No. 85

COMPLETE LIFE TABLES FOR PAKISTAN AND PROVINCES: 1962-1965

by

Farhat Yusuf
Naseem Iqbal Farooqui

October 1969

Pakistan Institute of Development Economics
Old Sind Assembly Bldg., Bunder Rd.,
Karachi-1, Pakistan

COMPLETE LIFE TABLES FOR PAKISTAN AND PROVINCES: 1962-1965

by

Farhat Yusuf*
Naseem Iqbal Farooqui

INTRODUCTION

In view of the importance of life tables in demographic and actuarial work we have presented in this paper alternate sets of complete life tables for Pakistan and its provinces. These life tables are based on the demographic data collected by the Population Growth Estimation Project (PGE) during the four years of its operations: 1962-1965. Although abridged life tables based

---

* Dr. Yusuf is Senior Research Demographer and Mr. Farooqui is a Staff Demographer at the Pakistan Institute of Development Economics. The authors wish to acknowledge their gratitude to Mr. Mushafeq-us-Salaheen of the National Bank of Pakistan for making available the IBM 1401 computer facilities.

on one, two and three years' PGE data are available[1], this is the first attempt to prepare alternate sets of complete life tables.

DATA

In PGE information about vital events (births and deaths) was collected through two independent systems of data collection, that is, the registration system (LR) and the enumeration system (CS), while the base population statistics were collected only through the CS system [2]. Vital events statistics collected through the LR and CS systems were matched[3] and the data were adjusted by using a probability model to account for vital events missed by both the systems of data collection[4]. The LR, CS and the

---

1. See [3,4,20], also see Khan's life tables for the former province of Punjab [9].

2. For methodological details of the PGE Project see [1,11].

3. For details of matching operations see [14].

4. As a result of matching the LR and CS reports of vital events, all confirmed vital events were classified into three categories:

   (a) matched events,
   (b) non-matched LR events, and
   (c) non-matched CS events.

   From these three categories an estimate of the number of events missed by both the LR and CS systems was derived, under the assumption that the two systems were statistically independent, by dividing the product of categories (b) and (c) by category (a). For details of the Chandra-Deming (CD) formula see [6].

adjusted vital events - in PGE terminology they were referred to as Chandra-Deming (CD) events, and the mid year populations reported for each sample area were multiplied by appropriate raising factors to arrive at the provincial and national estimates[5].

The following four years' PGE data[6] were utilized in the preparation of life tables: (a) the LR estimates of deaths by sex and age of deceased, (b) the CD estimates of deaths by sex and age of deceased, (c) the LR estimates of live births by sex of the baby, (d) and CD estimates of live births by sex of the baby and (e) the CS estimates of mid year populations by sex and age. We have deliberately not utilized the CS mortality data because we believe that the CS estimates of mortality were too low[7].

LIMITATIONS OF THE DATA

As expected PGE data were subject to many sampling and non-sampling errors [3,11,18,19].

Table I shows some estimates of the sampling errors in the selected age-sex specific death rates based on the LR and CD estimates for East and West Pakistan. It appears from the table that the age specific death rates for males in East Pakistan showed a greater

---

5. For details of estimation procedures see [18].

6. The 1962-63 data were taken from [11] and the 1964-65 data were taken from [15,16,17].

7. See chapter 9 of [11].

TABLE I - SOME MEASURES OF RELIABILITY OF THE LR AND CD AGE-SEX SPECIFIC DEATH RATES FOR EAST AND WEST PAKISTAN

Province	Sytem	Age Range	MALES			FEMALES		
			Rate	SE*	CV**	Rate	SE*	CV**
East Pakistan	LR	0	.154338	.013311	.085630	.122180	.014704	.123750
		1-14	.008315	.002014	.250850	.009809	.001926	.166480
		15-44	.003640	.008920	.243260	.006213	.007260	.120880
		45+	.030940	.003819	.121440	.031065	.003747	.122620
	CD	0	.158700	.017790	.090546	.125100	.016923	.114913
		1-14	.010130	.002184	.205838	.012501	.002262	.166974
		15-44	.004216	.008215	.196758	.007617	.006465	.084257
		45+	.036152	.003860	.102056	.035533	.004500	.126322
West Pakistan	LR	0	.139530	.010203	.089280	.145964	.018655	.138260
		1-14	.007714	.001237	.201840	.011476	.002242	.220910
		15-44	.003593	.006585	.188250	.005167	.005325	.113810
		45+	.023286	.003720	.164700	.022021	.002390	.126240
	CD	0	.129100	.081755	.061218	.126900	.016342	.114538
		1-14	.009906	.008615	.094641	.014897	.001876	.132244
		15-44	.004619	.000496	.105405	.006117	.005210	.081623
		45+	.028229	.003898	.133794	.026500	.002291	.094725

* Standard error
** Coefficient of variation

range of variation than those for males in West Pakistan, while the age specific death rates for females in East Pakistan showed smaller range of variation than the rates for females in West Pakistan. On the whole none of the death rates had a coefficient of variation of less than 8.2 per cent, showing thereby that the age-sex specific death rates used in the computation of the present set of life tables were subject to large sampling fluctuations.

Among the non-sampling errors the major component was due to the coverage and response errors. Unfortunately we had no measures to study the extent of the lack of

TABLE II - MYERS' INDEXES FOR LR AND CD DEATHS AND CS POPULATIONS BY SEX AND PROVINCE

Sex	System	East Pakistan	West Pakistan
Males	LR Deaths	81.96	85.06
	CD Deaths	78.19	86.23
	CS Populations	43.95	55.08
Females	LR Deaths	81.68	78.79
	CD Deaths	75.62	74.53
	CS Populations	43.31	51.92

coverage in the PGE Project. However, we have been able to study the incidence of misreporting of ages by computing Myers' indexes for the single year age distributions of the populations and the deceased people

(Table II). It appears from the table that there were no significant differences among the age distributions of the deceased people of either sex who were reported by LR or CD systems in East or West Pakistan. However, the single year age distributions for the deceased people were much more distorted than the corresponding age distributions for the living populations. Further, it was noted that more than half of the age reports for both living and deceased people ended in digits 0 and 5 showing thereby the strong preference which the respondents had for these digits. Because of the erratic pattern of the single year age distributions it was decided to use the single year age data only upto age 12 and the quinquenial age groups starting from 10-14 to ages 80 and over.

METHODOLOGY

Age specific death rates (m_x) were computed for all ages above 0 by using the formula:

$$m_x = \frac{d_x}{p_x}$$

where d_x was the four years' total of the estimated number of deaths of persons who died between age x to x+1 and p_x was the four years' total of the estimated number of persons who were of age x. The infant mortality rate, that is m_o, was computed by dividing the four years' total of the estimated number of infant deaths by the four years' total of the estimated

number of live births. Two series of age specific death rates, namely the LR and CD rates, were used depending on whether d_x was the LR or CD estimate of deaths[8]. All m_x values were computed separately for males and females in East and West Pakistan.

Because of the erratic pattern of the m_x values it was felt necessary to graduate them by using Gompertz curves of the form:

$$m_x = k.a^{b^x}$$

where k, a and b were constants and x was the age at death. Since the risk of mortality decreases with age upto age 12 and then increases with age, it was decided to use two sets of Gompertz curves. The first set was used to graduate single year m_x values from age 01 to 12 and the second set was used to graduate the ${}_nm_x$ values[9] given in quinquenial age groups 15-19 to 80 and over. The constants of the two sets of Gompertz curves are presented in Table III. It may be noted that the graduated m_x values for age 12 and age 17 (i.e. the mid point of age group 15-19) were joined

---

8. Denominators of both the LR and CD rates were the same, however, in case of the infant mortality rates the denominators for LR rates were the LR estimates of live births and in case of the CD infant mortality rates they were the CD estimates of live births.

9. ${}_nm_x$ stands for the mortality rate of persons aged x to x+n.

TABLE III - THE CONSTANTS OF GOMPERTZ CURVES FITTED TO THE LR AND CD AGE-SEX SPECIFIC DEATH RATES FOR EAST AND WEST PAKISTAN

Age Range	System	Province	Sex	Log a	b	log k
1 to 12	LR	East Pakistan	Males	1.677725	.893714	-.190070
			Females	1.626204	.829011	.073493
		West Pakistan	Males	1.482378	.777678	.140890
			Females	1.706241	.564612	.445226
	CL	East Pakistan	Males	1.970400	.851000	.094970
			Females	2.189800	.860700	-.057900
		West Pakistan	Males	2.344600	.865800	-.288300
			Females	2.077100	.781600	.274800
15-19 to 75-79	LR	East Pakistan	Males	.615665	1.110860	-.339632
			Females	.082194	1.256440	.541972
		West Pakistan	Males	.753275	1.087080	.454722
			Females	.091357	1.230782	.445675
	CD	East Pakistan	Males	.569300	1.122300	-.241500
			Females	.117500	1.231700	.691800
		West Pakistan	Males	.274000	1.161400	.191300
			Females	.086000	1.250000	.635700

Note: The graduated m_x values for age 12 and age 17 (i.e. the mid point of age group 15-19) were joined by a straight line so as to interpolate the m_x values for ages 13, 14, 15 and 16.

by a straight line so as to interpolate the graduated m_x values for ages 13, 14, 15 and 16 years. Further, the second set of Gompertz curves were used to interpolate the graduated m_x values for each single year of age from age 17 to 79 years.

The probability of dying between age x to x+1, q_x, was computed by using the formula:

$$q_x = \frac{2m_x}{2+m_x}$$

for all ages beyond 0. The q_0 was assumed to be equivalent to m_0.[10] The other columns of the life tables were derived by using the standard actuarial formulae [5].

RESULTS

In Pakistan, as in many other developing countries, the death rates have registered a substantial decline over the past two decades [10,12, 13] . The crude death rate in Pakistan was estimated to range between 29-32 deaths per 1000 population in 1951 [10]. The 1962-65 average crude death rates estimated by the PGE Project were as follows:

	LR	CD
East Pakistan	16	20
West Pakistan	15	18

10. The seperation factors could not be calculated due to the nonavailability of the pertinent data.

Although these figures confirmed the declining trend in mortality levels in Pakistan, however, it is difficult to ascertain the absolute drop in the death rates. The main difficulty is the lack of reliable demographic statistics. Further, it is not possible for us to say whether the LR or the CD rates represent the true levels of mortality in Pakistan. For this reason we have presented alternate sets of complete life tables based on the LR and CD estimates on the belief that they represent the lower and upper limits respectively of the mortality levels in Pakistan (Tables IV through XI). In the following paragraphs we will describe some salient features of the complete life tables presented in this paper so as to emphasize the observed interprovince and sex differences in the mortality levels in Pakistan. For this purpose we will mainly utilize the q_x and e_x columns of the life tables.

As regards the interprovince differences in the mortality levels it was noted that the infant mortality rates in East P akistan were higher than the rates in West Pakistan - by 10.6 percent for LR estimates and by 22.8 percent for CD estimates. On the other hand the infant mortality rates for females in East Pakistan were slightly lower than the corresponding rates in West Pakistan, however, the differences were rather negligible. For nearly all ages beyond infancy the males and females in East Pakistan were exposed to greater

risks of dying than their West Pakistani counterparts. These findings were corroborated when we compared the e_x columns of the complete life tables for East and West Pakistan, which showed that at all ages and for both males and females the life expectancy was higher in West Pakistan.

While studying the sex differences in mortality levels in Pakistan it was noted that in East Pakistan the infant mortality rates for males were higher than the rates for females. This is in conformity with the pattern observed by the United Nations in many countries of the world [13]. However, in West Pakistan the situation was reversed and the sex differential in infant mortality was rather small. Further, it was noted that at almost all ages in the reproductive life span (viz 15-50 years) females were exposed to greater risks of dying than males. However, once the females survived the reproductive period they were likely to live longer than males.

Many factors could be contributing to the observed interprovince and sex differentials in mortality. As regards the interprovince differentials, mortality in East Pakistan appears to be higher compared to West Pakistan. This may be a real difference or may be due to sampling and non-sampling errors affecting the PGE data. For example, it is possible that the quality of field work in East Pakistan was better than in West Pakistan and therefore deaths could have been under-reported in West Pakistan. However, no quantitative

measures of the relative efficiency of field work in both provinces have been prepared so far. Regarding the sex' differentials, it seems that females in reproductive ages were exposed to somewhat greater risks of dying than males. This pattern is frequently observed in high mortality countries. In part this is undoubtedly due tc. mortality arising from child birth and its complications. The additional burden that child birth imposes on the women in countries with low health conditions Is substantial. The observed sex differentials may also be explained by the fact that given the limited medical and public health facilities and the position of women in Pakistani society, It is quite likely that females are not cared for as much as males. This is particularly important in case of women of child bearing age.

REFERENCES

1. Ahmad, Nazir and Karol J. Krotki, "Simultaneous Estimation of Population Growth - The Pakistan Experiment", Pakistan Development Review, Vol. 3, No.1, Spring 1963.

2. Alpay, Aysel, "Regional Life Tables for Turkey by Sex", presented at the Cento Symposium on Demographic Statistics, Karachi, November 1968.

3. Aslam, Mohammad, Sultan S. Hashmi and William Seltzer, "Abridged Life Tables of Pakistan and Provinces by Sex, 1962", The Pakistan Development Review, Vol. 7, No.1, Spring 1967.

4. Bean, Lee L. and Masihur Rahman Khan, "Mortality Patterns in Pakistan", presented at the Seventh All Pakistan Statistical Conference, Dacca, January 1967.

5. Barclay, G.W., Techniques of Population Analysis, John Wiley and Sons, New York, 1963.

6. Chandrasekar, C. and W. Edwards Deming, "On a Method of Estimating Birth and Death Rates and the Extent of Registration", Journal of the American Statistical Association , Vol. 44, No. 249, March 1949.

7. Croxton, F.E. and D.J. Cowden, Applied General Statistics, Isaac Pitman and Sons, London, 1962.

8. Hashmi, Sultan S. and Iqbal Alam, "The Problem of Obtaining Age Data in Pakistan - A study of age reporting of a panel of ever married females in yearly enumerations: 1962-1965", presented at the Conference of the International Union for the Scientific Study of Population, London, September 1969.

9. Khan, M.K.H., "Abridged Life Tables for Males and Females in the Former Province of the Punjab, 1950-52", Pakistan Journal of Medical Research, Vol. 1, No. 2, 1956.

10. Khan, M.K.H., "Public Health Programmes and Mortality Decline in Pakistan", Proceedings of the Pakistan Statistical Association, Vol. 13, 1965.

11. Pakistan Institute of Development Economics, Report of the Population Growth Estimation Experiment: Description and Some Results for the Years 1962 and 1963, Karachi, December 1968.

12. Robinson, W.C., "Recent Mortality Trends in Pakistan", in Studies in the Demography of Pakistan, Pakistan Institute of Development Economics, Karachi, December 1967.

13. United Nations Economic Commission for Asia and the Far East, Report of the Asian Population Conference and Selected Papers, United Nations, New York, 1964.

14. Yusuf, Farhat, Population Growth Estimation: Studies in Methodology I, Matching of Vital Events, Research Report No. 67, Pakistan Institute of Development Economics, Karachi, 1968.

15. Yusuf, Farhat and Iqbal Alam, Statistical Series on Population Growth in Pakistan: PGE Birth Statistics, 1964-65, Research Report No. 73, Pakistan Institute of Development Economics, Karachi, 1968.

16. Yusuf, Farhat and Iqbal Alam, Statistical Series on Population Growth in Pakistan: PGE Death Statistics, 1964-65, Research Report No. 74, Pakistan Institute of Development Economics, Karachi, 1968.

17. Yusuf, Farhat and Iqbal Alam, Statistical Series on Population Growth in Pakistan: PGE Base Population Statistics, 1964-65, Research Report No. 75, Pakistan Institute of Development Economics, Karachi, 1968.

18. Yusuf, Farhat, Population Growth Estimation: Studies in Methodology II, Sample Design, Estimation Procedures and Reliability of Estimates, Research Report No. 76, Pakistan Institute of Development Economics, Karachi, 1968.

19. Yusuf, Farhat, "On the Extent of Digital Preference in Reporting of Ages in Pakistan", The Pakistan Development Review, Vol. 7, No.4, Spring 1967.

20. Yusuf, Farhat, "Abridged Life Tables for Pakistan and Its Provinces", Contributed Papers: International Union for the Scientific Study of Population, Sydney Conference, Sydney, August 1967.

TABLE IV : COMPLETE LIFE TABLE FOR EAST PAKISTAN MALES BASED ON THE LR ESTIMATES OF MORTALITY : PGE 1962-1965

x	q_x	l_x	d_x	L_x	T_x	e_x
00	0.1543382	100,000	15,434	89,196	5,255,802	52.56
01	0.0201807	84,566	1,707	83,542	5,166,606	61.10
02	0.0141141	82,859	1,169	82,275	5,083,064	61.35
03	0.0101236	81,690	827	81,277	5,000,789	61.22
04	0.0075616	80,863	611	80,558	4,919,512	60.84
05	0.0058242	80,252	467	80,019	4,838,954	60.30
06	0.0046113	79,785	368	79,601	4,758935	59.65
07	0.0037424	79,417	297	79,269	4,679,334	58.92
08	0.0031052	79,120	246	78,997	4,600,065	58.14
09	0.0026279	78,874	207	78,771	4,521,068	57.32
10	0.0022637	78,667	178	78,578	4,442,297	56.47
11	0.0019811	78,489	155	78,412	4,363,719	55.60
12	0.0017586	78,334	138	78,265	4,285,307	54.71
13	0.0018582	78,196	145	78,124	4,207,042	53.80
14	0.0018982	78,051	148	77,977	4,128,918	52.90
15	0.0020686	77,903	161	77,823	4,050,941	52.00
16	0.0021360	77,742	166	77,659	3,973,118	51.11
17	0.0022070	77,576	171	77,491	3,895,459	50.22
18	0.0022821	77,405	177	77,317	3,817,968	49.33
19	0.0023613	77,228	182	77,137	3,740,651	48.44
20	0.0024451	77,046	188	76,952	3,663,514	47.55
21	0.0025337	76,858	195	76,761	3,586,562	46.67
22	0.0026276	76,663	201	76,563	3,509,801	45.78
23	0.0027270	76,462	209	76,358	3,433,238	44.90
24	0.0028323	76,253	216	76,145	3,356,880	44.02
25	0.0029441	76,037	224	75,925	3,280,735	43.15
26	0.0030629	75,813	232	75,697	3,204,810	42.27
27	0.0031890	75,581	241	75,461	3,129,113	41.40
28	0.0033232	75,340	250	75,215	3,053,652	40.53
29	0.0034661	75,090	260	74,960	2,978,437	39.67
30	0.0036184	74,830	271	74,695	2,903,477	38.80
31	0.0037809	74,559	282	74,418	2,828,782	37.94
32	0.0039542	74,277	294	74,130	2,754,364	37.08
33	0.0041394	73,983	306	73,830	2,680,234	36.23
34	0.0043377	73,677	320	73,517	2,606,404	35.38
35	0.0045497	73,357	334	73,190	2,532,887	34.53
36	0.0047770	73,023	349	72,849	2,459,697	33.68
37	0.0050210	72,674	365	72,492	2,386,848	32.84
38	0.0052828	72,309	382	72,118	2,314,356	32.01

TABLE IV : CONTINUED

39	0.0055640	71,927	400	71,727	2,242,238	31.17
40	0.0058668	71,527	420	71,317	2,170,511	30.35
41	0.0061930	71,107	440	70,887	2,099,194	29.52
42	0.0065451	70,667	463	70,436	2,028,307	28.70
43	0.0069249	70,204	486	69,961	1,957,871	27.89
44	0.0073356	69,718	511	69,463	1,887,910	27.08
45	0.0077803	69,207	538	68,938	1,818,447	26.28
46	0.0082618	68,669	567	68,386	1,749,509	25.48
47	0.0087841	68,102	598	67,803	1,681,123	24.69
48	0.0093514	67,504	631	67,189	1,613,320	23.90
49	0.0099685	66,873	667	66,540	1,546,131	23.12
50	0.0106412	66,206	705	65,854	1,479,591	22.35
51	0.0113740	65,501	745	65,129	1,413,737	21.58
52	0.0121744	64,756	788	64,362	1,348,608	20.83
53	0.0130502	63,968	835	63,551	1,284,246	20.08
54	0.0140084	63,133	884	62,691	1,220,695	19.34
55	0.0150587	62,249	937	61,781	1,158,004	18.60
56	0.0162123	61,312	994	60,815	1,096,223	17.88
57	0.0174822	60,318	1,054	59,791	1,035,408	17.17
58	0.0188791	59,264	1,119	58,705	975,617	16.46
59	0.0204203	58,145	1,187	57,552	916,912	15.77
60	0.0221223	56,958	1,260	56,328	859,360	15.09
61	0.0240074	55,698	1,337	55,030	803,032	14.42
62	0.0260938	54,361	1,418	53,652	748,002	13.76
63	0.0284091	52,943	1,504	52,191	694,350	13.12
64	0.0309855	51,439	1,594	50,642	642,159	12.48
65	0.0338506	49,845	1,687	49,002	591,517	11.87
66	0.0370450	48,158	1,784	47,266	542,515	11.27
67	0.0406116	46,374	1,883	45,433	495,249	10.68
68	0.0446061	44,491	1,985	43,499	449,816	10.11
69	0.0490761	42,506	2,086	41,463	406,317	9.56
70	0.0540895	40,420	2,186	39,327	364,854	9.03
71	0.0597233	38,234	2,283	37,093	325,527	8.51
72	0.0660695	35,951	2,375	34,764	288,434	8.02
73	0.0732139	33,576	2,458	32,347	253,670	7.56
74	0.0812724	31,118	2,529	29,854	221,323	7.11
75	0.0903750	28,589	2,584	27,297	191,469	6.70
76	0.1006812	26,005	2,618	24,696	164,172	6.31
77	0.1123377	23,387	2,627	22,074	139,476	5.96
78	0.1255413	20,760	2,606	19,457	117,402	5.66
79	0.1405087	18,154	2,551	16,879	97,945	5.40
80+	1.0000000	15,603	15,603	81,066	81,066	5.20

TABLE V : COMPLETE LIFE TABLE FOR EAST PAKISTAN FEMALES BASED ON THE LE ESTIMATES OF MORTALITY : AGE 1962-1965

x	q_x	l_x	d_x	L_x	T_x	e_x
00	0.1221802	100,000	12,218	91,447	5,298,861	52.99
01	0.0260576	87,782	2,287	86,410	5,207,414	59.32
02	0.0154085	85,495	1,317	84,837	5,121,004	59.90
03	0.0099502	84,178	838	83,759	5,036,167	59.83
04	0.0069203	83,340	577	83,052	4,952,408	59.42
05	0.0051189	82,763	424	82,551	4,869,356	58.84
06	0.0039859	82,339	328	82,175	4,786,805	58.14
07	0.0032391	82,011	266	81,878	4,704,630	57.37
08	0.0027272	81,745	223	81,634	4,622,752	56.55
09	0.0023646	81,522	193	81,426	4,541,118	55.70
10	0.0021008	81,329	171	81,244	4,459,692	54.84
11	0.0019045	81,158	155	81,081	4,378,448	53.95
12	0.0017559	81,003	142	80,932	4,297,367	53.05
13	0.0018982	80,861	153	80,785	4,216,435	52.14
14	0.0023971	80,708	193	80,612	4,135,650	51.24
15	0.0043181	80,515	348	80,341	4,055,038	50.36
16	0.0043620	80,167	350	79,992	3,974,697	49.58
17	0.0044084	79,817	352	79,641	3,894,705	48.80
18	0.0044576	79,465	354	79,288	3,815,064	48.01
19	0.0045096	79,111	357	78,933	3,735,776	47.22
20	0.0045646	78,754	359	78,575	3,656,843	46.43
21	0.0046231	78,395	362	78,214	3,578,268	45.64
22	0.0046850	78,033	366	77,850	3,500,054	44.85
23	0.0047507	77,667	369	77,483	3,422,204	44.06
24	0.0048215	77,298	373	77,112	3,344,721	43.27
25	0.0047951	76,925	369	76,741	3,267,609	42.48
26	0.0049734	76,556	381	76,366	3,190,868	41.68
27	0.0050571	76,175	385	75,983	3,114,502	40.89
28	0.0051464	75,790	390	75,595	3,038,519	40.09
29	0.0052414	75,400	395	75,203	2,962,924	39.30
30	0.0053429	75,005	401	74,805	2,887,721	38.50
31	0.0054511	74,604	407	74,401	2,812,916	37.71
32	0.0055667	74,197	413	73,991	2,738,515	36.91
33	0.0056904	73,784	420	73,574	2,664,524	36.11
34	0.0058228	73,364	427	73,151	2,590,950	35.32
35	0.0059646	72,937	435	72,720	2,517,799	34.52
36	0.0061169	72,502	443	72,281	2,445,079	33.72
37	0.0062802	72,059	453	71,833	2,372,798	32.93
38	0.0064559	71,606	462	71,375	2,300,965	32.13

TABLE V : CONTINUED

39	0.0066451	71,144	473	70,908	2,229,590	31.34
40	0.0068491	70,671	484	70,429	2,158,682	30.55
41	0.0070692	70,187	496	69,939	2,088,253	29.75
42	0.0073073	69,691	509	69,437	2,018,314	28.96
43	0.0075649	69,182	523	68,921	1,948,877	28.17
44	0.0078443	68,659	539	68,390	1,879,956	27.38
45	0.0081477	68,120	555	67,843	1,811,566	26.59
46	0.0084778	67,565	573	67,279	1,743,723	25.81
47	0.0088379	66,992	592	66,696	1,676,444	25.03
48	0.0092308	66,400	613	66,094	1,609,748	24.24
49	0.0096609	65,787	636	65,469	1,543,654	23.46
50	0.0101322	65,151	660	64,821	1,478,185	22.69
51	0.0106503	64,491	687	64,148	1,413,364	21.92
52	0.0112204	63,804	716	63,446	1,349,216	21.15
53	0.0118501	63,088	748	62,714	1,285,770	20.38
54	0.0125469	62,340	782	61,949	1,223,056	19.62
55	0.0133198	61,558	820	61,148	1,161,107	18.86
56	0.0141795	60,738	861	60,308	1,099,959	18.11
57	0.0151381	59,877	906	59,424	1,039,651	17.36
58	0.0162108	58,971	956	58,493	980,227	16.62
59	0.0174137	58,015	1,010	57,510	921,734	15.89
60	0.0187683	57,005	1,070	56,470	864,224	15.16
61	0.0202978	55,935	1,135	55,368	807,754	14.44
62	0.0220322	54,800	1,207	54,197	752,386	13.73
63	0.0240025	53,593	1,286	52,950	698,189	13.03
64	0.0262525	52,307	1,373	51,621	645,239	12.34
65	0.0288306	50,934	1,468	50,200	593,618	11.66
66	0.0317944	49,466	1,573	48,680	543,418	10.99
67	0.0352204	47,893	1,687	47,050	494,738	10.33
68	0.0391936	46,206	1,811	45,301	447,688	9.69
69	0.0438226	44,395	1,946	43,422	402,387	9.06
70	0.0492407	42,449	2,090	41,404	358,965	8.46
71	0.0556100	40,359	2,244	39,237	317,561	7.87
72	0.0631335	38,115	2,406	36,912	278,324	7.30
73	0.0720535	35,709	2,573	34,423	241,412	6.76
74	0.0826917	33,136	2,740	31,766	206,989	6.25
75	0.0954315	30,396	2,901	28,946	175,223	5.77
76	0.1107494	27,495	3,045	25,973	146,277	5.32
77	0.1292433	24,450	3,160	22,870	120,304	4.92
78	0.1516573	21,290	3,229	19,676	97,434	4.58
79	0.1788864	18,061	3,231	16,446	77,758	4.31
80+	1.0000000	14,830	14,830	61,312	61,312	4.13

TABLE VI : COMPLETE LIFE TABLE FOR WEST PAKISTAN MALES BASED ON THE LR ESTIMATES OF MORTALITY : PGE 1962-1965

x	q_x	l_x	d_x	L_x	T_x	e_x
00	0.1395304	100,000	13,953	90,233	5,707,605	57.06
01	0.0194738	86,047	1,676	85,041	5,617,372	65.28
02	0.0108414	84,371	915	83,914	5,532,331	65.58
03	0.0068631	83,456	573	83,170	5,448,417	65.28
04	0.0048088	82,883	399	82,684	5,365,247	64.73
05	0.0036445	82,484	301	82,334	5,282,563	64.04
06	0.0029388	82,183	242	82,062	5,200,229	63.26
07	0.0024852	81,941	204	81,839	5,118,167	62.46
08	0.0021813	81,737	178	81,648	5,036,328	61.62
09	0.0019711	81,559	161	81,479	4,954,680	60.75
10	0.0018215	81,398	148	81,324	4,873,201	59.87
11	0.0017131	81,250	139	81,181	4,791,877	58.98
12	0.0016333	81,111	132	81,045	4,710,696	58.08
13	0.0017485	80,979	142	80,908	4,629,651	57.17
14	0.0018483	80,837	149	80,763	4,548,743	56.27
15	0.0021715	80,688	175	80,601	4,467,980	55.37
16	0.0022392	80,513	180	80,423	4,387,379	54.49
17	0.0023102	80,333	186	80,240	4,306,956	53.61
18	0.0023846	80,147	191	80,052	4,226,716	52.74
19	0.0024627	79,956	197	79,858	4,146,664	51.86
20	0.0025448	79,759	203	79,658	4,066,806	50.99
21	0.0026310	79,556	209	79,452	3,987,148	50.12
22	0.0027216	79,347	216	79,239	3,907,696	49.25
23	0.0028171	79,131	223	79,020	3,828,457	48.38
24	0.0029177	78,908	230	78,793	3,749,437	47.52
25	0.0030235	78,678	238	78,559	3,670,644	46.65
26	0.0031350	78,440	246	78,317	3,592,085	45.79
27	0.0032526	78,194	254	78,067	3,513,768	44.94
28	0.0033767	77,940	263	77,809	3,435,701	44.08
29	0.0035077	77,677	272	77,541	3,357,892	43.23
30	0.0036462	77,405	282	77,264	3,280,351	42.38
31	0.0037927	77,123	293	76,977	3,203,087	41.54
32	0.0039476	76,830	303	76,679	3,126,110	40.69
33	0.0041116	76,527	315	76,370	3,049,431	39.85
34	0.0042854	76,212	327	76,049	2,973,061	39.01
35	0.0044694	75,885	339	75,716	2,897,012	38.18
36	0.0046647	75,546	352	75,370	2,821,296	37.35
37	0.0048722	75,194	366	75,011	2,745,926	36.52
38	0.0050926	74,828	381	74,638	2,670,915	35.69

TABLE VI : CONTINUED

39	0.0053267	74,447	397	74,249	2,596,277	34.87
40	0.0055759	74,050	413	73,844	2,522,028	34.06
41	0.0058410	73,637	430	73,422	2,448,184	33.25
42	0.0061236	73,207	448	72,983	2,374,762	32.44
43	0.0064250	72,759	467	72,526	2,301,779	31.64
44	0.0067466	72,292	488	72,048	2,229,253	30.84
45	0.0070903	71,804	509	71,550	2,157,205	30.04
46	0.0074574	71,295	532	71,029	2,085,655	29.25
47	0.0078502	70,763	556	70,485	2,014,626	28.47
48	0.0082704	70,207	581	69,917	1,944,141	27.69
49	0.0087209	69,626	607	69,323	1,874,224	26.92
50	0.0092040	69,019	635	68,702	1,804,901	26.15
51	0.0097226	68,384	665	68,052	1,736,199	25.39
52	0.0102828	67,719	696	67,371	1,668,147	24.63
53	0.0108796	67,023	729	66,659	1,600,776	23.88
54	0.0115242	66,294	764	65,912	1,534,117	23.14
55	0.0122188	65,530	801	65,130	1,468,205	22.41
56	0.0129678	64,729	839	64,310	1,403,075	21.68
57	0.0137759	63,890	880	63,450	1,338,765	20.95
58	0.0146494	63,010	923	62,549	1,275,315	20.24
59	0.0155948	62,087	968	61,603	1,212,766	19.53
60	0.0166171	61,119	1,016	60,611	1,151,163	18.84
61	0.0177240	60,103	1,065	59,571	1,090,552	18.15
62	0.0189252	59,038	1,117	58,480	1,030,981	17.46
63	0.0202295	57,921	1,172	57,335	972,501	16.79
64	0.0216464	56,749	1,228	56,135	915,166	16.13
65	0.0231876	55,521	1,287	54,878	859,031	15.47
66	0.0248689	54,234	1,349	53,560	804,153	14.83
67	0.0266989	52,885	1,412	52,179	750,593	14.19
68	0.0286962	51,473	1,477	50,735	698,414	13.57
69	0.0308775	49,996	1,544	49,224	647,679	12.96
70	0.0332626	48,452	1,612	47,646	598,455	12.35
71	0.0358679	46,840	1,680	46,000	550,809	11.76
72	0.0387353	45,160	1,749	44,286	504,809	11.18
73	0.0418783	43,411	1,818	42,502	460,523	10.61
74	0.0453247	41,593	1,885	40,651	418,021	10.05
75	0.0491137	39,708	1,950	38,733	377,370	9.50
76	0.0532823	37,758	2,012	36,752	338,637	8.97
77	0.0578720	35,746	2,069	34,712	301,885	8.45
78	0.0629325	33,677	2,119	32,618	267,173	7.93
79	0.0685158	31,558	2,162	30,477	234,555	7.43
80+	1.0000000	29,396	29,396	204,078	204,078	6.94

TABLE VII : COMPLETE LIFE TABLE FOR WEST PAKISTAN FEMALES BASED ON THE LR ESTIMATES OF MORTALITY : PGE 1962-1965

x	q_x	l_x	d_x	L_x	T_x	e_x
00	0.1459636	100,000	14,596	89,783	5,678,614	56.79
01	0.0252965	85,404	2,160	84,108	5,588,831	65.44
02	0.0097060	83,244	808	82,840	5,504,723	66.13
03	0.0056378	82,436	465	82,204	5,421,883	65.77
04	0.0041469	81,971	340	81,801	5,339,679	65.14
05	0.0034863	81,631	285	81,489	5,257,878	64.41
06	0.0031609	81,346	257	81,218	5,176,389	63.63
07	0.0029908	81,089	243	80,968	5,095,171	62.83
08	0.0027991	80,846	226	80,733	5,014,203	62.02
09	0.0028480	80,620	230	80,505	4,933,470	61.19
10	0.0028198	80,390	227	80,277	4,852,965	60.37
11	0.0028041	80,163	225	80,051	4,772,688	59.54
12	0.0027952	79,938	223	79,827	4,692,637	58.70
13	0.0028858	79,715	230	79,600	4,612,810	57.87
14	0.0030952	79,485	246	79,362	4,533,210	57.03
15	0.0035348	79,239	280	79,099	4,453,848	56.21
16	0.0035708	78,959	282	78,818	4,374,749	55.41
17	0.0036086	78,677	284	78,535	4,295,931	54.60
18	0.0036483	78,393	286	78,250	4,217,396	53.80
19	0.0036903	78,107	288	77,963	4,139,146	52.99
20	0.0037345	77,819	291	77,674	4,061,183	52.19
21	0.0037811	77,528	293	77,382	3,983,509	51.38
22	0.0038303	77,235	296	77,087	3,906,127	50.58
23	0.0038824	76,939	299	76,790	3,829,040	49.77
24	0.0039372	76,640	302	76,489	3,752,250	48.96
25	0.0039954	76,338	305	76,186	3,675,761	48.15
26	0.0040569	76,033	308	75,879	3,599,575	47.34
27	0.0041221	75,725	312	75,569	3,523,696	46.53
28	0.0041910	75,413	316	75,255	3,448,127	45.72
29	0.0042642	75,097	320	74,937	3,372,872	44.91
30	0.0043418	74,777	325	74,615	3,297,935	44.10
31	0.0044241	74,452	329	74,288	3,223,320	43.29
32	0.0045117	74,123	334	73,956	3,149,032	42.48
33	0.0046048	73,789	340	73,619	3,075,076	41.67
34	0.0047039	73,449	345	73,277	3,001,457	40.87
35	0.0048094	73,104	352	72,928	2,928,180	40.06
36	0.0049220	72,752	358	72,573	2,855,252	39.25
37	0.0050421	72,394	365	72,212	2,782,679	38.44
38	0.0051704	72,029	372	71,843	2,710,467	37.63

TABLE VII: CONTINUED

39	0.0053076	71,657	380	71,467	2,638,624	36.82
40	0.0054545	71,277	389	71,083	2,567,157	36.02
41	0.0056120	70,888	398	70,689	2,496,074	35.21
42	0.0057810	70,490	408	70,286	2,425,385	34.41
43	0.0059624	70,082	418	69,873	2,355,099	33.61
44	0.0061577	69,664	429	69,450	2,285,226	32.80
45	0.0063682	69,235	441	69,015	2,215,776	32.00
46	0.0065950	68,794	454	68,567	2,146,761	31.21
47	0.0068401	68,340	467	68,107	2,078,194	30.41
48	0.0071053	67,873	482	67,632	2,010,087	29.62
49	0.0073927	67,391	498	67,142	1,942,455	28.82
50	0.0077045	66,893	515	66,636	1,875,313	28.04
51	0.0080436	66,378	534	66,111	1,808,677	27.25
52	0.0084128	65,844	554	65,567	1,742,566	26.47
53	0.0088154	65,290	576	65,002	1,676,999	25.69
54	0.0094518	64,714	612	64,408	1,611,997	24.91
55	0.0097385	64,102	624	63,790	1,547,589	24.14
56	0.0102680	63,478	652	63,152	1,483,799	23.38
57	0.0108502	62,826	682	62,485	1,420,647	22.61
58	0.0114923	62,144	714	61,787	1,358,162	21.86
59	0.0122020	61,430	750	61,055	1,296,375	21.10
60	0.0129882	60,680	788	60,286	1,235,320	20.36
61	0.0138609	59,892	830	59,477	1,175,034	19.62
62	0.0148329	59,062	876	58,624	1,115,557	18.89
63	0.0159184	58,186	926	57,723	1,056,933	18.17
64	0.0171334	57,260	981	56,770	999,210	17.45
65	0.0185022	56,279	1,041	55,759	942,440	16.75
66	0.0200358	55,238	1,107	54,685	886,681	16.05
67	0.0217729	54,131	1,179	53,542	831,996	15.37
68	0.0237418	52,952	1,257	52,324	778,454	14.70
69	0.0259819	51,695	1,343	51,024	726,130	14.05
70	0.0285402	50,352	1,437	49,634	675,106	13.41
71	0.0314689	48,915	1,539	48,146	625,472	12.79
72	0.0348376	47,376	1,650	46,551	577,326	12.19
73	0.0387274	45,726	1,771	44,841	530,775	11.61
74	0.0432339	43,955	1,900	43,005	485,934	11.06
75	0.0484746	42,055	2,039	41,036	442,929	10.53
76	0.0546000	40,016	2,185	38,924	401,893	10.04
77	0.0617821	37,831	2,337	36,663	362,969	9.59
78	0.0702413	35,494	2,493	34,248	326,306	9.19
79	0.0802301	33,001	2,648	31,677	292,058	8.85
80+	1.0000000	30,353	30,353	260,381	260,381	8.58

TABLE VIII: COMPLETE LIFE TABLE FOR EAST PAKISTAN MALES BASED ON THE CD ESTIMATES OF MORTALITY : PGE 1962-1965

x	q_x	l_x	d_x	L_x	T_x	e_x
00	0.1587000	100,000	15,870	88,891	4,584,889	45.85
01	0.0552314	84,130	4,647	81,342	4,495,998	53.44
02	0.0327546	79,483	2,603	78,182	4,414,656	55.54
03	0.0201940	76,880	1,553	76,104	4,336,474	56.41
04	0.0133108	75,327	1,003	74,826	4,260,370	56.56
05	0.0093560	74,324	695	73,977	4,185,544	56.32
06	0.0069756	73,629	514	73,372	4,111,567	55.84
07	0.0053855	73,115	394	72,918	4,038,195	55.23
08	0.0042908	72,721	312	72,565	3,965,277	54.53
09	0.0035935	72,409	206	72,279	3,892,712	53.76
10	0.0030952	72,149	223	72,038	3,820,433	52.95
11	0.0026964	71,926	194	71,829	3,748,395	52.12
12	0.0020978	71,732	150	71,657	3,676,566	51.25
13	0.0021976	71,582	157	71,504	3,604,909	50.36
14	0.0022974	71,425	164	71,343	3,533,405	49.47
15	0.0022974	71,261	164	71,179	3,462,062	48.58
16	0.0023971	71,097	170	71,012	3,390,883	47.69
17	0.0024969	70,927	177	70,839	3,319,871	46.81
18	0.0025966	70,750	184	70,658	3,249,032	45.92
19	0.0026964	70,566	190	70,471	3,178,374	45.04
20	0.0027961	70,376	197	70,278	3,107,903	44.16
21	0.0028958	70,179	203	70,078	3,037,625	43.28
22	0.0029955	69,976	210	69,871	2,967,547	42.41
23	0.0030952	69,766	216	69,658	2,897,676	41.53
24	0.0031949	69,550	222	69,439	2,828,018	40.66
25	0.0033942	69,328	235	69,211	2,758,579	39.79
26	0.0034939	69,093	241	68,973	2,689,368	38.92
27	0.0036932	68,852	254	68,725	2,620,395	38.06
28	0.0037928	68,598	260	68,468	2,551,670	37.20
29	0.0039920	68,338	273	68,202	2,483,202	36.34
30	0.0041912	68,065	285	67,923	2,415,000	35.48
31	0.0043903	67,780	298	67,631	2,347,077	34.63
32	0.0045894	67,482	310	67,327	2,279,446	33.78
33	0.0047885	67,172	322	67,011	2,212,119	32.93
34	0.0050870	66,850	340	66,680	2,145,108	32.09
35	0.0052860	66,510	352	66,334	2,078,428	31.25
36	0.0055844	66,158	369	65,974	2,012,094	30.41
37	0.0058826	65,789	387	65,596	1,946,120	29.58
38	0.0061808	65,402	404	65,200	1,880,524	28.75

TABLE VIII: CONTINUED

39	0.0065783	64,998	428	64,784	1,815,324	27.93
40	0.0069756	64,570	450	64,345	1,750,540	27.11
41	0.0073727	64,120	473	63,884	1,686,195	26.30
42	0.0078689	63,647	501	63,397	1,622,311	25.49
43	0.0083649	63,146	528	62,882	1,558,914	24.69
44	0.0088606	62,618	555	62,341	1,496,032	23.89
45	0.0094551	62,063	587	61,770	1,433,691	23.10
46	0.0100493	61,476	618	61,167	1,371,921	22.32
47	0.0107420	60,858	654	60,531	1,310,754	21.54
48	0.0115331	60,204	694	59,857	1,250,223	20.77
49	0.0124224	59,510	739	59,141	1,190,366	20.00
50	0.0133108	58,771	782	58,380	1,131,225	19.25
51	0.0142971	57,989	829	57,575	1,072,845	18.50
52	0.0153808	57,160	879	56,721	1,015,270	17.76
53	0.0166601	56,281	938	55,812	958,549	17.03
54	0.0179377	55,343	993	54,847	902,737	16.31
55	0.0195078	54,350	1,060	53,820	847,890	15.60
56	0.0211734	53,290	1,128	52,726	794,070	14.90
57	0.0229340	52,162	1,196	51,564	741,344	14.21
58	0.0249840	50,966	1,273	50,330	689,780	13.53
59	0.0273216	49,693	1,358	49,014	639,450	12.87
60	0.0298478	48,335	1,443	47,614	590,436	12.22
61	0.0326579	46,892	1,531	46,127	542,822	11.58
62	0.0358458	45,361	1,626	44,548	496,695	10.95
63	0.0395040	43,735	1,728	42,871	452,147	10.34
64	0.0435314	42,007	1,829	41,093	409,276	9.74
65	0.0480187	40,178	1,929	39,214	368,183	9.16
66	0.0531490	38,249	2,033	37,233	328,969	9.60
67	0.0590062	36,216	2,137	35,148	291,736	8.06
68	0.0654834	34,079	2,232	32,963	256,588	7.53
69	0.0728464	31,847	2,320	30,687	223,625	7.02
70	0.0814428	29,527	2,405	28,325	192,938	6.53
71	0.0910566	27,122	2,470	25,887	164,613	6.07
72	0.1019265	24,652	2,513	23,396	138,726	5.63
73	0.1144527	22,139	2,534	20,872	115,330	5.21
74	0.1287425	19,605	2,524	18,343	94,458	4.82
75	0.1447124	17,081	2,742	15,845	96,115	4.46
76	0.1629466	14,609	2,380	13,419	60,270	4.13
77	0.1841293	12,229	2,252	11,103	46,851	3.83
78	0.2085274	9,977	2,080	8,937	35,748	3.58
79	0.2357871	7,897	1,862	6,966	26,811	3.40
80+	1.0000000	6,035	6,035	19,845	19,845	3.29

TABLE IX: COMPLETE LIFE TABLE FOR EAST PAKISTAN
FEMALES BASED ON THE CD ESTIMATES
MORTALITY : PGE 1962-1965

x	q_x	l_x	d_x	L_x	T_x	e_x
00	0.1251000	100,000	12,510	91,243	4,544,552	45.45
01	0.0635167	87,490	5,557	84,156	4,453,309	50.90
02	0.0360387	81,933	2,953	80,457	4,369,153	53.33
03	0.0220541	78,980	1,742	78,109	4,288,696	54.30
04	0.0138041	77,238	1,066	76,705	4,210,587	54.51
05	0.0094551	76,172	720	75,812	4,133,882	54.27
06	0.0067770	75,452	511	75,197	4,058,070	53.78
07	0.0050870	74,941	381	74,751	3,982,873	53.15
08	0.0039920	74,560	298	74,411	3,908,122	52.42
09	0.0031949	74,262	237	74,144	3,833,711	51.62
10	0.0026964	74,025	200	73,925	3,759,567	50.79
11	0.0022974	73,825	170	73,740	3,685,642	49.92
12	0.0029955	73,655	221	73,545	3,611,902	49.04
13	0.0036932	73,434	271	73,299	3,538,357	48.18
14	0.0043903	73,163	321	73,003	3,465,058	47.36
15	0.0050870	72,842	371	72,657	3,392,055	46.57
16	0.0057832	72,471	419	72,262	3,319,398	45.80
17	0.0063796	72,052	460	71,822	3,247,136	45.07
18	0.0064789	71,592	464	71,360	3,175,314	44.35
19	0.0065783	71,128	468	70,894	3,103,954	43.64
20	0.0066776	70,660	472	70,424	3,033,060	42.93
21	0.0067770	70,188	476	69,950	2,962,636	42.21
22	0.0068763	69,712	479	69,473	2,892,686	41.50
23	0.0069756	69,233	483	68,992	2,823,213	40.78
24	0.0070749	68,750	486	68,507	2,754,221	40.06
25	0.0071742	68,264	490	68,019	2,685,714	39.34
26	0.0072735	67,774	493	67,528	2,617,695	38.62
27	0.0073727	67,281	496	67,033	2,550,167	37.90
28	0.0074720	66,785	499	66,536	2,483,134	37.18
29	0.0076705	66,286	508	66,032	2,416,598	36.46
30	0.0077697	65,778	511	65,523	2,350,566	35.74
31	0.0079681	65,267	520	65,007	2,285,043	35.01
32	0.0080673	64,747	522	64,486	2,220,036	34.29
33	0.0082657	64,225	531	63,960	2,155,550	33.56
34	0.0084640	63,694	539	63,425	2,091,590	32.84
35,	0.0086623	63,155	547	62,882	2,028,165	32.11
36	0.0088606	62,608	555	62,331	1,965,283	31.39
37	0.0091579	62,053	568	61,769	1,902,952	30.67
38	0.0093560	61,485	575	61,198	1,841,183	29.95

TABLE IX : CONTINUED

39	0.0096532	60,910	588	60,616	1,779,985	29.22
40	0.0099502	60,322	600	60,022	1,719,369	28.50
41	0.0102472	59,722	612	59,416	1,659,347	27.79
42	0.0105441	59,110	623	58,799	1,599,931	27.07
43	0.0108409	58,487	634	58,170	1,541,132	26.35
44	0.0112365	57,853	650	57,528	1,482,962	25.63
45	0.0116320	57,203	665	56,871	1,425,434	24.92
46	0.0121260	56,538	686	56,195	1,368,563	24.21
47	0.0125211	55,852	699	55,503	1,312,368	23.50
48	0.0131135	55,153	723	54,792	1,256,865	22.79
49	0.0136068	54,430	741	54,060	1,202,073	22.09
50	0.0141985	53,689	762	53,308	1,148,013	21.38
51	0.0148883	52,927	788	52,533	1,094,705	20.68
52	0.0151838	52,139	792	51,743	1,042,172	19.99
53	0.0163650	51,347	840	50,927	990,429	19.29
54	0.0172499	50,507	871	50,072	939,502	18.60
55	0.0182323	49,636	905	49,184	889,430	17.92
56	0.0192136	48,731	936	48,263	840,246	17.24
57	0.0203900	47,795	975	47,308	791,983	16.57
58	0.0216628	46,820	1,014	46,313	744,675	15.91
59	0.0230317	45,806	1,055	45,279	698,362	15.25
60	0.0240083	44,751	1,074	44,214	653,083	14.59
61	0.0263483	43,677	1,151	43,102	608,869	13.94
62	0.0282940	42,526	1,203	41,925	565,767	13.30
63	0.0296537	41,323	1,225	40,711	523,842	12.68
64	0.0329481	40,098	1,321	39,438	483,131	12.05
65	0.0356529	38,777	1,383	38,086	443,693	11.44
66	0.0377729	37,394	1,412	36,688	405,607	10.85
67	0.0422866	35,982	1,522	35,221	368,919	10.25
68	0.0463026	34,460	1,596	33,662	333,698	9.68
69	0.0508722	32,864	1,672	32,028	300,036	9.13
70	0.0546639	31,192	1,705	30,340	268,008	8.59
71	0.0621094	29,487	1,831	28,572	237,668	8.06
72	0.0691253	27,656	1,912	26,700	209,096	7.56
73	0.0771080	25,744	1,985	24,752	182,396	7.09
74	0.0863991	23,759	2,053	22,733	157,644	6.64
75	0.0972315	21,706	2,111	20,651	134,911	6.22
76	0.1099088	19,595	2,154	18,518	114,260	5.83
77	0.1247949	17,441	2,177	18,353	95,742	5.49
78	0.1422136	15,264	2,171	14,179	79,389	5.20
79	0.1628623	13,293	2,132	12,027	65,210	4.98
80+	1.0000000	10,961	12,961	53,183	53,183	4.85

TABLE X : COMPLETE LIFE TABLE FOR WEST PAKISTAN MALES BASED ON THE CD ESTIMATES OF MORTALITY : PGE 1962-1965

x	q_x	l_x	d_x	L_x	T_x	e_x
00	0.1291000	100,000	12,910	90,963	4,978,578	49.79
01	0.0668858	87,090	5,825	83,595	4,887,615	56.13
02	0.0239107	81,265	1,943	80,294	4,804,020	59.12
03	0.0169550	79,322	1,345	78,650	4,723,726	59.55
04	0.0106431	77,977	830	77,562	4,645,076	59.56
05	0.0070749	77,147	546	76,874	4,567,514	59.21
06	0.0049875	76,601	382	76,410	4,490,640	58.62
07	0.0036932	76,219	281	76,079	4,414,230	57.92
08	0.0027961	75,938	212	75,832	4,338,151	57.11
09	0.0022974	75,726	174	75,639	4,262,319	56.29
10	0.0017984	75,552	136	75,484	4,186,680	55.42
11	0.0015987	75,416	121	75,356	4,111,196	54.51
12	0.0028958	75,295	218	75,186	4,035,840	53.60
13	0.0029955	75,077	225	74,965	3,960,654	52.76
14	0.0029955	74,852	224	74,740	3,885,689	51.91
15	0.0030952	74,628	231	74,513	3,810,949	51.07
16	0.0031949	74,397	238	74,278	3,736,436	50.23
17	0.0031949	74,159	237	74,041	3,662,158	49.38
18	0.0032946	73,922	244	73,800	3,588,117	48.54
19	0.0033942	73,678	250	73,553	3,514,317	47.70
20	0.0034939	73,428	257	73,300	3,440,764	46.86
21	0.0034939	73,171	256	73,043	3,367,464	46.02
22	0.0035935	72,915	262	72,784	3,294,421	45.18
23	0.0036932	72,653	268	72,519	3,221,637	44.34
24	0.0037928	72,385	275	72,248	3,149,118	43.51
25	0.0038924	72,110	281	71,970	3,076,870	42.67
26	0.0039920	71,829	287	71,686	3,004,900	41.83
27	0.0041912	71,542	300	71,392	2,933,214	41.00
28	0.0042908	71,242	306	71,089	2,861,822	40.16
29	0.0043903	70,936	311	70,781	2,790,733	39.33
30	0.0045894	70,625	324	70,463	2,719,952	38.51
31	0.0046890	70,301	330	70,136	2,649,489	37.69
32	0.0048880	69,971	342	69,800	2,579,353	36.86
33	0.0049875	69,629	347	69,456	2,509,553	36.04
34	0.0051865	69,282	359	69,103	2,440,097	35.22
35	0.0053855	68,923	371	68,738	2,370,994	34.40
36	0.0055844	68,552	383	68,361	2,302,256	33.58
37	0.0058826	68,169	401	67,969	2,233,895	32.77
38	0.0060815	67,768	412	67,562	2,165,926	31.96

TABLE X : CONTINUED

39	0.0062802	67,356	423	67,145	2,098,364	31.15
40	0.0065783	66,933	440	66,713	2,031,219	30.35
41	0.0068763	66,493	457	66,265	1,964,506	29.55
42	0.0071742	66,036	474	65,799	1,898,241	28.75
43	0.0075712	65,562	496	65,314	1,832,442	27.95
44	0.0079681	65,066	518	64,807	1,767,128	27.16
45	0.0083649	64,548	540	64,278	1,702,321	26.37
46	0.0087614	64,008	561	63,728	1,638,043	25.59
47	0.0094551	63,447	600	63,147	1,574,315	24.81
48	0.0097522	62,847	613	62,541	1,511,168	24.05
49	0.0102472	62,234	638	61,915	1,448,627	23,28
50	0.0109398	61,596	674	61,259	1,386,712	22.51
51	0.0115331	60,922	703	60,571	1,325,453	21.76
52	0.0123236	60,219	742	59,848	1,264,882	21.02
53	0.0131135	59,477	780	59,087	1,205,034	20.26
54	0.0139027	58,697	816	58,289	1,145,947	19.52
55	0.0148883	57,881	862	57,450	1,087,658	18.79
56	0.0159714	57,019	911	56,564	1,030,208	18.07
57	0.0170533	56,108	957	55,630	973,644	17.35
58	0.0183304	55,151	1,011	54,646	918,014	16.65
59	0.0198020	54,140	1,072	53,604	863,368	15.95
60	0.0213692	53,068	1,134	52,501	809,764	15.26
61	0.0231294	51,934	1,201	51,334	757,263	14.58
62	0.0249840	50,733	1,268	50,099	705,929	13.92
63	0.0272243	49,465	1,347	48,792	655,830	13.26
64	0.0294596	48,118	1,418	47,409	607,038	12.62
65	0.0323676	46,700	1,512	45,944	559,629	11.98
66	0.0354599	45,188	1,602	44,387	513,685	11.37
67	0.0389273	43,586	1,697	42,738	469,298	10.77
68	0.0427656	41,889	1,791	40,994	426,560	10.18
69	0.0472564	40,098	1,895	39,151	385,566	9.62
70	0.0522959	38,203	1,998	37,204	346,415	9.07
71	0.0579696	36,205	2,099	35,156	309,211	8.54
72	0.0645473	34,106	2,201	33,006	274,055	8.04
73	0.0720104	31,905	2,297	30,757	241,049	7.56
74	0.0815348	29,608	2,414	28,401	210,292	7.10
75	0.0913299	27,194	2,484	25,952	181,891	6.69
76	0.1028268	24,710	2,541	23,440	155,939	6.31
77	0.1161400	22,169	2,575	20,882	132,499	5.98
78	0.1316269	19,594	2,579	18,305	111,617	5.70
79	0.1493476	17,015	2,541	15,745	93,312	5.48
80+	1.0000000	14,474	14,474	77,567	77,567	5.36

TABLE XI : COMPLETE LIFE TABLE FOR WEST PAKISTAN FEMALES BASED ON THE CD ESTIMATES OF MORTALITY : PGE 1962-1965

x	q_x	l_x	d_x	L_x	T_x	e_x
00	0.1269000	100,000	12,690	91,117	4,788,009	47.88
01	0.0962353	87,310	8,402	82,269	4,696,892	53.80
02	0.0459209	78,908	3,624	77,096	4,614,623	58.48
03	0.0183304	75,284	1,380	74,594	4,537,527	60.27
04	0.0111376	73,904	823	73,493	4,462,933	60.39
05	0.0075712	73,081	553	72,805	4,389,440	60.06
06	0.0055844	72,528	405	72,326	4,316,635	59.52
07	0.0043903	72,123	317	71,965	4,244,309	58.85
08	0.0035935	71,806	258	71,677	4,172,344	58.11
09	0.0031949	71,548	229	71,434	4,100,667	57.31
10	0.0027961	71,319	199	71,220	4,029,233	56.50
11	0.0025966	71,120	185	71,028	3,958,013	55.65
12	0.0029955	70,935	212	70,829	3,886,985	54.80
13	0.0033942	70,723	240	70,603	3,816,156	53.96
14	0.0037928	70,483	267	70,350	3,745,553	53.14
15	0.0041912	70,216	294	70,069	3,675,203	52.34
16	0.0045894	69,922	321	69,762	3,605,134	51.56
17	0.0051865	69,601	361	69,421	3,535,372	50.80
18	0.0052860	69,240	366	69,057	3,465,951	50.06
19	0.0053855	68,874	371	68,689	3,396,894	49.32
20	0.0053855	68,503	369	68,319	3,328,205	48.59
21	0.0054849	68,134	374	67,947	3,259,886	47.85
22	0.0054849	67,760	372	67,574	3,191,939	47.11
23	0.0055844	67,388	376	67,200	3,124,365	46.36
24	0.0056838	67,012	381	66,822	3,057,165	45.62
25	0.0056838	66,631	379	66,442	2,990,343	44.88
26	0.0057832	66,252	383	66,061	2,923,901	44.13
27	0.0058826	65,869	387	65,676	2,857,840	43.39
28	0.0059821	65,482	392	65,286	2,792,164	42.64
29	0.0060815	65,090	396	64,892	2,726,878	41.89
30	0.0061808	64,694	400	64,494	2,661,986	41.15
31	0.0062802	64,294	404	64,092	2,597,492	40.40
32	0.0063796	63,890	408	63,686	2,533,400	39.65
33	0.0064789	63,482	411	63,277	2,469,714	38.90
34	0.0065783	63,071	415	62,864	2,406,437	38.15
35	0.0066776	62,656	418	62,447	2,343,573	37.40
36	0.0068763	62,238	428	62,024	2,281,126	36.35
37	0.0069756	61,810	431	61,595	2,219,102	35.90
38	0.0071742	61,379	440	61,159	2,157,507	35.15

TABLE XI : CONTINUED

39	0.0072735	60,939	443	60,718	2,096,348	34.40
40	0.0074720	60,496	452	60,270	2,035,630	33.65
41	0.0076705	60,044	461	59,814	1,975,360	32.90
42	0.0078689	59,583	469	59,349	1,915,546	32.15
43	0.0080673	59,114	477	58,876	1,856,197	31.40
44	0.0083649	58,637	490	58,392	1,797,321	30.65
45	0.0085632	58,147	498	57,898	1,738,929	29.91
46	0.0088606	57,649	511	57,394	1,681,031	29.16
47	0.0091579	57,138	523	56,877	1,623,637	28.42
48	0.0094551	56,615	535	56,348	1,566,760	27.67
49	0.0098512	56,080	552	55,804	1,510,412	26.93
50	0.0101482	55,528	564	55,246	1,454,608	26.20
51	0.0106431	54,964	585	54,672	1,399,362	25.46
52	0.0110387	54,379	600	54,079	1,344,690	24.73
53	0.0115331	53,779	620	53,469	1,290,611	24.00
54	0.0120272	53,159	639	52,840	1,237,142	23.27
55	0.0126199	52,520	663	52,189	1,184,302	22.55
56	0.0129160	51,857	670	51,522	1,132,113	21.83
57	0.0140013	51,187	717	50,829	1,080,591	21.11
58	0.0146913	50,470	741	50,100	1,029,762	20.40
59	0.0155777	49,729	775	49,342	979,662	19.70
60	0.0165617	48,954	811	48,549	930,320	19.00
61	0.0175447	48,143	845	47,721	881,771	18.32
62	0.0187231	47,298	886	46,855	834,050	17.63
63	0.0199980	46,412	928	45,948	787,195	16.96
64	0.0214671	45,484	976	44,996	741,247	16.30
65	0.0230317	44,508	1,025	43,996	696,251	15.64
66	0.0243987	43,483	1,061	42,953	652,255	15.00
67	0.0269324	42,422	1,143	41,851	609,302	14.36
68	0.0292654	41,279	1,208	40,675	567,451	13.75
69	0.0320771	40,071	1,285	39,429	526,776	13.15
70	0.0349774	38,786	1,357	38,108	487,347	12.57
71	0.0384464	37,429	1,439	36,710	449,239	12.00
72	0.0423824	35,990	1,525	35,228	412,529	11.46
73	0.0469704	34,465	1,619	33,656	377,301	10.95
74	0.0522959	32,846	1,718	31,987	343,645	10.46
75	0.0585352	31,128	1,822	30,217	311,658	10.01
76	0.0655769	29,306	1,922	28,345	281,441	9.60
77	0.0741454	27,384	2,030	26,369	253,096	9.24
78	0.0841994	25,354	2,135	24,287	226,727	8.94
79	0.0959634	23,219	2,228	22,105	202,440	8.72
80+	1.0000000	20,991	20,991	180,335	180,335	8.59