Pakistan Institute of Development Economics: Provisional Abridged Life Tables for Urban and Rural Areas in Pakistan, Based on PGS 1968 and 1971 (by Naseem Iqbal Farooqui/Iqbal Alam); In: The Pakistan development review: PDR (1974)3, p. 335-352.

## Provisional Abridged Life Tables for Urban and Rural Areas in Pakistan, Based on PGS 1968 and 1971

NASEEM IQBAL FAROOQUI and IOBAL ALAM

## Introduction

As is the case in many other countries, mortality has been undergoing substantial, though not precisely understood, changes in Pakistan. In the absence of a reliable and adequate system of vital registration in the country. the precise measurement of these changes is well nigh impossible. In Pakistan, an attempt to estimate levels of fertility and mortality on a sample basis was made through the Population Growth Estimation (PGE) project undertaken from 1962 through 1965 [5, 12]. Subsequently, another demographic survey, called the Population Growth Survey (PGS), was initiated and carried out from 1968 through 1971 [13]. In the PGE a dual system of data collection was utilized based on continuous (Longitudinal) registration and a periodic (Cross-Sectional) survey. In the PGS, data were collected through periodic surveys only. Data from the PGS have only recently been made available to researchers. The present set of life tables is based on the mortality statistics collected in 1968 and 1971 field operations of the PGS.

Mortality conditions in Pakistan have shown considerable improvement during the last 25 years [9, 15]. Information for the early years is based mostly on special studies undertaken by Khan [8,9]. The crude death rate, estimated to range between 29 and 32 deaths per 1,000 population in 1951 [15], fell to the range of 12-16 in 1962-65, as derived from the PGE estimates [5], and is estimated to be 11—12 for 1968-71<sup>1</sup> [13]. We may, however, point out that the

The data for 1971 are based on Provisional Tables provided to the PIDE by the

Statistical Division, Government of Pakistan.

<sup>\*</sup>The authors are Staff Demographer and Research Demographer respectively at the Pakistan Institute of Development Economics (PIDE), Islamabad (Pakistan). They acknowledge helpful suggestions and comments of Mehtab S. Karim, Mohammad Afzal and J. Gilbert Hardee on an earlier draft. The authors alone, however, take full responsibility for any errors or omissions.

Appendix Table I C

Abridged Life Table for Rural Areas of Pakistan, Based on PGS: 1968 and 1971 Average

(x)     (a,a)     (i,a)     (							
4   0.1212000   1,00,000   12,120   91,516   52,44,168     4   0.066328   87,880   5,829   3,39,279   51,52,652     9   0.016373   82,051   1,343   4,06,898   48,13,373     14   0.010047   80,708   811   4,01,513   44,06,475     19   0.010195   79,897   815   3,97,448   40,04,962     24   0.010434   79,887   825   3,97,448   40,04,962     29   0.010823   78,257   847   3,89,168   32,14,166     39   0.011471   77,410   888   3,84,830   28,24,998     44   0.012575   76,522   962   3,80,205   24,40,168     39   0.014526   75,560   1,098   3,75,055   20,59,963     49   0.026324   73,099   1,924   3,60,685   13,16,005     59   0.046603   71,175   3,317   3,41,573   9,55,320     64   0.113104   67,858   7,675   3,20,103   6,07,747     64   0.113104 <td< th=""><th>(x)</th><th>(nqx)</th><th>(l<sub>x</sub>)</th><th>(ndx)</th><th>(nLx)</th><th>(T,)</th><th>(e°x)</th></td<>	(x)	(nqx)	(l <sub>x</sub> )	(ndx)	(nLx)	(T,)	(e°x)
4   0.066328   1,00,000   12,120   91,516   52,44,168     9   0.066328   87,880   5,829   3,39,279   51,52,652     9   0.016373   82,051   1,343   4,06,898   48,13,373     14   0.010047   80,708   811   4,01,513   44,06,475     19   0.010195   79,897   815   3,97,448   40,04,962     24   0.010434   79,082   825   3,93,348   36,07,514     29   0.010823   78,257   847   3,89,168   32,14,166     39   0.011471   77,410   888   3,84,830   28,24,998     39   0.012575   76,522   962   3,80,205   24,40,168     49   0.014526   75,560   1,998   3,75,055   20,59,63     49   0.018308   74,462   1,363   3,68,903   16,84,908     54   0.026324   73,099   1,924   3,60,685   13,16,005     59   0.046603   71,175   3,47,573   9,55,320     64   0.113104   60,183 <td< td=""><td>fales</td><td></td><td></td><td></td><td></td><td>in the second se</td><td></td></td<>	fales					in the second se	
4     0.066328     87,880     5,829     3,39,779     51,52,652       9     0.016373     82,051     1,343     4,06,898     48,13,373       14     0.010047     80,708     811     4,06,898     48,13,373       19     0.0100434     79,897     815     3,97,448     40,04,962       24     0.010823     78,257     847     3,89,168     35,14,166       29     0.010823     77,410     888     3,84,830     28,24,998       39     0.012575     76,522     962     3,80,205     24,40,168       49     0.014526     75,560     1,098     3,75,055     20,59,963       49     0.018308     74,462     1,363     3,60,685     16,84,908       54     0.046603     71,175     3,317     3,47,573     9,55,320       64     0.113104     67,858     7,675     3,20,103     6,07,747       64     0.113104     67,858     7,675     3,20,103     6,07,747       64     0.113104     60,183		0.1212000	1,00,000	12,120	91,516	52,44,168	52.44
9   0.016373   82,051   1,343   4,06,898   48,13,373     14   0.010047   80,708   811   4,01,513   44,06,475     19   0.010043   79,897   815   3,97,448   40,04,962     24   0.010434   79,082   825   3,93,348   36,07,514     29   0.010823   78,257   847   3,89,168   32,14,166     39   0.011471   77,410   888   3,84,830   28,24,998     39   0.014526   75,550   1,098   3,75,055   20,59,663     49   0.018308   74,462   1,363   3,60,685   16,84,908     54   0.026324   73,099   1,924   3,60,685   13,16,005     59   0.046603   71,175   3,47,573   9,55,320     64   0.113104   67,858   7,675   3,20,103   6,07,747     64   0.113104   67,858   7,675   3,20,103   6,07,747	4 — 1	0.066328	87,880	5,829	3,39,279	51,52,652	58.63
14   0.010047   80,708   811   4,01,513   44,06,475     19   0.010195   79,897   815   3,97,448   40,04,962     24   0.010823   78,257   847   3,89,168   35,14,166     29   0.010823   78,257   847   3,89,168   32,14,166     34   0.011471   77,410   888   3,84,830   28,24,998     39   0.012575   76,522   962   3,80,205   24,40,168     44   0.014526   75,560   1,098   3,75,055   20,59,963     49   0.018308   74,462   1,363   3,66,885   16,84,908     54   0.026324   73,099   1,924   3,60,885   13,16,005     59   0.046603   71,175   3,317   3,47,573   9,55,320     64   0.113104   67,858   7,675   3,20,103   6,07,747     64   0.113104   60,183   2,87,644   2,87,644	6 — 9	0.016373	82,051	1,343	4,06,898	48,13,373	58.66
19   0.010195   79,897   815   3,97,448   40,04,962     24   0.010434   79,082   825   3,93,348   36,07,514     29   0.010823   78,257   847   3,89,168   32,14,166     34   0.011471   77,410   888   3,84,830   28,24,998     39   0.012575   76,522   962   3,80,205   24,40,168     44   0.014526   75,560   1,098   3,75,055   20,59,963     49   0.018308   74,462   1,363   3,60,685   13,16,005     54   0.026324   73,099   1,924   3,60,685   13,16,005     59   0.046603   71,175   3,317   3,47,573   9,55,320     59   0.046603   71,175   3,20,103   6,07,747     64   0.113104   67,858   7,675   2,87,644   2,87,644	0 — 14	0.010047	80,708	811	4,01,513	44,06,475	54.60
24   0.010434   79,082   825   3,93,348   36,07,514     29   0.010823   78,257   847   3,89,168   32,14,166     34   0.011471   77,410   888   3,84,830   28,24,998     39   0.012575   76,522   962   3,80,205   24,40,168     44   0.014526   75,560   1,098   3,75,055   20,59,963     49   0.018308   74,462   1,363   3,68,903   16,84,908     54   0.026324   73,099   1,924   3,60,685   13,16,005     59   0.046603   71,175   3,317   3,47,573   9,55,320     59   0.113104   67,858   7,675   3,20,103   6,07,747     1.000000   60,183   2,87,644   2,87,644	5 - 19	0.010195	79,897	815	3,97,448	40,04,962	50.13
29   0.010823   78,257   847   3,89,168   32,14,166     34   0.011471   77,410   888   3,84,830   28,24,998     39   0.012575   76,522   962   3,80,205   24,40,168     44   0.014526   75,560   1,098   3,75,055   20,59,963     49   0.018308   74,462   1,363   3,68,903   16,84,908     54   0.026324   73,099   1,924   3,60,685   13,16,005     59   0.046603   71,175   3,317   3,47,573   9,55,320     64   0.113104   67,858   7,675   3,20,103   6,07,747     1.00000   60,183   2,87,644   2,87,644		0.010434	79,082	825	3,93,348	36,07,514	45.62
34   0.011471   77,410   888   3,84,830   28,24,998     39   0.012575   76,522   962   3,80,205   24,40,168     44   0.014526   75,560   1,098   3,75,055   20,59,963     49   0.018308   74,462   1,363   3,68,903   16,84,908     54   0.026324   73,099   1,924   3,60,685   13,16,005     59   0.046603   71,175   3,317   3,47,573   9,55,320     59   0.113104   67,858   7,675   3,20,103   6,07,747     1.000000   60,183   2,87,644   2,87,644		0.010823	78,257	847	3,89,168	32,14,166	41.07
39   0.012575   76,522   962   3,80,205   24,40,168     44   0.014526   75,560   1,098   3,75,055   20,59,963     49   0.018308   74,462   1,363   3,68,903   16,84,908     54   0.026324   73,099   1,924   3,60,685   13,16,005     59   0.046603   71,175   3,317   3,47,573   9,55,320     64   0.113104   67,858   7,675   3,20,103   6,07,747     1.000000   60,183   2,87,644   2,87,644		0.011471	77,410	888	3,84,830	28,24,998	36.49
0.014526   75,560   1,098   3,75,055   20,59,963     0.018308   74,462   1,363   3,68,903   16,84,908     0.026324   73,099   1,924   3,60,685   13,16,005     0.046603   71,175   3,317   3,47,573   9,55,320     0.113104   67,858   7,675   3,20,103   6,07,747     1.000000   60,183   60,183   2,87,644   2,87,644		0.012575	76,522	962	3,80,205	24,40,168	31.89
0.018308   74,462   1,363   3,68,903   16,84,908     0.026324   73,099   1,924   3,60,685   13,16,005     0.046603   71,175   3,317   3,47,573   9,55,320     0.113104   67,858   7,675   3,20,103   6,07,747     1.000000   60,183   2,87,644   2,87,644	4 - 0	0.014526	75,560	1,098	3,75,055	20,59,963	27.26
0.026324   73,099   1,924   3,60,685   13,16,005     0.046603   71,175   3,317   3,47,573   9,55,320     0.113104   67,858   7,675   3,20,103   6,07,747     1.000000   60,183   2,87,644   2,87,644	5 — 49	0.018308	74,462	1,363	3,68,903	16,84,908	22.63
0.046603   71,175   3,317   3,47,573   9,55,320     0.113104   67,858   7,675   3,20,103   6,07,747     1.000000   60,183   60,183   2,87,644   2,87,644	0 — 54	0.026324	73,099	1,924	3,60,685	13,16,005	18.00
0.113104 67,858 7,675 3,20,103 6,07,747   1.000000 60,183 60,183 2,87,644	5 — 59	0.046603	71,175	3,317	3,47,573	9,55,320	13.42
000000 60,183 60,183 2,87,644 2,87,644	20   02	0.113104	67,858	7,675	3,20,103	6,07,747	8.96
	+ 53	1.000000	60,183	60,183	2,87,644	2,87,644	4.78
						•	•

Continued
Ç
1
_O
able
E
pendix T
I xipu

,						
(x)	(nq <sub>x</sub> )	(Jr)	(zpu)	(aLx)	(T <sub>2</sub> )	(e° <sub>x</sub> )
Females						
0	0.109150	1,00,000	10,915	92,360	51,90,984	51.91
1 - 4	0.071032	89,085	6,328	3,43,052	50,98,624	57.23
5 - 9	0.015881	82,757	1,314	4,10,500	47,55,572	57.46
10 - 14	0.014897	81,443	1,213	4,04,183	43,45,072	53.35
15 - 19	0.019361	80,230	1,553	3,97,268	39,40,889	49.12
20 — 24	0.019367	78,677	1,524	3,89,575	35,43,621	45.04
25 — 29	0.019382	77,153	1,495	3,82,028	31,54,046	40.88
30 — 34	0.019423	75,658	1,470	3,74,615	27,72,018	36.64
35 — 39	0.019530	74,188	1,449	3,67,318	23,97,403	32.32
40 — 44	0.019817	72,739	1,441	3,60,093	20,30,085	27.91
45 — 49	0.020594	71,298	1,468	3,52,820	16,69,992	23.42
50 — 54	0.022808	69,830	1,593	3,45,168	13,17,172	18.86
<b>55</b> — 59	0.029883	68,237	2,039	3,37,868	9,72,004	14.24
60 – 64	0.060763	66,198	4,022	3,36,088	6,34,136	9.58
65 <del>+</del>	1.00000	62,176	62,176	2,98,048	2,98,048	4.79