	0.0	0.0	199.8	190.0	0.0
36	31	0.0	0.0	47.9	0.0	47.9	0.0	0.0	47.9	9.8	1907.6	0.0	0.0	194.8	189.3	0.0
TOTAL		2424.1	1120.2	1910.7	894.4	1980.3	1931.5	492.6	1487.7	321.0		0.0	334.2	295.3	295.3	25.51
MILLION M <sup>3</sup>		209.44	98.78	165.09	77.28	171.10	166.88	42.54	128.54	171.10		0.0	28.87			

Table 4B-3 (13)

YEAR 1967	( C.M/SFC-10DAYS)															
	DOKKAN DAM IRRIGATION PROJECT															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	34.9	0.0	34.9	0.0	0.0	34.9	34.9	8.8	1864.0	0.0	0.0	191.0	188.7	0.0
2	20	44.2	20.4	0.0	29.5	14.7	29.5	0.0	29.5	8.6	1870.0	0.0	0.0	191.6	188.8	0.0
3	31	22.0	10.2	67.9	0.0	57.6	22.0	35.6	57.6	9.5	1824.8	0.0	0.0	187.7	188.2	0.0
4	10	0.0	0.0	71.5	0.0	71.5	0.0	71.5	71.5	11.1	1742.3	0.0	0.0	180.5	187.2	0.0
5	20	0.0	0.0	69.7	0.0	69.7	0.0	69.7	69.7	10.8	1661.8	0.0	0.0	173.6	186.2	0.0
6	28	0.0	0.0	60.5	0.0	60.5	0.0	60.5	60.5	8.4	1592.9	0.0	0.0	167.6	185.4	0.0
7	10	0.0	0.0	80.3	0.0	80.3	0.0	80.3	80.3	13.0	1499.6	0.0	0.0	159.6	184.2	0.0
8	20	0.0	0.0	67.1	0.0	67.1	0.0	67.1	67.1	12.6	1420.0	0.0	0.0	152.7	183.2	0.0
9	31	0.0	0.0	62.8	0.0	62.8	0.0	62.8	62.8	13.4	1343.7	0.0	0.0	146.1	182.3	0.0
10	10	0.0	0.0	37.0	0.0	37.0	0.0	37.0	37.0	12.9	1293.8	0.0	0.0	141.8	181.7	0.0
11	20	0.0	0.0	27.5	0.0	27.5	0.0	27.5	27.5	12.6	1253.7	0.0	0.0	138.3	181.2	0.0
12	30	0.0	0.0	2.0	0.0	2.0	0.0	2.0	2.0	12.5	1221.3	0.0	0.0	135.5	180.8	18.0
13	10	79.5	36.8	10.8	26.0	59.5	20.0	0.0	20.0	8.8	1272.0	0.0	0.0	139.9	181.4	20.0
14	20	131.8	60.9	4.1	56.8	111.8	20.0	0.0	20.0	9.0	1374.8	0.0	0.0	148.8	182.7	20.0
15	31	92.9	42.9	139.1	0.0	97.9	3.3	3.3	96.2	10.3	1361.2	0.0	0.0	147.6	182.5	0.0
16	10	108.3	50.0	110.9	0.0	60.8	0.0	0.0	60.8	5.5	1403.2	0.0	0.0	151.2	183.0	0.0
17	20	63.6	29.4	101.0	0.0	71.6	0.0	8.0	71.6	5.6	1389.6	0.0	0.0	150.1	182.9	0.0
18	30	74.0	34.2	139.5	0.0	105.3	0.0	31.3	105.3	5.5	1352.7	0.0	0.0	146.9	182.4	0.0
19	10	167.1	77.2	0.9	76.3	147.1	20.0	0.0	20.0	5.2	1494.8	0.0	0.0	159.2	184.2	20.0
20	20	173.3	80.1	5.3	74.8	153.3	20.0	0.0	20.0	6.0	1642.9	0.0	0.0	172.0	186.0	20.0
21	30	198.7	91.8	102.4	0.0	176.7	22.0	0.0	22.0	6.2	1813.6	0.0	0.0	186.7	188.1	11.4
22	10	309.9	143.2	0.0	143.2	152.9	20.0	0.0	20.0	6.7	2097.3	0.0	0.0	211.2	191.4	20.0
23	20	172.9	79.9	0.0	79.9	176.7	22.0	0.0	22.0	7.6	2243.5	0.0	0.0	223.8	193.0	20.0
24	31	169.1	78.2	0.0	78.2	147.1	22.0	0.0	22.0	8.3	2383.0	0.0	122.9	235.9	194.5	22.0
25	10	198.7	91.8	0.0	91.8	178.7	20.0	0.0	20.0	8.4	2430.6	0.0	81.1	240.0	195.0	20.0
26	20	109.5	50.6	0.0	50.6	89.5	20.0	0.0	20.0	8.4	2430.6	0.0	121.5	240.0	195.0	20.0
27	30	149.9	69.3	0.0	69.3	129.9	20.0	0.0	20.0	10.2	2430.6	0.0	89.8	240.0	195.0	20.0
28	10	120.0	55.4	0.0	55.4	100.0	20.0	0.0	20.0	10.2	2430.6	0.0	21.5	240.0	195.0	20.0
29	20	51.7	23.9	21.2	2.7	31.7	20.0	0.0	20.0	11.2	2430.6	0.0	44.9	240.0	195.0	22.0
30	31	78.1	36.1	0.0	36.1	56.1	22.0	0.0	22.0	10.2	2377.5	0.0	0.0	235.4	194.4	0.0
31	10	35.5	16.4	94.8	0.0	78.3	0.0	42.8	78.3	10.2	2377.5	0.0	0.0	226.4	193.3	0.0
32	20	30.4	14.0	139.1	0.0	125.1	0.0	94.7	125.1	9.8	2272.8	0.0	0.0	218.3	192.3	0.0
33	30	13.6	6.3	103.6	0.0	97.3	0.0	83.7	97.3	9.4	2179.3	0.0	0.0	211.4	191.4	0.0
34	10	0.0	0.0	69.9	0.0	69.9	0.0	69.9	69.9	9.2	2100.0	0.0	0.0	206.0	190.7	0.0
35	20	0.0	0.0	54.3	0.0	54.3	0.0	54.3	54.3	10.0	2036.5	0.0	0.0	201.2	190.1	0.0
36	30	0.0	0.0	45.0	0.0	45.0	0.0	45.0	45.0	10.0	1981.5	0.0	0.0	201.2	190.1	0.0
TOTAL		2594.9	1199.1	1772.8	841.2	1708.3	1886.5	708.4	999.9	1708.3	331.0	0.0	481.7	293.5	25.3	0.0
MILLION M <sup>3</sup>		224.20	103.80	153.17	77.60	147.50	162.90	61.20	86.30	147.50	28.60	0.0	41.62	25.3	0.0	0.0

Table 4B-3 (14)

OKKAN DAM IRRIGATION PROJECT ( C.M/SEC-10DAYS)

YEAR 1968

	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	0.0	0.0	70.4	0.0	70.4	0.0	0.0	70.4	70.4	8.9	1902.1	0.0	0.0	194.3	189.2	0.0
2	2.9	1.3	81.6	0.0	80.3	0.0	2.9	77.4	80.3	8.7	1816.0	0.0	0.0	186.9	188.1	0.0
3	0.0	0.0	111.8	0.0	110.4	0.0	2.9	107.5	110.4	9.4	1699.2	0.0	0.0	176.8	186.7	0.0
4	0.0	0.0	119.1	0.0	119.1	0.0	0.0	119.1	119.1	10.6	1569.4	0.0	0.0	165.6	185.1	0.0
5	0.0	0.0	115.7	0.0	115.7	0.0	0.0	115.7	115.7	10.2	1443.5	0.0	0.0	154.7	183.5	0.0
6	0.0	0.0	114.3	0.0	114.3	0.0	0.0	114.3	114.3	8.8	1320.4	0.0	0.0	144.1	182.0	0.0
7	0.0	0.0	139.2	0.0	139.2	0.0	0.0	139.2	139.2	11.8	1169.4	0.0	0.0	131.0	180.1	0.0
8	0.0	0.0	116.3	0.0	116.3	0.0	0.0	116.3	116.3	11.1	1042.0	0.0	0.0	120.0	178.3	0.0
9	0.0	0.0	110.7	0.0	110.7	0.0	0.0	110.7	110.7	11.7	919.6	0.0	0.0	109.5	176.6	0.0
10	0.0	0.0	66.6	0.0	66.6	0.0	0.0	66.6	66.6	11.0	842.1	0.0	0.0	102.8	175.5	0.0
11	0.0	0.0	52.9	0.0	52.9	0.0	0.0	52.9	52.9	10.6	778.5	0.0	0.0	97.3	174.5	0.0
12	22.3	10.3	25.5	0.0	20.0	2.3	20.0	0.0	20.0	10.4	770.5	0.0	0.0	96.6	174.4	4.8
13	107.9	49.9	1.7	48.2	20.0	87.9	20.0	0.0	20.0	7.4	851.0	0.0	0.0	103.5	175.6	20.0
14	125.0	57.8	4.5	53.2	20.0	105.0	20.0	0.0	20.0	7.7	948.3	0.0	0.0	111.9	177.0	20.0
15	18.7	8.6	175.1	0.0	166.5	0.0	18.7	147.8	166.5	8.8	791.7	0.0	0.0	98.4	174.7	0.0
16	144.1	66.6	20.4	46.2	20.0	124.1	20.0	0.0	20.0	4.4	911.5	0.0	0.0	108.8	176.5	20.0
17	284.7	131.5	21.9	109.7	20.0	264.7	20.0	0.0	20.0	4.6	1171.5	0.0	0.0	131.2	180.2	20.0
18	181.4	83.8	68.4	15.4	20.0	161.4	20.0	0.0	20.0	5.1	1327.8	0.0	0.0	144.7	182.1	20.0
19	142.0	65.6	5.1	60.5	20.0	122.0	20.0	0.0	20.0	4.9	1444.9	0.0	0.0	154.8	183.5	20.0
20	246.7	114.0	3.6	110.4	20.0	226.7	20.0	0.0	20.0	5.1	1666.4	0.0	0.0	174.0	186.3	20.0
21	162.8	79.2	5.0	70.2	22.0	140.8	22.0	0.0	22.0	6.1	1801.1	0.0	0.0	185.6	187.9	22.0
22	286.1	132.2	0.0	132.2	20.0	266.1	20.0	0.0	20.0	6.2	2061.1	0.0	0.0	208.1	191.0	20.0
23	161.3	74.5	0.0	74.5	20.0	141.3	20.0	0.0	20.0	6.6	2195.8	0.0	0.0	219.7	192.5	20.0
24	156.1	72.1	0.0	72.1	22.0	134.1	22.0	0.0	22.0	7.6	2322.3	0.0	0.0	230.6	193.8	22.0
25	179.3	82.9	0.0	82.9	20.0	159.3	20.0	0.0	20.0	8.2	2430.6	0.0	42.8	240.0	195.0	20.0
26	127.2	58.8	0.0	58.8	20.0	107.2	20.0	0.0	20.0	8.4	2430.6	0.0	98.8	240.0	195.0	20.0
27	31.2	14.4	3.3	11.1	20.0	11.2	20.0	0.0	20.0	8.4	2430.6	0.0	2.8	240.0	195.0	20.0
28	128.4	59.3	1.7	57.7	20.0	108.4	20.0	0.0	20.0	10.2	2430.6	0.0	90.2	240.0	195.0	20.0
29	142.5	65.8	147.9	0.0	82.0	60.4	82.0	0.0	82.0	10.2	2430.6	0.0	50.2	240.0	195.0	0.0
30	98.6	45.6	52.7	0.0	22.0	76.6	22.0	0.0	22.0	11.2	2430.6	0.0	65.4	240.0	195.0	14.9
31	28.3	13.1	178.7	0.0	165.6	0.0	28.3	137.4	165.6	10.2	2283.0	0.0	0.0	227.2	193.4	0.0
32	7.7	3.5	110.0	0.0	106.5	0.0	7.7	98.9	106.5	9.9	2174.3	0.0	0.0	217.9	192.2	0.0
33	6.8	3.1	78.5	0.0	75.3	0.0	6.8	68.5	75.3	9.6	2096.1	0.0	0.0	211.1	191.4	0.0
34	7.8	3.6	71.6	0.0	68.0	0.0	7.8	60.2	68.0	9.2	2026.8	0.0	0.0	205.1	190.6	0.0
35	1.8	0.8	55.8	0.0	55.0	0.0	1.8	53.2	55.0	9.0	1964.5	0.0	0.0	199.7	190.0	0.0
36	0.0	0.0	54.5	0.0	54.5	0.0	0.0	54.5	54.5	9.8	1900.2	0.0	0.0	194.2	189.2	0.0
TOTAL	2804.3	1295.9	2184.4	1003.2	2215.4	2299.5	504.8	1710.6	2215.4	312.0	358.2	0.0	358.2	323.7	323.7	27.97
MILLION M <sup>3</sup>	242.29	111.96	188.73	86.67	191.41	198.68	43.62	147.79	191.41	26.96	30.95	0.0	30.95	27.97	27.97	0.0

Table 4B-3 (15)

YEAR 1969		OKKAN DAM IRRIGATION PROJECT														C.M/SEC-100DAYS	
		A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0-0	0-0	67-8	0-0	67-8	0-0	0-0	67-8	67-8	8-7	1823-6	0-0	0-0	187-6	188-2	0-0
	20	0-0	0-0	79-6	0-0	79-6	0-0	0-0	79-6	79-6	8-5	1735-5	0-0	0-0	180-0	187-1	0-0
2	31	0-0	0-0	109-4	0-0	109-4	0-0	0-0	109-4	109-4	9-1	1617-0	0-0	0-0	169-7	185-7	0-0
	20	0-0	0-0	117-1	0-0	117-1	0-0	0-0	117-1	117-1	10-3	1489-6	0-0	0-0	158-7	184-1	0-0
	20	0-0	0-0	114-0	0-0	114-0	0-0	0-0	114-0	114-0	9-9	1365-7	0-0	0-0	148-0	182-6	0-0
3	28	0-0	0-0	97-9	0-0	97-9	0-0	0-0	97-9	97-9	7-6	1260-1	0-0	0-0	138-9	181-3	0-0
	10	0-0	0-0	129-2	0-0	129-2	0-0	0-0	129-2	129-2	11-5	1119-4	0-0	0-0	126-7	179-5	0-0
	20	0-0	0-0	108-0	0-0	108-0	0-0	0-0	108-0	108-0	10-9	1000-5	0-0	0-0	116-4	177-7	0-0
4	31	0-0	0-0	106-1	0-0	106-1	0-0	0-0	106-1	106-1	11-5	882-8	0-0	0-0	106-3	176-0	0-0
	10	0-0	0-0	66-1	0-0	66-1	0-0	0-0	66-1	66-1	10-8	805-9	0-0	0-0	99-6	174-9	0-0
	20	0-0	0-0	52-4	0-0	52-4	0-0	0-0	52-4	52-4	10-5	743-0	0-0	0-0	94-2	174-0	0-0
5	30	0-0	0-0	36-1	0-0	36-1	0-0	0-0	36-1	36-1	10-2	696-7	0-0	0-0	90-2	173-4	0-0
	10	1-9	0-9	17-7	0-0	20-0	0-0	1-9	18-1	20-0	7-2	671-5	0-0	0-0	88-0	173-0	3-2
	20	17-3	8-0	9-7	0-0	20-0	0-0	17-3	2-7	20-0	7-1	661-7	0-0	0-0	87-2	172-9	18-3
6	31	135-6	62-7	91-0	0-0	28-3	107-3	28-3	0-0	28-3	7-8	761-2	0-0	0-0	95-8	174-3	0-0
	10	236-2	109-2	4-3	104-9	20-0	216-2	20-0	0-0	20-0	4-3	973-1	0-0	0-0	114-1	177-3	20-0
	20	200-2	92-5	0-0	92-5	20-0	180-2	20-0	0-0	20-0	4-7	1148-6	0-0	0-0	129-2	179-9	20-0
7	30	161-3	74-5	23-5	51-1	20-0	141-3	20-0	0-0	20-0	5-1	1284-8	0-0	0-0	141-0	181-6	20-0
	10	68-7	31-7	25-0	6-7	20-0	48-7	20-0	0-0	20-0	4-8	1328-6	0-0	0-0	144-8	182-1	20-0
	20	153-7	71-9	6-0	66-0	20-0	135-7	20-0	0-0	20-0	4-9	1459-4	0-0	0-0	156-1	183-7	20-0
8	31	212-9	98-4	0-0	98-4	22-0	190-9	22-0	0-0	22-0	5-7	1644-6	0-0	0-0	172-1	186-0	22-0
	10	230-0	106-3	0-0	106-3	20-0	210-0	20-0	0-0	20-0	5-9	1848-7	0-0	0-0	189-7	188-5	20-0
	20	222-8	103-0	0-0	103-0	20-0	202-8	20-0	0-0	20-0	6-3	2045-2	0-0	0-0	206-7	190-8	20-0
9	31	83-2	38-5	0-0	38-5	22-0	61-2	22-0	0-0	22-0	7-3	2099-2	0-0	0-0	211-4	191-4	22-0
	10	140-7	65-0	0-0	65-0	20-0	120-7	20-0	0-0	20-0	7-7	2212-1	0-0	0-0	221-1	192-6	20-0
	20	106-0	49-0	0-0	49-0	20-0	86-0	20-0	0-0	20-0	8-0	2290-1	0-0	0-0	227-9	193-5	20-0
10	30	146-7	67-8	0-0	67-8	20-0	126-7	20-0	0-0	20-0	8-1	2408-7	0-0	0-0	238-1	194-8	20-0
	10	96-4	44-6	0-0	44-6	20-0	76-4	20-0	0-0	20-0	10-2	2430-6	0-0	44-4	240-0	195-0	20-0
	20	50-8	23-5	193-6	0-0	170-2	0-0	50-8	119-4	170-2	10-2	2301-0	0-0	0-0	228-8	193-6	0-0
11	31	129-2	59-7	87-4	0-0	27-7	101-5	27-7	0-0	27-7	10-9	2391-5	0-0	0-0	236-6	194-6	0-0
	10	82-3	38-1	133-5	0-0	95-4	0-0	82-3	13-1	95-4	10-1	2368-3	0-0	0-0	234-6	194-3	0-0
	20	24-3	11-2	134-9	0-0	123-6	0-0	24-3	99-4	123-6	10-1	2258-9	0-0	0-0	225-2	193-1	0-0
12	30	9-3	4-3	100-6	0-0	96-3	0-0	9-3	87-0	96-3	9-8	2162-1	0-0	0-0	216-8	192-1	0-0
	10	0-2	0-1	72-7	0-0	72-6	0-0	0-2	72-4	72-6	9-4	2080-3	0-0	0-0	209-7	191-2	0-0
	20	0-0	0-0	54-8	0-0	56-8	0-0	0-0	54-7	56-8	9-2	2014-3	0-0	0-0	204-0	190-5	0-0
31	0-0	0-0	0-0	54-7	0-0	54-7	0-0	0-0	54-7	54-7	9-9	1949-6	0-0	0-0	198-4	189-8	0-0
TOTAL	2511-7	1160-4	2095-1	893-5	2113-5	2005-6	506-1	1607-4	2113-5	304-2	304-2	26-29	0-0	0-0	44-4	285-5	0-0
MILLION M <sup>3</sup>	217-01	100-24	161-82	77-70	182-41	173-28	43-73	138-88	182-61	0-0	0-0	7-84	0-0	0-0	24-67	285-5	0-0

Table 4B-3 (16)

YEAR 1970		OKKAN DAM IRRIGATION PROJECT ( C.-M/SEC-10DAYS)														
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	74.9	0.0	74.9	0.0	0.0	74.9	74.9	8.9	1865.9	0.0	0.0	191.2	188.7	0.0
2	20	0.0	86.8	0.0	86.8	0.0	0.0	86.8	86.8	8.6	1770.4	0.0	0.0	183.0	187.6	0.0
3	31	0.0	114.7	0.0	114.7	0.0	0.0	114.7	114.7	9.2	1646.6	0.0	0.0	172.3	186.0	0.0
2	10	0.0	117.3	0.0	117.3	0.0	0.0	117.3	117.3	10.4	1518.9	0.0	0.0	161.2	184.5	0.0
28	20	0.0	114.2	0.0	114.2	0.0	0.0	114.2	114.2	10.0	1394.6	0.0	0.0	150.5	182.9	0.0
3	10	0.0	99.7	0.0	99.7	0.0	0.0	99.7	99.7	7.7	1287.3	0.0	0.0	141.2	181.6	0.0
20	20	0.0	132.8	0.0	132.8	0.0	0.0	132.8	132.8	11.6	1142.8	0.0	0.0	128.7	179.8	0.0
31	30	0.0	111.0	0.0	111.0	0.0	0.0	111.0	111.0	11.0	1020.9	0.0	0.0	118.2	178.0	0.0
4	10	0.0	61.2	0.0	61.2	0.0	0.0	61.2	61.2	11.6	948.1	0.0	0.0	111.9	177.0	0.0
4	20	0.0	60.4	0.0	60.4	0.0	0.0	60.4	60.4	11.1	876.6	0.0	0.0	105.7	176.0	0.0
20	20	0.0	52.7	0.0	52.7	0.0	0.0	52.7	52.7	10.8	813.2	0.0	0.0	100.3	175.0	0.0
30	30	0.0	16.7	0.0	20.0	0.0	0.0	20.0	20.0	10.5	782.7	0.0	0.0	97.6	174.6	3.3
5	10	46.7	21.6	5.1	16.5	20.0	20.0	0.0	20.0	7.4	802.0	0.0	0.0	99.3	174.9	20.0
20	20	97.4	45.0	1.1	43.9	20.0	20.0	0.0	20.0	7.5	871.8	0.0	0.0	105.3	175.9	20.0
31	31	162.0	74.9	18.8	56.1	22.0	22.0	0.0	22.0	8.5	1003.4	0.0	0.0	116.7	177.8	22.0
6	10	97.6	45.1	53.8	0.0	20.0	20.0	0.0	20.0	4.8	1076.2	0.0	0.0	123.0	178.8	11.3
20	20	137.1	63.4	24.8	38.5	20.0	20.0	0.0	20.0	4.9	1188.4	0.0	0.0	132.7	180.4	20.0
30	30	137.5	63.6	116.9	0.0	53.3	53.3	0.0	53.3	5.1	1267.4	0.0	0.0	139.5	181.4	0.0
7	10	162.3	75.0	107.9	0.0	129.4	32.9	0.0	32.9	4.8	1392.0	0.0	0.0	150.3	182.9	0.0
20	20	257.1	118.8	0.0	118.8	20.0	20.0	0.0	20.0	5.0	1624.0	0.0	0.0	170.3	185.8	20.0
31	31	188.7	87.2	0.0	87.2	22.0	22.0	0.0	22.0	6.0	1784.7	0.0	0.0	184.2	187.7	22.0
8	10	187.3	86.6	0.0	86.6	167.3	20.0	0.0	20.0	6.1	1945.9	0.0	0.0	198.1	189.7	20.0
20	20	132.0	61.0	0.0	61.0	112.0	20.0	0.0	20.0	6.4	2051.5	0.0	0.0	207.2	190.9	20.0
31	31	253.5	117.2	0.0	117.2	231.5	22.0	0.0	22.0	7.3	2275.7	0.0	0.0	226.6	193.3	22.0
9	10	139.9	64.7	0.0	64.7	119.9	20.0	0.0	20.0	8.1	2387.6	0.0	0.0	236.3	194.5	20.0
20	20	166.4	76.9	0.0	76.9	146.4	20.0	0.0	20.0	8.3	2430.6	0.0	95.0	240.0	195.0	20.0
30	30	133.9	61.9	0.0	61.9	113.9	20.0	0.0	20.0	8.4	2430.6	0.0	105.5	240.0	195.0	20.0
10	10	77.6	35.9	0.0	35.9	57.6	20.0	0.0	20.0	10.2	2430.6	0.0	47.4	240.0	195.0	20.0
20	20	69.2	32.0	0.4	31.6	49.2	20.0	0.0	20.0	10.2	2430.6	0.0	39.0	240.0	195.0	20.0
31	31	139.6	64.5	0.0	64.5	117.6	22.0	0.0	22.0	11.2	2430.6	0.0	106.3	240.0	195.0	22.0
11	10	48.6	22.5	78.6	0.0	56.1	48.6	7.5	56.1	10.2	2412.8	0.0	0.0	238.5	194.8	0.0
20	20	16.7	7.7	145.1	0.0	137.4	16.7	120.7	137.4	10.2	2282.0	0.0	0.0	227.2	193.4	0.0
30	30	3.1	1.4	107.9	0.0	106.5	3.1	103.3	106.5	9.9	2168.8	0.0	0.0	217.4	192.2	0.0
12	10	2.9	1.3	61.5	0.0	60.2	2.9	57.3	60.2	9.4	2102.1	0.0	0.0	211.6	191.5	0.0
20	20	0.7	0.3	53.0	0.0	52.7	0.7	52.0	52.7	9.2	2040.9	0.0	0.0	206.3	190.8	0.0
31	31	0.0	0.0	54.0	0.0	54.0	0.0	54.0	54.0	10.0	1976.8	0.0	0.0	200.8	190.1	0.0
TOTAL		2658.0	1228.2	1871.2	961.1	1926.6	2171.7	486.3	1440.4	310.8	393.3	0.0	0.0	322.6	327.6	27.87
MILLION M <sup>3</sup>		229.65	106.12	161.67	83.04	166.46	187.63	42.01	124.45	166.46	26.85	0.0	0.0	33.98		



Table 4B-3 (18)

YEAR 1972		OKKAN DAM IRRIGATION PROJECT ( C.M/SEC-10DAYS)														
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	64.7	0.0	64.7	0.0	0.0	64.7	64.7	7.5	1343.1	0.0	0.0	146.0	182.3	0.0
2	20	0.0	76.4	0.0	76.4	0.0	0.0	76.4	76.4	7.3	1259.4	0.0	0.0	138.8	181.3	0.0
3	31	0.0	106.6	0.0	106.6	0.0	0.0	106.6	106.6	7.7	1145.1	0.0	0.0	128.9	179.8	0.0
4	10	0.0	115.9	0.0	115.9	0.0	0.0	115.9	115.9	8.7	1020.4	0.0	0.0	118.2	178.0	0.0
5	20	0.0	112.6	0.0	112.6	0.0	0.0	112.6	112.6	8.3	899.5	0.0	0.0	107.7	176.3	0.0
6	31	0.0	109.1	0.0	109.1	0.0	0.0	109.1	109.1	7.2	783.3	0.0	0.0	97.7	174.6	0.0
7	10	0.0	131.0	0.0	131.0	0.0	0.0	131.0	131.0	9.6	642.7	0.0	0.0	85.5	172.6	0.0
8	20	0.0	109.4	0.0	109.4	0.0	0.0	109.4	109.4	9.0	524.3	0.0	0.0	75.3	170.9	0.0
9	31	0.0	103.2	0.0	103.2	0.0	0.0	103.2	103.2	9.4	411.5	0.0	0.0	65.6	168.4	0.0
10	10	0.0	40.7	0.0	40.7	0.0	0.0	40.7	40.7	8.4	362.6	0.0	0.0	61.3	166.8	0.0
11	20	0.0	48.8	0.0	48.8	0.0	0.0	48.8	48.8	7.9	305.9	0.0	0.0	56.4	165.0	0.0
12	30	0.0	35.8	0.0	35.8	0.0	0.0	35.8	35.8	7.3	262.7	0.0	0.0	52.7	163.6	0.0
13	10	0.0	19.0	0.0	20.0	0.0	0.0	20.0	20.0	4.9	237.8	0.0	0.0	50.5	162.8	1.0
14	20	7.6	4.6	0.0	20.0	0.0	7.6	12.4	20.0	4.7	220.6	0.0	0.0	49.1	162.2	18.9
15	31	14.6	166.5	0.0	159.8	0.0	14.6	145.1	159.8	5.1	70.4	0.0	0.0	36.1	156.7	0.0
16	10	30.1	85.1	0.0	71.2	0.0	30.1	41.2	71.2	2.1	27.1	0.0	0.0	32.3	154.9	0.0
17	20	44.6	17.9	2.7	20.0	24.6	20.0	0.0	20.0	2.0	49.8	0.0	0.0	34.3	155.9	20.0
18	30	96.3	44.5	0.0	20.0	76.3	20.0	0.0	20.0	2.0	124.1	0.0	0.0	40.7	156.9	20.0
19	10	94.0	43.4	0.0	43.4	74.0	20.0	0.0	20.0	2.1	195.9	0.0	0.0	46.9	161.5	20.0
20	20	340.2	157.2	0.5	156.7	320.2	20.0	0.0	20.0	2.4	513.7	0.0	0.0	74.4	170.7	20.0
21	31	272.1	125.7	0.0	125.7	250.1	22.0	0.0	22.0	3.9	759.9	0.0	0.0	95.7	174.3	22.0
22	10	256.2	118.4	0.0	118.4	236.2	20.0	0.0	20.0	4.6	1305.9	0.0	0.0	115.7	177.6	20.0
23	20	338.6	156.5	0.0	156.5	310.6	22.0	0.0	22.0	5.7	1756.8	0.0	0.0	142.8	181.8	22.0
24	31	478.6	221.2	0.0	221.2	456.6	22.0	0.0	20.0	7.0	1832.8	0.0	0.0	181.8	187.4	22.0
25	10	103.0	47.6	0.0	47.6	83.0	20.0	0.0	20.0	7.0	1832.8	0.0	0.0	188.4	188.3	20.0
26	20	134.1	62.0	0.0	108.3	25.7	108.3	0.0	108.3	7.2	1851.3	0.0	0.0	190.0	188.6	0.0
27	30	176.1	81.4	0.0	81.4	156.1	20.0	0.0	20.0	7.2	2000.2	0.0	0.0	202.8	190.4	20.0
28	10	106.5	49.2	0.0	49.2	86.5	20.0	0.0	20.0	9.2	2077.5	0.0	0.0	209.5	191.2	20.0
29	20	58.0	26.8	117.4	0.0	90.6	58.0	32.6	90.6	9.4	2035.5	0.0	0.0	205.9	190.7	0.0
30	31	18.8	8.7	241.5	0.0	232.9	18.8	214.1	232.9	10.2	1811.2	0.0	0.0	186.5	188.1	0.0
31	10	69.6	32.2	162.9	0.0	130.7	69.6	61.1	130.7	8.7	1741.3	0.0	0.0	180.5	187.2	0.0
32	20	24.0	11.1	106.1	0.0	95.0	24.0	70.9	95.0	8.5	1661.9	0.0	0.0	173.6	186.2	0.0
33	30	17.0	7.9	1.7	6.2	20.0	17.0	3.0	20.0	8.3	1650.6	0.0	0.0	172.6	186.1	20.0
34	10	25.6	11.8	19.5	0.0	20.0	5.6	0.0	20.0	8.1	1648.1	0.0	0.0	172.4	186.1	12.3
35	20	6.7	3.1	43.0	0.0	39.9	6.7	33.2	39.9	8.1	1606.9	0.0	0.0	168.8	185.5	0.0
36	31	0.3	0.1	44.4	0.0	44.3	0.3	44.0	44.3	8.8	1554.1	0.0	0.0	164.3	184.9	0.0
TOTAL		2712.5	1253.5	2254.7	1053.4	2330.9	2113.5	599.1	1731.8	2330.9	242.7	0.0	0.0	276.2	238.86	276.2
MILLION M <sup>3</sup>		234.36	108.30	194.81	91.02	201.39	182.60	51.76	149.63	201.39	20.97	0.0	0.0	23.86	23.86	23.86

Table 4B-3 (19)

YEAR 1973	OKKAN DAM IRRIGATION PROJECT ( C-M/SEC-10DAYS)															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	0.0	65.3	0.0	65.3	0.0	65.3	65.3	7.8	1481.0	0.0	0.0	158.0	184.0	0.0
	20	0.0	0.0	75.9	0.0	75.9	0.0	75.9	75.9	7.6	1397.5	0.0	0.0	150.7	183.0	0.0
2	10	0.0	0.0	105.9	0.0	105.9	0.0	105.9	105.9	8.1	1283.5	0.0	0.0	140.9	181.6	0.0
	20	0.0	0.0	115.2	0.0	115.2	0.0	115.2	115.2	9.2	1159.1	0.0	0.0	130.1	180.0	0.0
3	10	0.0	0.0	112.2	0.0	112.2	0.0	112.2	112.2	8.9	1038.2	0.0	0.0	119.7	178.3	0.0
	20	0.0	0.0	96.2	0.0	96.2	0.0	96.2	96.2	6.7	935.2	0.0	0.0	110.8	176.8	0.0
4	10	0.0	0.0	126.8	0.0	126.8	0.0	126.8	126.8	10.2	798.2	0.0	0.0	99.0	174.8	0.0
	20	0.0	0.0	106.1	0.0	106.1	0.0	106.1	106.1	9.6	682.5	0.0	0.0	89.0	173.2	0.0
5	10	0.0	0.0	108.6	0.0	108.6	0.0	108.6	108.6	10.1	563.8	0.0	0.0	78.7	171.5	0.0
	20	0.0	0.0	70.7	0.0	70.7	0.0	70.7	70.7	9.4	483.7	0.0	0.0	71.8	170.3	0.0
6	10	0.0	0.0	55.7	0.0	55.7	0.0	55.7	55.7	9.1	418.9	0.0	0.0	66.2	168.6	0.0
	20	0.0	0.0	34.8	0.0	34.8	0.0	34.8	34.8	8.5	375.6	0.0	0.0	62.5	167.2	0.0
7	10	0.0	0.0	9.5	0.0	9.5	0.0	9.5	9.5	5.8	349.8	0.0	0.0	60.2	166.4	10.5
	20	48.5	22.4	0.3	22.1	20.0	20.0	20.0	20.0	5.6	372.8	0.0	0.0	62.2	167.1	20.0
8	10	63.1	29.2	185.8	0.0	156.6	0.0	63.1	93.5	6.3	272.9	0.0	0.0	53.6	163.9	0.0
	20	14.6	6.8	225.1	0.0	218.3	0.0	14.6	203.7	3.0	66.2	0.0	0.0	35.7	156.5	0.0
9	10	171.2	79.1	84.8	0.0	20.0	151.2	20.0	20.0	2.1	215.3	0.0	0.0	48.6	162.1	14.3
	20	63.2	29.2	169.6	0.0	53.6	120.2	53.6	0.0	2.7	135.4	0.0	0.0	41.7	159.4	0.0
10	10	173.8	80.3	133.9	0.0	20.0	324.7	20.0	0.0	2.1	253.5	0.0	0.0	51.9	163.3	0.0
	20	344.7	159.3	82.0	77.2	20.0	93.3	22.0	0.0	2.6	575.5	0.0	0.0	79.7	171.6	20.0
11	10	115.3	53.3	0.0	53.3	22.0	120.5	20.0	0.0	4.0	664.8	0.0	0.0	87.4	172.9	22.0
	20	140.5	64.9	0.0	64.9	20.0	120.5	20.0	0.0	4.0	781.3	0.0	0.0	97.5	174.6	20.0
12	10	154.9	71.6	0.0	71.6	20.0	134.9	20.0	0.0	4.3	912.0	0.0	0.0	108.8	176.5	20.0
	20	517.5	239.1	0.0	239.1	22.0	495.5	22.0	0.0	4.9	1402.5	0.0	0.0	151.2	183.0	22.0
13	10	224.6	103.8	0.0	103.8	20.0	204.6	20.0	0.0	6.2	1600.9	0.0	0.0	168.3	185.5	20.0
	20	192.0	88.7	5.5	83.2	20.0	172.0	20.0	0.0	6.7	1766.2	0.0	0.0	182.6	187.5	20.0
14	10	124.0	57.3	0.0	57.3	20.0	104.0	20.0	0.0	7.0	1863.2	0.0	0.0	191.0	188.7	20.0
	20	119.3	55.1	0.0	55.1	20.0	99.3	20.0	0.0	8.8	1953.7	0.0	0.0	198.8	189.8	20.0
15	10	108.3	50.1	0.0	50.1	20.0	88.3	20.0	0.0	9.1	2032.9	0.0	0.0	205.6	190.7	20.0
	20	165.7	76.6	186.5	0.0	110.0	55.7	110.0	0.0	10.2	2078.4	0.0	0.0	209.6	191.2	0.0
16	10	8.7	4.0	80.2	0.0	76.2	0.0	8.7	67.5	9.4	2001.6	0.0	0.0	202.9	190.4	0.0
	20	12.7	5.9	89.4	0.0	83.5	0.0	12.7	70.9	9.2	1921.5	0.0	0.0	196.0	189.4	0.0
17	10	6.1	2.8	59.5	0.0	56.7	0.0	6.1	50.6	9.0	1861.9	0.0	0.0	190.9	188.7	0.0
	20	5.2	2.4	63.1	0.0	60.7	0.0	5.2	55.5	8.6	1797.8	0.0	0.0	185.3	187.9	0.0
18	10	0.5	0.2	48.0	0.0	48.0	0.0	0.5	47.5	8.5	1741.9	0.0	0.0	180.5	187.2	0.0
	20	0.0	0.0	47.8	0.0	47.8	0.0	0.0	47.8	9.1	1684.9	0.0	0.0	175.6	186.5	0.0
TOTAL		2174.4	1202.1	2544.5	872.8	2362.6	2103.0	580.2	1874.8	254.5	254.5	0.0	0.0	249.8	249.8	249.8
MILLION M3		239.7	110.7	219.8	75.8	206.1	210.4	50.2	186.1	20.4	20.4	0.0	0.0	24.9	24.9	24.9







Table 4B-3 (22)

YEAR 1976		OKKAN DAM IRRIGATION PROJECT ( C.M/SEC-100DAYS)															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	63.4	0.0	63.4	0.0	0.0	63.4	63.4	63.4	8.8	1836.7	0.0	0.0	188.7	188.4	0.0
	20	0.0	73.5	0.0	73.5	0.0	0.0	73.5	73.5	73.5	8.6	1754.7	0.0	0.0	181.6	187.4	0.0
2	10	0.0	105.5	0.0	105.5	0.0	0.0	105.5	105.5	105.5	9.2	1640.0	0.0	0.0	171.7	186.0	0.0
	20	0.0	118.2	0.0	118.2	0.0	0.0	118.2	118.2	118.2	10.4	1511.4	0.0	0.0	160.6	184.4	0.0
3	10	0.0	114.8	0.0	114.8	0.0	0.0	114.8	114.8	114.8	10.0	1386.7	0.0	0.0	149.8	182.8	0.0
	20	0.0	111.1	0.0	111.1	0.0	0.0	111.1	111.1	111.1	8.6	1266.9	0.0	0.0	139.5	181.4	0.0
4	10	0.0	133.4	0.0	133.4	0.0	0.0	133.4	133.4	133.4	11.6	1122.0	0.0	0.0	126.9	179.5	0.0
	20	0.0	111.4	0.0	111.4	0.0	0.0	111.4	111.4	111.4	10.9	999.7	0.0	0.0	116.4	177.7	0.0
5	10	0.0	105.4	0.0	105.4	0.0	0.0	105.4	105.4	105.4	11.5	882.8	0.0	0.0	106.3	176.0	0.0
	20	0.0	62.7	0.0	62.7	0.0	0.0	62.7	62.7	62.7	10.8	809.3	0.0	0.0	99.9	175.0	0.0
6	10	0.0	49.4	0.0	49.4	0.0	0.0	49.4	49.4	49.4	10.5	749.4	0.0	0.0	94.8	174.1	0.0
	20	0.0	30.6	0.0	30.6	0.0	0.0	30.6	30.6	30.6	10.2	708.6	0.0	0.0	91.2	173.5	0.0
7	10	0.0	1.5	0.0	20.0	0.0	0.0	20.0	20.0	20.0	7.2	681.4	0.0	0.0	88.9	173.1	18.5
	20	4.0	5.1	0.0	20.0	0.0	4.0	16.0	16.0	20.0	7.1	658.3	0.0	0.0	86.9	172.8	16.8
8	10	32.1	54.1	0.0	39.3	0.0	32.1	7.1	39.3	39.3	7.8	643.4	0.0	0.0	85.6	172.6	0.0
	20	65.3	125.8	0.0	95.6	0.0	65.3	30.3	95.6	95.6	4.1	609.0	0.0	0.0	82.6	172.1	0.0
9	10	311.9	204.3	0.0	60.2	251.7	60.2	0.0	60.2	60.2	4.1	856.6	0.0	0.0	104.0	175.7	0.0
	20	139.7	64.6	0.0	48.9	90.9	48.9	0.0	48.9	48.9	4.5	943.0	0.0	0.0	111.5	176.9	0.0
10	10	185.4	85.7	0.0	85.7	20.0	165.4	20.0	0.0	20.0	4.3	1104.0	0.0	0.0	125.4	179.2	20.0
	20	172.6	79.7	3.6	76.1	20.0	192.6	20.0	0.0	20.0	4.5	1252.1	0.0	0.0	138.2	181.2	20.0
11	10	162.2	74.9	0.0	74.9	22.0	140.2	22.0	0.0	22.0	5.3	1387.0	0.0	0.0	149.8	182.8	22.0
	20	89.2	41.2	0.0	41.2	20.0	69.2	20.0	0.0	20.0	5.5	1450.8	0.0	0.0	155.3	183.6	20.0
12	10	168.4	77.8	0.0	77.8	20.0	148.4	20.0	0.0	20.0	6.3	1593.6	0.0	0.0	167.7	185.4	20.0
	20	93.0	43.0	0.0	43.0	22.0	71.0	22.0	0.0	22.0	6.8	1658.3	0.0	0.0	173.3	186.2	22.0
13	10	164.0	75.8	0.0	75.8	20.0	144.0	20.0	0.0	20.0	7.1	1948.3	0.0	0.0	185.1	187.9	20.0
	20	180.0	83.2	0.0	83.2	20.0	160.0	20.0	0.0	20.0	7.5	2072.8	0.0	0.0	198.3	189.8	20.0
14	10	152.0	70.2	0.0	70.2	20.0	132.0	20.0	0.0	20.0	9.4	2100.7	0.0	0.0	209.1	191.1	20.0
	20	57.2	26.5	0.0	26.5	20.0	37.2	20.0	0.0	20.0	9.4	2125.0	0.0	0.0	213.6	191.4	20.0
15	10	53.7	24.8	16.9	7.9	20.0	33.7	20.0	0.0	20.0	10.4	2218.9	0.0	0.0	221.7	192.7	0.0
	20	160.7	74.2	130.6	0.0	56.4	104.3	56.4	0.0	56.4	10.4	2218.9	0.0	0.0	211.0	191.4	0.0
16	10	29.3	13.5	156.6	0.0	143.1	0.0	29.3	113.8	143.1	9.7	2095.4	0.0	0.0	211.0	191.4	0.0
	20	15.0	6.9	123.7	0.0	116.7	0.0	15.0	101.7	116.7	9.4	1984.2	0.0	0.0	201.4	190.2	0.0
17	10	11.3	5.2	91.9	0.0	86.7	0.0	11.3	75.4	86.7	9.2	1899.6	0.0	0.0	194.1	189.2	0.0
	20	9.0	4.1	61.9	0.0	57.7	0.0	9.0	48.7	57.7	8.7	1842.2	0.0	0.0	189.2	188.5	0.0
18	10	3.5	1.6	47.1	0.0	45.5	0.0	3.5	41.9	45.5	8.6	1791.6	0.0	0.0	184.8	187.8	0.0
	20	0.0	0.0	46.4	0.0	46.4	0.0	0.0	46.4	46.4	9.3	1736.0	0.0	0.0	180.0	187.1	0.0
TOTAL		2259.4	1044.1	2262.3	662.2	2139.7	1700.3	559.1	1580.6	2139.7	292.6						259.2
MILLION M <sup>3</sup>		195.21	90.21	195.46	57.21	184.87	146.91	48.31	136.56	184.87	25.28						22.40



Table 4B-3 (24)

YEAR 1978		OKKAN DAM IRRIGATION PROJECT ( C-M/SEC-10DAYS)															
		A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	0.0	29.9	0.0	29.9	0.0	0.0	29.9	29.9	9.4	2153.7	0.0	0.0	216.1	192.0	0.0
	20	0.0	0.0	45.3	0.0	45.3	0.0	0.0	45.3	45.3	9.3	2099.0	0.0	0.0	211.4	191.4	0.0
2	31	0.0	0.0	62.8	0.0	62.8	0.0	0.0	62.8	62.8	10.1	2026.1	0.0	0.0	205.1	190.6	0.0
	10	0.0	0.0	67.7	0.0	67.7	0.0	0.0	67.7	67.7	11.7	1946.7	0.0	0.0	198.2	189.7	0.0
	20	0.0	0.0	66.0	0.0	66.0	0.0	0.0	66.0	66.0	11.5	1869.2	0.0	0.0	191.5	188.8	0.0
	28	0.0	0.0	54.6	0.0	54.6	0.0	0.0	54.6	54.6	9.0	1805.6	0.0	0.0	186.0	188.0	0.0
3	10	0.0	0.0	58.8	0.0	58.8	0.0	0.0	58.8	58.8	13.9	1733.0	0.0	0.0	179.7	187.1	0.0
	20	0.0	0.0	61.9	0.0	61.9	0.0	0.0	61.9	61.9	13.6	1657.5	0.0	0.0	173.2	186.2	0.0
	31	0.0	0.0	61.4	0.0	61.4	0.0	0.0	61.4	61.4	14.6	1581.6	0.0	0.0	166.6	185.2	0.0
4	10	0.0	0.0	38.7	0.0	38.7	0.0	0.0	38.7	38.7	14.0	1528.9	0.0	0.0	162.1	184.6	0.0
	20	0.0	0.0	30.7	0.0	30.7	0.0	0.0	30.7	30.7	13.7	1484.4	0.0	0.0	158.3	184.0	0.0
	30	0.0	0.0	21.8	0.0	21.8	0.0	0.0	21.8	21.8	13.5	1449.0	0.0	0.0	155.2	183.6	0.0
5	10	0.5	0.2	10.6	0.0	20.0	0.0	0.5	19.5	20.0	9.6	1419.9	0.0	0.0	152.7	183.2	9.6
	20	5.5	2.6	2.1	0.4	20.0	0.0	5.5	14.5	20.0	9.5	1395.9	0.0	0.0	150.6	182.9	20.0
	31	10.0	4.6	154.7	0.0	150.1	0.0	10.0	140.1	150.1	10.4	1245.5	0.0	0.0	137.6	181.1	0.0
6	10	19.0	8.8	109.6	0.0	100.8	0.0	19.0	81.8	100.8	5.3	1158.4	0.0	0.0	130.1	180.0	0.0
	20	70.1	32.4	161.1	0.0	128.7	0.0	70.1	58.7	128.7	5.1	1094.7	0.0	0.0	124.6	179.1	0.0
	30	111.7	51.6	99.3	0.0	47.7	64.0	47.7	0.0	47.7	5.0	1153.7	0.0	0.0	129.7	179.9	0.0
7	10	47.7	22.0	76.0	0.0	54.0	0.0	47.7	6.3	54.0	4.6	1142.8	0.0	0.0	128.7	179.8	0.0
	20	155.4	71.8	0.0	71.8	20.0	135.4	20.0	0.0	20.0	4.6	1273.6	0.0	0.0	140.0	181.4	20.0
	31	197.2	91.1	0.0	91.1	22.0	175.2	22.0	0.0	22.0	5.3	1443.5	0.0	0.0	154.7	183.5	22.0
8	10	238.7	110.3	0.0	110.3	20.0	218.7	20.0	0.0	20.0	5.5	1656.7	0.0	0.0	173.1	186.2	20.0
	20	189.7	87.7	0.0	87.7	20.0	169.7	20.0	0.0	20.0	5.9	1820.6	0.0	0.0	187.3	188.2	20.0
	31	388.0	179.3	0.0	179.3	22.0	366.0	22.0	0.0	22.0	6.8	2179.7	0.0	0.0	218.3	192.3	22.0
9	10	449.1	207.5	0.0	207.5	20.0	429.1	20.0	0.0	20.0	7.9	2430.6	0.0	170.3	240.0	195.0	20.0
	20	157.5	72.8	0.0	72.8	20.0	137.5	20.0	0.0	20.0	8.4	2430.6	0.0	129.1	240.0	195.0	20.0
	30	124.0	57.3	0.0	57.3	20.0	104.0	20.0	0.0	20.0	8.4	2430.6	0.0	95.6	240.0	195.0	20.0
10	10	96.0	44.4	0.0	44.4	20.0	76.0	20.0	0.0	20.0	10.2	2430.6	0.0	65.8	240.0	195.0	20.0
	20	55.5	25.6	0.0	25.6	20.0	35.5	20.0	0.0	20.0	10.2	2430.6	0.0	25.3	240.0	195.0	20.0
	31	11.6	5.4	0.0	5.4	22.0	0.0	11.6	10.4	22.0	11.2	2408.9	0.0	0.0	238.1	194.8	22.0
11	10	2.9	1.3	79.5	0.0	78.2	0.0	2.9	75.3	78.2	10.2	2323.5	0.0	0.0	230.7	193.8	0.0
	20	1.6	0.7	137.8	0.0	137.1	0.0	1.6	135.5	137.1	10.0	2178.0	0.0	0.0	218.2	192.3	0.0
	30	0.6	0.3	103.0	0.0	102.7	0.0	0.6	102.1	102.7	9.6	2066.4	0.0	0.0	208.5	191.1	0.0
12	10	0.2	0.1	78.9	0.0	78.8	0.0	0.2	78.6	78.8	9.1	1978.6	0.0	0.0	201.0	190.1	0.0
	20	0.1	0.0	62.3	0.0	62.3	0.0	0.1	62.2	62.3	8.9	1907.5	0.0	0.0	194.8	189.3	0.0
	31	0.0	0.0	49.2	0.0	49.2	0.0	0.0	49.2	49.2	9.6	1848.6	0.0	0.0	189.7	188.5	0.0
TOTAL		2332.5	1077.8	1723.7	953.6	1855.1	1911.1	421.4	1433.7	1855.1	335.6	486.1	0.0	486.1	255.6	225.6	22.09
MILLION M <sup>3</sup>		201.52	93.12	148.93	82.39	160.28	165.12	36.41	123.88	160.28	29.00	42.00	0.0	42.00	22.09	22.09	22.09

Table 4B-3 (25)

YEAR 1979 OKKAN DAM IRRIGATION PROJECT ( C.M/SEC-10DAYS)

	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)
1	10	0.0	87.0	0.0	87.0	0.0	0.0	87.0	87.0	8.6	1753.0	0.0	0.0	181.5	187.4	0.0
	20	0.0	100.9	0.0	100.9	0.0	0.0	100.9	100.9	8.3	1643.8	0.0	0.0	172.0	186.0	0.0
	31	0.0	131.6	0.0	131.6	0.0	0.0	131.6	131.6	8.9	1503.3	0.0	0.0	159.9	184.3	0.0
2	10	0.0	132.6	0.0	132.6	0.0	0.0	132.6	132.6	10.0	1360.8	0.0	0.0	147.6	182.5	0.0
	20	0.0	129.2	0.0	129.2	0.0	0.0	129.2	129.2	9.5	1222.1	0.0	0.0	135.6	180.8	0.0
	28	0.0	115.7	0.0	115.7	0.0	0.0	115.7	115.7	7.2	1099.2	0.0	0.0	125.0	179.2	0.0
3	10	0.0	156.6	0.0	156.6	0.0	0.0	156.6	156.6	10.8	931.7	0.0	0.0	110.5	176.8	0.0
	20	0.0	130.7	0.0	130.7	0.0	0.0	130.7	130.7	10.2	790.9	0.0	0.0	98.3	174.7	0.0
	31	0.0	122.5	0.0	122.5	0.0	0.0	122.5	122.5	10.6	657.8	0.0	0.0	86.8	172.8	0.0
4	10	0.0	72.0	0.0	72.0	0.0	0.0	72.0	72.0	9.8	576.0	0.0	0.0	79.8	171.6	0.0
	20	0.0	56.9	0.0	56.9	0.0	0.0	56.9	56.9	9.5	509.6	0.0	0.0	74.0	170.7	0.0
	30	0.0	37.9	0.0	37.9	0.0	0.0	37.9	37.9	9.2	462.5	0.0	0.0	70.0	170.0	0.0
5	10	0.7	17.1	0.0	20.0	0.0	0.7	19.3	20.0	6.4	436.7	0.0	0.0	67.7	169.2	3.2
	20	1.3	1.8	0.0	20.0	0.0	1.3	18.7	20.0	6.2	411.8	0.0	0.0	65.6	168.4	18.8
	31	0.9	0.4	188.0	0.0	187.6	0.0	184.7	187.6	6.7	218.4	0.0	0.0	48.9	162.2	0.0
6	10	9.3	4.3	123.2	0.0	118.9	0.0	104.6	118.9	2.7	106.1	0.0	0.0	39.2	158.2	0.0
	20	11.1	5.1	135.5	0.0	130.3	0.0	119.2	130.3	2.2	0.0	13.1	0.0	30.0	155.0	0.0
	30	93.4	43.2	68.7	0.0	25.5	67.9	0.0	25.5	2.0	65.9	0.0	0.0	35.7	156.5	0.0
7	10	138.8	73.4	50.9	22.5	20.0	138.8	0.0	20.0	1.9	202.8	0.0	0.0	47.5	161.7	20.0
	20	176.7	81.6	2.2	79.4	20.0	156.7	0.0	20.0	2.4	357.1	0.0	0.0	60.9	166.6	20.0
	31	33.1	15.3	9.3	6.0	22.0	11.1	0.0	22.0	3.3	364.9	0.0	0.0	61.5	166.9	22.0
8	10	397.9	183.9	0.0	183.9	20.0	377.9	0.0	20.0	3.3	739.5	0.0	0.0	93.9	174.0	20.0
	20	286.8	132.5	0.0	132.5	20.0	266.8	0.0	20.0	4.2	1002.1	0.0	0.0	116.6	177.8	20.0
	31	254.8	117.7	0.0	117.7	22.0	232.8	0.0	22.0	5.1	1229.8	0.0	0.0	136.3	180.9	22.0
9	10	147.9	68.3	0.0	68.3	20.0	127.9	0.0	20.0	5.9	1351.8	0.0	0.0	146.8	182.4	20.0
	20	29.8	13.8	122.7	0.0	109.0	0.0	79.2	109.0	6.1	1266.5	0.0	0.0	139.4	181.3	0.0
	30	120.3	55.6	36.1	19.5	20.0	100.3	0.0	20.0	5.9	1360.9	0.0	0.0	147.6	182.5	20.0
10	10	61.2	28.3	20.3	7.9	20.0	41.2	0.0	20.0	7.5	1394.6	0.0	0.0	150.5	182.9	20.0
	20	15.0	6.9	224.9	0.0	218.0	0.0	203.0	218.0	7.6	1184.0	0.0	0.0	132.3	180.3	0.0
	31	9.9	4.6	186.8	0.0	182.2	0.0	172.3	182.2	7.7	1004.0	0.0	0.0	116.7	177.8	0.0
11	10	3.2	1.5	117.3	0.0	115.8	0.0	112.5	115.8	6.5	885.0	0.0	0.0	106.5	176.1	0.0
	20	2.2	1.0	99.1	0.0	98.1	0.0	95.9	98.1	6.2	782.9	0.0	0.0	97.6	174.6	0.0
	30	1.8	0.8	74.5	0.0	73.6	0.0	71.8	73.6	6.0	705.1	0.0	0.0	90.9	173.5	0.0
12	10	0.4	0.2	74.8	0.0	74.6	0.0	74.2	74.6	5.7	625.2	0.0	0.0	84.0	172.3	0.0
	20	0.2	0.1	58.6	0.0	58.6	0.0	58.4	58.6	5.5	561.3	0.0	0.0	78.5	171.4	0.0
	31	0.1	0.1	61.7	0.0	61.7	0.0	61.5	61.7	5.8	494.0	0.0	0.0	72.7	170.4	0.0
TOTAL																
MILLIONDAYS																

Table 4B-3 (26)

YEAR 1980		TUKKAN DAM IRRIGATION PROJECT ( C.M/SEC-10DAYS)															
	A(1)	A(2)	A(3)	A(4)	A(5)	A(6)	A(7)	A(8)	A(9)	A(10)	A(11)	A(12)	A(13)	A(14)	A(15)	A(16)	
1	10	0.0	77.1	0.0	77.1	0.0	0.0	77.1	77.1	5.1	411.7	0.0	0.0	65.6	168.4	0.0	
	20	0.0	92.4	0.0	92.4	0.0	0.0	92.4	92.4	4.8	314.5	0.0	0.0	57.2	165.3	0.0	
2	10	0.0	125.7	0.0	125.7	0.0	0.0	125.7	125.7	4.6	184.2	0.0	0.0	45.9	161.1	0.0	
	20	0.0	133.1	0.0	133.1	0.0	0.0	133.1	133.1	4.4	46.7	0.0	0.0	34.0	155.7	0.0	
3	10	0.0	129.2	0.0	129.2	0.0	0.0	129.2	129.2	3.5	0.0	82.5	0.0	30.0	155.0	0.0	
	20	0.0	121.9	0.0	121.9	0.0	0.0	121.9	121.9	3.1	0.0	121.9	0.0	30.0	155.0	0.0	
4	10	0.0	143.5	0.0	143.5	0.0	0.0	143.5	143.5	4.3	0.0	143.5	0.0	30.0	155.0	0.0	
	20	0.0	119.9	0.0	119.9	0.0	0.0	119.9	119.9	4.3	0.0	119.9	0.0	30.0	155.0	0.0	
5	10	0.0	117.4	0.0	117.4	0.0	0.0	117.4	117.4	4.7	0.0	117.4	0.0	30.0	155.0	0.0	
	20	0.0	73.0	0.0	73.0	0.0	0.0	73.0	73.0	4.6	0.0	73.0	0.0	30.0	155.0	0.0	
6	10	0.0	58.1	0.0	58.1	0.0	0.0	58.1	58.1	4.6	0.0	58.1	0.0	30.0	155.0	0.0	
	20	0.0	42.7	0.0	42.7	0.0	0.0	42.7	42.7	4.6	0.0	42.7	0.0	30.0	155.0	0.0	
7	10	4.7	22.5	0.0	20.4	0.0	4.7	15.7	20.4	3.3	0.0	15.7	0.0	30.0	155.0	0.0	
	20	1.9	14.0	0.0	20.0	0.0	1.9	18.1	20.0	3.3	0.0	18.1	0.0	30.0	155.0	6.9	
8	10	21.1	60.2	0.0	50.5	0.0	21.1	29.4	50.5	3.7	79.5	29.4	0.0	30.0	155.0	20.0	
	20	101.5	17.0	0.0	81.5	0.0	20.0	0.0	20.0	2.0	0.0	0.0	0.0	36.9	157.1	0.0	
9	10	84.4	39.0	0.0	31.5	0.0	31.5	0.0	31.5	2.1	130.3	0.0	0.0	41.3	159.2	0.0	
	20	164.6	27.9	0.0	144.6	0.0	20.0	0.0	20.0	2.3	272.6	0.0	0.0	53.5	163.9	20.0	
10	10	163.4	75.5	0.0	143.4	0.0	20.0	0.0	20.0	2.7	413.3	0.0	0.0	65.7	168.4	20.0	
	20	271.5	125.5	0.0	251.5	0.0	20.0	0.0	20.0	3.3	661.6	0.0	0.0	87.2	172.9	20.0	
11	10	239.8	110.8	0.0	110.8	0.0	22.0	0.0	22.0	4.2	875.1	0.0	0.0	105.6	175.9	22.0	
	20	196.8	91.0	0.0	91.0	0.0	20.0	0.0	20.0	4.7	1047.6	0.0	0.0	120.5	178.4	20.0	
12	10	216.0	99.8	0.0	99.8	0.0	20.0	0.0	20.0	4.7	1238.8	0.0	0.0	137.0	181.0	20.0	
	20	644.8	298.0	0.0	298.0	0.0	22.0	0.0	22.0	5.6	1856.1	0.0	0.0	190.4	188.6	22.0	
13	10	225.8	104.3	0.0	104.3	0.0	20.0	0.0	20.0	7.2	2054.6	0.0	0.0	207.5	190.9	20.0	
	20	234.4	108.3	0.0	108.3	0.0	20.0	0.0	20.0	7.7	2261.4	0.0	0.0	225.4	193.2	20.0	
14	10	71.2	32.9	0.0	32.9	0.0	51.2	0.0	51.2	8.1	2304.5	0.0	0.0	229.1	193.6	20.0	
	20	113.7	52.6	0.0	52.6	0.0	93.7	0.0	93.7	9.9	2388.4	0.0	0.0	236.4	194.5	20.0	
15	10	111.4	51.5	97.7	46.3	65.1	46.3	0.0	46.3	10.1	2430.6	0.0	0.0	240.0	195.0	0.0	
	20	19.9	9.2	231.3	0.0	222.1	19.9	202.2	222.1	11.2	2217.1	0.0	0.0	221.6	192.7	0.0	
16	10	28.4	13.1	164.7	0.0	151.6	28.4	123.1	151.6	9.7	2084.2	0.0	0.0	210.1	191.3	0.0	
	20	23.6	10.9	130.0	0.0	119.1	23.6	95.6	119.1	9.4	1979.3	0.0	0.0	201.0	190.1	0.0	
17	10	43.2	20.0	96.9	0.0	76.9	43.2	33.7	76.9	9.1	1936.4	0.0	0.0	197.3	189.6	0.0	
	20	0.0	0.0	69.8	0.0	69.8	0.0	69.8	69.8	8.8	1857.8	0.0	0.0	190.5	188.6	0.0	
18	10	0.0	0.0	54.2	0.0	54.2	0.0	54.2	54.2	8.6	1795.0	0.0	0.0	185.1	187.9	0.0	
	20	0.0	0.0	56.4	0.0	56.4	0.0	56.4	56.4	9.3	1729.4	0.0	0.0	179.4	187.1	0.0	
TOTAL		2982.1	1378.0	2348.0	1176.0	2396.9	2517.7	464.4	1932.5	2396.9	203.5	822.4	0.0	0.0	250.9	21.68	
MILLION M*3		257.65	119.06	202.87	101.61	207.09	217.53	40.13	166.97	207.09	17.59	71.06	0.0	0.0	21.68		

Table 4B-4 Diversion Water Requirements Covering 21,000 ha in Net

<u>Year</u>	<u>Diversion Water Requirement in MCM</u>	<u>Maximum Diversion Water Req. Period</u>	<u>in cu.m/sec.</u>
1955 <sup>1/</sup>	154.78	9.1 <sup>2/</sup>	9.0
1956	177.48	11.1	16.1
1957	209.53	10.3	20.9
1958	172.47	5.3	19.3
1959	167.53	11.1	13.8
1960	160.50	11.1	14.6
1961	147.04	6.3	14.1
1962	153.54	11.2	13.0
1963	162.35	11.2	13.6
1964	150.97	3.1	13.8
1965	132.34	3.1	12.8
1966	165.09	5.3	14.3
1967	153.17	11.2	13.9
1968	188.73	11.1	17.9
1969	181.02	10.2	19.4
1970	161.67	11.2	14.5
1971	192.12	5.3	17.6
1972	194.81	10.3	22.0
1973	219.85	6.1	22.5 (Max.)
1974	195.99	8.2	19.6
1975	201.61	10.3	18.2
1976	195.46	6.2	20.4
1977	142.39	5.3	13.3
1978	148.93	6.2	16.1
1979	254.63	10.2	22.5 (Max.)
1980	202.87	10.3	21.0
Mean	<u>176.42</u>		<u>16.7</u>

Note: <sup>1/</sup> January to December. <sup>2/</sup> 9.1 stands for First 10-day in September.



Table 1B-5 (1) Consecutive Rainfall Analysis at Taikkyi

\*\*\*\* THE PROBABILITY OF EXCEEDANCE ON OKKAN DAM IRRIGATION PROJECT \*\*\*\*

X : MAXIMUM DAILY RAINFALL AT TAIKKYI ( MM )

ORDER	YEAR	X	LOG(X)	X+8	Y = LOG(X+8)	YY = Y**2	THOMAS PLOT(X)	HAZEN PLOT(X)	X**2	X**3
1	1965	285.500	2.45561	248.177	2.39476	5.73489	96.43	98.15	81510.25	23271168.00
2	1959	176.500	2.24674	139.177	2.14357	4.59488	92.86	94.44	31152.25	5498372.00
3	1978	160.000	2.20412	122.677	2.08876	4.36294	89.29	90.74	25600.00	4096000.00
4	1968	146.800	2.16673	109.477	2.03932	4.15884	85.71	87.04	21550.23	3163574.00
5	1974	144.000	2.15836	106.677	2.02807	4.11307	82.14	83.33	20736.00	2985984.00
6	1975	130.000	2.11394	92.677	1.96697	3.86898	78.57	79.63	16900.00	2197000.00
7	1970	127.000	2.10380	89.677	1.95268	3.81297	75.00	75.93	16129.00	2048383.00
8	1954	121.400	2.08422	84.077	1.92468	3.70439	71.43	72.22	14737.96	1789187.00
9	1980	118.000	2.07188	80.677	1.90675	3.63570	67.86	68.52	13924.00	1643032.00
10	1972	117.000	2.06819	79.677	1.90133	3.61507	64.29	64.81	13689.00	1601613.00
11	1973	117.000	2.06819	79.677	1.90133	3.61507	60.71	61.11	13689.00	1601613.00
12	1964	111.300	2.04649	73.977	1.86910	3.49353	57.14	57.41	12387.68	1378749.00
13	1961	107.400	2.03100	70.077	1.84558	3.40615	53.57	53.70	11534.76	1238832.00
14	1969	106.700	2.02816	69.377	1.84122	3.39008	50.00	50.00	11384.89	1214767.00
15	1958	104.900	2.02077	67.577	1.82980	3.34817	46.43	46.30	11004.01	1154320.00
16	1963	97.800	1.99034	60.477	1.78159	3.17407	42.86	42.59	9564.84	935440.81
17	1955	97.000	1.98677	59.677	1.77581	3.15350	39.29	38.89	9409.00	912673.00
18	1977	95.000	1.97772	57.677	1.76101	3.10114	35.71	35.19	9025.00	857375.00
19	1956	94.000	1.97313	56.677	1.75341	3.07444	32.14	31.48	8836.00	830584.00
20	1976	94.000	1.97313	56.677	1.75341	3.07444	28.57	27.78	8836.00	830584.00
21	1960	91.400	1.96095	54.077	1.73302	3.00334	25.00	24.07	8353.96	763551.56
22	1971	91.000	1.95904	53.677	1.72979	2.99218	21.43	20.37	8281.00	753571.00
23	1962	86.100	1.93500	48.777	1.68822	2.85008	17.86	16.67	7413.21	638277.00
24	1979	78.000	1.89209	40.677	1.60935	2.59001	14.29	12.96	6084.00	474552.00
25	1966	77.400	1.88874	40.077	1.60290	2.56928	10.71	9.26	5990.76	463684.56
26	1957	76.500	1.88366	39.177	1.59303	2.53776	7.14	5.56	5852.25	447697.13
27	1967	66.600	1.82347	29.277	1.46653	2.15071	3.57	1.85	4435.56	295408.13

TOTAL XM = 3118.299 55.11211 49.88185 93.12549 40810.31 63085824.00  
 MEAN XM = 115.493 2.04119 YM = 1.84748 3.44909 = YM 15111.49 2336512.00  
 R = ROOT<(2\*N/(N-1))\*((YM-YM\*YM)> = 0.27317  
 SX = ROOT<XXM-XM\*XM> = 42.10663  
 CS = ((XXM-3\*XXM\*XM+2\*XM\*\*3))/(SX\*\*3) = 2.43413

Table 4B-5 (2)

\*\*\*\*\* THE PROBABILITY OF EXCEEDANCE ON OKKAN DAM IRRIGATIO PROJECT \*\*\*\*\*

X : MAXIMUM DAILY RAINFALL AT TAIKKYI ( MM )

\*\*\*\*\* B - VALUE \*\*\*\*\*

ORDER	XI	XS	XI*XS	XI*XS-X0**2	XI+XS	2*X0-(XI+XS)	BI
1	285.500	66.600	19014.297	352.100	6925.715	-132.204	-52.387
2	176.500	76.500	13502.250	253.000	1413.668	-33.104	-42.704
3	160.000	77.400	12383.996	237.400	295.414	-17.504	-16.877
TOTAL BI =							-111.968
MEAN B =							-37.323
							-37.323

\*\*\*\*\* THE PROBABLE VALUES BY 'IWAI' METHOD \*\*\*\*\*

$$LCG( X + -37.323 ) = 1.84748 + 0.27317 * E$$

RETURN- PERIOD (YEAR)	E	R	E*R	A*YH+E*R	C=10**A	B	X=C-B
2	0.0	0.2732	0.0	1.8475	70.384	-37.323	107.707
3	0.3045	0.2732	0.0832	1.9307	85.242	-37.323	122.565
4	0.4769	0.2732	0.1303	1.9777	95.005	-37.323	132.328
5	0.5951	0.2732	0.1626	2.0100	102.338	-37.323	139.661
6	0.6858	0.2732	0.1873	2.0348	108.346	-37.323	145.669
7	0.7547	0.2732	0.2062	2.0536	113.145	-37.323	150.467
8	0.8134	0.2732	0.2222	2.0697	117.400	-37.323	154.723
9	0.8634	0.2732	0.2359	2.0833	121.151	-37.323	158.474
10	0.9062	0.2732	0.2475	2.0950	124.457	-37.323	161.780
11	0.9442	0.2732	0.2579	2.1054	127.467	-37.323	164.790
12	0.9780	0.2732	0.2672	2.1146	130.207	-37.323	167.529
13	1.0084	0.2732	0.2755	2.1229	132.720	-37.323	170.043
14	1.0361	0.2732	0.2830	2.1305	135.053	-37.323	172.376
15	1.0614	0.2732	0.2899	2.1374	137.219	-37.323	174.542
20	1.1630	0.2732	0.3177	2.1652	146.275	-37.323	183.597
25	1.2380	0.2732	0.3382	2.1857	153.340	-37.323	190.663
50	1.4520	0.2732	0.3966	2.2441	175.434	-37.323	212.757
100	1.6450	0.2732	0.4494	2.2968	198.078	-37.323	235.401

Table 4B-5 (3)

\*\*\*\* THE PROBABILITY OF EXCEEDANCE ON OKKAN DAM IRRIGATION PROJECT \*\*\*\*

X : 3 DAY MAXIMUM RAINFALL AT TAIKKYI ( MM )

ORDER	YEAR	X	LOG(X)	X+B	Y = LOG(X+B)	YY = Y**2	THOMAS PLOT(X)	HAZEN PLOT(X)	X**2	X**3
1	1965	324.000	2.51054	380.298	2.58012	6.65703	96.43	98.15	104976.00	34012224.00
2	1973	319.000	2.50379	375.298	2.57438	6.62741	92.86	94.44	101761.00	32461744.00
3	1959	245.000	2.38917	301.298	2.47900	6.14542	89.29	90.74	60025.00	14706125.00
4	1960	234.700	2.37051	290.998	2.46389	6.07075	85.71	87.04	55084.09	12928234.00
5	1975	217.000	2.33646	273.298	2.43664	5.93719	82.14	83.33	47089.00	10218313.00
6	1980	217.000	2.33646	273.298	2.43664	5.93719	78.57	79.63	47089.00	10218313.00
7	1974	216.000	2.33445	272.298	2.43504	5.92944	75.00	75.93	46656.00	10077696.00
8	1968	210.100	2.32243	266.398	2.42553	5.88320	71.43	72.22	44142.00	9274234.00
9	1961	209.300	2.32077	265.598	2.42422	5.87687	67.86	68.52	43806.48	9168696.00
10	1970	199.400	2.29972	255.698	2.40773	5.79715	64.29	64.81	39760.36	7928214.00
11	1957	197.600	2.29579	253.898	2.40466	5.78238	60.71	61.11	39045.75	7715440.00
12	1963	191.200	2.28149	247.498	2.39357	5.72918	57.14	57.41	36557.44	6985781.00
13	1977	188.000	2.27416	244.298	2.38792	5.70216	53.57	53.70	35344.00	6644672.00
14	1969	185.400	2.26811	241.698	2.38327	5.67999	50.00	50.00	34373.16	6372782.00
15	1964	180.400	2.25624	236.698	2.37419	5.63680	46.43	46.30	32544.16	5870965.00
16	1958	170.900	2.23274	227.198	2.35640	5.55264	42.86	42.59	29206.80	4991442.00
17	1972	170.000	2.23045	226.298	2.35468	5.54452	39.29	38.89	28900.00	4913000.00
18	1954	167.400	2.22375	223.698	2.34966	5.52091	35.71	35.19	28022.76	4691009.00
19	1971	167.000	2.22272	223.298	2.34888	5.51726	32.14	31.48	27889.00	4657463.00
20	1955	165.700	2.21932	221.998	2.34635	5.50535	28.57	27.78	27456.49	4549540.00
21	1978	160.000	2.20412	216.298	2.33505	5.45247	25.00	24.07	25600.00	4096000.00
22	1976	148.000	2.17026	204.298	2.31026	5.33732	21.43	20.37	21904.00	3241792.00
23	1962	146.700	2.16643	202.998	2.30749	5.32452	17.86	16.67	21520.89	3157114.00
24	1966	145.100	2.16167	201.398	2.30405	5.30867	14.29	12.96	21054.00	3054935.00
25	1967	133.200	2.12450	189.498	2.27760	5.18748	10.71	9.26	17742.24	2363266.00
26	1956	131.100	2.11760	187.398	2.27276	5.16546	7.14	5.56	17187.21	2253242.00
27	1979	131.000	2.11727	187.298	2.27253	5.16440	3.57	1.85	17161.00	2248091.00

TOTAL XH = 5170.191 61.29077 64.44240 153.97298 1051897.00 228804176.00  
 MEAN XH = 191.489 2.27003 2.38675 5.70270 = YYM 38959.14

R = ROOT<(2\*N/(N-1))\*((YYM-YYM\*YM)) = 0.11259  
 SX = ROOT<XXM-XM\*XM> = 47.86732  
 CS = (XXXM-3\*XXM\*XM+2\*XM\*\*3)/(SX\*\*3) = 1.24463

Table 4B-5 (4)

\*\*\*\*\* THE PROBABILITY OF EXCEEDANCE ON OKKAN DAM IRRIGATION PROJECT \*\*\*\*\*

X : 3 DAY MAXIMUM RAINFALL AT TAIKKYI ( MM )

\*\*\*\*\* B - VALUE \*\*\*\*\*

ORDER	XI	XS	XI*XS	XI*XS-XO**2	XI*XS	2*XO-(XI+XS)	BI
1	324.000	131.000	42444.000	455.000	7765.918	-82.559	-94.065
2	319.000	131.100	41820.895	450.100	7142.813	-77.659	-91.977
3	245.000	133.200	32633.996	378.200	-2044.086	-5.759	354.936
						TOTAL BI =	168.894
						MEAN B =	56.298
						B =	56.298

\*\*\*\*\* THE PROBABLE VALUES BY 'IMAI' METHOD \*\*\*\*\*

$$\text{LOG}(X + 56.298) = 2.38675 + 0.11259 * E$$

RETURN- PERIOD (YEAR)	E	R	E*R	A=YM+E*R	C=IQ**A	B	X=C-B
2	0.0	0.1126	0.0	2.3868	243.643	56.298	187.345
5	0.5951	0.1126	0.0670	2.4538	284.287	56.298	227.989
10	0.9062	0.1126	0.1020	2.4888	308.165	56.298	251.867
20	1.1630	0.1126	0.1309	2.5177	329.379	56.298	273.081
30	1.2967	0.1126	0.1460	2.5328	340.996	56.298	284.698
50	1.4520	0.1126	0.1635	2.5502	355.005	56.298	298.707
100	1.6450	0.1126	0.1852	2.5720	373.219	56.298	316.921
200	1.8215	0.1126	0.2051	2.5918	390.693	56.298	334.395
500	2.0350	0.1126	0.2291	2.6159	412.928	56.298	356.630
1000	2.1850	0.1126	0.2460	2.6328	429.302	56.298	373.004

Table 4B-5 (5)

\*\*\*\*\* THE PROBABILITY OF EXCEEDANCE ON OKKAN DAM IRRIGATION PROJECT \*\*\*\*\*

ORDER	YEAR	X	LCG(X)	X+B	Y = LOG(X+B)	YY = Y**2	THOMAS PLOT(X)	HAZEN PLOT(X)	X**2	X**3
1	1973	461.000	2.66370	352.584	2.54726	6.48854	96.43	98.15	212521.00	97972176.00
2	1959	402.700	2.60498	294.284	2.46877	6.09481	92.86	94.44	162167.25	65304736.00
3	1965	388.800	2.58973	280.384	2.44775	5.99149	89.29	90.74	151165.25	58773008.00
4	1974	363.000	2.55991	254.584	2.40583	5.78802	85.71	87.04	131769.00	47832144.00
5	1975	358.000	2.55388	249.584	2.39722	5.74665	82.14	83.33	128164.00	45882704.00
6	1970	345.000	2.53782	236.584	2.37399	5.63581	78.57	79.63	119025.00	41063616.00
7	1969	322.500	2.50853	214.084	2.33058	5.43162	75.00	75.93	104006.25	33542000.00
8	1960	302.400	2.48058	193.984	2.28777	5.23387	71.43	72.22	91445.69	27653152.00
9	1957	300.000	2.47712	191.584	2.28236	5.20916	67.86	68.52	90000.00	27000000.00
10	1964	278.700	2.44514	170.284	2.23117	4.97814	64.29	64.81	77673.63	21647632.00
11	1961	278.000	2.44404	169.584	2.22938	4.97015	60.71	61.11	7284.00	21484944.00
12	1968	271.700	2.43409	163.284	2.21294	4.89712	57.14	57.41	73820.81	20057104.00
13	1980	270.000	2.43136	161.584	2.20840	4.87702	53.57	53.70	72900.00	19682992.00
14	1977	261.000	2.41664	152.584	2.18351	4.76771	50.00	50.00	68121.00	17779568.00
15	1972	259.000	2.41330	150.584	2.17778	4.74272	46.43	46.30	67081.00	17373968.00
16	1978	250.000	2.39794	141.584	2.15101	4.62686	42.86	42.59	62500.00	15625000.00
17	1954	246.800	2.39234	138.384	2.14109	4.58425	39.29	38.89	60910.23	15032644.00
18	1971	246.000	2.39093	137.584	2.13857	4.57347	35.71	35.19	60516.00	14886936.00
19	1958	241.000	2.38202	132.584	2.12249	4.50497	32.14	31.48	58081.00	13997521.00
20	1963	230.300	2.36229	121.884	2.08595	4.35117	28.57	27.78	53038.08	12214669.00
21	1956	229.500	2.36078	121.084	2.08309	4.33925	25.00	24.07	52670.25	12087822.00
22	1955	227.000	2.35603	118.584	2.07403	4.30158	21.43	20.37	51529.00	11697083.00
23	1962	224.500	2.35122	116.084	2.06477	4.26329	17.86	16.67	50400.25	11314856.00
24	1976	223.000	2.34830	114.584	2.05912	4.23999	14.29	12.96	49729.00	11089567.00
25	1966	207.900	2.31785	99.484	1.99775	3.99102	10.71	9.26	43222.41	8985937.00
26	1967	196.200	2.29270	87.784	1.94342	3.77686	7.14	5.56	38494.44	7552608.00
27	1979	189.000	2.27646	80.584	1.90625	3.63379	3.57	1.85	35721.00	6751269.00
TOTAL		7572.988	65.78954		59.55206	132.03918			2243952.00	704283136.00
MEAN		280.481	2.43665		2.20563	4.89034			83109.31	26084560.00

$XM = 7572.988$   
 $YM = 280.481$   
 $R = \text{ROOT}[(2*N)/(N-1)] * ((YH-YM*YM) > 0.23027)$   
 $SX = \text{ROOT}[(XXM-XM*XM)]$   
 $CS = ((XXM-3*XXM*XM+2*XM**3)/(SX**3)) = 0.95818$

Table 4B-5 (6)

\*\*\*\*\* THE PROBABILITY OF EXCEEDANCE ON OKKAN DAM IRRIGATION PROJECT \*\*\*\*\*

X = 6 DAY MAXIMUM RAINFALL AT TAIKKYI ( MM )

***** B - VALUE *****										
ORDER	XI	XS	XI*XS	XI*XS-X0**2	XI+XS	2*X0-(XI+XS)	BI			
1	461.000	189.000	87129.000	650.000	12433.063	-103.389	-120.256			
2	402.700	196.200	79009.688	598.900	4313.750	-52.289	-82.499			
3	388.800	207.900	80831.438	596.700	6135.500	-50.088	-122.493			
							TOTAL BI =	-325.248		
							MEAN B =	-108.416		
							B =	-108.416		

\*\*\*\*\* THE PROBABLE VALUES BY 'IMAI' METHOD \*\*\*\*\*

LOG( X + -108.416 ) = 2-20563 + 0.23027 \* E

RETURN- PERIOD (YEAR)	E	R	E*R	A=YM+E*R	C=10**A	B	X=C-B
2	0.0	0.2303	0.0	2.2056	160.558	-108.416	268.973
5	0.5951	0.2303	0.1370	2.3427	220.123	-108.416	328.539
10	0.9062	0.2303	0.2087	2.4143	259.599	-108.416	368.015
20	1.1630	0.2303	0.2678	2.4734	297.466	-108.416	405.881
30	1.2967	0.2303	0.2986	2.5042	319.318	-108.416	427.734
50	1.4520	0.2303	0.3344	2.5400	346.726	-108.416	455.141
100	1.6450	0.2303	0.3788	2.5844	384.086	-108.416	492.501
200	1.8215	0.2303	0.4194	2.6251	421.766	-108.416	530.182
500	2.0350	0.2303	0.4686	2.6742	472.318	-108.416	580.734
1000	2.1850	0.2303	0.5031	2.7088	511.417	-108.416	619.833







FIGURE 4B-3 33KV DISTRIBUTION SYSTEM OF PEGU DIVISION

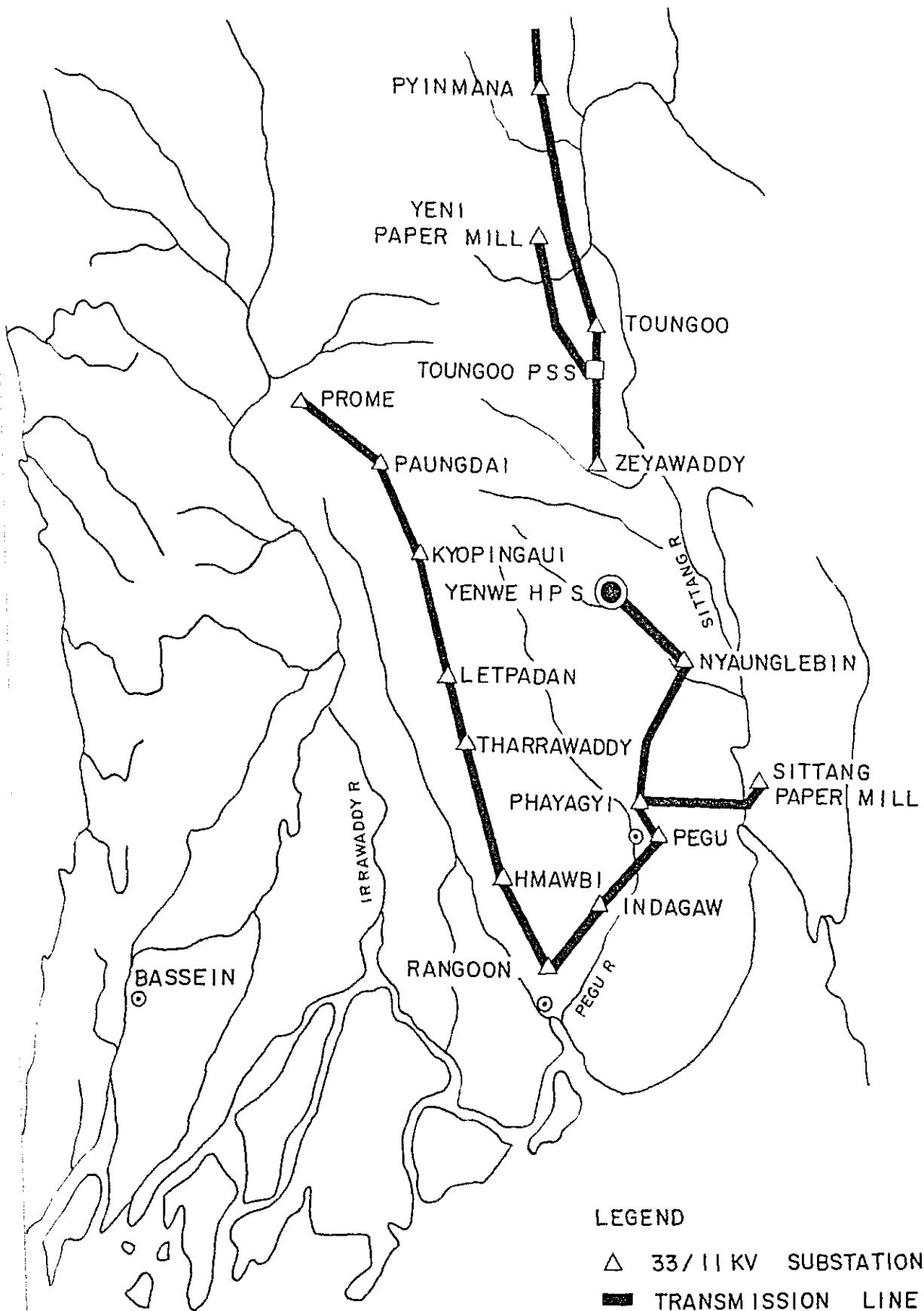


FIGURE 4B-4 ONE LINE DIAGRAM OF 33KV SYSTEM

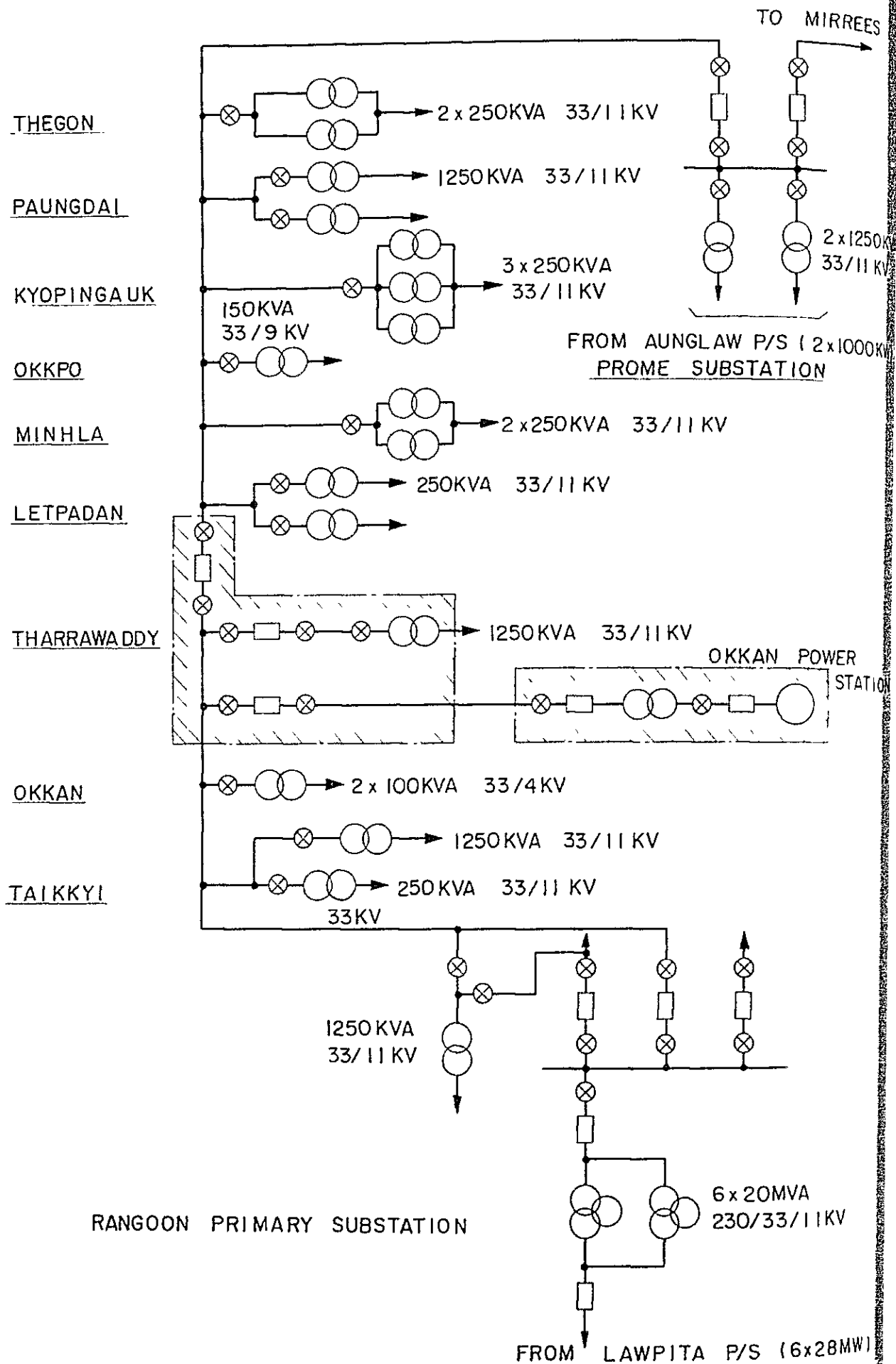
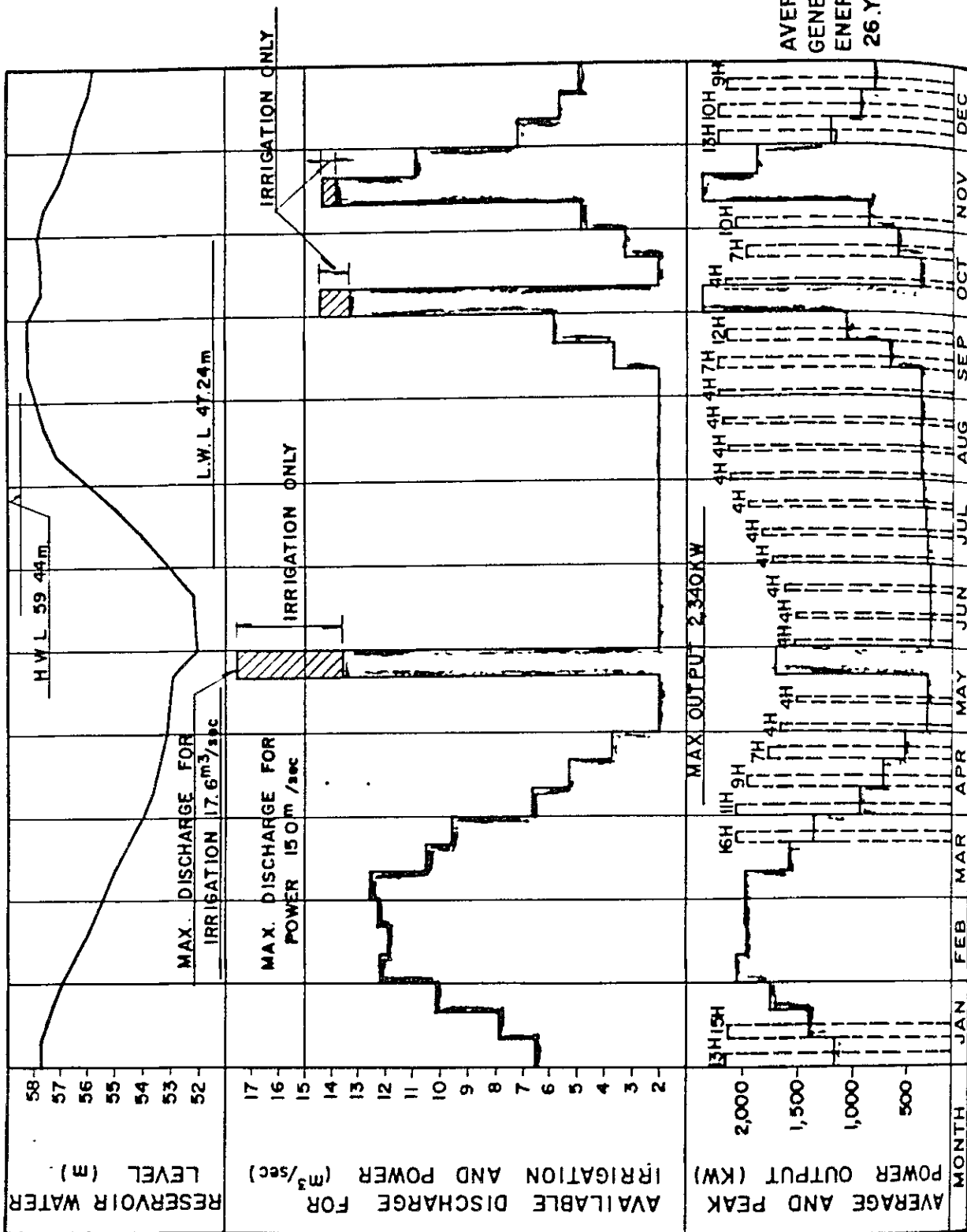


Table 4B - 7 Summary of Hydro-power Generation

Year	Total Running Time (Hour)	Minimum Peak Output (411) (KW)	Generated Energy (KWH)		
			10 Daily Minimum	10 Daily Maximum	Annual Total
1955	3,901	1,679.3	67,703	607,564	7,898,218
1956	4,179	1,551.6	62,063	562,697	8,255,759
1957	4,397	1,585.0	63,402	622,974	8,801,878
1958	3,968	1,396.6	55,863	544,095	7,261,933
1959	3,826	1,600.5	64,021	564,446	7,678,041
1960	3,759	1,548.4	61,937	564,497	7,253,225
1961	4,448	1,685.2	67,407	613,212	9,391,822
1962	4,455	1,719.5	68,781	563,020	9,280,830
1963	4,613	1,651.5	66,062	561,930	9,434,159
1964	4,162	1,744.4	69,774	557,465	8,523,388
1965	4,738	1,768.3	70,731	613,212	10,141,835
1966	4,622	1,743.1	69,723	562,513	9,519,793
1967	4,277	1,888.2	75,529	562,417	9,176,097
1968	5,012	1,662.4	66,497	562,212	10,229,472
1969	4,145	1,590.4	63,447	561,841	8,493,256
1970	4,621	1,667.7	66,709	596,624	9,515,711
1971	4,350	1,528.4	61,135	567,357	8,644,964
1972	4,334	1,038.4	41,536	624,169	7,668,366
1973	4,396	1,242.8	49,710	485,418	7,710,730
1974	4,578	1,528.0	61,121	617,615	9,186,772
1975	4,926	1,735.4	69,415	617,833	10,316,693
1976	4,073	1,584.7	63,589	565,430	8,198,114
1977	3,966	1,556.9	62,278	557,465	7,874,178
1978	4,421	1,908.1	76,325	564,317	9,429,811
1979	5,266	1,231.0	49,238	550,712	9,191,944
1980	3,230	0	0	619,825	5,123,212
	Average	Min.	Min.	Max.	Average
	4,333	1,038.4	41,536	624,169	8,623,085
		Average (Excluding 1980)			
		1,593.4			
		(Excluding 1980)			

AVERAGE.  
GENERATED  
ENERGY FOR  
26.YEAR

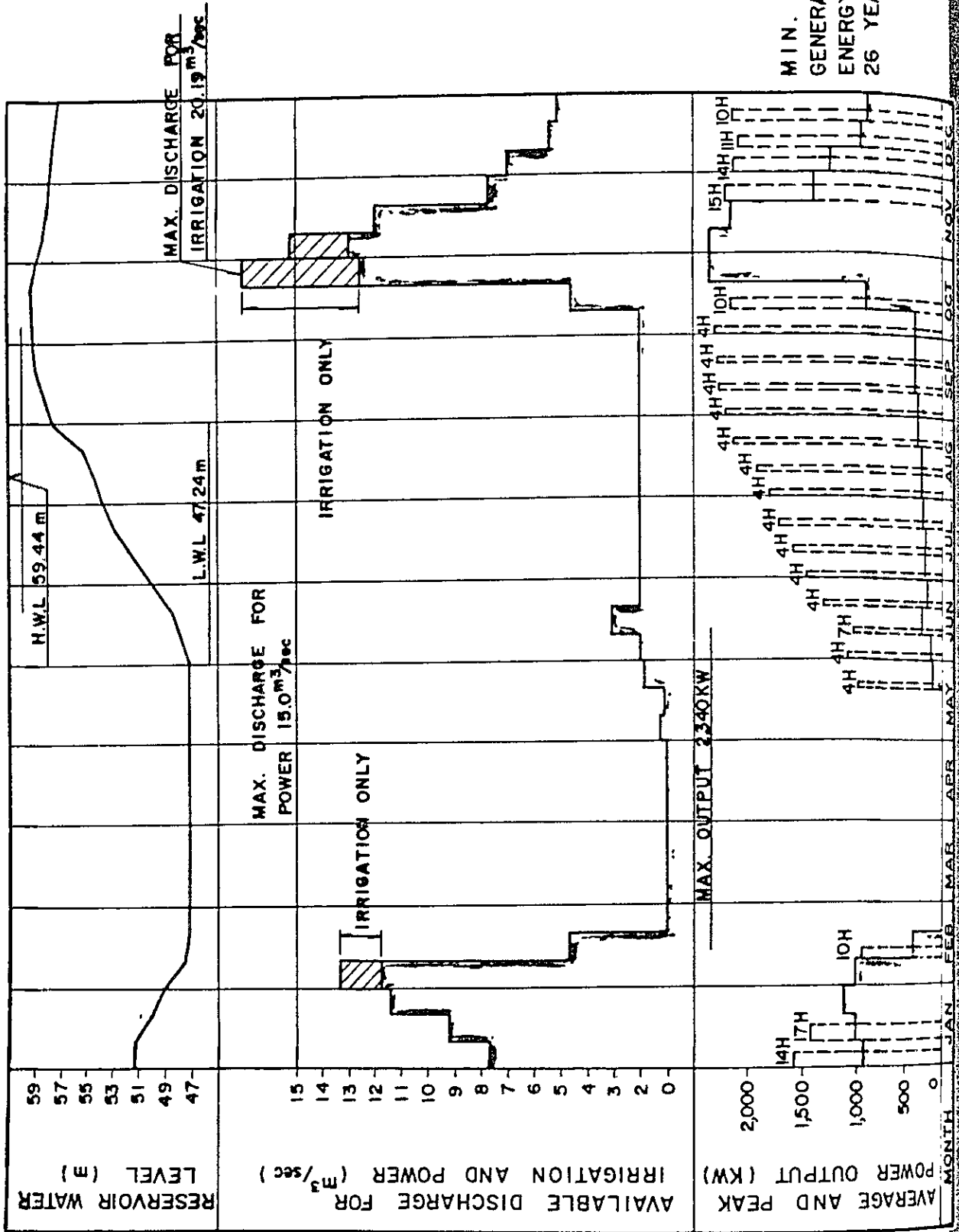
FIGURE 4B-5 AVAILABLE DISCHARGE, WATER LEVEL AND POWER OUTPUT STUDY YEAR(1971)





MIN.  
GENERATED  
ENERGY FOR  
26 YEAR

FIGURE 4B-7 AVAILABLE DISCHARGE, WATER LEVEL AND POWER OUTPUT STUDY YEAR (1980)



Hydro-power Generation

- |  |                    |
|--|--------------------|
| (1) : Water release for irrigation and power | (cu.m/s - 10 days) |
| (2) : Water surface elevation                | ( EL.m)            |
| (3) : Tailrace                               | (- do - )          |
| (4) : Head                                   | ( m )              |
| (5) : Loss                                   | ( m )              |
| (6) : Effective head                         | ( m )              |
| (7) : Discharge for power                    | (cu.m/s - 10 days) |
| (8) : Turbine efficiency                     |                    |
| (9) : Generator efficiency                   |                    |
| (10) : Output                                | ( KW )             |
| (11) : Running time                          | (hour/day)         |
| (12) : - do -                                | (day)              |
| (13) : Total running time                    | (hour)             |
| (14) : Generated energy                      | (KWh)              |

Table 4B-8 (1) Hydro-power Generation

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1955	1	6.47	57.83	35.05	22.78	0.82	21.96	11.95	0.878	0.954	2153.3	13.	10.	130.	279930.
	1	7.51	57.51	35.05	22.46	0.83	21.63	12.01	0.878	0.954	2132.1	15.	10.	150.	319809.
	1	9.39	57.09	35.05	22.04	0.90	21.14	12.52	0.879	0.954	2173.6	18.	11.	198.	430376.
	2	11.07	56.63	35.05	21.58	0.71	20.87	11.07	0.876	0.951	1887.1	24.	10.	240.	452904.
	2	10.78	56.19	35.05	21.14	0.67	20.47	10.78	0.875	0.950	1798.2	24.	10.	240.	431565.
	3	11.54	55.82	35.05	20.77	0.77	20.00	11.54	0.877	0.951	1886.4	24.	8.	192.	362196.
	3	12.38	55.31	35.05	20.26	0.88	19.38	12.38	0.878	0.952	1966.5	24.	10.	240.	471971.
	3	10.39	54.88	35.05	19.83	0.62	19.21	10.39	0.874	0.947	1619.3	24.	10.	240.	388627.
	3	9.26	54.38	35.05	19.33	1.09	18.24	13.88	0.860	0.953	2034.2	16.	11.	176.	358026.
	4	6.19	54.07	35.05	19.02	1.27	17.75	14.86	0.856	0.954	2109.4	10.	10.	100.	210941.
	4	4.91	53.82	35.05	18.77	1.25	17.51	14.74	0.856	0.953	2065.4	8.	10.	80.	165231.
	4	2.00	53.70	35.05	18.65	0.83	17.87	12.00	0.863	0.949	1715.5	4.	10.	40.	68621.
	5	2.00	53.59	35.05	18.54	0.83	17.71	12.00	0.863	0.948	1704.7	4.	10.	40.	68186.
	5	2.00	53.47	35.05	18.42	0.83	17.59	12.00	0.863	0.948	1692.6	4.	10.	40.	67703.
	5	2.00	53.34	35.05	18.29	0.83	17.46	12.00	0.863	0.948	1679.3	4.	11.	44.	73891.
	6	2.00	53.75	35.05	18.70	0.83	17.87	12.00	0.863	0.949	1720.7	4.	10.	40.	68829.
	6	2.00	54.15	35.05	19.10	0.83	18.27	12.00	0.863	0.949	1760.1	4.	10.	40.	70403.
	6	2.23	54.70	35.05	19.65	1.02	18.62	13.38	0.862	0.953	2004.8	4.	10.	40.	80191.
	7	2.00	55.24	35.05	20.19	0.93	19.36	12.00	0.878	0.951	1902.4	4.	10.	40.	76098.
	7	2.00	55.79	35.05	20.74	0.83	19.91	12.00	0.878	0.952	1957.5	4.	10.	40.	78301.
	7	2.00	56.24	35.05	21.19	0.83	20.36	12.00	0.878	0.953	2002.3	4.	11.	44.	88100.
	8	2.00	56.62	35.05	21.57	0.83	20.74	12.00	0.878	0.953	2040.4	4.	10.	40.	81617.
	8	2.00	56.87	35.05	21.82	0.83	20.99	12.00	0.878	0.953	2065.7	4.	10.	40.	82628.
	8	2.00	57.22	35.05	22.17	0.83	21.34	12.00	0.878	0.954	2101.0	4.	11.	44.	92445.
	9	2.00	57.85	35.05	22.80	0.83	21.97	12.00	0.878	0.954	2164.4	4.	10.	40.	86578.
	9	2.00	58.19	35.05	23.14	0.83	22.31	12.00	0.878	0.954	2198.2	4.	10.	40.	87928.
	9	2.00	58.36	35.05	23.31	0.83	22.48	12.00	0.878	0.954	2214.9	4.	10.	40.	88595.
	10	2.00	58.64	35.05	23.59	0.83	22.76	12.00	0.878	0.954	2242.7	4.	10.	40.	89707.
	10	2.00	58.73	35.05	23.68	0.83	22.85	12.00	0.878	0.955	2251.7	4.	10.	40.	90069.
	10	2.00	58.34	35.05	23.29	0.90	22.39	12.50	0.879	0.955	2301.4	24.	11.	264.	607564.
	11	12.17	57.99	35.05	22.94	0.85	22.09	12.17	0.878	0.954	2206.9	24.	10.	240.	529664.
	11	8.81	57.72	35.05	22.67	0.89	21.78	12.44	0.878	0.954	2226.4	17.	10.	170.	378487.
	11	3	57.36	35.05	22.31	0.88	21.43	12.34	0.878	0.954	2172.1	18.	10.	180.	390983.
	12	6.53	57.08	35.05	22.03	0.84	21.19	12.06	0.878	0.953	2097.2	13.	10.	130.	272640.
	12	5.02	56.86	35.05	21.81	0.84	20.98	12.05	0.878	0.953	2073.1	10.	10.	100.	207310.
	12	4.45	56.64	35.05	21.59	0.81	20.78	11.87	0.878	0.953	2021.4	9.	11.	99.	200121.
															3901.
															7898218.
															TOTAL



Table 4B-8 (2)

YEAR 1956	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	1	6.47	56.37	35.05	21.32	0.96	20.34	12.95	0.879	0.954	2165.8	12.	10.	120.	259890.
1	1	7.51	56.06	35.05	21.01	0.95	20.06	12.87	0.879	0.954	2119.9	14.	10.	140.	296787.
1	1	9.39	55.64	35.05	20.59	1.01	19.58	13.26	0.879	0.954	2132.2	17.	11.	187.	398720.
2	1	11.07	55.19	35.05	20.14	0.71	19.43	11.07	0.876	0.949	1752.5	24.	10.	240.	420610.
2	2	10.44	54.77	35.05	19.72	0.63	19.10	10.44	0.874	0.947	1616.9	24.	10.	240.	388051.
2	3	11.46	54.29	35.05	19.24	0.76	18.48	11.46	0.862	0.948	1697.3	24.	9.	216.	366623.
3	1	12.44	53.70	35.05	18.65	0.89	17.76	12.44	0.863	0.949	1773.4	24.	10.	240.	425617.
3	2	10.39	53.20	35.05	18.15	0.62	17.53	10.39	0.859	0.943	1445.9	24.	10.	240.	347022.
3	3	9.24	52.71	35.05	17.66	1.09	16.56	13.89	0.843	0.950	1803.7	16.	11.	176.	317454.
4	1	6.32	52.39	35.05	17.34	1.08	16.25	13.80	0.843	0.949	1758.6	11.	10.	110.	193445.
4	2	4.98	52.13	35.05	17.09	1.01	16.07	13.28	0.846	0.948	1675.7	9.	10.	90.	150814.
4	3	2.14	52.01	35.05	16.96	0.94	16.01	12.82	0.847	0.947	1613.7	4.	10.	40.	64546.
5	1	2.00	52.33	35.05	17.28	0.83	16.45	12.00	0.848	0.946	1551.6	4.	10.	40.	62063.
5	2	2.00	52.85	35.05	17.80	0.83	16.97	12.00	0.848	0.947	1601.6	4.	10.	40.	64063.
5	3	2.00	53.71	35.05	18.66	0.83	17.83	12.00	0.863	0.949	1716.0	4.	11.	44.	75505.
6	1	2.00	54.81	35.05	19.76	0.83	18.93	12.00	0.863	0.950	1825.7	4.	10.	40.	73028.
6	2	2.00	55.20	35.05	20.15	0.83	19.32	12.00	0.878	0.951	1898.2	4.	10.	40.	75928.
6	3	9.05	55.00	35.05	19.95	1.05	18.90	13.57	0.861	0.953	2064.0	16.	10.	160.	330237.
7	1	2.00	55.24	35.05	20.19	0.83	19.36	12.00	0.878	0.951	1901.7	4.	10.	40.	76067.
7	2	2.00	55.77	35.05	20.72	0.83	19.89	12.00	0.878	0.952	1955.3	4.	10.	40.	78211.
7	3	2.00	56.45	35.05	21.40	0.83	20.57	12.00	0.878	0.953	2023.3	4.	11.	44.	89026.
8	1	2.00	57.08	35.05	22.03	0.83	21.20	12.00	0.878	0.953	2086.6	4.	10.	40.	83464.
8	2	2.00	57.49	35.05	22.44	0.83	21.61	12.00	0.878	0.954	2127.6	4.	10.	40.	85102.
8	3	2.00	57.99	35.05	22.94	0.83	22.11	12.00	0.878	0.954	2177.8	4.	11.	44.	95823.
9	1	2.00	58.42	35.05	23.37	0.83	22.54	12.00	0.878	0.954	2221.2	4.	10.	40.	88850.
9	2	2.00	58.95	35.05	23.90	0.83	23.07	12.00	0.878	0.955	2274.2	4.	10.	40.	90968.
9	3	2.00	59.20	35.05	24.15	0.83	23.32	12.00	0.878	0.955	2299.6	4.	10.	40.	91984.
10	1	5.97	59.36	35.05	24.31	0.82	23.49	11.93	0.878	0.955	2301.9	12.	10.	120.	276224.
10	2	9.42	59.44	35.05	24.39	0.82	23.57	11.90	0.878	0.955	2304.2	19.	10.	190.	437801.
10	3	4.10	59.40	35.05	24.35	0.69	23.66	10.94	0.876	0.954	2117.6	9.	11.	99.	209646.
11	1	15.79	58.87	35.05	23.82	0.89	22.93	12.44	0.878	0.955	2344.6	24.	10.	240.	562697.
11	2	12.62	58.43	35.05	23.38	0.92	22.47	12.62	0.879	0.955	2330.7	24.	10.	240.	559367.
11	3	9.40	58.09	35.05	23.04	0.83	22.21	11.99	0.878	0.954	2186.1	19.	10.	190.	415352.
12	1	6.53	57.83	35.05	22.78	0.84	21.95	12.06	0.878	0.954	2172.7	13.	10.	130.	282457.
12	2	5.02	57.61	35.05	22.56	0.84	21.72	12.05	0.878	0.954	2148.5	10.	10.	100.	214851.
12	3	4.45	57.39	35.05	22.34	0.81	21.53	11.87	0.878	0.953	2095.8	9.	11.	99.	207483.
															8255759.
															TOTAL

Table 4B-8 (3)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1957	1	6.47	57.12	35.05	22.07	0.96	21.10	12.95	0.879	0.955	2246.3	12.	10.	120.	269558.
	1	7.51	56.80	35.05	21.75	0.95	20.80	12.87	0.879	0.954	2199.7	14.	10.	140.	307959.
	1	9.39	56.38	35.05	21.33	1.01	20.32	13.26	0.879	0.954	2214.2	17.	11.	187.	414050.
	2	11.07	55.93	35.05	20.88	0.71	20.17	11.07	0.876	0.950	1821.2	24.	10.	240.	437091.
	2	7.98	55.60	35.05	20.55	1.06	19.48	13.67	0.878	0.954	2187.5	14.	10.	140.	306255.
	2	11.07	55.24	35.05	20.19	0.71	19.48	11.07	0.876	0.949	1757.9	24.	8.	192.	337519.
	3	12.44	54.70	35.05	19.65	0.89	18.76	12.44	0.863	0.951	1876.7	24.	10.	240.	450408.
	3	10.39	54.20	35.05	19.15	0.62	18.53	10.39	0.859	0.945	1532.2	24.	10.	240.	367718.
	3	9.26	53.70	35.05	18.65	1.26	17.39	14.91	0.856	0.953	2058.5	15.	11.	165.	339659.
	4	6.72	53.38	35.05	18.33	1.08	17.24	13.80	0.861	0.952	1909.2	11.	10.	110.	210017.
	4	5.01	53.11	35.05	18.06	1.02	17.04	13.35	0.845	0.950	1789.7	9.	10.	90.	161072.
	4	3.40	52.92	35.05	17.87	1.06	16.81	12.61	0.844	0.950	1797.3	6.	10.	60.	107836.
	5	2.00	52.80	35.05	17.75	0.83	16.92	12.00	0.948	0.946	1596.6	4.	10.	40.	63865.
	5	2.00	52.68	35.05	17.63	0.83	16.80	12.00	0.948	0.946	1585.0	4.	10.	40.	63402.
	5	7.54	52.64	35.05	17.59	1.10	16.49	13.93	0.842	0.950	1800.4	13.	11.	143.	257457.
	6	2.00	53.65	35.05	18.60	0.83	17.77	17.00	0.863	0.948	1710.1	4.	10.	40.	68405.
	6	10.27	53.82	35.05	18.77	0.61	18.17	10.27	0.858	0.944	1481.8	24.	10.	240.	355626.
	6	14.01	53.64	35.05	18.59	1.11	17.48	14.01	0.860	0.952	1964.9	24.	10.	240.	471588.
	7	2.00	54.83	35.05	19.78	0.83	18.95	12.00	0.863	0.950	1828.2	4.	10.	40.	73128.
	7	2.00	55.64	35.05	20.59	0.83	19.76	12.00	0.878	0.952	1997.2	4.	10.	40.	77675.
	7	2.00	56.19	35.05	21.14	0.83	20.31	12.00	0.878	0.952	1997.2	4.	11.	44.	87875.
	8	2.00	56.30	35.05	21.25	0.83	20.42	12.00	0.878	0.953	2008.9	4.	10.	40.	80356.
	8	2.00	56.60	35.05	21.55	0.83	20.72	12.00	0.878	0.953	2038.6	4.	10.	40.	81545.
	8	2.00	57.12	35.05	22.07	0.83	21.24	12.00	0.878	0.953	2090.8	4.	11.	44.	91993.
	9	2.00	57.58	35.05	22.53	0.83	21.70	12.00	0.878	0.954	2137.3	4.	10.	40.	85494.
	9	2.00	57.84	35.05	22.79	0.83	21.96	12.00	0.878	0.954	2163.2	4.	10.	40.	86528.
	9	2.00	58.28	35.05	23.23	0.83	22.40	12.00	0.878	0.954	2206.6	4.	10.	40.	88263.
	10	2.00	58.81	35.05	23.77	0.83	22.94	12.00	0.878	0.955	2261.0	4.	10.	40.	90441.
	10	4.72	58.81	35.05	23.76	0.74	23.02	11.34	0.877	0.954	2138.9	10.	10.	100.	213893.
	10	20.25	58.10	35.05	23.05	0.97	22.08	12.99	0.879	0.955	2359.8	24.	11.	264.	622974.
	11	15.75	57.53	35.05	22.48	1.03	21.45	13.40	0.879	0.955	2363.8	24.	10.	240.	567323.
	11	12.66	57.03	35.05	21.98	0.92	21.06	12.66	0.879	0.954	2190.8	24.	10.	240.	525798.
	11	9.49	56.64	35.05	21.59	0.92	20.67	12.66	0.879	0.954	2148.4	18.	10.	180.	386706.
	12	6.53	56.36	35.05	21.31	0.98	20.33	13.07	0.879	0.954	2183.3	12.	10.	120.	262001.
	12	5.02	56.15	35.05	21.10	1.02	20.07	13.39	0.879	0.954	2207.8	9.	10.	90.	198705.
	12	4.45	55.93	35.05	20.88	1.02	19.86	13.35	0.879	0.954	2178.5	8.	11.	88.	191712.
															8801878.
															TOTAL
															4397.

Table 4B-8 (4)

YEA*	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1958	1	6.47	55.66	35.05	20.61	0.96	19.64	12.95	0.879	0.953	2088.7	12.	10.	120.	250642.
	1	7.51	55.35	35.05	20.30	1.09	19.21	13.86	0.878	0.954	2185.5	13.	10.	130.	284109.
	1	9.39	54.93	35.05	19.88	1.13	18.75	14.09	0.860	0.954	2122.0	16.	11.	176.	373475.
	2	11.07	54.42	35.05	19.37	0.71	18.66	11.07	0.862	0.947	1653.0	24.	10.	240.	396721.
	2	10.78	53.91	35.05	18.86	0.67	18.18	10.78	0.861	0.946	1564.8	24.	10.	240.	375546.
	2	11.70	53.47	35.05	18.42	0.79	17.62	11.70	0.863	0.947	1652.2	24.	8.	192.	317228.
	3	12.44	52.88	35.05	17.83	0.89	16.94	12.44	0.848	0.948	1657.6	24.	10.	240.	397833.
	3	10.39	52.38	35.05	17.33	0.62	16.71	10.39	0.845	0.940	1351.1	24.	10.	240.	324264.
	3	8.69	51.98	35.05	16.93	1.10	15.83	13.91	0.842	0.949	1724.5	15.	11.	165.	284549.
	4	5.66	51.67	35.05	16.62	1.05	15.57	13.57	0.844	0.948	1656.8	10.	10.	100.	165684.
	4	4.86	51.14	35.05	16.09	0.97	15.13	12.97	0.832	0.945	1511.6	9.	10.	90.	136047.
	4	3.21	50.76	35.05	15.71	0.95	14.77	12.83	0.833	0.943	1458.4	6.	10.	60.	87502.
	5	2.00	50.99	35.05	15.94	0.83	15.11	12.00	0.835	0.941	1396.6	4.	10.	40.	55863.
	5	2.00	51.70	35.05	16.65	0.83	15.87	12.00	0.848	0.944	1490.2	4.	10.	40.	59608.
	5	2.00	50.29	35.05	15.24	0.95	14.28	12.89	0.832	0.942	1414.4	24.	11.	264.	373391.
	6	17.20	50.72	35.05	15.67	0.91	14.75	17.60	0.833	0.943	1431.0	7.	10.	70.	100171.
	6	3.68	50.72	35.05	15.99	0.83	16.16	12.00	0.848	0.945	1523.6	4.	10.	40.	60945.
	6	2.00	52.04	35.05	18.02	0.83	17.19	12.00	0.863	0.947	1652.6	4.	10.	40.	66105.
	6	2.00	53.74	35.05	18.69	0.83	17.86	12.00	0.863	0.949	1719.6	4.	10.	40.	68782.
	7	2.00	54.69	35.05	19.64	0.83	18.81	12.00	0.863	0.950	1814.3	4.	10.	40.	72570.
	7	2.00	55.56	35.05	20.51	0.83	19.68	12.00	0.878	0.952	1933.9	4.	11.	44.	85089.
	8	2.00	55.99	35.05	20.94	0.83	20.11	12.00	0.878	0.952	1977.4	4.	10.	40.	79096.
	8	2.00	56.33	35.05	21.28	0.83	20.45	12.00	0.878	0.953	2011.4	4.	10.	40.	80457.
	8	2.00	56.00	35.05	21.75	0.83	20.92	12.00	0.878	0.953	2058.7	4.	11.	44.	90582.
	9	2.00	57.45	35.05	22.40	0.83	21.57	12.00	0.878	0.954	2124.1	4.	10.	40.	84962.
	9	2.00	57.90	35.05	22.85	0.83	22.02	12.00	0.878	0.954	2169.4	4.	10.	40.	86778.
	9	2.00	58.40	35.05	23.35	0.83	22.52	12.00	0.878	0.954	2219.1	4.	10.	40.	88765.
	10	6.71	58.12	35.05	23.27	0.77	22.51	11.50	0.877	0.954	2122.0	14.	10.	140.	297073.
	10	2.00	58.42	35.05	23.37	0.83	22.77	12.00	0.878	0.954	2220.9	4.	10.	40.	88835.
	10	2.00	58.65	35.05	23.60	0.83	22.54	12.00	0.878	0.954	2243.6	4.	11.	44.	98720.
	11	6.58	58.47	35.05	23.42	0.74	22.68	11.28	0.877	0.953	2096.1	14.	10.	140.	293454.
	11	2.48	58.04	35.05	22.99	0.90	22.09	12.48	0.878	0.955	2267.1	24.	10.	240.	544095.
	11	9.39	57.68	35.05	22.67	0.90	21.73	12.52	0.879	0.954	2235.6	18.	10.	180.	402409.
	12	6.53	57.40	35.05	22.35	0.84	21.51	12.06	0.878	0.954	2129.4	13.	10.	130.	276816.
	12	5.02	57.18	35.05	22.13	0.84	21.29	12.05	0.878	0.954	2105.3	10.	10.	100.	210529.
	12	4.45	56.96	35.05	21.91	0.81	21.10	11.67	0.878	0.953	2053.1	9.	11.	99.	203252.
													TOTAL		7261933.
														3968.	

Table 4B-8 (5)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1959	1	6.47	56.69	35.05	21.64	0.96	20.68	12.95	0.879	0.954	2200.0	12.	10.	120.	264002.
	1	7.51	56.37	35.05	21.32	0.95	20.37	12.87	0.879	0.954	2153.8	14.	10.	140.	301539.
	3	4.56	56.30	35.05	21.25	0.85	20.40	12.17	0.878	0.953	2035.5	9.	11.	99.	201516.
	2	9.88	55.92	35.05	20.87	1.00	19.88	13.18	0.879	0.954	2152.4	18.	10.	180.	387430.
	2	10.78	55.48	35.05	20.43	0.67	19.76	10.78	0.875	0.949	1734.4	24.	10.	240.	416249.
	2	11.70	55.10	35.05	20.05	0.79	19.26	11.70	0.877	0.951	1842.4	24.	8.	192.	353737.
	3	12.44	54.55	35.05	19.50	0.89	18.60	12.44	0.863	0.951	1860.6	24.	10.	240.	446536.
	3	10.39	54.04	35.05	18.99	0.62	18.37	10.39	0.859	0.945	1518.9	24.	10.	240.	364537.
	3	9.26	53.55	35.05	18.50	1.09	17.40	13.88	0.860	0.952	1939.9	16.	11.	176.	341256.
	4	6.03	53.23	35.05	18.19	1.20	16.99	14.46	0.837	0.952	1918.6	10.	10.	100.	191860.
	4	4.70	52.98	35.05	17.93	1.13	16.91	14.09	0.841	0.951	1955.5	8.	10.	80.	148442.
	5	2.44	52.92	35.05	17.87	0.80	17.08	11.74	0.848	0.946	1575.1	5.	10.	50.	78754.
	5	2.00	52.89	35.05	17.84	0.83	17.01	12.00	0.848	0.947	1606.2	4.	10.	40.	64248.
	5	2.00	52.84	35.05	17.79	0.83	16.96	12.00	0.848	0.947	1600.5	4.	10.	40.	64021.
	5	2.00	51.40	35.05	18.35	0.83	17.52	12.00	0.863	0.948	1685.7	4.	11.	44.	74169.
	6	2.00	54.20	35.05	19.15	0.83	18.32	12.00	0.863	0.949	1765.4	4.	10.	40.	70617.
	6	2.00	54.54	35.05	19.49	0.83	18.66	12.00	0.863	0.950	1799.3	4.	10.	40.	71970.
	6	7.80	54.43	35.05	19.38	1.18	18.20	14.39	0.858	0.954	2099.6	13.	10.	130.	272949.
	7	2.00	55.00	35.05	19.95	0.83	19.12	12.00	0.878	0.951	1877.7	4.	10.	40.	75108.
	7	2.00	55.26	35.05	20.21	0.83	19.38	12.00	0.878	0.952	1903.8	4.	10.	40.	76152.
	7	2.00	55.79	35.05	20.74	0.83	19.91	12.00	0.878	0.952	1956.7	4.	11.	44.	86097.
	8	2.00	56.24	35.05	21.19	0.83	20.36	12.00	0.878	0.953	2002.6	4.	10.	40.	80103.
	8	2.00	56.57	35.05	21.52	0.83	20.69	12.00	0.878	0.953	2035.6	4.	10.	40.	81426.
	8	2.00	56.87	35.05	21.82	0.83	20.99	12.00	0.878	0.953	2066.2	4.	11.	44.	90911.
	9	2.00	57.43	35.05	22.38	0.83	21.55	12.00	0.878	0.954	2122.0	4.	10.	40.	84881.
	9	2.00	58.00	35.05	22.95	0.83	22.12	12.00	0.878	0.954	2179.0	4.	10.	40.	87159.
	9	2.00	58.38	35.05	23.33	0.83	22.50	12.00	0.878	0.954	2217.5	4.	10.	40.	88699.
	10	2.00	58.84	35.05	23.89	0.83	23.06	12.00	0.878	0.955	2273.1	4.	10.	40.	90923.
	10	2.00	59.23	35.05	24.18	0.83	23.35	12.00	0.878	0.955	2302.2	4.	10.	40.	92087.
	10	8.57	58.99	35.05	23.94	0.76	23.18	11.43	0.877	0.954	2171.2	18.	11.	198.	429889.
	11	13.33	58.55	35.05	23.50	0.92	22.57	12.67	0.879	0.955	2351.9	24.	10.	240.	564446.
	11	12.23	58.15	35.05	23.10	0.86	22.24	12.23	0.878	0.954	2234.2	24.	10.	240.	536209.
	11	9.41	57.80	35.05	22.75	0.91	21.84	12.55	0.879	0.954	2253.1	18.	10.	180.	405566.
	12	6.53	57.52	35.05	22.47	0.84	21.63	12.06	0.878	0.954	2141.5	13.	10.	130.	278394.
	12	5.02	57.30	35.05	22.25	0.84	21.41	12.05	0.878	0.954	2117.4	10.	10.	100.	211738.
	12	4.45	57.08	35.05	22.03	0.81	21.22	11.87	0.878	0.953	2065.0	9.	11.	99.	204435.
															7678041.
															3826.
															TOTAL

Table 4B-8 (6)

YEAR 1960	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	1	6.47	56.81	35.05	21.76	0.96	20.79	12.95	0.879	0.954	2213.0	12.	10.	120.	265556.
1	1	7.51	56.49	35.05	21.44	0.95	20.49	12.87	0.879	0.954	2166.7	14.	10.	140.	303334.
1	1	9.28	56.09	35.05	21.04	0.98	20.05	13.11	0.879	0.954	2159.3	17.	11.	187.	403784.
2	1	10.94	55.65	35.05	20.60	0.69	19.91	10.94	0.876	0.950	1775.5	24.	10.	240.	426131.
2	2	10.75	55.21	35.05	20.16	0.67	19.49	10.75	0.875	0.948	1703.6	24.	10.	240.	408871.
2	3	11.53	54.77	35.05	19.72	0.77	18.96	11.53	0.863	0.949	1754.3	24.	9.	216.	378923.
3	1	12.44	54.18	35.05	19.13	0.89	18.24	12.44	0.863	0.950	1822.9	24.	10.	240.	437501.
3	2	10.39	53.68	35.05	18.63	0.62	18.01	10.39	0.859	0.944	1487.5	24.	10.	240.	356989.
3	3	9.26	53.18	35.05	18.13	1.09	17.04	13.88	0.843	0.951	1857.3	16.	11.	176.	326883.
4	1	6.32	52.86	35.05	17.81	1.08	16.73	13.80	0.843	0.950	1811.5	11.	10.	110.	199270.
4	2	5.01	52.60	35.05	17.55	1.02	16.51	13.35	0.845	0.949	1734.2	9.	10.	90.	156082.
4	3	3.40	52.40	35.05	17.35	1.06	16.30	13.61	0.844	0.949	1741.1	6.	10.	60.	104465.
4	4	2.00	52.30	35.05	17.30	0.83	16.42	12.00	0.848	0.946	1553.5	4.	10.	40.	62142.
5	1	2.90	52.35	35.05	17.30	0.83	16.47	12.00	0.848	0.946	1553.5	4.	10.	40.	62142.
5	2	2.90	52.35	35.05	17.30	0.83	16.47	12.00	0.848	0.946	1553.5	4.	10.	40.	62142.
5	3	5.30	52.57	35.05	17.52	1.14	16.38	14.13	0.841	0.950	1812.5	9.	11.	99.	179439.
6	1	2.00	53.01	35.05	17.96	0.83	17.13	12.00	0.863	0.947	1647.4	4.	10.	40.	65896.
6	2	2.00	53.62	35.05	18.57	0.83	17.74	12.00	0.863	0.948	1707.4	4.	10.	40.	68296.
6	3	8.16	53.63	35.05	18.58	1.11	17.47	13.99	0.860	0.952	1961.9	14.	10.	140.	274667.
7	1	2.00	54.55	35.05	19.50	0.83	19.67	12.00	0.863	0.950	1800.2	4.	10.	40.	72008.
7	2	2.00	54.89	35.05	19.84	0.83	19.01	12.00	0.878	0.951	1866.1	4.	10.	40.	74644.
7	3	2.00	55.01	35.05	19.96	0.83	19.13	12.00	0.878	0.951	1878.6	4.	11.	44.	82656.
8	1	2.00	55.73	35.05	20.68	0.83	19.85	12.00	0.878	0.952	1951.0	4.	10.	40.	78040.
8	2	2.00	56.28	35.05	21.23	0.83	20.40	12.00	0.878	0.953	2006.4	4.	10.	40.	80256.
8	3	2.00	56.82	35.05	21.77	0.83	21.22	12.00	0.878	0.953	2061.1	4.	11.	44.	90689.
9	1	2.00	57.10	35.05	22.05	0.83	21.94	12.00	0.878	0.954	2089.4	4.	10.	40.	83576.
9	2	2.00	57.53	35.05	22.48	0.83	21.65	12.00	0.878	0.954	2132.3	4.	10.	40.	85294.
9	3	2.00	58.01	35.05	22.96	0.83	22.13	12.00	0.878	0.954	2180.4	4.	10.	40.	87214.
10	1	2.00	58.37	35.05	23.32	0.83	22.49	12.00	0.878	0.954	2215.6	4.	10.	40.	88625.
10	2	2.00	58.69	35.05	23.64	0.83	22.81	12.00	0.878	0.955	2271.8	4.	10.	40.	89931.
10	3	2.00	58.93	35.05	23.88	0.83	23.05	12.00	0.878	0.955	2248.3	4.	11.	44.	99959.
11	1	13.42	58.54	35.05	23.49	0.92	22.56	12.68	0.879	0.955	2352.1	24.	10.	240.	564497.
11	2	11.65	58.12	35.05	23.07	0.79	22.29	11.65	0.877	0.954	2129.9	24.	10.	240.	511165.
11	3	4.20	57.96	35.05	22.91	0.72	22.19	11.19	0.876	0.953	2032.0	9.	10.	90.	182879.
12	1	2.19	58.01	35.05	22.96	0.63	22.32	10.50	0.874	0.952	1910.8	5.	10.	50.	95541.
12	2	4.54	57.85	35.05	22.80	0.84	21.96	12.10	0.878	0.954	2180.8	9.	10.	90.	196270.
12	3	4.45	57.63	35.05	22.58	0.81	21.77	11.87	0.878	0.954	2119.5	9.	11.	99.	209829.
													TOTAL	3759.	7253225.

Table 4B-8 (7)

YEAR 1961	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1	6.34	57.36	35.05	22.31	0.92	21.34	12.67	0.879	0.954	2227.2	17.	10.	120.	267260.
	1	7.40	57.05	35.05	22.00	0.93	21.07	12.6P	0.879	0.954	2195.6	14.	10.	140.	307381.
	3	9.08	56.64	35.05	21.59	0.95	20.64	12.82	0.879	0.954	2175.2	17.	11.	187.	406756.
	2	4.30	56.44	35.05	21.39	0.96	20.43	12.90	0.879	0.954	2166.0	8.	10.	80.	173279.
	2	8.19	56.09	35.05	21.04	0.99	20.06	13.11	0.879	0.954	2160.4	15.	10.	150.	324056.
	2	11.39	55.72	35.05	20.67	0.75	19.97	11.39	0.877	0.951	1853.3	24.	8.	192.	355832.
	3	12.58	55.20	35.05	20.15	0.91	19.24	12.58	0.879	0.952	1984.4	24.	10.	240.	476247.
	3	10.52	54.74	35.05	19.69	0.64	19.06	10.52	0.875	0.947	1627.3	24.	10.	240.	390540.
	3	9.29	54.24	35.05	19.19	1.27	17.92	14.86	0.856	0.954	2130.0	15.	11.	165.	351447.
	4	6.28	53.92	35.05	18.87	1.07	17.80	13.71	0.861	0.952	1959.5	11.	10.	110.	215547.
	4	4.86	53.67	35.05	18.62	1.22	17.40	14.58	0.957	0.953	2029.9	8.	10.	80.	162389.
	4	3.18	53.50	35.05	18.45	0.93	17.51	12.74	0.863	0.950	1791.9	6.	10.	60.	107512.
	5	2.00	53.39	35.05	18.34	0.83	17.51	12.00	0.863	0.948	1685.2	4.	10.	40.	67407.
	5	2.00	53.44	35.05	18.39	0.83	17.54	12.00	0.867	0.948	1690.1	4.	10.	40.	67605.
	5	2.00	53.82	35.05	18.77	0.83	17.94	12.00	0.863	0.949	1727.1	4.	11.	44.	75992.
	6	2.00	54.64	35.05	19.59	0.83	18.76	12.00	0.863	0.950	1808.5	4.	10.	40.	72339.
	6	2.00	55.53	35.05	20.48	0.83	19.65	12.00	0.878	0.952	1930.9	4.	10.	40.	77234.
	6	9.16	55.56	35.05	20.51	1.07	19.44	13.74	0.878	0.954	2193.6	16.	10.	160.	350982.
	7	2.00	56.35	35.05	21.30	0.83	20.47	12.00	0.878	0.953	2013.3	4.	10.	40.	80533.
	7	2.00	57.38	35.05	22.33	0.83	21.50	12.00	0.878	0.954	2116.7	4.	10.	40.	84668.
	7	2.00	57.89	35.05	22.84	0.83	22.01	12.00	0.878	0.954	2168.0	4.	11.	44.	95393.
	8	2.00	58.37	35.05	23.32	0.83	22.49	12.00	0.878	0.954	2215.9	4.	10.	40.	88636.
	8	2.00	58.73	35.05	23.68	0.83	22.85	12.00	0.878	0.955	2252.4	4.	10.	40.	90095.
	8	2.00	59.34	35.05	24.29	0.83	23.46	12.00	0.878	0.955	2312.9	4.	11.	44.	101769.
	9	11.42	59.44	35.05	24.39	0.75	23.63	11.42	0.877	0.954	2213.5	24.	10.	240.	531232.
	9	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	9	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	10	7.46	59.44	35.05	24.39	0.82	23.57	11.93	0.878	0.955	2309.4	15.	10.	150.	346413.
	10	2.92	59.44	35.05	24.39	0.79	23.60	11.68	0.877	0.955	2263.0	6.	10.	60.	135778.
	10	3	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	11.	264.	613212.
	11	6.12	59.39	35.05	24.34	0.74	23.60	11.30	0.877	0.954	2186.3	13.	10.	130.	284216.
	11	10.12	59.05	35.05	24.00	0.59	23.41	10.12	0.873	0.952	1930.8	24.	10.	240.	463399.
	3	9.25	58.72	35.05	23.67	0.79	22.89	11.68	0.878	0.954	2192.4	19.	10.	190.	416562.
	1	6.43	58.48	35.05	23.43	0.81	22.62	11.87	0.878	0.954	2204.7	13.	10.	130.	286541.
	2	4.98	58.29	35.05	23.24	0.82	22.41	11.95	0.878	0.954	2198.4	10.	10.	100.	219838.
	3	3.91	58.14	35.05	23.09	0.80	22.30	11.73	0.877	0.954	2145.6	9.	11.	88.	188816.
													TOTAL		4448.

Table 4B-8 (8)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1962	1	5.47	57.94	35.05	22.89	0.82	22.07	11.94	0.878	0.954	2162.9	11.	10.	110.	237922.
	1	7.20	57.64	35.05	22.59	0.88	21.71	12.34	0.878	0.954	2701.4	14.	10.	140.	308194.
	1	9.25	57.72	35.05	22.17	0.88	21.30	12.33	0.878	0.954	2156.7	18.	11.	198.	427030.
	2	10.91	56.77	35.05	21.72	0.88	21.05	10.81	0.875	0.951	1856.7	24.	10.	240.	445602.
	2	10.54	56.34	35.05	21.29	0.84	20.65	10.54	0.875	0.949	1770.7	24.	10.	240.	424961.
	3	11.60	55.96	35.05	20.91	0.78	20.13	11.60	0.877	0.952	1910.4	24.	8.	192.	366793.
	3	12.44	55.44	35.05	20.39	0.89	19.50	12.44	0.878	0.952	1988.5	24.	10.	240.	477241.
	3	10.39	55.01	35.05	19.96	0.62	19.34	10.39	0.874	0.947	1629.9	24.	10.	240.	391188.
	3	9.12	54.54	35.05	19.49	1.22	18.27	14.59	0.857	0.954	2134.4	15.	11.	165.	352171.
	4	6.12	54.22	35.05	19.17	1.24	17.93	14.70	0.857	0.954	2108.6	10.	10.	100.	210863.
	4	4.85	53.96	35.05	18.91	1.22	17.69	14.56	0.857	0.953	2062.1	8.	10.	80.	164965.
	4	2.69	53.82	35.05	18.77	0.96	17.81	12.93	0.863	0.951	1851.1	5.	10.	50.	92556.
	5	2.00	53.74	35.05	18.69	0.83	17.06	12.00	0.863	0.949	1719.5	4.	10.	40.	68781.
	5	2.00	54.09	35.05	19.04	0.83	18.21	12.00	0.863	0.949	1754.1	4.	10.	40.	70166.
	5	2.00	55.03	35.05	19.78	0.83	19.15	12.00	0.878	0.951	1860.5	4.	10.	40.	82741.
	5	2.00	55.52	35.05	20.47	0.83	19.64	12.00	0.878	0.952	1930.4	4.	10.	40.	77217.
	6	2.00	56.30	35.05	21.25	0.83	20.42	12.00	0.878	0.953	2008.0	4.	10.	40.	80321.
	6	2.55	56.53	35.05	21.48	0.86	20.62	12.72	0.878	0.953	2053.8	5.	10.	50.	103384.
	7	2.00	56.75	35.05	21.79	0.83	20.87	12.00	0.878	0.953	2096.2	4.	10.	40.	82151.
	7	2.00	57.17	35.05	22.12	0.83	21.29	12.00	0.878	0.954	2190.0	4.	10.	40.	83848.
	7	2.00	58.11	35.05	23.06	0.83	22.73	12.00	0.878	0.954	2244.7	4.	10.	40.	96360.
	8	2.00	58.66	35.05	23.61	0.83	22.78	12.00	0.879	0.954	2288.4	4.	10.	40.	89788.
	8	2.00	59.09	35.05	24.04	0.83	23.21	12.00	0.879	0.955	2288.4	4.	10.	40.	91536.
	8	2.00	59.19	35.05	24.14	0.83	23.31	12.00	0.879	0.955	2298.4	4.	11.	44.	101128.
	9	2.00	59.42	35.05	24.37	0.83	23.54	12.00	0.879	0.955	2322.8	4.	10.	40.	92841.
	9	2.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	9	11.93	59.44	35.05	24.39	0.82	23.57	11.93	0.878	0.955	2309.0	24.	10.	240.	554157.
	10	10.15	59.44	35.05	24.39	0.59	23.80	10.15	0.873	0.952	1968.5	24.	10.	240.	472450.
	10	9.73	59.44	35.05	24.39	0.78	23.60	11.64	0.877	0.955	2255.4	18.	10.	180.	405971.
	10	4.47	59.44	35.05	24.39	0.82	23.57	11.92	0.878	0.955	2306.8	9.	11.	99.	228378.
	11	7.09	59.25	35.05	24.20	0.74	23.46	11.34	0.877	0.954	2180.7	15.	10.	150.	327111.
	11	12.76	58.81	35.05	23.76	0.90	22.87	12.48	0.878	0.955	2345.9	24.	10.	240.	563020.
	11	9.64	58.46	35.05	23.41	0.78	22.64	11.59	0.877	0.954	2151.0	20.	10.	200.	430204.
	12	6.58	58.22	35.05	23.17	0.85	22.32	12.15	0.878	0.954	2226.4	13.	10.	130.	289436.
	12	5.06	58.02	35.05	22.97	0.85	22.12	12.15	0.878	0.954	2207.0	10.	10.	100.	220697.
	12	4.46	57.81	35.05	22.76	0.82	21.95	11.90	0.878	0.954	2143.5	9.	11.	99.	212209.
													TOTAL		9280830.
														4455.	

Table 4B-8 (9)

YEAR 1963	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1	6.76	57.53	35.05	22.48	0.90	21.58	12.49	0.878	0.954	2213.6	13.	10.	130.	287772.
	1	7.24	57.20	35.05	22.15	0.91	21.24	12.55	0.879	0.954	2189.7	15.	10.	150.	328462.
	1	9.48	56.77	35.05	21.72	0.92	20.86	12.64	0.875	0.954	2159.7	18.	11.	198.	427627.
	2	10.75	56.33	35.05	21.28	0.67	20.61	10.75	0.875	0.950	1805.3	24.	10.	240.	433279.
	2	10.48	55.90	35.05	20.85	0.63	20.21	10.48	0.874	0.949	1722.3	24.	10.	240.	413344.
	2	11.84	55.51	35.05	20.46	0.81	19.65	11.84	0.878	0.952	1904.8	24.	8.	192.	365725.
	3	12.90	54.98	35.05	19.91	0.96	18.97	12.90	0.863	0.952	1970.5	24.	10.	240.	472929.
	3	10.78	54.48	35.05	19.43	0.67	18.74	10.78	0.861	0.947	1615.0	24.	10.	240.	387602.
	3	9.72	53.96	35.05	18.91	1.22	17.69	14.58	0.857	0.953	2064.3	16.	11.	176.	363314.
	4	6.69	53.62	35.05	18.57	1.22	17.34	14.60	0.857	0.953	2026.8	11.	10.	110.	222945.
	4	5.29	53.35	35.05	18.30	1.13	17.17	14.10	0.860	0.952	1940.7	9.	10.	90.	174663.
	4	3.94	53.13	35.05	18.08	1.04	17.04	13.50	0.845	0.950	1808.7	7.	10.	70.	126611.
	5	2.00	53.06	35.05	18.01	0.83	17.18	12.00	0.863	0.947	1651.5	4.	10.	40.	66062.
	5	2.00	53.43	35.05	18.18	0.83	17.55	12.00	0.863	0.948	1688.4	4.	10.	40.	67537.
	5	8.48	53.08	35.05	18.03	1.21	16.82	14.53	0.837	0.952	1907.0	14.	11.	154.	293679.
	6	2.00	53.28	35.05	18.23	0.83	17.40	12.00	0.863	0.948	1674.1	4.	10.	40.	66965.
	6	2.00	53.93	35.05	18.88	0.83	18.05	12.00	0.863	0.949	1738.5	4.	10.	40.	69540.
	6	54.62	54.62	35.05	19.57	0.83	18.74	12.00	0.863	0.950	1806.8	4.	10.	40.	72272.
	7	2.00	55.60	35.05	20.55	0.83	19.77	12.00	0.878	0.950	1806.8	4.	10.	40.	77505.
	7	2.00	56.87	35.05	21.82	0.83	20.99	12.00	0.878	0.953	2065.3	4.	10.	40.	82612.
	7	2.00	57.77	35.05	22.72	0.83	21.89	12.00	0.878	0.954	2155.6	4.	11.	44.	94848.
	8	2.00	58.67	35.05	23.16	0.83	22.33	12.00	0.878	0.954	2199.9	4.	10.	40.	87995.
	8	2.00	59.29	35.05	24.74	0.83	23.41	12.00	0.878	0.954	2245.9	4.	10.	40.	89837.
	8	2.00	59.44	35.05	24.39	0.83	22.79	12.00	0.878	0.955	2307.9	4.	11.	44.	101546.
	9	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	9	7.49	59.44	35.05	24.39	0.83	23.56	11.98	0.878	0.955	2318.5	15.	10.	150.	557465.
	10	11.10	59.44	35.05	24.39	0.71	23.67	11.10	0.876	0.954	2152.9	24.	10.	240.	516704.
	10	2.87	59.44	35.05	24.39	0.76	23.63	11.46	0.877	0.954	2221.2	6.	10.	60.	133271.
	10	7.93	59.44	35.05	24.39	0.82	23.57	11.90	0.878	0.955	2303.5	16.	11.	176.	405423.
	11	4.24	59.44	35.05	24.39	0.74	23.65	11.31	0.877	0.954	2192.1	9.	10.	90.	197293.
	11	13.18	59.00	35.05	23.95	0.88	23.07	12.35	0.878	0.955	2341.4	24.	10.	240.	561930.
	11	10.01	58.64	35.05	23.59	0.57	23.02	10.01	0.873	0.951	1875.0	24.	10.	240.	449992.
	12	4.67	58.47	35.05	23.42	0.73	22.60	11.21	0.876	0.953	2082.1	10.	10.	100.	208208.
	12	2.77	58.45	35.05	23.40	0.71	22.70	11.06	0.876	0.953	2054.6	6.	10.	60.	123279.
	12	4.12	58.29	35.05	23.24	0.70	22.55	10.99	0.876	0.953	2027.2	9.	11.	99.	200697.
													TOTAL		9434159.



Table 4B-8 (10)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1964	1	6.92	58.04	35.05	22.99	0.81	22.17	11.87	0.878	0.954	2159.7	14.	10.	140.	302357.
	1	8.03	57.72	35.05	22.67	0.84	21.83	12.04	0.878	0.954	2158.3	16.	10.	160.	345326.
	1	10.09	57.76	35.05	22.21	0.58	21.63	11.95	0.873	0.950	1773.8	24.	11.	264.	468293.
	2	11.95	56.77	35.05	21.72	0.82	20.90	11.95	0.873	0.953	2048.5	24.	10.	240.	491632.
	2	11.61	56.30	35.05	21.75	0.78	20.47	11.61	0.877	0.952	1944.7	24.	10.	240.	466720.
	3	12.66	55.83	35.05	20.79	0.92	19.86	12.66	0.879	0.953	2063.4	24.	9.	216.	445686.
	3	13.22	55.34	35.05	20.29	1.00	19.25	12.22	0.875	0.953	2093.9	24.	10.	240.	502527.
	3	10.71	54.96	35.05	19.91	0.66	19.29	10.71	0.875	0.948	1675.6	24.	10.	240.	402136.
	3	8.63	54.52	35.05	19.47	1.08	18.39	13.80	0.861	0.953	2039.8	15.	11.	165.	336566.
	4	5.86	54.21	35.05	19.16	1.12	18.04	14.07	0.860	0.953	2037.4	10.	10.	100.	203736.
	4	5.37	53.92	35.05	18.97	1.17	17.70	14.32	0.858	0.953	2032.5	9.	10.	90.	182922.
	4	3.43	53.73	35.05	18.68	1.07	17.61	13.71	0.861	0.952	1938.1	6.	10.	60.	116286.
	5	2.00	53.99	35.05	18.94	0.83	18.11	12.00	0.863	0.949	1744.4	4.	10.	40.	69774.
	5	2.00	54.50	35.05	19.45	0.83	18.62	12.00	0.863	0.950	1794.4	4.	10.	40.	71777.
	5	4.07	54.70	35.05	19.65	1.10	18.55	13.95	0.860	0.953	2079.8	7.	11.	77.	160147.
	6	2.00	55.01	35.05	19.96	0.83	19.13	12.00	0.878	0.951	1878.7	4.	10.	40.	75149.
	6	2.00	55.54	35.05	20.49	0.83	19.66	12.00	0.878	0.952	1932.6	4.	10.	40.	77302.
	6	2.00	56.23	35.05	21.19	0.83	20.35	12.00	0.878	0.953	2001.7	4.	10.	40.	80069.
	7	2.00	56.94	35.05	21.89	0.83	21.06	12.00	0.878	0.953	2073.0	4.	10.	40.	82921.
	7	2.00	57.40	35.05	22.45	0.83	21.62	12.00	0.878	0.954	2128.5	4.	10.	40.	85141.
	7	2.00	57.69	35.05	22.64	0.83	21.81	12.00	0.878	0.954	2147.8	4.	11.	44.	94505.
	8	2.00	57.90	35.05	22.85	0.83	22.02	12.00	0.878	0.954	2169.4	4.	10.	40.	86778.
	8	2.00	58.15	35.05	23.17	0.83	22.73	12.00	0.878	0.954	2194.0	4.	10.	40.	87758.
	8	2.00	58.61	35.05	23.56	0.83	22.73	12.00	0.878	0.954	2239.6	4.	11.	44.	98543.
	9	2.00	59.01	35.05	23.82	0.83	22.99	12.00	0.878	0.955	2266.3	4.	10.	40.	90654.
	9	2.00	59.44	35.05	24.39	0.83	23.17	12.00	0.878	0.955	2266.3	4.	10.	40.	91188.
	9	4.73	59.44	35.05	24.39	0.75	23.64	11.36	0.877	0.954	2201.0	10.	10.	100.	220099.
	10	12.03	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	10	11.96	59.44	35.05	24.39	0.82	23.56	11.96	0.878	0.955	2314.7	24.	10.	240.	555538.
	10	5.64	59.44	35.05	24.39	0.74	23.65	11.28	0.877	0.954	2186.3	12.	11.	132.	288597.
	11	3.05	59.40	35.05	24.35	0.63	23.72	10.46	0.874	0.954	2025.5	7.	10.	70.	141787.
	11	10.16	59.07	35.05	24.02	0.59	23.43	10.16	0.873	0.952	1939.2	24.	10.	240.	465398.
	11	2.12	59.12	35.05	24.07	0.59	23.48	10.15	0.873	0.952	1943.0	5.	10.	50.	97152.
	12	5.00	58.99	35.05	23.94	0.69	23.25	10.91	0.876	0.953	2075.6	11.	10.	110.	228315.
	12	5.02	58.79	35.05	23.74	0.69	23.05	10.95	0.876	0.953	2065.6	11.	10.	110.	227216.
	12	4.58	58.59	35.05	23.54	0.70	22.84	10.99	0.876	0.953	2054.0	10.	11.	110.	225941.
													TOTAL		8523388.

Table 4B-8 (11)

YEAR 1965	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1	6.27	58.36	35.05	23.31	0.77	22.53	11.59	0.877	0.954	2138.3	13.	10.	130.	277978.
	1	7.51	58.08	35.05	23.03	0.83	22.20	12.01	0.878	0.954	2188.5	15.	10.	150.	328276.
	3	9.44	57.67	35.05	22.62	0.91	21.71	12.59	0.879	0.954	2246.2	18.	11.	198.	444740.
	2	7.86	57.35	35.05	22.30	0.91	21.39	12.57	0.879	0.954	2208.5	15.	10.	150.	331276.
	2	10.68	56.91	35.05	21.86	0.66	21.20	10.68	0.875	0.951	1846.6	24.	10.	240.	443178.
	3	11.98	56.52	35.05	21.47	0.83	20.64	11.78	0.878	0.953	2026.9	24.	8.	192.	389167.
	3	12.92	55.98	35.05	20.93	0.95	19.79	12.82	0.879	0.954	2105.1	24.	10.	240.	505229.
	2	10.72	55.53	35.05	20.48	0.66	19.82	10.72	0.875	0.949	1728.3	24.	10.	240.	414797.
	3	9.52	55.09	35.05	20.04	1.16	18.88	14.28	0.859	0.954	2163.7	16.	11.	176.	380806.
	4	6.48	54.79	35.05	19.74	1.14	18.60	14.14	0.859	0.954	2112.6	11.	10.	110.	232390.
	4	5.13	54.51	35.05	19.46	1.06	18.40	13.67	0.861	0.953	2022.3	9.	10.	90.	182005.
	3	3.44	54.31	35.05	19.26	1.08	18.19	13.76	0.861	0.953	2010.2	6.	10.	60.	120609.
	5	2.00	54.23	35.05	19.18	0.83	18.35	12.00	0.863	0.949	1768.3	4.	10.	40.	70731.
	5	2.00	54.73	35.05	19.69	0.83	18.85	12.00	0.863	0.950	1818.2	4.	10.	40.	72728.
	5	3.33	55.13	35.05	20.08	1.02	19.07	13.34	0.879	0.953	2087.8	6.	11.	66.	137796.
	6	2.00	55.53	35.05	20.48	0.83	19.65	12.00	0.878	0.952	1931.2	4.	10.	40.	77248.
	6	2.00	56.49	35.05	21.44	0.83	20.61	12.00	0.878	0.953	2027.5	4.	10.	40.	81099.
	3	2.00	58.02	35.05	22.42	0.83	21.59	12.00	0.878	0.954	2125.6	4.	10.	40.	85022.
	7	2.00	58.48	35.05	22.97	0.93	22.14	12.00	0.878	0.954	2181.3	4.	10.	40.	87253.
	7	2.00	58.94	35.05	23.43	0.83	22.60	12.00	0.878	0.954	2227.1	4.	10.	40.	89086.
	3	2.00	59.34	35.05	24.29	0.83	23.06	12.00	0.878	0.955	2273.3	4.	11.	44.	100025.
	8	4.13	59.44	35.05	24.39	0.70	23.68	11.02	0.876	0.954	2136.6	9.	10.	90.	92517.
	8	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	11.	264.	192294.
	9	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	613212.
	2	10.67	59.44	35.05	24.39	0.66	23.73	10.67	0.875	0.953	2070.4	24.	10.	240.	557465.
	9	7.90	59.44	35.05	24.39	0.81	23.58	11.85	0.878	0.953	2294.1	16.	10.	160.	496902.
	1	6.73	59.44	35.05	24.39	0.77	23.62	11.54	0.877	0.954	2234.8	14.	10.	140.	367057.
	2	8.12	59.44	35.05	24.39	0.76	23.63	11.46	0.877	0.954	2220.9	17.	10.	170.	312875.
	3	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	377558.
	11	5.83	59.44	35.05	24.39	0.79	23.60	11.67	0.877	0.955	2259.5	12.	10.	120.	613212.
	2	11.19	59.04	35.05	23.99	0.72	23.27	11.19	0.876	0.954	2132.7	24.	10.	240.	271140.
	3	9.42	58.70	35.05	23.65	0.82	22.83	11.90	0.878	0.954	2231.1	19.	10.	190.	511837.
	1	6.14	58.47	35.05	23.42	0.74	22.68	11.33	0.877	0.954	2105.2	13.	10.	130.	423908.
	2	2.00	58.48	35.05	23.43	0.83	22.60	12.00	0.878	0.954	2227.2	4.	10.	40.	273670.
	3	2.00	58.41	35.05	23.36	0.83	22.53	12.00	0.878	0.954	2220.1	4.	11.	44.	89086.
															97683.
															4738.
															10141835.
															TOTAL

Tabel 4B-8 (12)

YEAR 1965	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1	5.42	53.20	35.05	23.15	0.91	22.34	11.83	0.875	0.954	2168.2	11.	10.	110.	238499.
	2	7.12	57.94	35.05	22.40	0.86	22.03	12.20	0.878	0.954	2209.0	14.	10.	140.	309119.
	3	9.06	57.55	35.05	22.50	0.84	21.66	12.09	0.878	0.954	2148.3	18.	11.	198.	425356.
	2	11.22	57.10	35.05	22.05	0.73	21.32	11.22	0.876	0.952	1956.0	24.	10.	240.	469444.
	2	11.14	56.64	35.05	21.59	0.72	20.87	11.14	0.876	0.951	1900.3	24.	10.	240.	456082.
	3	11.81	56.26	35.05	21.21	0.80	20.40	11.81	0.878	0.952	1972.8	24.	8.	192.	378776.
	3	12.36	55.74	35.05	20.69	0.88	19.81	12.36	0.876	0.953	2007.7	24.	10.	240.	481848.
	2	10.33	55.31	35.05	20.26	1.08	19.65	10.33	0.874	0.947	1646.3	24.	10.	240.	395107.
	3	9.20	54.88	35.05	19.83	1.07	18.75	13.80	0.861	0.953	2031.0	16.	11.	176.	366031.
	4	6.28	54.56	35.05	19.51	1.07	18.44	13.70	0.861	0.953	2031.0	11.	10.	110.	223412.
	4	4.97	54.29	35.05	19.24	1.01	18.23	13.25	0.862	0.952	1943.2	9.	10.	90.	174885.
	4	3.34	54.09	35.05	19.04	1.02	18.02	13.35	0.867	0.952	1934.2	6.	10.	60.	116050.
	5	2.00	53.99	35.05	18.94	0.83	18.11	12.00	0.863	0.949	1744.3	4.	10.	40.	69771.
	5	2.00	53.99	35.05	18.03	0.83	18.10	12.00	0.863	0.949	1743.1	4.	10.	40.	69723.
	5	10.15	53.89	35.05	18.84	0.59	18.25	10.15	0.858	0.944	1468.6	24.	11.	264.	387706.
	6	2.86	54.24	35.05	19.19	1.07	18.12	13.75	0.861	0.953	2001.4	5.	10.	50.	100071.
	6	2.00	54.71	35.05	19.66	0.83	18.83	12.00	0.863	0.950	1815.6	4.	10.	40.	72623.
	6	2.00	55.50	35.05	20.45	0.83	19.62	12.00	0.878	0.952	1927.8	4.	10.	40.	77114.
	7	2.00	55.90	35.05	20.85	0.83	20.02	12.00	0.878	0.952	1967.8	4.	10.	40.	80932.
	7	2.00	56.44	35.05	21.40	0.83	20.57	12.00	0.878	0.953	2023.3	4.	10.	40.	93426.
	7	2.00	57.44	35.05	22.39	0.83	21.56	12.00	0.878	0.954	2123.3	4.	11.	44.	88237.
	8	2.00	58.27	35.05	23.22	0.83	22.39	12.00	0.878	0.954	2205.9	4.	10.	40.	89632.
	8	2.00	58.72	35.05	23.57	0.83	22.74	12.00	0.878	0.954	2240.8	4.	10.	40.	101110.
	8	2.00	59.19	35.05	24.14	0.83	23.31	12.00	0.878	0.955	2297.9	4.	11.	44.	451923.
	9	7.72	59.44	35.05	24.70	0.79	23.60	11.67	0.877	0.955	2251.6	20.	10.	200.	337744.
	9	6.93	59.44	35.05	24.39	0.78	23.60	11.67	0.877	0.955	2299.6	15.	10.	150.	321938.
	10	12.00	59.44	35.05	24.39	0.81	23.57	11.88	0.878	0.955	2299.6	14.	10.	140.	557465.
	10	5.69	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	264491.
	10	2.32	59.37	35.05	24.32	0.75	23.64	11.37	0.877	0.954	2204.1	12.	10.	120.	118212.
	11	13.77	58.90	35.05	23.85	0.72	23.60	11.12	0.876	0.954	2149.3	5.	11.	55.	562513.
	11	12.11	58.47	35.05	23.42	0.84	22.96	12.42	0.878	0.955	2343.8	24.	10.	240.	538876.
	3	9.05	58.14	35.05	23.09	0.84	22.58	12.11	0.878	0.954	2245.3	24.	10.	240.	397060.
	12	4.85	58.07	35.05	23.02	0.84	22.25	12.07	0.878	0.954	2205.9	18.	10.	180.	212366.
	12	4.78	57.90	35.05	22.85	0.76	22.24	11.65	0.877	0.954	2123.7	10.	10.	100.	207549.
	12	4.36	57.49	35.05	22.64	0.78	22.09	11.47	0.877	0.953	2075.5	10.	10.	100.	206002.
							21.86	11.62	0.877	0.953	2080.8	9.	11.	99.	9519793.
															4622.
															TOTAL

Table 4B-8 (13)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1967	1	3.49	57.52	35.05	22.47	0.82	21.65	11.95	0.878	0.954	2122.7	7.	10.	70.	148591.
	1	2.95	57.54	35.05	22.49	0.81	21.69	11.81	0.878	0.954	2101.4	6.	10.	60.	126086.
	1	5.24	57.37	35.05	22.32	0.91	21.41	12.57	0.879	0.954	2212.4	10.	11.	110.	243369.
	2	7.15	57.06	35.05	22.01	0.87	21.15	12.26	0.878	0.954	2128.6	14.	10.	140.	298005.
	2	6.97	56.76	35.05	21.71	0.95	20.76	12.86	0.879	0.954	2194.7	13.	10.	130.	285314.
	2	7.56	56.50	35.05	21.45	0.96	20.49	12.96	0.879	0.954	2182.3	14.	8.	112.	244416.
	3	8.03	56.15	35.05	21.10	0.95	20.15	12.85	0.879	0.954	2127.4	15.	10.	150.	319105.
	3	6.71	55.85	35.05	20.80	1.03	19.77	13.41	0.879	0.954	2178.4	12.	10.	120.	261407.
	3	5.71	55.57	35.05	20.52	1.07	19.45	13.71	0.878	0.954	2189.2	10.	11.	110.	240813.
	4	3.70	55.38	35.05	20.33	0.93	19.40	12.70	0.879	0.953	2020.9	7.	10.	70.	141466.
	4	2.75	55.23	35.05	20.18	0.99	19.18	13.18	0.879	0.953	2075.0	5.	10.	50.	103750.
	4	2.00	55.10	35.05	20.05	0.93	19.22	12.00	0.879	0.951	1888.2	4.	10.	40.	75529.
	5	2.00	55.30	35.05	20.25	0.83	19.42	12.00	0.878	0.952	1907.5	4.	10.	40.	76301.
	5	2.00	55.68	35.05	20.63	0.83	19.80	12.00	0.878	0.952	1946.3	4.	10.	40.	77854.
	5	8.75	55.63	35.05	20.58	0.99	19.59	13.12	0.879	0.954	2111.3	16.	11.	176.	371590.
	6	6.08	55.79	35.05	20.74	1.01	19.73	13.27	0.879	0.954	2151.4	11.	10.	110.	236656.
	6	7.16	55.74	35.05	20.69	1.00	19.69	13.22	0.879	0.954	2137.9	13.	10.	130.	277929.
	6	10.53	55.60	35.05	20.55	0.64	19.91	10.53	0.875	0.948	1704.2	24.	10.	240.	409013.
	7	2.00	56.13	35.05	21.08	0.83	20.25	12.00	0.878	0.952	1991.7	4.	10.	40.	79668.
	7	2.00	56.69	35.05	21.64	0.83	20.81	12.00	0.878	0.953	2047.7	4.	10.	40.	81909.
	7	2.00	57.33	35.05	22.28	0.83	21.45	12.00	0.878	0.954	2112.3	4.	11.	44.	92940.
	8	2.00	58.34	35.05	23.29	0.83	22.46	12.00	0.878	0.954	2212.9	4.	10.	40.	88516.
	8	2.00	58.82	35.05	23.77	0.83	22.94	12.00	0.878	0.955	2261.1	4.	10.	40.	90444.
	8	2.00	59.28	35.05	24.23	0.83	23.40	12.00	0.878	0.955	2307.1	4.	11.	44.	101513.
	9	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	9	10.11	59.44	35.05	24.39	0.58	23.80	10.11	0.873	0.952	1961.0	24.	10.	240.	470629.
	9	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	10	10.98	59.44	35.05	24.39	0.70	23.69	10.98	0.876	0.954	2129.0	24.	10.	240.	510957.
	10	4.15	59.44	35.05	24.39	0.71	23.68	11.07	0.876	0.954	2145.7	9.	10.	90.	193116.
	10	6.08	59.44	35.05	24.39	0.73	23.66	11.22	0.876	0.954	2175.6	13.	11.	143.	311110.
	11	7.83	59.26	35.05	24.21	0.80	23.41	11.75	0.878	0.955	2258.7	16.	10.	160.	361385.
	11	12.51	58.92	35.05	23.87	0.89	22.98	12.40	0.878	0.955	2343.4	24.	10.	240.	562417.
	11	9.73	58.61	35.05	23.56	0.79	22.77	11.67	0.877	0.954	2180.5	20.	10.	200.	436092.
	12	6.99	58.35	35.05	23.30	0.83	22.47	11.99	0.878	0.954	2210.9	14.	10.	140.	309533.
	12	5.43	58.14	35.05	23.09	0.81	22.28	11.85	0.878	0.954	2165.6	11.	10.	110.	238211.
	12	4.09	57.96	35.05	22.91	0.87	22.04	12.27	0.878	0.954	2227.2	8.	11.	88.	195550.
													TOTAL	4277.	9176097.

Table 4B-8 (14)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1969	1	7.04	57.67	35.05	22.62	0.84	21.78	12.07	0.878	0.954	2156.7	14.	10.	140.	301935.
	1	8.03	57.34	35.05	22.29	0.95	21.34	12.84	0.879	0.955	2253.8	15.	10.	150.	338076.
	3	10.04	56.90	35.05	21.85	0.57	21.78	10.04	0.873	0.949	1734.1	24.	11.	264.	457801.
	1	11.91	56.41	35.05	21.36	0.82	20.54	11.91	0.878	0.953	2005.9	24.	10.	240.	481423.
	2	11.57	55.94	35.05	20.89	0.77	20.12	11.57	0.877	0.952	1903.9	24.	10.	240.	456930.
	2	12.70	55.48	35.05	20.43	0.93	19.50	12.70	0.879	0.953	2032.0	24.	9.	216.	438907.
	3	13.92	54.91	35.05	19.86	1.10	18.76	13.92	0.860	0.954	2099.3	24.	10.	240.	503841.
	2	11.63	54.36	35.05	19.31	0.78	18.53	11.63	0.863	0.949	1727.4	24.	10.	240.	414586.
	3	10.06	53.82	35.05	18.77	0.58	18.19	10.06	0.857	0.943	1450.7	24.	11.	264.	382997.
	4	6.66	53.48	35.05	18.43	1.21	17.27	14.53	0.851	0.953	2002.0	11.	10.	110.	220223.
	4	5.29	53.20	35.05	18.15	1.13	17.02	14.11	0.841	0.951	1882.3	9.	10.	90.	169407.
	3	2.00	53.17	35.05	18.12	0.83	17.29	12.00	0.863	0.948	1662.4	4.	10.	40.	66497.
	4	2.00	53.52	35.05	18.47	0.83	17.64	12.00	0.863	0.948	1697.5	4.	10.	40.	67900.
	5	2.00	53.95	35.05	18.90	0.83	18.07	12.00	0.863	0.949	1740.0	4.	10.	40.	69599.
	5	15.14	53.26	35.05	18.21	1.14	17.07	14.14	0.841	0.951	1891.7	24.	11.	264.	499402.
	6	2.00	53.78	35.05	18.73	0.83	17.90	12.00	0.863	0.949	1723.9	4.	10.	40.	68956.
	2	2.00	54.92	35.05	19.87	0.83	19.04	12.00	0.878	0.951	1869.3	4.	10.	40.	74771.
	3	2.00	55.51	35.05	20.46	0.83	19.63	12.00	0.878	0.952	1928.6	4.	10.	40.	77144.
	6	2.00	55.95	35.05	20.90	0.83	20.07	12.00	0.878	0.952	1977.8	4.	10.	40.	78913.
	7	2.00	56.78	35.05	21.73	0.83	20.90	12.00	0.878	0.953	2056.6	4.	10.	40.	82265.
	7	2.00	57.29	35.05	22.74	0.83	21.41	12.00	0.878	0.954	2107.6	4.	11.	44.	92733.
	8	2.00	58.22	35.05	23.17	0.83	22.34	12.00	0.878	0.954	2201.0	4.	10.	40.	88040.
	8	2.00	58.66	35.05	23.61	0.83	22.78	12.00	0.878	0.954	2245.4	4.	10.	40.	89815.
	3	2.00	59.08	35.05	24.03	0.83	23.20	12.00	0.878	0.955	2287.1	4.	11.	44.	100632.
	9	6.28	59.44	35.05	24.39	0.78	23.61	11.60	0.878	0.955	2247.0	13.	10.	130.	292104.
	2	11.88	59.44	35.05	24.39	0.81	23.57	11.88	0.878	0.955	2299.9	24.	10.	240.	551970.
	3	2.28	59.44	35.05	24.39	0.69	23.69	10.96	0.876	0.954	2125.2	5.	10.	50.	106260.
	10	12.00	59.44	35.05	24.39	0.81	23.58	11.82	0.878	0.955	2289.1	24.	10.	240.	549382.
	10	7.94	59.44	35.05	24.39	0.82	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	11	16.56	58.95	35.05	23.90	0.88	23.02	12.38	0.878	0.955	2306.6	16.	11.	176.	405962.
	11	10.65	58.59	35.05	23.54	0.65	22.89	10.65	0.875	0.955	2342.5	24.	10.	240.	562212.
	11	7.53	58.34	35.05	23.79	0.84	22.45	12.05	0.878	0.954	1990.7	24.	10.	240.	477780.
	12	6.80	58.11	35.05	23.06	0.78	22.27	11.65	0.878	0.954	2221.9	15.	10.	150.	333284.
	12	5.50	57.90	35.05	22.85	0.83	22.02	11.99	0.877	0.954	2127.3	14.	10.	140.	297820.
	12	4.96	57.66	35.05	22.61	0.82	21.79	11.90	0.878	0.954	2167.3	11.	10.	110.	238404.
													TOTAL		
														5012.	10229472.

Table 4B-8 (15)

YEAR 1969	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1	6.78	57.37	35.05	22.32	0.90	21.42	12.52	0.879	0.954	2202.8	13.	10.	130.	286365.
	1	7.96	57.04	35.05	21.99	0.93	21.06	12.73	0.879	0.954	2202.6	15.	10.	150.	330383.
	1	9.94	56.59	35.05	21.54	1.01	20.56	13.26	0.879	0.954	2237.9	18.	11.	198.	443100.
	2	11.71	56.11	35.05	21.06	0.79	20.27	11.71	0.877	0.952	1942.7	24.	10.	240.	466246.
	2	11.40	55.65	35.05	20.60	0.75	19.85	11.40	0.877	0.951	1848.5	24.	10.	240.	443639.
	3	12.24	55.25	35.05	20.20	0.86	19.34	12.24	0.878	0.952	1939.6	24.	8.	192.	372399.
	3	12.92	54.70	35.05	19.65	0.96	18.69	12.92	0.863	0.952	1944.2	24.	10.	240.	466610.
	3	10.80	54.18	35.05	19.13	0.67	19.45	10.80	0.861	0.946	1591.2	24.	10.	240.	381884.
	3	9.65	53.66	35.05	18.61	1.20	17.41	14.47	0.858	0.953	2017.1	16.	11.	176.	355004.
	4	6.61	53.32	35.05	18.27	1.19	17.08	14.43	0.838	0.952	1925.7	11.	10.	110.	211829.
	4	5.24	53.05	35.05	18.00	1.11	16.89	13.98	0.842	0.951	1851.9	9.	10.	90.	166673.
	4	1.61	52.84	35.05	17.79	1.19	16.60	14.44	0.838	0.951	1870.8	6.	10.	60.	112246.
	5	2.00	52.73	35.05	17.68	0.83	16.85	12.00	0.848	0.946	1590.4	4.	10.	40.	63614.
	5	2.00	52.69	35.05	17.64	0.83	16.81	12.00	0.848	0.946	1586.2	4.	10.	40.	63447.
	5	2.58	53.13	35.05	18.08	0.88	17.19	12.36	0.863	0.948	1704.8	5.	11.	55.	93764.
	6	2.00	54.06	35.05	19.01	0.83	18.18	12.00	0.863	0.949	1750.8	4.	10.	40.	70030.
	6	2.00	54.83	35.05	19.78	0.83	18.95	12.00	0.863	0.950	1827.2	4.	10.	40.	73089.
	6	2.00	55.34	35.05	20.29	0.83	19.46	12.00	0.878	0.952	1912.4	4.	10.	40.	76495.
	7	2.00	55.51	35.05	20.46	0.83	19.63	12.00	0.878	0.952	1928.9	4.	10.	40.	77156.
	7	2.00	56.00	35.05	20.95	0.83	20.12	12.00	0.878	0.952	1978.3	4.	10.	40.	79132.
	7	2.00	56.70	35.05	21.65	0.83	20.82	12.00	0.878	0.953	2048.3	4.	11.	44.	90127.
	8	2.00	57.46	35.05	22.41	0.83	21.58	12.00	0.878	0.954	2125.5	4.	10.	40.	85018.
	8	2.00	58.17	35.05	23.12	0.83	22.29	12.00	0.878	0.954	2195.8	4.	10.	40.	87830.
	8	2.00	58.35	35.05	23.30	0.83	22.47	12.00	0.878	0.954	2213.5	4.	11.	44.	97395.
	9	2.00	58.72	35.05	23.67	0.83	22.84	12.00	0.878	0.955	2250.7	4.	10.	40.	90030.
	9	2.00	58.97	35.05	23.92	0.83	23.07	12.00	0.878	0.955	2276.5	4.	10.	40.	91059.
	9	2.00	59.36	35.05	24.31	0.83	23.48	12.00	0.878	0.955	2315.6	4.	10.	40.	92624.
	10	6.44	59.44	35.05	24.39	0.82	23.57	11.90	0.878	0.955	2303.5	13.	10.	130.	299460.
	10	17.02	59.01	35.05	23.96	0.88	23.08	12.34	0.878	0.955	2341.0	24.	10.	240.	561841.
	10	2.52	59.31	35.05	24.26	0.58	23.69	10.07	0.873	0.952	1943.0	6.	11.	66.	128238.
	11	9.54	59.23	35.05	24.18	0.76	23.42	11.45	0.877	0.954	2199.1	20.	10.	200.	439827.
	11	12.36	58.87	35.05	23.82	0.88	22.94	12.36	0.878	0.955	2331.8	24.	10.	240.	559625.
	11	9.63	58.55	35.05	23.50	0.77	22.73	11.55	0.877	0.954	2153.3	20.	10.	200.	430666.
	12	1	7.26	58.28	23.23	0.78	22.45	11.62	0.877	0.954	2139.6	15.	10.	150.	320936.
	12	5.68	58.07	35.05	23.02	0.75	22.27	11.36	0.877	0.953	2072.5	12.	10.	120.	248696.
	12	4.97	57.84	35.05	22.79	0.82	21.97	11.94	0.878	0.954	2152.7	10.	11.	110.	236794.
													TOTAL		4145.

Table 4B-8 (16)

YEAR 1970	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1	7.49	57.53	35.05	22.48	0.83	21.65	11.98	0.878	0.954	2128.4	15.	10.	150.	319254.
	1	8.68	57.17	35.05	22.12	0.87	21.25	12.26	0.878	0.954	2138.5	17.	10.	170.	363548.
	1	10.42	56.70	35.05	21.65	0.63	21.03	10.42	0.874	0.950	1783.4	24.	11.	264.	470824.
	2	11.73	56.22	35.05	21.17	0.79	20.38	11.73	0.877	0.952	1956.3	24.	10.	240.	469506.
	2	11.42	55.76	35.05	20.71	0.76	19.95	11.42	0.877	0.951	1862.3	24.	10.	240.	446942.
	2	12.46	55.35	35.05	20.30	0.89	19.41	12.46	0.878	0.952	1982.4	24.	8.	192.	380629.
	3	13.28	54.80	35.05	19.75	1.01	18.74	13.28	0.862	0.947	2002.8	24.	10.	240.	480684.
	3	11.10	54.26	35.05	19.21	0.71	18.50	11.10	0.862	0.947	1643.0	24.	10.	240.	394320.
	3	5.56	53.95	35.05	18.90	1.27	17.63	14.84	0.856	0.953	2091.1	9.	11.	99.	207019.
	4	6.04	53.63	35.05	18.58	1.20	17.38	14.49	0.858	0.953	2016.0	10.	10.	100.	201596.
	4	5.27	53.35	35.05	18.30	1.17	17.18	14.04	0.860	0.952	1935.6	9.	10.	90.	174205.
	4	2.00	53.22	35.05	18.17	0.83	17.34	12.00	0.863	0.948	1667.7	4.	10.	40.	66709.
	5	2.00	53.30	35.05	18.25	0.83	17.42	12.00	0.863	0.948	1676.1	4.	10.	40.	67045.
	5	2.00	53.61	35.05	18.56	0.83	17.73	12.00	0.863	0.948	1706.6	4.	10.	40.	68264.
	5	2.00	54.10	35.05	19.14	0.83	18.31	12.00	0.863	0.949	1763.9	4.	11.	44.	77613.
	6	2.00	54.51	35.05	19.46	0.83	18.62	12.00	0.863	0.950	1795.7	4.	10.	40.	71826.
	6	2.00	54.98	35.05	19.93	0.83	19.10	12.00	0.878	0.951	1875.7	4.	10.	40.	75028.
	6	5.33	55.28	35.05	20.23	0.94	19.29	12.80	0.879	0.953	2026.0	10.	10.	100.	202602.
	7	3.29	55.75	35.05	20.70	0.99	19.70	13.16	0.879	0.954	2130.5	6.	10.	60.	127829.
	7	2.00	56.62	35.05	22.17	0.83	20.74	12.00	0.878	0.953	2040.6	4.	10.	40.	81623.
	7	2.00	57.83	35.05	22.78	0.83	21.34	12.00	0.878	0.954	2101.4	4.	11.	44.	92461.
	8	2.00	58.19	35.05	23.14	0.83	22.31	12.00	0.878	0.954	2162.0	4.	10.	40.	86481.
	8	2.00	58.93	35.05	23.88	0.83	23.05	12.00	0.878	0.954	2197.8	4.	10.	40.	87913.
	8	2.00	59.29	35.05	24.24	0.83	23.41	12.00	0.878	0.955	2271.7	4.	11.	44.	99956.
	9	2.00	59.44	35.05	24.39	0.77	23.62	11.50	0.878	0.955	2308.6	4.	10.	40.	92345.
	9	11.50	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.954	2229.0	24.	10.	240.	534964.
	9	12.00	59.44	35.05	24.39	0.77	23.61	11.50	0.877	0.955	2322.8	24.	10.	240.	557465.
	9	6.74	59.44	35.05	24.39	0.77	23.61	11.55	0.877	0.954	2238.0	14.	10.	140.	313317.
	10	5.90	59.44	35.05	24.39	0.80	23.58	11.80	0.878	0.955	2285.2	12.	10.	120.	274220.
	10	11.67	59.44	35.05	24.39	0.79	23.60	11.67	0.877	0.955	2259.9	24.	11.	264.	596624.
	10	5.61	59.38	35.05	24.33	0.73	23.60	11.23	0.876	0.954	2171.0	12.	10.	120.	260518.
	11	13.74	58.95	35.05	23.90	0.86	23.01	12.38	0.878	0.955	2342.6	24.	10.	240.	562232.
	11	10.65	58.57	35.05	23.52	0.65	22.87	10.65	0.875	0.952	1988.6	24.	10.	240.	477258.
	12	6.02	58.35	35.05	23.30	0.83	22.47	12.04	0.878	0.954	2220.8	12.	10.	120.	266494.
	12	5.27	58.15	35.05	23.10	0.76	22.34	11.49	0.877	0.954	2104.0	11.	10.	110.	231439.
	12	4.91	57.94	35.05	22.89	0.80	22.09	11.79	0.870	0.954	2136.2	10.	11.	110.	234978.
													TOTAL		9515711.
														4621.	

Table 4B-8 (17)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1971	1	6.57	57.67	35.05	22.62	0.85	21.77	12.13	0.878	0.954	2168.0	13.	10.	130.	281841.
	1	7.95	57.33	35.05	22.29	0.93	21.35	12.71	0.879	0.954	2231.3	15.	10.	150.	334698.
	3	10.15	56.88	35.05	21.83	0.59	21.24	10.15	0.873	0.949	1751.7	24.	11.	264.	462451.
	2	12.24	56.38	35.05	21.33	0.86	20.47	12.24	0.878	0.953	2054.1	24.	10.	240.	492977.
	2	11.91	55.89	35.05	20.84	0.32	20.02	11.91	0.878	0.952	1952.6	24.	10.	240.	468624.
	3	12.25	55.49	35.05	20.44	0.97	19.58	12.25	0.878	0.952	1965.9	24.	8.	192.	377440.
	3	12.57	54.98	35.05	19.93	0.91	19.02	12.57	0.879	0.952	1960.3	24.	10.	240.	470464.
	3	10.51	54.49	35.05	19.44	0.64	18.80	10.51	0.860	0.946	1575.2	24.	10.	240.	378044.
	3	9.57	53.97	35.05	18.92	1.18	17.74	14.36	0.858	0.953	2042.2	16.	11.	176.	359431.
	4	6.71	53.63	35.05	18.58	1.23	17.35	14.64	0.857	0.953	2032.0	11.	10.	110.	223525.
	4	5.32	53.35	35.05	18.30	1.15	17.15	14.19	0.859	0.952	1950.7	9.	10.	90.	175564.
	4	3.71	53.14	35.05	18.09	0.93	17.16	12.72	0.863	0.949	1751.8	7.	10.	70.	122623.
	5	2.00	53.02	35.05	17.97	0.83	17.14	12.00	0.863	0.947	1647.7	4.	10.	40.	65910.
	2	2.00	52.90	35.05	17.85	0.83	17.02	12.00	0.848	0.947	1606.6	4.	10.	40.	64263.
	3	17.60	52.01	35.05	16.96	1.06	15.91	13.62	0.844	0.948	1698.6	24.	11.	264.	448443.
	1	2.00	52.09	35.05	17.04	0.83	16.21	12.00	0.848	0.945	1528.4	4.	10.	40.	61135.
	6	2.00	52.16	35.05	17.11	0.93	16.28	12.00	0.848	0.945	1535.3	4.	10.	40.	61411.
	6	2.00	52.95	35.05	17.90	0.83	17.07	12.00	0.848	0.947	1611.4	4.	10.	40.	64457.
	7	2.00	53.78	35.05	18.73	0.83	17.90	12.00	0.863	0.949	1723.7	4.	10.	40.	68948.
	2	2.00	54.83	35.05	19.78	0.83	18.95	12.00	0.863	0.950	1827.3	4.	10.	40.	73092.
	3	2.00	55.86	35.05	20.81	0.83	19.98	12.00	0.878	0.952	1964.6	4.	11.	44.	86440.
	8	2.00	57.14	35.05	22.09	0.33	21.26	12.00	0.878	0.953	2092.9	4.	10.	40.	83715.
	8	2.00	57.57	35.05	22.52	0.33	21.69	12.00	0.878	0.954	2135.5	4.	10.	40.	85421.
	3	2.00	57.53	35.05	22.69	0.83	22.05	12.00	0.878	0.954	2172.2	4.	11.	44.	95578.
	1	2.00	58.23	35.05	23.18	0.83	22.35	12.00	0.878	0.954	2202.2	4.	10.	40.	88088.
	2	3.57	58.18	35.05	23.13	0.86	22.27	12.24	0.878	0.954	2238.7	7.	10.	70.	156706.
	3	5.82	58.17	35.05	23.12	0.78	22.34	11.64	0.877	0.954	2132.2	12.	10.	120.	255859.
	1	14.43	57.74	35.05	22.69	1.00	21.69	13.25	0.879	0.955	2362.8	24.	10.	240.	567077.
	2	2.00	57.72	35.05	22.67	0.83	21.84	12.00	0.878	0.954	2151.4	4.	10.	40.	86054.
	3	3.19	57.75	35.05	22.70	0.69	22.01	10.94	0.876	0.952	1967.9	7.	11.	77.	151531.
	1	4.80	57.59	35.05	22.54	0.77	21.77	11.52	0.877	0.953	2054.5	10.	10.	100.	205449.
	2	14.27	57.05	35.05	22.00	1.07	20.92	13.75	0.878	0.955	2364.0	24.	10.	240.	567357.
	3	10.88	56.61	35.05	21.56	0.68	20.97	10.88	0.876	0.951	1852.6	24.	10.	240.	444626.
	1	7.15	56.31	35.05	21.25	1.00	20.26	13.70	0.879	0.954	2196.1	13.	10.	130.	285595.
	2	5.57	56.07	35.05	21.02	1.02	20.00	13.37	0.879	0.954	2196.1	10.	10.	100.	219614.
	3	4.90	55.83	35.05	20.79	0.98	19.90	13.07	0.879	0.954	2126.6	9.	11.	99.	210531.
													TOTAL		8644964.



Table 4B-8 (18)

YEAR 1972	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1	6.47	55.56	35.05	20.51	0.96	19.55	12.94	0.879	0.953	2077.2	12.	10.	120.	249263.
	1	7.64	55.25	35.05	20.20	1.13	19.07	14.10	0.878	0.954	2207.6	13.	10.	130.	286990.
	1	9.69	54.81	35.05	19.76	1.07	18.69	13.68	0.861	0.953	2056.4	17.	11.	187.	384548.
	2	11.59	54.26	35.05	19.21	0.78	12.44	11.59	0.863	0.947	1713.3	24.	10.	240.	411198.
	2	11.26	53.73	35.05	18.68	0.73	17.95	11.26	0.862	0.949	1616.5	24.	10.	240.	387957.
	3	12.12	53.22	35.05	18.17	0.85	17.33	12.12	0.863	0.948	1683.5	24.	9.	216.	363640.
	3	13.10	52.60	35.05	17.55	0.98	16.57	13.10	0.846	0.948	1707.9	24.	10.	240.	409904.
	3	10.94	52.09	35.05	17.04	0.69	16.34	10.94	0.847	0.941	1396.5	24.	10.	240.	335162.
	3	9.38	51.32	35.05	16.27	1.00	15.76	13.24	0.846	0.946	1585.2	17.	11.	187.	296426.
	4	4.07	50.84	35.05	15.79	0.86	14.93	12.22	0.834	0.942	1404.6	8.	10.	80.	112371.
	4	4.88	50.29	35.05	15.23	0.97	14.26	13.02	0.832	0.942	1426.5	9.	10.	90.	128385.
	4	3.58	49.86	35.05	14.81	0.97	13.94	12.29	0.834	0.939	1314.4	7.	10.	70.	92010.
	5	2.00	49.42	35.05	14.57	0.83	13.74	12.00	0.835	0.937	1263.9	4.	10.	40.	50557.
	5	2.00	49.45	35.05	14.40	0.83	13.57	17.00	0.835	0.936	1247.7	4.	10.	40.	49908.
	5	14.52	47.76	35.05	12.71	0.81	11.91	11.83	0.820	0.927	1048.8	24.	11.	264.	276881.
	6	7.12	47.22	35.05	12.17	0.75	11.42	11.40	0.820	0.922	964.2	15.	10.	150.	144626.
	6	2.00	47.51	35.05	12.46	0.83	11.63	12.00	0.820	0.926	1038.4	4.	10.	40.	41536.
	6	2.00	48.44	35.05	13.39	0.83	12.56	12.00	0.820	0.931	1127.5	4.	10.	40.	45100.
	7	2.00	49.21	35.05	14.16	0.83	13.33	12.00	0.835	0.935	1224.4	4.	10.	40.	48978.
	7	2.00	52.04	35.05	16.99	0.93	16.16	12.00	0.848	0.945	1523.1	4.	11.	44.	60925.
	7	2.00	53.12	35.05	18.07	0.83	17.24	12.00	0.863	0.948	1657.8	4.	11.	44.	72944.
	8	2.00	54.14	35.05	19.09	0.83	18.26	12.00	0.863	0.949	1758.9	4.	10.	40.	70357.
	8	2.00	55.42	35.05	20.37	0.83	19.54	12.00	0.878	0.952	1920.3	4.	10.	40.	76813.
	8	2.00	57.12	35.05	22.07	0.83	21.24	12.00	0.878	0.952	1920.3	4.	11.	44.	91997.
	9	10.83	57.47	35.05	22.42	0.68	21.75	12.00	0.878	0.954	2119.5	4.	10.	40.	84779.
	9	2.00	58.02	35.05	22.97	0.83	22.14	12.00	0.878	0.952	1923.9	24.	10.	240.	461732.
	9	2.00	58.27	35.05	23.22	0.83	22.39	12.00	0.878	0.954	2180.9	4.	10.	40.	87237.
	10	9.06	58.14	35.05	23.09	0.84	22.24	12.08	0.878	0.954	2206.4	4.	10.	40.	88255.
	10	21.17	57.32	35.05	22.27	1.05	21.23	13.55	0.878	0.954	2207.1	18.	10.	180.	397286.
	10	13.07	57.06	35.05	22.01	0.98	21.03	13.07	0.879	0.955	2364.3	24.	11.	264.	624169.
	11	9.50	56.76	35.05	21.71	0.92	20.79	12.66	0.879	0.954	2260.7	24.	10.	240.	542576.
	11	2.00	56.72	35.05	21.67	0.83	20.84	12.00	0.878	0.954	2162.5	18.	10.	180.	389258.
	11	2.00	56.71	35.05	21.66	0.83	20.83	17.00	0.878	0.953	2050.6	4.	10.	40.	82026.
	12	3.99	56.55	35.05	21.50	0.83	20.68	11.97	0.878	0.953	2029.8	8.	10.	80.	81988.
	12	4.02	56.36	35.05	21.31	0.84	20.47	12.07	0.878	0.953	2025.2	8.	11.	88.	162382.
													TOTAL		7668366.
														4334.	

Table 4B-8 (19)

YEAR 1971	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	1	6.53	56.08	35.05	21.03	0.98	20.05	13.05	0.879	0.954	2150.8	12.	10.	120.	258096.
	1	7.59	55.77	35.05	20.72	0.97	19.75	13.01	0.879	0.954	2110.5	14.	10.	140.	295472.
	1	9.63	55.34	35.05	20.29	1.05	19.24	13.59	0.878	0.950	2146.6	17.	11.	187.	401416.
	2	11.52	54.87	35.05	19.82	0.77	19.05	11.52	0.877	0.950	1791.2	24.	10.	240.	429898.
	2	11.22	54.34	35.05	19.29	0.73	18.56	11.22	0.862	0.948	1667.2	24.	10.	240.	400130.
	2	12.03	53.89	35.05	18.84	0.83	18.01	12.03	0.863	0.949	1737.8	24.	8.	192.	333662.
	3	12.68	53.29	35.05	18.24	0.83	17.31	12.68	0.863	0.949	1762.7	24.	10.	240.	423056.
	3	10.61	52.78	35.05	17.73	0.65	17.08	10.61	0.845	0.942	1414.3	24.	10.	240.	339434.
	3	9.88	52.26	35.05	17.21	1.10	16.11	13.94	0.842	0.949	1759.8	17.	11.	187.	329080.
	4	7.07	51.91	35.05	16.86	0.98	15.88	13.05	0.847	0.947	1628.5	13.	10.	130.	211705.
	4	5.57	51.39	35.05	16.34	1.02	15.32	13.36	0.845	0.947	1604.8	10.	10.	100.	160476.
	4	3.48	50.96	35.05	15.91	0.82	15.09	11.93	0.835	0.941	1386.1	7.	10.	70.	97027.
	5	2.00	50.71	35.05	15.66	0.83	14.83	12.00	0.835	0.941	1370.1	4.	10.	40.	54802.
	5	2.00	50.94	35.05	15.89	0.83	15.06	12.00	0.935	0.941	1391.7	4.	10.	40.	55668.
	5	14.24	49.96	35.05	14.91	0.94	13.90	12.75	0.833	0.941	1368.2	24.	11.	264.	361212.
	6	21.83	47.71	35.05	12.66	0.80	11.86	11.80	0.820	0.926	1042.1	24.	10.	240.	250095.
	6	7.00	49.40	35.05	14.35	0.83	13.52	12.00	0.835	0.936	1242.8	4.	10.	40.	49710.
	6	14.04	48.58	35.05	13.53	0.85	12.77	12.17	0.819	0.932	1154.8	24.	10.	240.	277152.
	7	5.36	49.77	35.05	14.72	0.95	13.77	12.86	0.832	0.940	1358.5	10.	10.	100.	135853.
	7	2.00	52.31	35.05	17.26	0.83	16.43	12.00	0.848	0.946	1549.4	4.	10.	40.	61977.
	7	2.00	52.70	35.05	17.65	0.83	16.82	12.00	0.848	0.946	1587.5	4.	11.	44.	69851.
	8	2.00	53.21	35.05	18.16	0.83	17.33	12.00	0.863	0.948	1667.1	4.	10.	40.	66686.
	8	2.00	53.79	35.05	18.74	0.83	17.91	12.00	0.863	0.949	1724.1	4.	10.	40.	68944.
	8	2.00	55.79	35.05	20.74	0.83	19.91	12.00	0.878	0.952	1956.8	4.	11.	44.	86100.
	9	2.00	56.53	35.05	21.48	0.83	20.65	12.00	0.878	0.953	2031.8	4.	10.	40.	81273.
	9	2.00	57.15	35.05	22.10	0.83	21.27	12.00	0.878	0.953	2094.4	4.	10.	40.	83777.
	9	2.00	57.52	35.05	22.47	0.83	21.64	12.00	0.878	0.954	2130.9	4.	10.	40.	85237.
	10	2.00	57.86	35.05	22.81	0.83	21.98	12.00	0.878	0.954	2165.0	4.	10.	40.	86599.
	10	2.00	58.13	35.05	23.08	0.83	22.25	12.00	0.878	0.954	2191.7	4.	10.	40.	87668.
	10	2.00	58.28	35.05	23.23	0.83	22.40	12.00	0.878	0.954	2206.4	20.	11.	220.	485418.
	11	7.62	58.02	35.05	22.97	0.86	22.12	12.19	0.878	0.954	2213.7	15.	10.	150.	332056.
	11	8.35	57.74	35.05	22.69	0.90	21.78	12.53	0.879	0.954	2243.4	16.	10.	160.	358937.
	11	5.67	57.51	35.05	22.46	0.88	21.58	12.37	0.878	0.954	2192.0	11.	10.	110.	241115.
	12	6.07	57.27	35.05	22.22	0.85	21.37	12.13	0.878	0.954	2128.6	12.	10.	120.	255436.
	12	4.80	57.06	35.05	22.01	0.94	21.07	12.79	0.879	0.954	2214.7	9.	10.	90.	199323.
	12	4.35	56.85	35.05	21.80	0.98	20.82	13.04	0.879	0.954	2231.6	8.	11.	88.	196383.
													TOTAL	4396.	7710730.

Table 4B-8 (20)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
1974	1	5.82	56.60	35.05	21.55	0.93	20.62	12.70	0.879	0.954	2151.6	11.	10.	110.	236678.	
	1	7.01	56.31	35.05	21.26	0.96	20.29	12.94	0.879	0.954	2158.4	13.	10.	130.	280592.	
	3	9.07	55.90	35.05	20.85	1.05	19.79	13.60	0.878	0.954	2212.0	16.	11.	176.	389310.	
	2	11.07	55.44	35.05	20.39	0.71	19.68	11.07	0.876	0.950	1777.2	24.	10.	240.	426517.	
	2	10.78	55.00	35.05	19.95	0.67	19.28	10.78	0.875	0.948	1691.2	24.	10.	240.	405900.	
	3	11.57	54.59	35.05	19.54	0.77	18.77	11.57	0.863	0.949	1741.6	24.	8.	192.	334390.	
	3	12.20	54.01	35.05	18.96	0.86	18.10	12.20	0.863	0.949	1773.6	24.	10.	240.	425659.	
	3	10.19	53.51	35.05	18.46	0.59	17.87	10.19	0.858	0.943	1443.7	24.	10.	240.	346499.	
	3	8.82	53.04	35.05	17.99	1.13	16.86	14.11	0.841	0.951	1864.1	15.	11.	165.	307583.	
	4	5.83	52.74	35.05	17.69	1.11	16.58	13.98	0.842	0.950	1818.1	10.	10.	100.	181812.	
	4	4.62	52.49	35.05	17.44	1.09	16.35	13.86	0.843	0.950	1777.2	8.	10.	80.	142178.	
	4	3.21	52.31	35.05	17.26	0.95	16.31	12.85	0.847	0.947	1649.1	6.	10.	60.	98943.	
	5	2.00	52.19	35.05	17.14	0.83	16.31	12.00	0.848	0.945	1538.1	4.	10.	40.	61522.	
	5	2.00	52.09	35.05	17.04	0.83	16.21	12.00	0.848	0.945	1528.0	4.	10.	40.	61121.	
	5	2.00	52.16	35.05	17.11	0.83	16.28	12.00	0.848	0.945	1534.6	4.	11.	44.	67522.	
	6	2.00	52.35	35.05	17.30	0.83	16.47	12.00	0.848	0.946	1553.4	4.	10.	40.	62134.	
	6	4.65	52.61	35.05	17.56	1.10	16.46	13.94	0.842	0.950	1798.9	8.	10.	80.	143914.	
	3	2.00	53.00	35.05	17.95	0.83	17.12	12.00	0.863	0.950	1775.5	4.	10.	40.	65849.	
	7	2.00	54.30	35.05	19.25	0.83	18.42	12.00	0.863	0.950	1775.5	4.	10.	40.	71019.	
	2	2.00	55.14	35.05	20.09	0.83	19.26	12.00	0.878	0.951	1891.4	4.	10.	40.	75658.	
	3	2.00	55.76	35.05	20.71	0.83	19.88	12.00	0.878	0.952	1954.0	4.	11.	44.	85976.	
	8	2.00	56.29	35.05	21.24	0.83	20.41	12.00	0.878	0.953	2007.4	4.	10.	40.	80297.	
	2	2.00	57.79	35.05	22.74	0.83	21.91	12.00	0.878	0.954	2157.7	4.	10.	40.	86309.	
	8	2.00	58.23	35.05	23.18	0.83	22.35	12.00	0.878	0.954	2202.2	4.	11.	44.	96898.	
	9	2.00	58.86	35.05	23.81	0.83	27.98	12.00	0.878	0.955	2264.8	4.	10.	40.	90591.	
	9	8.23	59.44	35.05	24.39	0.78	23.61	11.62	0.877	0.955	2250.3	17.	10.	170.	382559.	
	9	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.	
	10	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.	
	10	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.	
	10	14.08	59.07	35.05	24.02	0.87	23.15	12.30	0.878	0.955	2339.4	24.	11.	264.	617615.	
	11	11.26	58.89	35.05	23.84	0.73	23.11	11.26	0.877	0.954	2131.9	24.	10.	240.	511659.	
	2	9.60	58.67	35.05	23.62	0.77	22.85	11.52	0.877	0.954	2158.4	20.	10.	200.	431683.	
	3	6.02	58.49	35.05	23.44	0.84	22.60	12.04	0.878	0.954	2234.6	12.	10.	120.	268156.	
	3	5.95	58.28	35.05	23.23	0.82	22.41	11.91	0.878	0.954	2190.9	12.	10.	120.	262906.	
	12	4.72	58.12	35.05	23.07	0.74	22.33	11.33	0.877	0.953	2071.0	10.	10.	100.	207097.	
	12	4.35	57.93	35.05	22.88	0.78	22.10	11.59	0.877	0.954	2099.5	9.	11.	99.	207848.	
													TOTAL		4578.	9186772.

Table 4B-8 (21)

YEAR 1975	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	1	5.77	57.68	35.05	22.63	0.91	21.72	12.60	0.879	0.955	2248.0	11.	10.	110.	247277.
1	1	5.87	57.43	35.05	22.38	0.80	21.58	11.74	0.877	0.953	2076.7	12.	10.	120.	249202.
1	1	9.06	57.02	35.05	21.97	0.94	21.02	12.80	0.879	0.954	2210.8	17.	11.	187.	413420.
2	1	10.69	56.57	35.05	21.52	0.66	20.86	10.69	0.875	0.950	1817.1	24.	10.	240.	436109.
2	2	10.41	56.14	35.05	21.09	0.62	20.47	10.41	0.874	0.949	1732.1	24.	10.	240.	415709.
3	1	11.15	55.78	35.05	20.73	0.72	20.01	11.15	0.876	0.950	1821.1	24.	8.	192.	349653.
3	1	11.76	55.29	35.05	20.24	0.80	19.44	11.76	0.878	0.951	1869.3	24.	10.	240.	448621.
3	2	9.83	54.88	35.05	19.83	1.09	18.73	13.88	0.860	0.953	2090.4	17.	10.	170.	355360.
3	3	9.05	54.39	35.05	19.34	1.20	18.14	14.48	0.858	0.954	2104.2	15.	11.	165.	347191.
4	1	6.40	54.06	35.05	19.01	1.11	17.90	13.97	0.860	0.953	2007.6	11.	10.	110.	220832.
4	2	5.06	53.78	35.05	18.73	1.04	17.70	13.48	0.862	0.952	1916.9	9.	10.	90.	172525.
4	3	3.29	53.59	35.05	18.54	0.99	17.55	13.16	0.863	0.951	1856.0	6.	10.	60.	111358.
5	1	2.00	53.90	35.05	18.85	0.83	18.02	12.00	0.863	0.949	1735.4	4.	10.	40.	69415.
5	2	2.00	54.30	35.05	19.25	0.83	18.42	12.00	0.863	0.950	1774.6	4.	10.	40.	70983.
5	3	2.00	54.66	35.05	19.61	0.83	18.78	12.00	0.863	0.950	1810.8	4.	11.	44.	79676.
6	1	2.00	55.35	35.05	20.30	0.83	19.47	12.00	0.878	0.952	1913.0	4.	10.	40.	76522.
6	2	2.00	55.92	35.05	20.87	0.83	20.04	12.00	0.878	0.952	1970.3	4.	10.	40.	78814.
6	3	2.00	56.45	35.05	21.40	0.83	20.57	12.00	0.878	0.953	2023.5	4.	10.	40.	80939.
7	1	2.00	56.85	35.05	21.80	0.83	20.97	12.00	0.878	0.953	2064.1	4.	10.	40.	82566.
7	2	2.00	57.35	35.05	22.30	0.83	21.47	12.00	0.878	0.954	2114.3	4.	10.	40.	84572.
7	3	2.00	57.79	35.05	22.74	0.83	21.91	12.00	0.878	0.954	2158.1	4.	11.	44.	94954.
8	1	2.00	58.44	35.05	23.39	0.83	22.56	12.00	0.878	0.954	2223.1	4.	10.	40.	88922.
8	2	2.00	58.96	35.05	23.91	0.83	23.08	12.00	0.878	0.955	2275.0	4.	10.	40.	91002.
8	3	5.01	59.44	35.05	24.39	0.69	23.69	10.94	0.876	0.954	2121.2	11.	11.	121.	256665.
9	1	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
9	2	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
9	3	11.12	59.25	35.05	24.20	0.72	23.48	11.12	0.876	0.954	2138.9	24.	10.	240.	513339.
10	1	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
10	2	6.54	59.44	35.05	24.39	0.73	23.66	11.21	0.876	0.954	2172.9	14.	10.	140.	304205.
10	3	15.63	59.04	35.05	23.99	0.87	23.11	12.32	0.978	0.955	2340.3	24.	11.	264.	617833.
11	1	10.95	59.14	35.05	24.09	0.69	23.40	10.95	0.876	0.953	2095.7	24.	10.	240.	502977.
11	2	12.98	58.76	35.05	23.71	0.90	22.81	12.52	0.879	0.955	2347.2	24.	10.	240.	563331.
11	3	10.51	58.38	35.05	23.33	0.64	22.70	10.51	0.875	0.952	1945.6	24.	10.	240.	466945.
12	1	6.92	58.12	35.05	23.07	0.81	22.26	11.86	0.878	0.954	2165.9	14.	10.	140.	303230.
12	2	5.36	57.92	35.05	22.87	0.79	22.08	11.70	0.877	0.954	2118.2	11.	10.	110.	233005.
12	3	4.60	57.69	35.05	22.64	0.87	21.77	12.27	0.878	0.954	2193.6	9.	11.	99.	217164.
													TOTAL		4926. 10316693.

Table 4B-8 (22)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(5)	(5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1976	1	6.34	57.42	35.05	22.37	0.92	21.45	12.67	0.879	0.954	2233.1	12.	10.	120.	267976.	
	1	7.35	57.11	35.05	22.06	0.91	21.15	12.59	0.879	0.954	2187.9	14.	10.	140.	306299.	
	1	9.59	56.68	35.05	21.63	0.94	20.69	12.79	0.879	0.954	2173.5	18.	11.	198.	430350.	
	2	11.82	56.20	35.05	21.15	0.81	20.34	11.82	0.878	0.952	1968.3	24.	10.	240.	472382.	
	2	11.48	55.73	35.05	20.68	0.76	19.91	11.48	0.877	0.951	1867.8	24.	10.	240.	448265.	
	2	12.35	55.28	35.05	20.23	0.88	19.35	12.35	0.878	0.952	1957.8	24.	9.	216.	422892.	
	3	13.34	54.71	35.05	19.66	1.02	18.64	13.34	0.862	0.953	2000.8	24.	10.	240.	480202.	
	3	11.14	54.17	35.05	19.12	0.72	18.40	11.14	0.862	0.947	1640.6	24.	10.	240.	393737.	
	3	9.58	53.66	35.05	18.61	1.18	17.43	14.37	0.858	0.953	2006.0	16.	11.	176.	353064.	
	4	1	6.27	53.34	18.29	1.06	17.22	13.67	0.861	0.951	1889.7	11.	10.	110.	207869.	
	4	4.94	53.07	35.05	18.02	0.99	17.03	13.18	0.846	0.949	1766.6	9.	10.	90.	158992.	
	4	3.06	52.89	35.05	17.84	0.86	16.98	12.25	0.848	0.947	1636.4	6.	10.	60.	98186.	
	5	2.00	52.77	35.05	17.72	0.83	16.89	12.00	0.848	0.946	1594.6	4.	10.	40.	63783.	
	5	2	2.00	52.67	17.62	0.83	16.79	12.00	0.848	0.946	1584.7	4.	10.	40.	63389.	
	5	3	3.57	52.46	17.56	1.16	16.40	14.27	0.839	0.950	1829.4	6.	11.	66.	120740.	
	6	1	9.56	52.46	17.41	1.04	16.37	13.50	0.845	0.949	1735.2	17.	10.	170.	294979.	
	6	6.02	53.54	35.05	18.49	1.20	17.30	14.45	0.858	0.953	2001.5	10.	10.	100.	200153.	
	7	4.89	53.92	35.05	18.87	1.24	17.64	14.67	0.857	0.953	2069.9	8.	10.	80.	165592.	
	7	2.00	54.63	35.05	19.58	0.83	18.75	12.00	0.863	0.950	1807.8	4.	10.	40.	72312.	
	7	2.00	55.22	35.05	20.17	0.83	19.34	12.00	0.878	0.951	1900.0	4.	10.	40.	75999.	
	7	2.00	55.73	35.05	20.68	0.83	19.85	12.00	0.878	0.952	1975.1	4.	10.	40.	85841.	
	8	2.00	56.51	35.05	21.46	0.83	20.09	12.00	0.878	0.952	1950.9	4.	10.	40.	79002.	
	8	2.00	56.75	35.05	21.70	0.83	20.87	12.00	0.878	0.953	2053.5	4.	10.	40.	81163.	
	8	2.00	57.26	35.05	22.21	0.83	21.38	12.00	0.878	0.954	2105.4	4.	10.	44.	90355.	
	9	2.00	57.84	35.05	22.79	0.83	21.96	12.00	0.878	0.954	2162.9	4.	10.	40.	84218.	
	9	2.00	58.26	35.05	23.21	0.83	22.38	12.00	0.878	0.954	2162.9	4.	10.	40.	86518.	
	9	2.00	58.35	35.05	23.30	0.83	22.47	12.00	0.878	0.954	2204.9	4.	10.	40.	88194.	
	10	2.00	58.43	35.05	23.69	0.72	22.97	12.00	0.878	0.954	2214.0	4.	10.	40.	88562.	
	10	5.12	58.74	35.05	23.69	0.83	22.55	12.00	0.878	0.954	2222.0	4.	10.	40.	88682.	
	10	14.31	58.33	35.05	23.28	0.95	22.34	11.82	0.876	0.954	2102.4	11.	11.	121.	254385.	
	11	11.67	57.97	35.05	22.92	0.79	22.13	11.67	0.877	0.955	2356.0	24.	10.	240.	565430.	
	11	8.67	57.66	35.05	22.61	0.86	21.74	12.24	0.878	0.954	2185.8	17.	10.	170.	508404.	
	12	5.77	57.44	35.05	22.39	0.91	21.48	12.59	0.879	0.954	2222.2	11.	10.	110.	371585.	
	12	4.55	57.25	35.05	22.20	0.85	21.35	12.13	0.879	0.954	2124.9	9.	10.	90.	244438.	
	12	4.22	57.04	35.05	21.99	0.92	21.07	17.65	0.879	0.954	2190.4	8.	11.	88.	191239.	
																192752.
																819814.
																4073.
																TOTAL

Table 4B-8 (23)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1977	1	5.78	56.79	35.05	21.74	0.91	20.83	12.60	0.879	0.954	2155.7	11.	10.	110.	237124.
	1	6.90	56.50	35.05	21.45	0.93	20.52	12.74	0.879	0.954	2146.6	13.	10.	130.	279052.
	1	8.93	56.10	35.05	21.05	1.03	20.02	13.40	0.879	0.954	2203.8	16.	11.	176.	387863.
	2	10.91	55.65	35.05	20.60	0.69	19.91	10.91	0.876	0.949	1770.4	24.	10.	240.	424890.
	2	10.62	55.22	35.05	20.17	0.65	19.52	10.62	0.875	0.948	1683.8	24.	10.	240.	404120.
	3	10.84	54.86	35.05	19.81	0.68	19.13	10.84	0.876	0.948	1687.4	24.	8.	192.	323990.
	3	11.07	54.39	35.05	19.29	0.71	18.57	11.07	0.862	0.947	1645.3	24.	10.	240.	394872.
	3	9.27	53.88	35.05	18.83	1.27	17.56	14.83	0.856	0.953	2081.7	15.	10.	150.	312254.
	3	8.84	53.40	35.05	18.35	1.14	17.21	14.14	0.859	0.952	1951.2	15.	11.	165.	321942.
	4	6.51	53.07	35.05	18.07	1.15	16.87	14.20	0.840	0.951	1875.1	11.	10.	110.	206263.
	4	5.17	52.80	35.05	17.75	1.08	16.66	13.79	0.843	0.950	1803.9	9.	10.	90.	162350.
	4	3.74	52.59	35.05	17.54	0.95	16.59	12.82	0.847	0.948	1674.4	7.	10.	70.	117210.
	5	2.00	52.47	35.05	17.42	0.83	16.59	12.00	0.848	0.946	1564.9	4.	10.	40.	62596.
	5	2.00	52.30	35.05	17.24	0.83	16.51	12.00	0.848	0.946	1556.9	4.	10.	40.	62278.
	5	8.70	52.31	35.05	17.26	1.10	16.16	13.92	0.842	0.949	1762.5	15.	11.	165.	290821.
	6	2.00	52.65	35.05	17.60	0.83	16.77	12.00	0.848	0.946	1582.5	4.	10.	40.	63299.
	6	4.55	52.74	35.05	17.69	1.06	16.62	13.66	0.844	0.950	1783.3	8.	10.	80.	142660.
	7	2.00	53.39	35.05	18.34	0.83	17.51	12.00	0.863	0.948	1684.2	4.	10.	40.	67369.
	7	2.00	54.46	35.05	19.41	0.83	18.58	12.00	0.863	0.950	1790.5	4.	10.	40.	71622.
	7	2.00	55.10	35.05	20.05	0.83	19.22	12.00	0.878	0.951	1888.1	4.	10.	40.	75524.
	7	2.00	56.71	35.05	21.66	0.83	20.83	12.00	0.878	0.953	2049.5	4.	11.	44.	90178.
	8	2.00	58.29	35.05	23.24	0.83	22.41	12.00	0.878	0.954	2208.2	4.	10.	40.	88327.
	8	3.71	59.44	35.05	24.39	0.72	23.67	11.12	0.876	0.954	2242.8	4.	10.	40.	89712.
	8	2.00	58.64	35.05	23.59	0.83	22.76	12.00	0.878	0.954	2242.8	4.	10.	40.	89712.
	9	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	189795.
	9	2.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	9	5.08	59.44	35.05	24.39	0.71	23.68	11.08	0.876	0.954	2148.6	11.	10.	110.	557465.
	10	4.24	59.44	35.05	24.39	0.74	23.64	11.32	0.877	0.954	2193.7	9.	10.	90.	236346.
	10	4.02	59.44	35.05	24.39	0.66	23.72	10.72	0.875	0.953	2079.9	9.	10.	90.	197435.
	10	4.41	59.44	35.05	24.39	0.80	23.59	11.75	0.877	0.955	2275.0	9.	11.	99.	187187.
	11	3.56	59.44	35.05	24.39	0.66	23.73	10.69	0.875	0.953	2073.0	8.	10.	80.	225224.
	11	2.99	59.32	35.05	24.27	0.83	23.45	11.96	0.878	0.955	2304.6	6.	10.	60.	165893.
	11	5.72	59.10	35.05	24.05	0.76	23.30	11.43	0.877	0.954	2183.3	12.	10.	120.	138275.
	12	3.60	58.95	35.05	23.90	0.67	23.23	10.80	0.875	0.954	2050.3	8.	10.	80.	262000.
	12	3.40	58.81	35.05	23.76	0.79	22.97	11.67	0.877	0.953	2199.5	7.	10.	70.	164026.
	12	3.29	58.65	35.05	23.60	0.74	22.87	11.29	0.877	0.954	2114.3	7.	11.	77.	153965.
													TOTAL	3966.	7874178.

Table 4B-8 (24)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1978	1	2.99	58.52	35.05	23.47	0.82	22.65	11.96	0.878	0.954	2223.5	6.	10.	60.	133412.
	1	4.53	58.34	35.05	23.29	0.84	22.45	12.08	0.878	0.954	2228.2	9.	10.	90.	200535.
	3	5.71	58.10	35.05	23.05	0.75	22.30	11.41	0.877	0.953	2085.0	12.	11.	132.	2752226.
	2	6.77	57.83	35.05	22.78	0.90	21.88	12.51	0.879	0.955	2249.1	13.	10.	130.	292387.
	2	6.60	57.54	35.05	22.49	0.86	21.64	12.18	0.878	0.954	2163.5	13.	10.	130.	281256.
	2	6.23	57.30	35.05	22.25	0.91	21.34	12.60	0.879	0.954	2209.2	13.	8.	104.	229760.
	3	5.88	57.03	35.05	21.93	0.95	21.03	12.83	0.879	0.954	2217.6	11.	10.	110.	243933.
	3	6.19	56.75	35.05	21.70	0.88	20.81	12.38	0.878	0.954	2114.4	12.	10.	120.	253724.
	3	5.53	56.46	35.05	21.41	1.02	20.39	13.39	0.879	0.954	2243.5	10.	11.	110.	246782.
	4	3.87	56.26	35.05	21.21	1.01	20.20	13.27	0.879	0.954	2203.1	7.	10.	70.	154217.
	4	3.07	56.09	35.05	21.04	0.97	20.17	12.29	0.878	0.953	2033.7	6.	10.	60.	122022.
	4	2.18	55.96	35.05	20.91	0.98	19.93	13.10	0.879	0.954	2144.6	4.	10.	40.	85784.
	5	2.00	55.85	35.05	20.80	0.83	19.97	12.00	0.878	0.952	1963.4	4.	10.	40.	78535.
	5	2.00	55.76	35.05	20.71	0.83	19.88	12.00	0.878	0.952	1954.3	4.	10.	40.	78173.
	5	3.00	55.20	35.05	20.15	1.06	19.09	13.64	0.878	0.954	2137.6	24.	11.	264.	564317.
	5	13.64	54.97	35.05	19.92	0.58	19.24	10.08	0.873	0.946	1570.6	24.	10.	240.	376951.
	6	10.08	54.87	35.05	19.54	0.95	18.59	12.87	0.863	0.952	1925.8	24.	10.	240.	462186.
	6	12.87	54.59	35.05	19.54	1.17	18.63	14.30	0.858	0.954	2130.0	8.	10.	80.	171040.
	6	4.77	54.85	35.05	19.80	1.18	18.57	14.39	0.858	0.954	2143.2	9.	10.	90.	192891.
	7	5.40	54.80	35.05	19.75	1.18	18.57	14.39	0.858	0.954	2143.2	9.	10.	90.	192891.
	7	2.00	55.30	35.05	20.25	0.83	19.42	12.00	0.878	0.952	1908.1	4.	10.	40.	76325.
	7	2.00	55.04	35.05	20.89	0.83	20.06	12.00	0.878	0.953	2033.0	4.	10.	40.	86782.
	8	2.00	56.74	35.05	21.69	0.83	21.48	12.00	0.878	0.954	2114.9	4.	10.	40.	82118.
	8	2.00	57.16	35.05	22.31	0.83	21.48	12.00	0.878	0.954	2114.9	4.	10.	40.	84595.
	8	2.00	59.61	35.05	23.56	0.83	22.73	12.00	0.878	0.954	2240.1	4.	10.	40.	98564.
	8	12.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	9	17.00	59.44	35.05	24.39	0.83	23.56	12.00	0.878	0.955	2322.8	24.	10.	240.	557465.
	9	11.56	59.44	35.05	24.39	0.77	23.61	11.56	0.877	0.954	2239.8	24.	10.	240.	537549.
	9	11.56	59.44	35.05	24.39	0.76	23.63	11.44	0.877	0.954	2216.1	18.	10.	180.	398891.
	10	4.53	59.44	35.05	24.39	0.68	23.70	10.87	0.876	0.954	2107.4	10.	10.	100.	210736.
	10	4.53	59.36	35.05	24.31	0.83	23.48	17.00	0.878	0.955	2315.7	4.	11.	44.	101890.
	10	7.82	59.08	35.05	24.03	0.79	23.24	11.73	0.877	0.955	2237.0	16.	10.	160.	357925.
	11	13.71	58.60	35.05	23.55	0.92	22.64	12.63	0.879	0.955	2350.7	24.	10.	240.	564158.
	11	10.27	58.24	35.05	23.19	0.60	22.58	10.27	0.874	0.951	1889.0	24.	10.	240.	453362.
	11	7.88	57.95	35.05	22.90	0.91	22.09	11.82	0.878	0.954	2141.6	16.	10.	160.	342651.
	12	6.23	57.69	35.05	22.64	0.89	21.74	12.45	0.878	0.954	2224.2	12.	10.	120.	266907.
	12	4.48	57.46	35.05	22.41	0.82	21.59	11.94	0.878	0.954	2114.3	9.	11.	99.	209313.
	12												TOTAL	4471.	9429811.

Table 4B-8 (25)

YEAR	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1970	1	8.70	57.10	35.05	22.05	0.87	21.19	12.28	0.878	0.954	2136.0	17.	10.	170.	363126.
	2	10.09	56.69	35.05	21.64	0.58	21.06	10.99	0.873	0.949	1725.2	24.	10.	240.	414039.
	3	11.96	56.17	35.05	21.12	0.83	20.29	11.96	0.878	0.952	1989.9	24.	11.	264.	525067.
	2	13.26	55.63	35.05	20.58	1.01	19.57	13.26	0.879	0.954	2131.4	24.	10.	240.	511532.
	2	12.92	55.11	35.05	20.06	0.96	19.10	12.92	0.879	0.953	2025.6	24.	10.	240.	486143.
	3	14.46	54.61	35.05	18.56	1.20	18.36	14.46	0.858	0.954	2128.8	24.	8.	192.	408731.
	3	15.66	53.87	35.05	18.82	1.18	17.64	14.39	0.858	0.953	2033.9	24.	10.	240.	488144.
	2	13.07	53.26	35.05	18.21	0.98	17.23	13.07	0.863	0.950	1808.7	24.	10.	240.	434078.
	3	11.13	52.67	35.05	17.62	0.72	16.90	11.13	0.847	0.944	1474.6	24.	11.	264.	389302.
	4	7.20	52.31	35.05	17.26	1.01	16.25	13.30	0.846	0.948	1697.7	13.	10.	130.	220704.
	4	5.69	52.02	35.05	16.97	1.06	15.91	13.67	0.844	0.948	1704.6	10.	10.	100.	170465.
	4	3.79	51.81	35.05	16.76	0.97	15.79	12.99	0.847	0.947	1611.8	7.	10.	70.	112827.
	5	2.00	51.56	35.05	16.51	0.83	15.68	12.00	0.848	0.944	1476.0	4.	10.	40.	59039.
	5	2.00	51.32	35.05	16.27	0.83	15.44	12.00	0.848	0.943	1451.9	4.	10.	40.	58077.
	3	17.05	49.43	35.05	14.38	0.90	13.48	12.53	0.833	0.938	1293.5	24.	11.	264.	341489.
	1	11.89	48.71	35.05	13.16	0.82	12.35	11.89	0.820	0.930	1096.6	24.	10.	240.	263175.
	2	11.72	47.24	35.05	12.19	0.79	11.40	11.72	0.820	0.923	991.5	24.	10.	240.	237958.
	3	2.55	47.71	35.05	12.66	0.60	12.06	10.21	0.815	0.918	902.9	6.	10.	60.	54175.
	7	2.00	49.28	35.05	14.23	0.83	13.40	12.00	0.835	0.936	1231.0	4.	10.	40.	49238.
	2	2.00	50.78	35.05	15.73	0.83	14.90	12.00	0.835	0.941	1376.9	4.	10.	40.	55077.
	3	2.00	50.86	35.05	15.81	0.83	14.98	12.00	0.835	0.941	1384.2	4.	11.	44.	60906.
	8	2.00	53.03	35.05	17.98	0.83	17.15	12.00	0.863	0.947	1648.9	4.	10.	40.	65958.
	2	2.00	54.18	35.05	19.13	0.83	18.30	12.00	0.863	0.949	1763.4	4.	10.	40.	70535.
	3	2.00	55.14	35.05	20.09	0.83	19.26	12.00	0.878	0.951	1891.5	4.	11.	44.	83225.
	9	2.00	55.60	35.05	20.55	0.83	19.72	12.00	0.878	0.952	1937.7	4.	10.	40.	77507.
	2	10.90	55.27	35.05	20.22	0.69	19.54	10.90	0.876	0.949	1733.9	24.	10.	240.	416146.
	3	2.00	55.63	35.05	20.58	0.83	19.75	12.00	0.878	0.952	1941.1	4.	10.	40.	77643.
	1	2.00	55.76	35.05	20.71	0.83	19.88	12.00	0.878	0.952	1953.8	4.	10.	40.	78153.
	2	21.80	54.96	35.05	19.91	1.27	18.64	14.84	0.856	0.954	2214.5	24.	10.	240.	531482.
	3	16.56	54.19	35.05	19.14	1.21	17.93	14.52	0.857	0.953	2086.0	24.	11.	264.	550712.
	11	11.58	53.67	35.05	18.62	0.78	17.84	11.58	0.863	0.947	1654.6	24.	10.	240.	397104.
	1	9.81	53.22	35.05	18.17	1.09	17.08	13.85	0.843	0.951	1857.6	17.	10.	170.	315788.
	3	7.36	52.88	35.05	17.83	1.05	16.78	13.59	0.844	0.950	1791.3	13.	10.	130.	232865.
	12	7.46	52.53	35.05	17.83	1.08	16.40	13.77	0.843	0.949	1772.1	13.	10.	130.	230377.
	2	5.86	52.25	35.05	17.20	1.12	16.08	14.06	0.841	0.949	1769.2	10.	10.	100.	176923.
	3	5.60	51.95	35.05	16.90	1.03	15.87	13.45	0.845	0.948	1675.0	10.	11.	110.	184249.
															TOTAL
															5266.



Table 4B-8 (26)

YEAR 1900	MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	1	7.71	51.32	35.05	16.27	1.00	15.26	13.23	0.846	0.946	1583.5	14.	10.	140.	221695.
1	1	9.24	50.37	35.05	15.32	0.98	14.34	13.04	0.832	0.943	1437.4	17.	10.	170.	244350.
1	1	11.63	49.10	35.05	14.05	0.76	13.29	11.43	0.820	0.932	1137.1	24.	11.	264.	300207.
2	1	13.31	47.47	35.05	12.42	0.79	11.63	11.70	0.820	0.925	1010.8	24.	10.	240.	242587.
2	2	4.67	47.24	35.05	12.19	0.73	11.47	11.22	0.820	0.921	952.0	10.	10.	100.	95196.
2	3	0.0	47.24	35.05	12.19	0.73	11.47	0.0	0.008	0.009	0.0	4.	9.	36.	0.
3	1	0.0	47.24	35.05	12.19	0.73	11.47	0.0	0.000	0.000	0.0	4.	10.	40.	0.
3	2	0.0	47.24	35.05	12.19	0.73	11.47	0.0	0.000	0.000	0.0	4.	10.	40.	0.
3	3	0.0	47.24	35.05	12.19	0.73	11.47	0.0	0.000	0.000	0.0	4.	10.	40.	0.
4	1	0.0	47.24	35.05	12.19	0.73	11.47	0.0	0.000	0.000	0.0	4.	10.	44.	0.
4	2	0.0	47.24	35.05	12.19	0.73	11.47	0.0	0.000	0.000	0.0	4.	10.	40.	0.
4	3	0.0	47.24	35.05	12.19	0.73	11.47	0.0	0.000	0.000	0.0	4.	10.	40.	0.
5	1	0.47	47.24	35.05	12.19	0.73	11.47	2.80	0.000	0.000	0.0	4.	10.	40.	0.
5	2	0.19	47.24	35.05	12.19	0.73	11.47	1.14	0.000	0.000	0.0	4.	10.	40.	0.
5	3	1.91	47.24	35.05	12.19	0.76	11.43	11.49	0.820	0.922	973.4	4.	11.	44.	42830.
6	1	2.00	47.88	35.05	12.83	0.83	12.00	12.00	0.820	0.928	1074.1	4.	10.	40.	42965.
6	2	3.15	48.52	35.05	13.47	0.67	12.79	10.78	0.810	0.925	1024.3	7.	10.	70.	71702.
6	3	2.00	49.96	35.05	14.91	0.83	14.08	12.00	0.835	0.938	1296.8	4.	10.	40.	51874.
7	1	2.00	51.33	35.05	16.28	0.83	15.45	12.00	0.848	0.943	1453.4	4.	10.	40.	58137.
7	2	2.00	52.69	35.05	17.64	0.83	16.81	12.00	0.848	0.946	1586.1	4.	10.	40.	63445.
7	3	2.00	53.63	35.05	18.58	0.83	17.75	12.00	0.863	0.948	1708.0	4.	11.	44.	75154.
8	1	2.00	54.38	35.05	19.33	0.83	18.50	12.00	0.863	0.950	1783.2	4.	10.	40.	71327.
8	2	2.00	55.17	35.05	20.12	0.83	19.29	12.00	0.878	0.951	1894.9	4.	10.	40.	75797.
8	3	2.00	57.49	35.05	22.44	0.83	21.61	12.00	0.878	0.954	2128.2	4.	11.	44.	93642.
9	1	2.00	58.20	35.05	23.15	0.83	22.32	12.00	0.878	0.954	2198.9	4.	10.	40.	87954.
9	2	2.00	58.88	35.05	23.83	0.83	23.00	12.00	0.878	0.955	2267.0	4.	10.	40.	90680.
9	3	2.00	59.02	35.05	23.97	0.83	23.14	12.00	0.878	0.955	2281.2	4.	10.	40.	91249.
10	1	2.00	59.30	35.05	24.25	0.83	23.42	12.00	0.878	0.955	2308.9	4.	10.	40.	92355.
10	2	4.63	59.44	35.05	24.39	0.71	23.67	11.10	0.876	0.954	2153.0	10.	10.	100.	215305.
10	3	20.19	58.73	35.05	23.68	0.90	22.78	12.54	0.879	0.955	2347.8	24.	11.	264.	619825.
11	1	15.16	58.30	35.05	22.90	0.82	22.30	12.85	0.879	0.955	2356.6	24.	10.	240.	565584.
11	2	11.91	57.95	35.05	22.90	0.82	22.08	11.91	0.878	0.954	2159.0	24.	10.	240.	518170.
11	3	7.69	57.79	35.05	22.74	0.87	21.87	12.31	0.878	0.954	2211.5	15.	10.	150.	331722.
12	1	6.98	57.50	35.05	22.45	0.82	21.62	11.96	0.878	0.954	2122.0	14.	10.	140.	297083.
12	2	5.42	57.26	35.05	22.21	0.81	21.41	11.82	0.878	0.953	2074.3	11.	10.	110.	228174.
12	3	5.12	57.02	35.05	21.97	0.87	21.09	12.30	0.878	0.954	2129.2	10.	11.	110.	234213.
													TOTAL	3230.	5123212.

FIGURE 4C-1 FARM PRACTICES AND FARM INPUTS, PADDY, WITH PROJECT, IN FUTURE

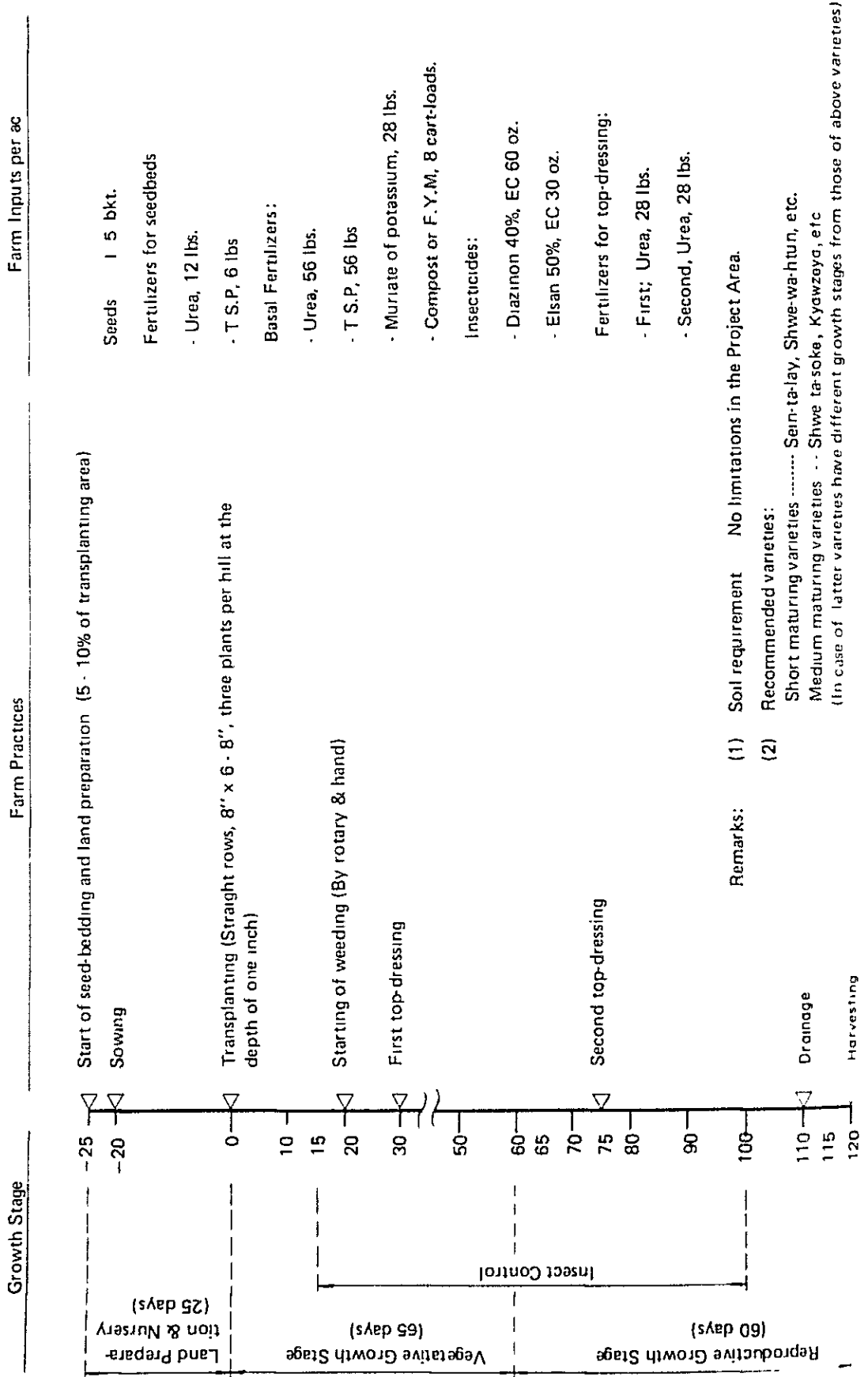


FIGURE 4C 2 FARM PRACTICES AND FARM INPUTS, SUNFLOWER WITH PROJECT IN FUTURE

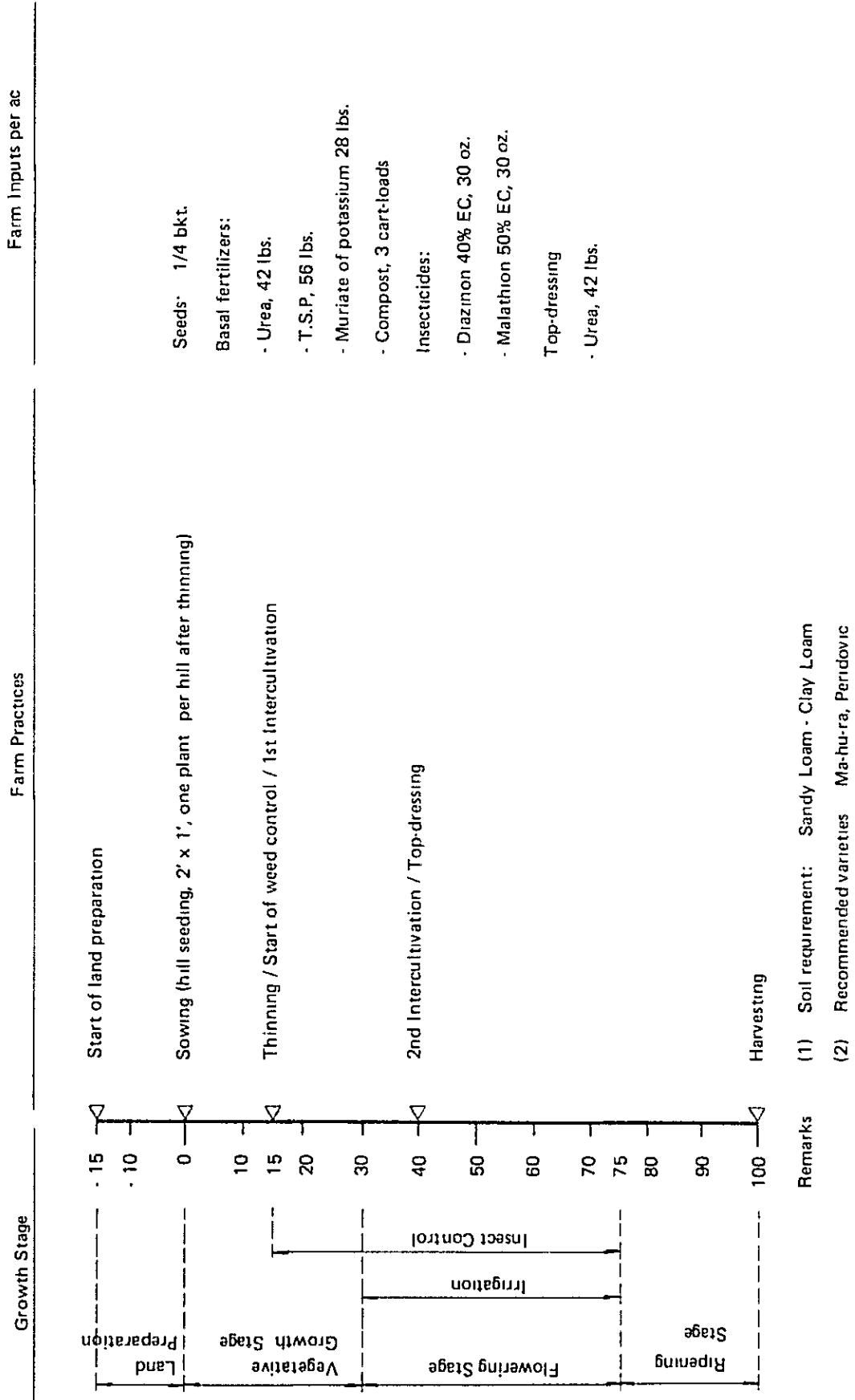


FIGURE 4C-3. FARM PRACTICES AND FARM INPUTS, GROUNDNUT, WITH PROJECT, IN FUTURE

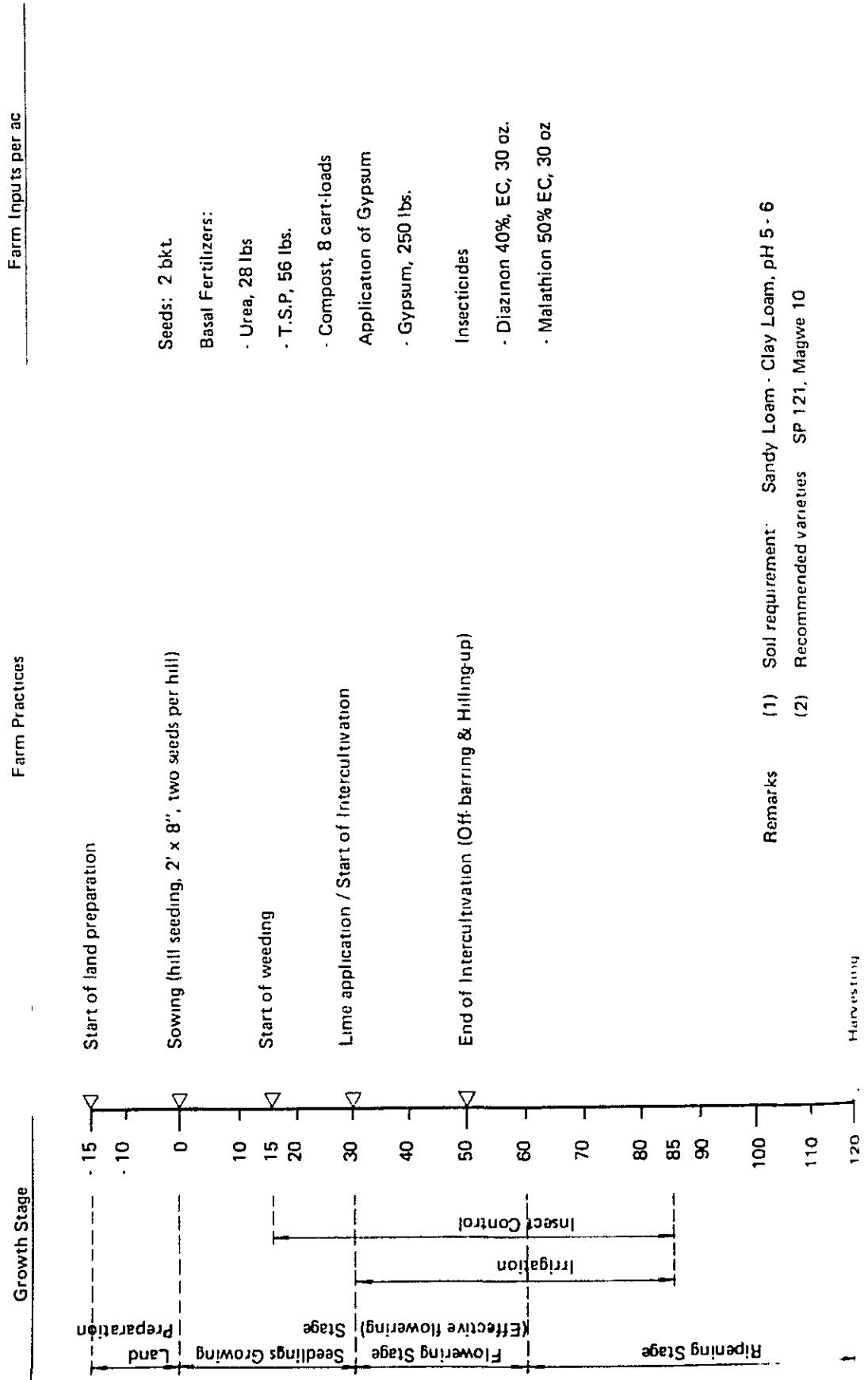
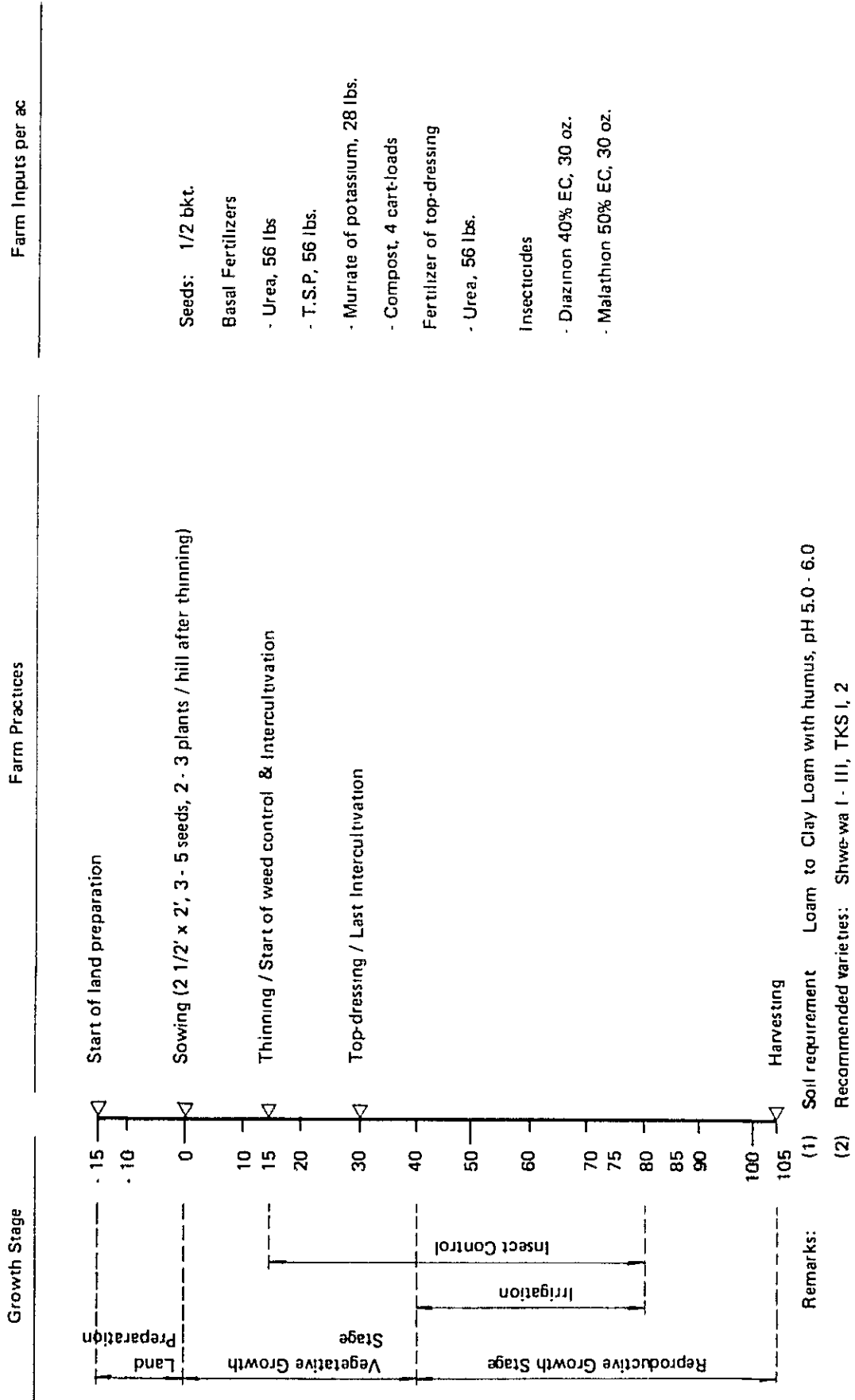


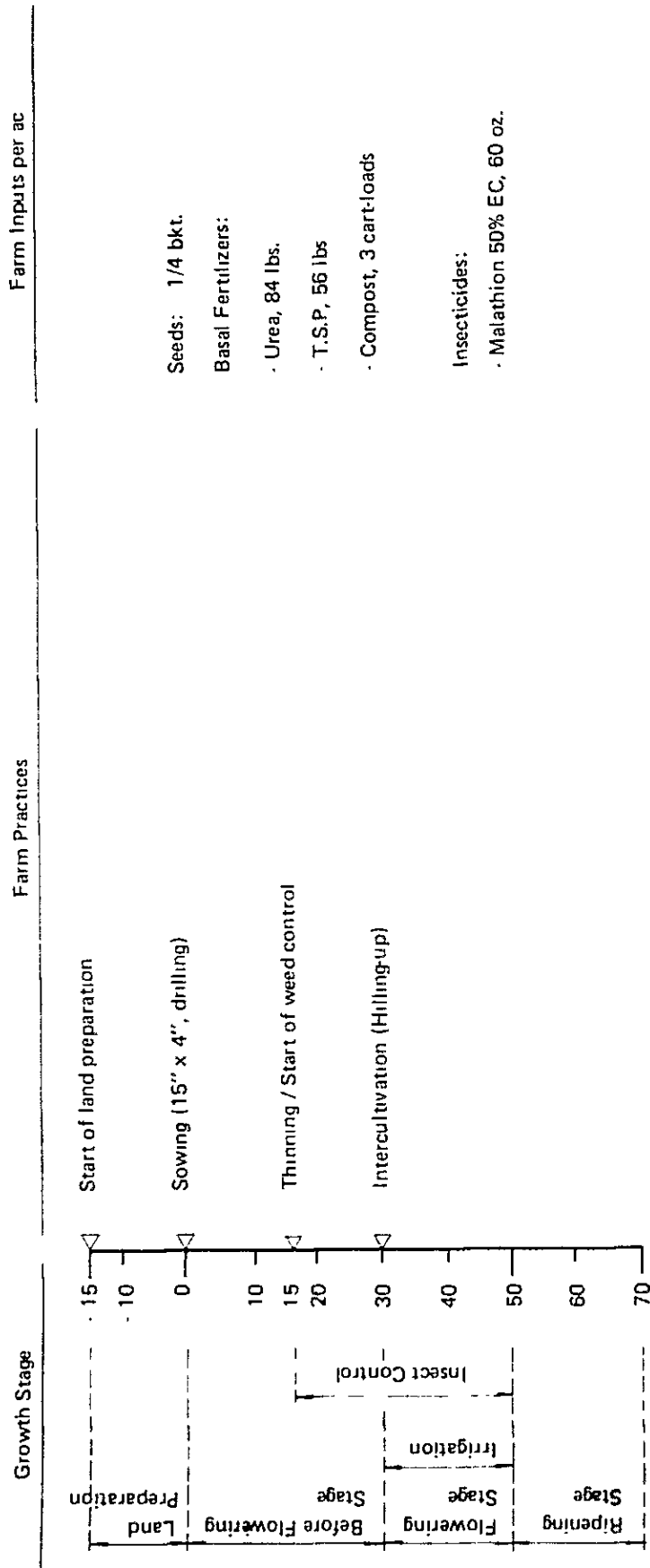
FIGURE 4C 4 FARM PRACTICES AND FARM INPUTS, MAIZE WITH PROJECT IN FUTURE



Remarks:

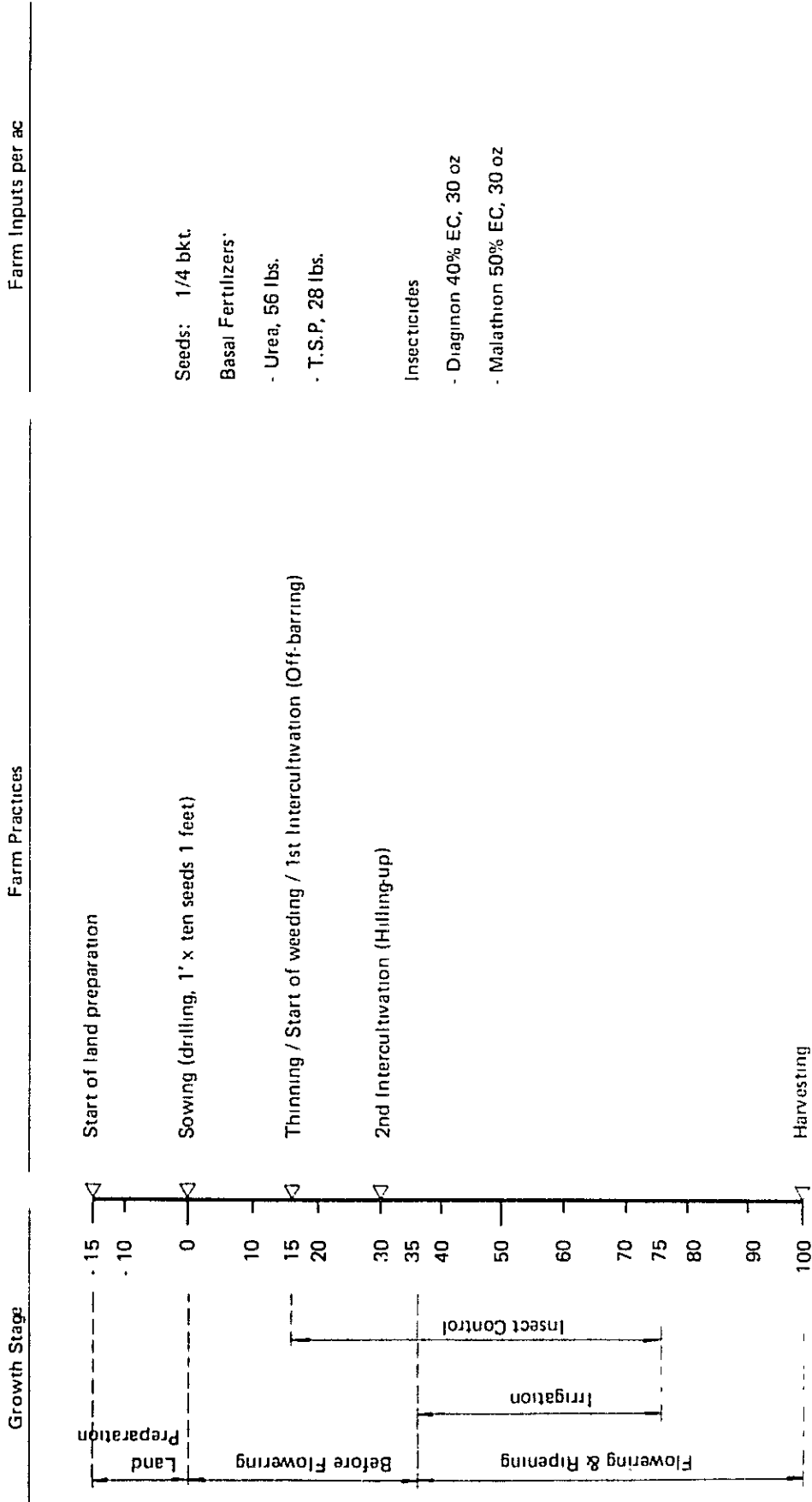
- (1) Soil requirement Loam to Clay Loam with humus, pH 5.0 - 6.0
- (2) Recommended varieties: Shwe-wa I - III, TKS I, 2

FIGURE 4C-5. FARM PRACTICES AND FARM INPUTS, SESAMUM, WITH PROJECT, IN FUTURE



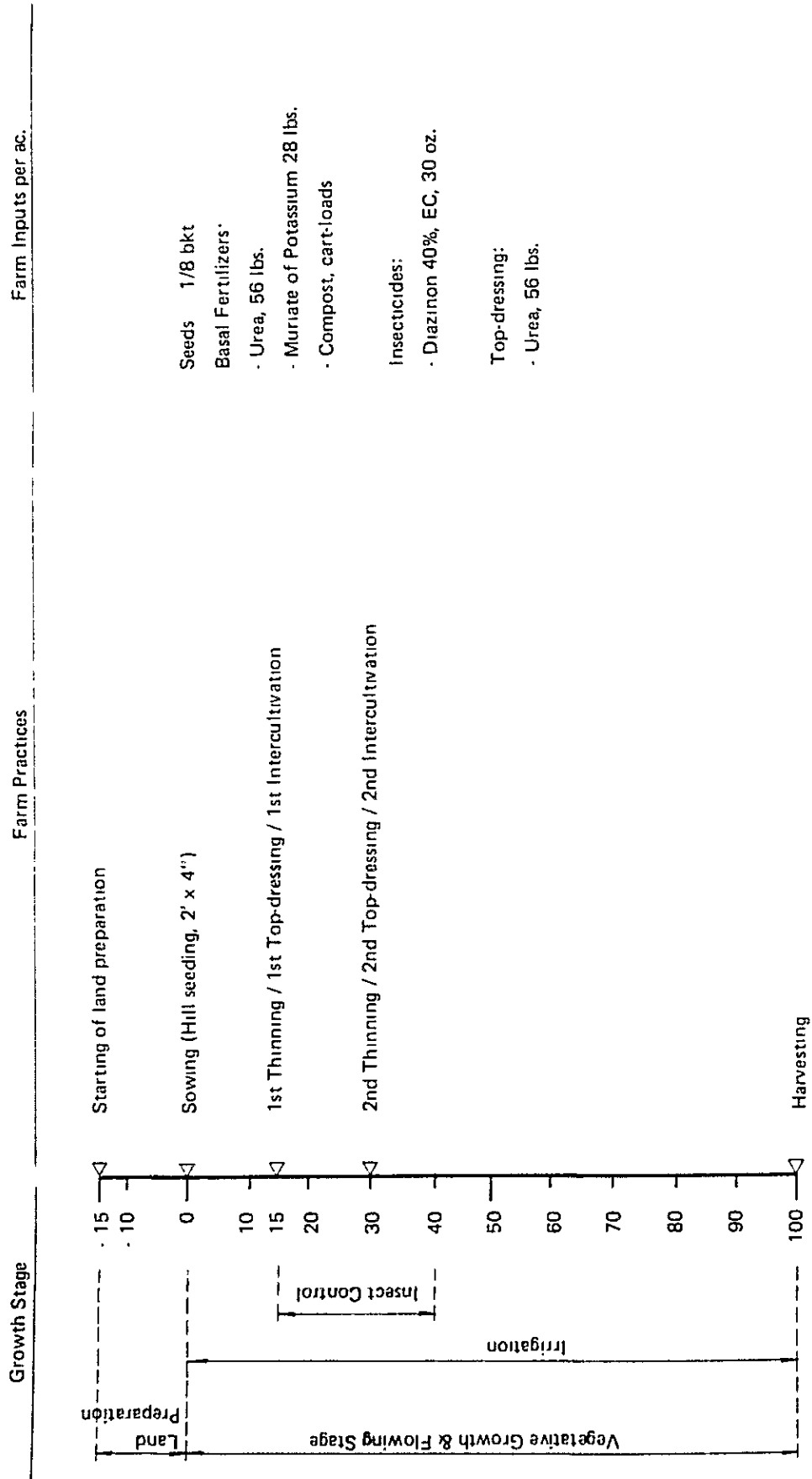
Remarks. (1) Soil requirement: Sandy Loam · Clay Loam  
(2) Recommended varieties Hnamn 25/160

FIGURE 4C 6 FARM PRACTICES AND FARM INPUTS MATPE WITH PROJECT IN FUTURE



Remarks: (1) Soil requirement. Silty Loam Clay Loam, pH 5.8 - 6.5  
(2) Recommended varieties P11 30, Henzada

FIGURE 4C-7. FARM PRACTICES AND FARM INPUTS, JUTE (PRE-MONSOON), WITH PROJECT, IN FUTURE



Remarks (1) Soil requirement Clay Loam  
(2) Recommended varieties Shwe-ni Mya sein Yoe-sain



Target Yield of Selected Crops "with Project"

A. Paddy

1. Experimental Yield

Following experimental yield at each level of applied urea were used to have the quadratic equation for the regression between yield (y) and amount of applied urea (x);

Paddy Yield at Each Level of Applied Urea

(Unit: lbs per acre)

Season	Applied Urea (lbs per acre)				
	0	30	60	90	120
Wet	3,041	3,584	4,054	4,597	4,305

Source: See Table \_\_\_\_\_.

The quadratic equation for the above data is shown as follows:

$$Y = 2,979.86 + 27.0129x - 0.1267x^2$$

(The curve for the equation is shown in the attached figure 1)

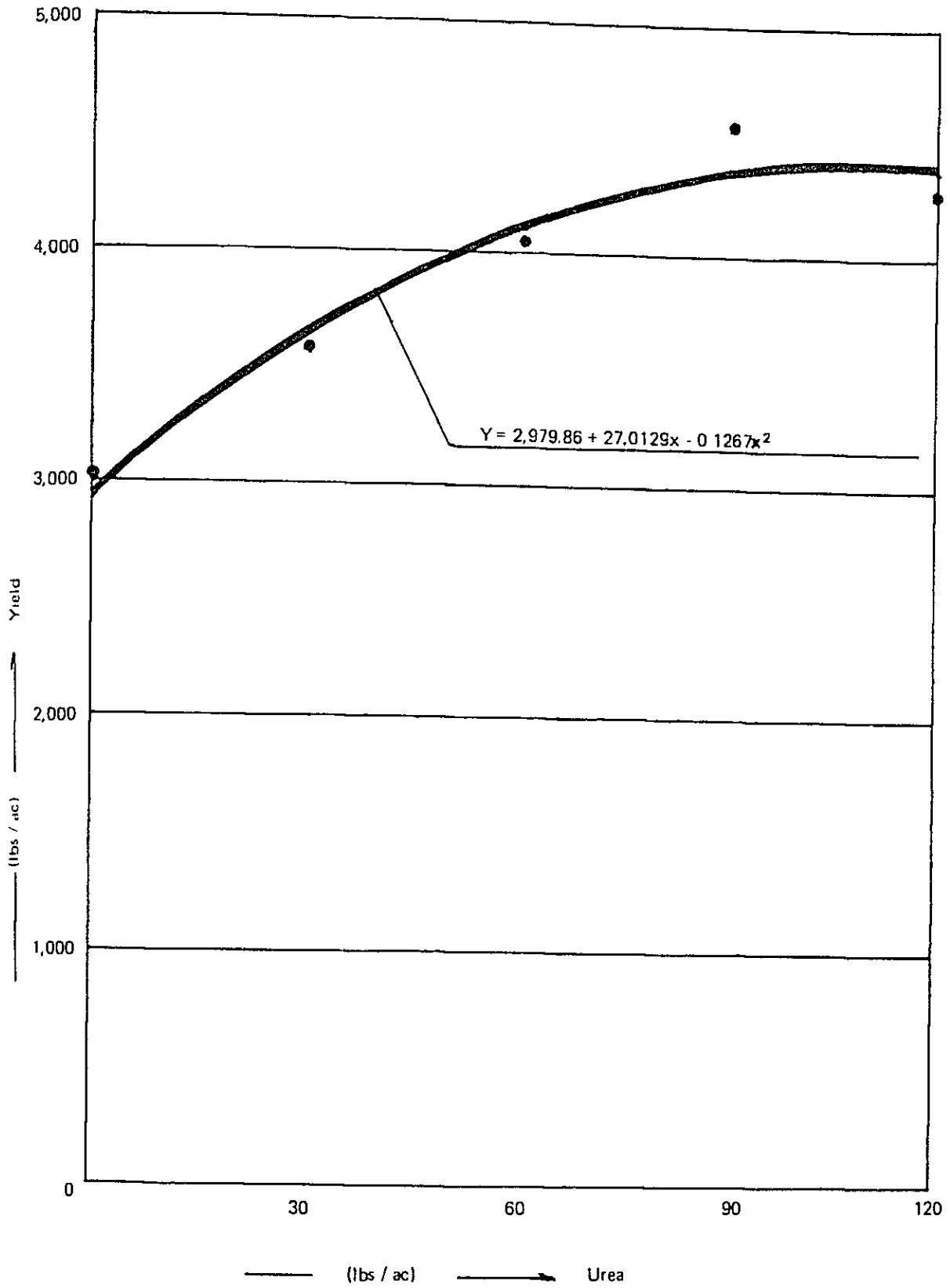
2. Attained Yield in the Project and Its Vicinity

There are very few data to assess the potential of paddy yield "with Project" in the Project Area. According to the Agricultural Corporation (AC) in Taikkyi township, some ten farmers attained the yield of wet season paddy at about 200 baskets (9,200 lbs) per acre by applying fertilizers at the rate of 112 lbs (urea) - 56 lbs (TSP) - 28 lbs (muriate of potassium, M.O.P.) in recent years. The average yield for the "Special HYVs" under the Wolle Township Paddy Production Development Project (WTPPDP) was 70.3 basket (5,234 lbs) per acre during three years from 1977/78 to 1979/80. As for the

Table 4C-1 Experimental Yield of Wet Season Paddy

No.	Variety	Experiment Station	Dosage of Fertilizer (lbs/ac)			Yield (lbs/acre)
			Urea	TSP	MP	
1.	Manawhari-2	Hmawbi (1978/79)	0	0	0	3,704
			40	40	40	3,973
			60	40	40	4,155
			80	40	40	4,572
			100	40	40	4,491
2.	Manawhari (Mashuri)	Myaungmya (1979/80)	0	0	0	2,920
			30	30	30	4,380
			60	60	60	4,437
			90	90	90	5,042
			120	120	120	4,642
3.	Schwetatun (Mutant of IR-5)	Myaungmya (1975/76)	0	100	90	2,666
			40	100	90	3,573
			80	100	90	5,572
			120	100	90	4,279
4.	Seintalay	Hmawbi (1975/76)	0	100	90	2,958
			40	100	90	3,417
			80	100	90	3,809
			120	100	90	3,910
5.	Ngwetoe	Mandalay (1970/71)	0	0	0	2,569
			30	30	30	3,002
			60	60	60	3,570
			90	60	60	4,152
			120	60	60	4,390
6.	Average		0	α	α	3,041 (66 BF)
			30	"	"	3,584 (78 BF)
			60	"	"	4,054 (88 BF)
			90	"	"	4,597 (100 BF)
			120	"	"	4,305 (91 BF)

Source: AC, ARD (Gyogon)



RELATIONSHIP BETWEEN YIELD AND APPLIED UREA

yield by variety of the "Special HYVs", "Shwe-wa-tun" and some other HYVs recorded the yield as much as more than 80 basket per acre averagely in both years of 1979/80 and 1980/81 and the yield of "Shwe-ta-soku" was more than 70 basket per acre. They were grown in the rainfed conditions and the standard of the distributed fertilizers was 84-56-14 (lbs per acre).

Under such circumstances, it is assumed that the present yield will be increased to the experimental yield shown in the previous item because irrigation and drainage conditioned will be improved and also adequate supporting services will be rendered by the Project.

### 3. Yield at Optimum Amount of Nitrogen Application

Optimum amount of urea application and their yields for the attainable yields in the Project Area are estimated as follows:

The quadratic equation for the attainable yields;

$$Y = 2,979.86 + 27.0129x - 0.1267x^2$$

$$\text{Opt. urea (lbs/ac)} = \frac{27.0129 \times P_y - P_n}{2(0.1267 \times P_y)} = \underline{104 \text{ lbs}}$$

Where  $P_y = 1.36$  kyats (economic price of paddy per pound)

$P_n = 1.34$  kyats (economic price of urea per pound)

Yield at 104 lbs of the urea application = 4,418.8 lbs

### 4. Estimated Yield by Land Class

The above yield at optimum amount of urea is regarded as the potential yield "with Project". The yield at different land classes are estimated as follows:

Target Yield by Land Class

<u>Land Class</u>	<u>Estimated Productivity</u>		<u>Target Yield</u> (lbs/ac)
	<u>Range</u> (%)	<u>Ave. of Rating</u> (%)	
Potential	100	100	4,419 (96 bkt)
IR	95-100	97.5	4,300 (94 bkt)
2R	85- 95	90.0	3,977 (86 bkt)
3R	75- 85	80.0	3,535 (77 bkt)

In the Project Area, almost all paddy field will be belong to the first class land. Then, the yield of 94 bkt for the first class land is regarded as the target yield of the Project Area where two types of paddy HYVs are plan to be introduced. The target yield of each type of paddy HYV is set up as follows;

- (i) Short maturing varieties: 100 bkt/ac
- (ii) Medium maturing varieties: 90 bkt/ac

B. Upland Crops

The available data to estimate the potential yields of the respective upland crops "with Project" are quite limited in the Project Area and its vicinity. Then the experimental yields of the Central Farms in Upper Burma as shown in Table are referred to assess the potential yields. The followings show the potential yields and target yields in the basis of the experimental yields.

Potential Yield and Target Yield

<u>Crop</u>	<u>Unit</u>	<u>Potential</u>	<u>Target</u>
1. Sunflower	bkt (32 lbs)	35	30
2. Groundnut	bkt (25 lbs)	70	50
3. Matpe	bkt (72 lbs)	12	10
4. Maize	bkt (55 lbs)	79	75
5. Sesame	bkt (54 lbs)	15	10
6. Jute	Viss (36 lbs)	490	350

Table 4C-2 Experimental Yields of Selected Upland Crops

<u>Crop</u>	<u>Variety</u>	<u>Fertilizer Dosage</u>		<u>Yield (lbs)</u>	<u>Experimental Farm</u>	
		<u>Urea</u>	<u>T.S.P.</u>			<u>M.O.P.</u>
1. Sunflower	Mahuya	112	84	56	1,089 (35 bkt)	Tatkon, 1978/79
2. Groundnut	Nagwe-10	30	30	-	1,754 (70 bkt)	Magwe, 1978/79
3. Matpe	P11-30	56	56	28	864 (12 bkt)	Tatkon, (with complete land consolidation)
4. Maize	Takon Cross 1	80	80	-	4,320 (79 bkt)	Hcho, 1979/80
5. Sesame	Hnanni 25/160	56	56	0	825 (15 bkt)	Magwe, 1980/81
6. Jute	Tay Za	30	10	30	1,770 (490 viss)	Myaung Nya, 1979/80

Source: AC, ARD (Gyogon)

Table 4C-5 Labor Requirement by Crop per Acre, with Project, in Future

(Unit: man-day per acre)

<u>Crop</u>		<u>JAN.</u>	<u>FEB.</u>	<u>MAR.</u>	<u>APR.</u>	<u>MAY</u>	<u>JUN.</u>	<u>JUL.</u>	<u>AUG.</u>	<u>SEP.</u>	<u>OCT.</u>	<u>NOV.</u>	<u>DEC.</u>	<u>Total</u>
<b>A W/ Mechanization</b>														
1	Paddy (S)	6.3	7.9	18.0	6.5	2.5	11.0	13.5	2.4	2.4	9.0	9.7		50.3
2	Sunflower											6.1	11.0	55.8
3	Groundnut	3.6	3.2	14.3	20.9	2.9						8.0	11.5	64.4
4	Peas & Beans	3.3	4.5	10.8	3.3							4.7	8.2	34.8
5	Paddy (M)					2.0	8.3	13.5	4.4	3.3	3.3	9.6	7.1	50.3
6	Maize	7.2	3.2	4.4	9.2	2.6						0.2	5.8	32.6
7	Sesamum	1.3	7.5	8.2	8.2	15.4	3.2							43.8
8	Paddy (S-J)						5.4	12.8	9.3	2.2	2.3	12.2	6.1	50.3
9	Jute	3.9	9.2	6.7	3.2	20.6	25.7	2.1						71.4
<b>B W/O Mechanization</b>														
1	Paddy (S)													56.0
2	Sunflower												12.9	59.5
3	Groundnut	6.3	5.2	14.3	20.9	2.9						15.0	15.4	72.0
4	Peas & Beans	3.3	4.5	10.8	3.3							6.5	10.1	58.5
5	Paddy (M)					2.3	9.0	13.8	5.3	3.6	2.6	11.0	8.4	56.0
6	Maize	8.7	3.2	5.3	14.1	5.5						0.5	7.7	45.0
7	Sesamum	1.8	9.7	10.2	8.2	15.4	3.2							48.5
8	Paddy (S-J)						6.0	13.7	10.2	2.6	2.7	13.6	7.2	56.0
9	Jute	4.8	10.9	7.7	3.2	20.6	25.7	2.1						75.0

Table 4C-4 Labor Requirement by Crop, with Project, in Future  
(with and without Mechanization)

(Unit: '000 man-day)

Crop	Area ( '000 ac)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	Total
<b>A W/ Mechanization</b>														
1 Paddy (S)	(30) 5.5			13.75	60.50	73.15	13.20	49.50	53.35					276.65
2 Sunflower	(0) 0.0													0.00
3 Groundnut	(100) 8.1	29.16	25.92	115.83	169.29	25.49						64.80	93.15	521.64
4 Peas & Beans	(0) 0.0													0.00
5 Paddy (M)	(30) 8.8			17.60	73.04	117.04	38.72	29.04	20.24	84.48	62.48	1.50	43.50	442.64
6 Maize	(50) 7.5	54.00	24.00	35.00	69.00	19.50								244.50
7 Sesamum	(30) 4.4	5.72	33.00	36.08	67.76	14.08								192.72
8 Paddy (S-J)	(30) 1.1					5.94	14.08	10.25	2.42	2.53	13.42	6.71		55.33
9 Jute	(30) 1.0	3.90	9.20	6.70	3.20	20.60	25.70	2.10						71.40
Sub-total		92.78	92.12	191.61	277.57	162.70	179.26	206.37	62.15	44.66	72.27	217.55	205.84	1,804.88
<b>B W/O Mechanization</b>														
1 Paddy (S)	(70) 13.0			36.40	153.40	187.20	36.40	56.40	132.60	145.60				728.00
2 Sunflower	(100) 4.7	29.61	37.13	84.60	30.55							57.13	60.63	279.65
3 Groundnut	(0) 0.0													0.00
4 Peas & Beans	(100) 4.7	15.51	21.15	50.76	15.51							30.55	47.47	180.95
5 Paddy (M)	(70) 20.9			48.07	188.10	288.42	110.77	75.24	54.34	229.90	175.56	3.25	50.05	1,170.40
6 Maize	(50) 6.5	56.55	20.80	34.45	91.65	55.75								292.50
7 Sesamum	(70) 10.4	18.72	100.88	106.08	85.28	160.16	33.28							504.40
8 Paddy (S-J)	(70) 2.6					15.60	35.62	26.52	6.76	7.02	35.36	18.72		145.60
9 Jute	(30) 2.5	12.00	27.25	19.25	8.00	51.50	64.25	5.25						187.50
Sub-total		152.59	207.21	295.14	230.99	331.88	454.63	516.49	173.69	118.40	193.96	481.79	352.45	3,489.00
Total		225.17	299.33	486.75	508.56	494.58	633.89	722.86	235.84	163.06	266.23	699.34	558.27	5,293.88

Note: 1. Area coverage of "with mechanization" or "without mechanization"



## Farm Mechanization Plan

### 1. Mechanization Area

Taking into consideration the expected farm labor balance of farming in the Project Area, the mechanization areas of the respective crops should be limited to the minimum level as shown in Table 4C-5. The proposed farm operation systems of respective crops after completion of the Project are shown in the above table, where only such specified operations as land preparation, threshing and spraying for the selected crops are planned to be mechanized with the area coverage of 50 percent of the total cropping area besides groundnut and maize. In case of groundnut and maize, the area coverages of mechanization are set up at 100 percent and 50 percent respectively, to break the expected peak labor demand

The mechanization of land preparation in this case does not mean full mechanization. Namely, the combination use of tractors and draft animals will be applied as shown as follows

### 2. Selection of Farm Machineries

#### 2.1. Tractors and Attachments

50HP class four-wheel tractors are selected for the mechanization of land preparation. The local-made tractors are available and used most commonly throughout Burma. According to AMD Tractor Station in Taikkyi township, present tractor operation for land preparation is limited mostly to the harrowing works with disc harrow because there is usually no need for plowing works under the conditions of the prevailing light textured soils. But the deep plowing will be required to improve soil fertility with the Project. The combination use of tractors and draft animals will be applied for the land preparation works in order to minimize the

Table 4C-5 Proposed Farm Operation Systems

Operation	With Mechanization					Without Mechanization					
	Paddy (50%)*	G'nut (100%)	Maize (50%)	Sesamum (30%)	Jute (30%)	Paddy (70%)	Sun-flower (100%)	Peas & Beans (100%)	Maize (50%)	Sesamum (70%)	Jute (70%)
1 Plowing	T+D.P(1)	T+D.P(1)	T+D.P(1)	T+D.P(1)	T+D.P(1)	A+P(1)	A+P(1)	A+P(1)	A+P(1)	A+P(1)	A+P(1)
2 Soil Breaking	A+H(1)	T+D.H(2)	T+D.H(1)	T+D.H(1)	T+D.H(1)	A+H(1)	A+H(1)	A+H(2)	A+H(1)	A+H(2)	A+H(2)
3 Harrowing	A+H(1)	A+H(2)	A+H(1)	A+H(2)	A+H(2)	A+H(1)	A+H(1)	A+H(2)	A+H(1)	A+H(2)	A+H(2)
4 Leveling	A+L(1)	A+L(1)	-	A+L(1)	A+L(1)	A+L(1)	-	-	-	A+L(1)	A+L(1)
5 Furrow Making	-	A+P	A+P	A+P	A+P	-	A+P	A+P	A+P	A+P	A+P
6 Sowing/Planting	M	M	M	M	M	M	M	M	M	M	M
7 Spraying	P.S	P.S	P.S	P.S	P.S	H.S	H.S	H.S	H.S	H.S	H.S
8 Needing/Inter-cultivation	R.W	M	A+P	M	M	R.W	A+P	M	M	M	M
9 Harvesting	M	M	M	M	M	M	M	M	M	M	M
10 Threshing	P.T	M	M.C.S	M	-	A	M	M	M	M	-
11 Drying	S	S	S	S	S	S	S	S	S	S	S
12 Transportation	A	A	A	A	A	A	A	A	A	A	A

Note: (1) T=Tractor, A=Animal Power, D.P=Disc Plow, D.H=Disc Harrow, P=Plow, L=Leveling Instrument, M=Man Power, P.S=Power Sprayer, H.S=Hand Sprayer, R.W=Rotary Weeder P.T=Power Thresher, H.C.S=Hand Corn Sheller, S=Sun Drying

(2) The figures in the parenthesis show number of layer

(3) \* Area coverage

number of tractors to be introduced in the Project Area. Followings show the procedure of land preparation and the equipment to be used.

- |  |   |
|--|---|
| a) Plowing (one passing)                       | 50 HP class tractor + Disc plow (3 x 26")       |
| b) Soil breaking <sup>1/</sup><br>(cross-wise) | 50 HP class tractor + Disc harrow<br>(16 x 24") |
| c) Harrowing                                   | Draft animals + Harrow                          |
| d) Leveling                                    | Draft animals + Leveler                         |

Note: <sup>1/</sup> In case of paddy, tractor use will be limited to plowing works only because of wet soils at the operation time.

For the soil breaking works, two passings of disc harrow (cross-wise) will be made besides groundnut. Groundnut cropping requires to prepare the lands with more finely crushed soils than other crops. Then, double passings in cross-wise operation are proposed.

## 2.2. Power Threshers

Recently, local-made power threshers have been developed, and in order to reduce the peak demand of farm labor in November and December when harvesting of paddy and land preparation works for upland crops overlap each other, the power threshers are planned to be introduced into 30 percent of paddy cropping area. The local-made threshers have the operation capacity of 20 to 30 baskets per hour.

## 2.3. Power Sprayers

The controlled areas of insects will be increased very much after completion of the Project and more timely control will be required. In this connection, the introduction of power sprayers are planned to cover at least 30 percent of the Project Area.

### 3. Required Numbers of Farm Machines

The working capacity and efficiency of the respective farm machines to be introduced are estimated and shown in Table 4C-6, in referring to the efficiency data available in case of paddy cultivation in Japan and other Southeast Asian countries.

The total number of farm machines required is determined as follows:

Machinery	Crop	(1)	(2)	(3)	(4) = (2) x (3)	(5) = (1) / (4)
		Area Coverage (ac)	Workable Days (day)	Capacity <sup>1/</sup> (ac/day)	Operation Area per Unit (ac)	Required Unit
a) Tractors	Groundnut	8,100 <sup>4/</sup>	60	2.22 <sup>2/</sup>	133.2	61
	Maize	7,500 <sup>5/</sup>	60	3.05 <sup>3/</sup>	181.8	41
	<u>Total</u>					<u>102</u>
b) Power Threshers	Paddy	14,300 <sup>6/</sup>	70	1.20	84.0	179
c) Power Sprayers	Paddy and Others	15,570 <sup>7/</sup>	6	7.69	46.1	340

- Note: <sup>1/</sup> Based on the capacity in Table  
<sup>2/</sup> One passing of disc plow + four passings of disc harrow  
<sup>3/</sup> One passing of disc plow + two passings of disc harrow  
<sup>4/</sup>, <sup>5/</sup> Tractors can be used exclusively for land preparation of groundnut (100% of area coverage) and maize (50% of area coverage) from early November to late January.  
<sup>6/</sup> Threshers can be used exclusively for threshing of paddy (30% of total cropping except the area of paddy followed by Jute)  
<sup>7/</sup> Total net area sown x 30% of area coverage

Table 4C-6 Estimated farm Operation Efficiency

Operation	Implement <sup>s</sup>	(1) Effective Ope. width (m)	(2) Ope. Speed (km/hr)	(3)= (1)x(2)/10 Theoretic Ope Capacity (ha/hr)	(4) Efficiency in Field (%)	(5)= (3)x(4) Ope. Capacity in Field (ha/hr)	(6) Actual Ope. Capacity (ha/hr)	(7)= (5)x(6) Actual Capacity (ha/hr)	(8) Hours per ha (hr/ha)	(9) Ope. Times (time)	(10)= (8)x(9) Hours per ha (hr/ha)	(11) Ope Hours per day (hr/day)	(12)=(10)÷ (11)x0.4047 Days per ac (day/ac)
1. Plowing (T) <sup>1/</sup>	Disc plow (3x26")	0.75	5.0	0.375	80	0.300	80	0.340	3.2	1	4.2	5	0.21
2. Plowing (A) <sup>2/</sup>	Plow	0.20	2.5	0.050	84	0.042	80	0.054	29.4	1	29.4	6	1.96
3. Breaking (T)	Disc harrow (2x8x24")	2.5	5.5	1.265	80	1.012	80	0.810	1.2	2	2.4	8	0.12
4. Harrowing (A)	Harrow	0.8	2.5	0.200	80	0.160	80	0.128	7.8	2	15.6	6	1.05
5. Threshing	Power thresher	-	-	Paddy 0.52 ton	80	Paddy 0.42 ton	75	Paddy 0.5 ton	-	-	-	-	-
6. Spraying	Portable power sprayer	6.0	2.7	1.62	56	0.916	80	0.493	2.0	1	2.0	6	0.15
7. Transportation (A)	Cart	-	-	0.5 ton	80	0.24 ton	-	0.24 ton	-	-	-	-	-

Note 1/ T = Tractor

2/ A = Animal Power

3/ Efficiency outside field

#### 4. Ownership of Farm Machines and Operation Costs

Tractors and their attachments will be owned by AMD Tractor Stations and also by village tract cooperatives. The contract-base tractor services will be rendered to farmers with fixed rate of charge, which would be the subsidized charges like the presents tractor charges. But threshers and sprayers will be owned only by cooperatives. In this case, machineries will be rent at the fixed charges and farmers will operate machineries by themselves.

The economic cost of tractor operation on the basis of the above contract-base services the rental cost of threshers and sprayers are estimated as shown Table 4C-7.

Table 1C-7 Estimation on Machinery (cost)

Item	Mechanized Area (x1,000 ac)	With Tractor			Power Thresher	Power Sprayer
		T + Disc Plow	T + Disc + Harrow	Total (Tractor)		
1 Annual Working Hours of Machines per Unit						
1 Required number of Units in the Project		102	102	102	179	540
2 Total Acre-turn(x1,000)						
(1) Paddy (S,M,S-J)	15.4	15.4	-	15.4	15.4	15.4
(2) Groundnut	8.1	8.1	16.2	24.3	-	8.1
(3) Maize	7.5	7.5	7.5	15.0	-	7.5
(4) Sesamun	4.4	4.4	4.4	8.8	-	4.4
(5) Jute	1.0	1.0	1.0	2.0	-	1.0
Total	36.4	36.4	29.1	65.5	15.4	36.4
3 Ave. Acre-turn per Unit (2 ÷ 1)		357	285	642	86	107
4 Working Hours per Acre-turn		1.68	0.96	-	7.04	1.04
5 Annual Working Hours per Unit (3 x 4)		600	275	600+275=875	605	111

Note: 1/ One acre-turn is counted for cross-wise operation in case of "Tractor + Disc Harrow"

2 Fixed Cost per Working Hour

Machinery	Unit Price (kyats)	Durable Year (year)	Fixed Cost per Unit			Annual Working Hours per Unit (hr)	Cost per Hour (kyats/hr)
			Depreciation (kyats)	Repair <sup>2/</sup> (kyats)	Others <sup>3/</sup> (kyats)		
(1) Tractor							
- Tractor (50HP class)	54,000	8	6,075 (7%)	3,780	540	10,395	11.88
- Disc plow	4,000	5	720 (4%)	160	40	920	1.53
- Disc harrow	7,400	5	1,332 (4%)	296	74	1,702	6.19
(2) Power thresher							
	12,000	8	1,350 (3%)	360	120	1,830	5.02
(3)+Power sprayer							
	9,000	5	1,620 (4%)	360	90	2,070	107 x 3 6.45

Note: 1/ Unit price x 0.9 ÷ durable year (source of price : AMD)

2/ Unit price x the percents in parenthesis

3/ Unit price x 0.01



3 Variable Cost per Acre-turn

<u>Operation</u>	<u>Machinery</u>	<u>Fuel Consumption</u>			Unit Price (klyats/l <sup>1</sup> )	Fuel Cost (klyats/ac)	Fuel Cost Inclusive of Oil <sup>1/</sup> (klyats/ac)
		Op. Hours (hr)	Consumption Rate (l/hr)	Amount (l)			
(1) Plowing	Tractor+ Disc Plow	1.68	0 5.5	9.4	0.90	8.46	10.15
(2) Soil Breaking (Cross-wise)	Tractor+Harrow	0.96	0 4.5	4.3	0.90	3.87	4.64
(3) Threshing	Power Thresher	7.04	0 2.0	14.1	0.90	12.69	15.25
(4) Sprayer	Power Sprayer	1.04	0 2.0	2.1	0.90	1.89	2.26

Note: <sup>1/</sup> fuel cost x 1.2

4 Machinery Cost by Operation

Operation	Machinery	Opn. Hours per Acre-turn (hr/ac)	Per Hours (kyats/hr)	Fixed Cost <sup>1/</sup> Acre-turn (kyats/ac)	(1)	(2)	(3)=(1)+(2)	(4) <sup>4/</sup>	(5)=(3)+(4)
					Variable Cost (kyats/ac)	Machinery Cost (kyats/ac)	Operator Cost (kyats/ac)	Total Cost	
(1) Plowing	Tractor+ Disc Plow	1.68	(T)	11.88	19.96				
			(D.P)	1.55	2.57				1/
			(Total)		22.53	10.15	32.68	3.15	35.83
(2) Soil Breaking	Tractor+ Disc Harrow	0.96	(T)	11.88	11.41				
			(D.P)	6.19	5.94				1/
			(Total)		17.35	4.64	21.99	1.80	23.79
(3) Threshing	Power Thresher	7.04	(Total)	5.02	21.26 <sup>2/</sup>	15.23	56.49	56.49 <sup>2/</sup>	
			(Total)		6.45	6.71 <sup>2/</sup>	2.26	8.97	8.97 <sup>2/</sup>
(4) Spraying	Power Sprayer	1.04							

Note: 1/ Operation charge in the contracted base

2/ Rental fee 3/ (T): Tractor, (D.P): Disc plow, (D.H): Disc Harrow

4/ Calculated as ope hours per acre-turn x 15 Kyats/8 hours (day)

Table 4C-8 Farm Inputs Requirement in the Project Area

Crop	Area ( '000 ac)	Seeds ( '000 lbs)	Fertilizer			Insecticides ( '000 oz)
			Urea ( '000 lbs)	T.S.P. ( '000 lbs)	M.O.P. ( '000 lbs)	
1. Paddy	51.9	( 69) 3,581	(112) 5,813	(56) 2,906	(28) 1,453	(90) 4,671
2. Sunflower	4.7	( 8) 38	( 84) 395	(56) 263	(28) 132	(60) 282
3. Groundnut	8.2	(150) 1,230	( 28) 230	(56) 459	( 0) 0	(60) 492
4. Peas & Beans (Matpe)	4.7	( 18) 85	( 56) 263	(28) 132	( 0) 0	(60) 282
5. Maize	14.0	( 14) 196	(112) 1,568	(56) 784	(28) 592	(60) 840
6. Sesamum	14.8	( 18) 266	( 84) 1,243	(56) 829	( 0) 0	(60) 888
7. Jute	3.5	( 4) 14	(112) 392	( 0) 0	(28) 98	(30) 105
<u>Total</u>	<u>101.8</u>	<u>5,410</u>	<u>9,904</u>	<u>5,373</u>	<u>2,075</u>	<u>7,560</u>

Note: (1) The figures in the parenthesis show the each amount of inputs per acre  
(See Appendix figure )