

24 levels  
 $e_0 = 20(2.5) 77.5$  women

↑  
 lev 1

↑  
 lev 24

TABLE I.1. "WEST" MODEL LIFE TABLES ARRANGED BY LEVEL OF MORTALITY (continued)

LEVEL 9  $e_0 = 40$  (women)

Age x	$l_x$	$nM_x$	$q_x$	$nL_x$	$\frac{sL_x + 8}{sL_x}$	$T_x$	$e_x$
Females							
0	100,000	.2010	.1777	88,447	.7835 <sup>a</sup>	4,000,000	40.00
1	82,226	.0320	.1179	303,316	.9100 <sup>b</sup>	3,911,553	47.57
5	72,530	.0069	.0338	356,520	.9698	3,608,237	49.75
10	70,078	.0054	.0264	345,762	.9694	3,251,718	46.40
15	68,227	.0071	.0350	335,172	.9606	2,905,956	42.59
20	65,842	.0090	.0440	321,964	.9533	2,570,784	39.05
25	62,944	.0102	.0495	306,933	.9474	2,248,820	35.73
30	59,829	.0115	.0559	290,781	.9412	1,941,886	32.46
35	56,483	.0128	.0618	273,690	.9355	1,651,105	29.23
40	52,993	.0139	.0673	256,043	.9291	1,377,415	25.99
45	49,424	.0155	.0747	237,894	.9144	1,121,372	22.69
50	45,733	.0205	.0975	217,525	.8891	883,478	19.32
55	41,277	.0268	.1257	193,410	.8481	665,953	16.13
60	36,087	.0400	.1818	164,037	.7895	472,543	13.09
65	29,527	.0560	.2457	129,500	.7100	308,507	10.45
70	22,272	.0845	.3488	91,943	.6006	179,007	8.04
75	14,505	.1253	.4772	55,221	.3657 <sup>c</sup>	87,064	6.00
80	7,584	.2382	—	31,843	—	31,843	4.20
Males $e_0 = 37.3$							
0	100,000	.2408	.2074	86,106	.7567 <sup>a</sup>	3,730,053	37.30
1	79,263	.0321	.1183	292,227	.9088 <sup>b</sup>	3,643,947	45.97
5	69,888	.0065	.0322	343,818	.9722	3,351,720	47.96
10	67,639	.0047	.0233	334,258	.9722	3,007,902	44.47
15	66,064	.0066	.0324	324,977	.9610	2,673,644	40.47
20	63,926	.0094	.0459	312,305	.9517	2,348,667	36.74
25	60,995	.0104	.0508	297,226	.9454	2,036,363	33.39
30	57,895	.0121	.0585	281,009	.9365	1,739,137	30.04
35	54,509	.0142	.0688	263,172	.9240	1,458,128	26.75
40	50,760	.0175	.0837	243,182	.9088	1,194,955	23.54
45	46,512	.0209	.0994	220,999	.8872	951,774	20.46
50	41,887	.0273	.1277	196,068	.8572	730,775	17.45
55	36,540	.0348	.1602	168,066	.8136	534,706	14.63
60	30,686	.0489	.2177	136,730	.7510	366,640	11.95
65	24,006	.0676	.2891	102,678	.6693	229,910	9.58
70	17,066	.0967	.3893	68,718	.5598	127,231	7.46
75	10,421	.1418	.5234	38,471	.3425 <sup>c</sup>	58,514	5.62
80	4,967	.2478	—	20,043	—	20,043	4.04

<sup>a</sup> Proportion surviving from birth to 0-4.  
<sup>b</sup>  $sL_5/sL_0$ .  
<sup>c</sup>  $T_{80}/T_{75}$ .

$\frac{88447}{4 \text{ mln}} = 0.022$

= share age 0

$\frac{303316}{4 \text{ mln}} = 0.076$

= share aged 1-4

$\frac{164000}{4 \text{ mln}} = 0.041$

Stationary →

$CDR = \frac{I}{40} = 0.025$

= CBR

From: UN Manual IV: Methods of Estimating Basic Demographic Measures from Incomplete Data 1962

Regional Model Life Table



PROPORTIONS AT AGE(X), PROPORTIONS UP TO AGE(X), AND VARIOUS INDICES, AT GIVEN RATES OF POPULATION GROWTH

MODEL WEST MALES

MODEL WEST MALES

(%)

$R = CBR - CDR$

$C_0 = 47, 1$

MORTALITY LEVEL 13

AGE	R = -10.00	-5.00	0.	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80+	TOT
0-1	1.36	1.63	1.92	2.25	2.60	2.97	3.37	3.79	4.22	4.67	5.12	5.59	6.06	6.54	7.02	7.50	7.98	8.46	8.94	100.00
1-4	5.06	5.97	6.96	8.04	9.17	10.37	11.60	12.87	14.17	15.47	16.78	18.08	19.37	20.66	21.95	23.24	24.53	25.82	27.11	100.00
5-9	6.38	7.36	8.40	9.48	10.58	11.69	12.79	13.88	14.93	15.94	16.90	17.81	18.65	19.44	20.18	20.87	21.51	22.10	22.64	100.00
10-14	6.59	7.41	8.25	9.08	9.88	10.65	11.37	12.03	12.62	13.14	13.59	13.97	14.27	14.48	14.60	14.63	14.56	14.39	14.12	100.00
15-19	6.80	7.46	8.10	8.69	9.23	9.70	10.10	10.42	10.66	10.83	10.92	10.95	10.91	10.78	10.55	10.22	9.79	9.26	8.64	100.00
20-24	6.96	7.45	7.88	8.25	8.53	8.76	8.89	8.95	8.93	8.85	8.71	8.51	8.27	7.94	7.52	7.00	6.39	5.68	4.88	100.00
25-29	7.07	7.39	7.63	7.79	7.86	7.86	7.79	7.64	7.44	7.19	6.90	6.57	6.23	5.80	5.28	4.67	3.97	3.18	2.34	100.00
30-34	7.16	7.30	7.35	7.32	7.21	7.03	6.79	6.50	6.17	5.81	5.44	5.06	4.67	4.24	3.78	3.29	2.76	2.19	1.60	100.00
35-39	7.21	7.16	7.03	6.83	6.56	6.24	5.92	5.49	5.08	4.67	4.26	3.87	3.49	3.07	2.63	2.19	1.74	1.28	0.83	100.00
40-44	7.19	7.07	6.86	6.67	6.36	6.04	5.72	5.30	4.91	4.52	4.14	3.77	3.41	3.06	2.72	2.39	2.06	1.74	1.43	100.00
45-49	7.07	6.96	6.74	6.56	6.24	5.92	5.60	5.28	4.97	4.67	4.37	4.07	3.78	3.50	3.23	2.97	2.72	2.47	2.22	100.00
50-54	6.82	6.29	5.73	5.16	4.60	4.17	3.79	3.42	3.07	2.72	2.54	2.39	2.24	2.10	1.97	1.88	1.79	1.72	1.66	100.00
55-59	6.39	5.74	5.10	4.48	3.90	3.35	2.86	2.42	2.02	1.70	1.50	1.40	1.34	1.30	1.28	1.27	1.26	1.25	1.24	100.00
60-64	5.72	5.02	4.35	3.73	3.16	2.65	2.20	1.82	1.48	1.20	1.00	0.90	0.86	0.83	0.82	0.81	0.80	0.79	0.78	100.00
65-69	4.79	4.09	3.46	2.89	2.39	1.96	1.59	1.27	1.02	0.80	0.63	0.49	0.38	0.30	0.25	0.21	0.18	0.15	0.12	100.00
70-74	3.61	3.01	2.48	2.02	1.63	1.30	1.03	0.81	0.63	0.48	0.37	0.28	0.21	0.16	0.12	0.09	0.07	0.05	0.04	100.00
75-79	2.33	1.89	1.52	1.21	0.95	0.74	0.57	0.44	0.33	0.25	0.19	0.14	0.10	0.07	0.05	0.04	0.03	0.02	0.01	100.00
80+	1.50	1.18	0.92	0.71	0.54	0.41	0.31	0.23	0.17	0.12	0.09	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.01	100.00
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Kilke: A-J. Coale + P. Demeny  
 "Regional Model Life Tables and  
 Stable Populations"  
 Princeton University Press, 1966

BIRTH RATE	DEATH RATE	GRR (27)	GRR (29)	GRR (31)	GRR (33)	AVERAGE AGE	BIRTHS/P. 15-44	PROP. -4/15-44	POP. 5-14/5+OVR	DEPENDENCY RATIO	POP. SIZE, B101=1
14.95	24.95	1.063	1.053	1.049	1.049	37.34	0.035	0.151	0.596	66.872	55.808
17.92	22.92	1.217	1.223	1.230	1.236	35.01	0.041	0.160	0.602	47.114	40.222
21.22	21.22	1.391	1.412	1.434	1.456	32.74	0.048	0.174	0.620	40.222	34.707
24.86	19.86	1.589	1.628	1.670	1.714	30.55	0.055	0.228	0.650	34.707	30.254
28.81	18.81	1.813	1.876	1.943	2.015	28.46	0.064	0.260	0.692	30.254	26.626
33.05	18.05	2.067	2.159	2.258	2.366	26.49	0.073	0.296	0.747	26.626	23.642
37.56	17.56	2.354	2.481	2.621	2.776	24.64	0.084	0.337	0.813	23.642	21.166
42.30	17.30	2.678	2.849	3.035	3.253	22.92	0.097	0.382	0.891	21.166	19.094
47.24	17.24	3.044	3.268	3.520	3.809	21.34	0.111	0.433	0.983	19.094	17.346
52.37	17.37	3.457	3.744	4.073	4.455	19.89	0.128	0.490	1.087	17.346	15.857
57.65	17.65	3.921	4.286	4.707	5.206	18.56	0.146	0.554	1.204	15.857	14.581
63.06	18.06	4.445	4.900	5.434	6.078	17.35	0.166	0.625	1.336	14.581	13.424
68.58	18.58	5.034	5.597	6.267	7.088	16.24	0.191	0.704	1.482	13.424	12.379
74.33	19.33	5.794	6.484	7.294	8.264	15.24	0.222	0.794	1.647	12.379	11.441
80.44	20.44	6.744	7.584	8.584	9.764	14.34	0.266	0.894	1.834	11.441	10.604
87.00	21.80	7.944	8.944	10.144	11.544	13.54	0.324	1.014	2.044	10.604	9.864
94.11	23.51	9.444	10.644	12.044	13.744	12.84	0.394	1.164	2.284	9.864	9.214
101.77	25.67	11.344	12.844	14.444	16.444	12.24	0.484	1.344	2.564	9.214	8.644
110.00	28.24	13.844	15.644	17.444	20.044	11.74	0.604	1.564	2.944	8.644	8.144
120.00	31.44	16.444	18.444	20.444	24.044	11.34	0.764	1.844	3.444	8.144	7.744
130.00	35.44	19.444	21.644	23.444	28.444	11.04	0.964	2.244	4.044	7.744	7.444
140.00	40.44	23.044	25.444	27.444	33.444	10.84	1.204	2.744	4.844	7.444	7.144
150.00	46.44	27.444	30.444	32.444	39.444	10.74	1.484	3.344	5.844	7.144	6.944
160.00	53.44	32.644	36.444	38.444	46.444	10.74	1.804	4.044	7.044	6.944	6.844
170.00	61.44	38.644	43.444	45.444	54.444	10.84	2.164	4.844	8.044	6.844	6.844
180.00	70.44	45.444	51.444	54.444	64.444	11.04	2.564	5.844	9.244	6.844	6.844
190.00	80.44	53.444	60.444	64.444	76.444	11.34	3.004	7.044	10.644	6.844	6.844
200.00	91.44	62.444	70.444	76.444	90.444	11.74	3.584	8.444	12.244	6.844	6.844
210.00	103.44	72.444	81.444	88.444	106.444	12.24	4.304	10.044	14.044	6.844	6.844
220.00	116.44	83.444	93.444	101.444	124.444	12.84	5.164	12.044	16.044	6.844	6.844
230.00	130.44	95.444	106.444	116.444	144.444	13.54	6.164	14.444	18.444	6.844	6.844
240.00	145.44	109.444	121.444	133.444	166.444	14.34	7.304	17.044	21.444	6.844	6.844
250.00	161.44	125.444	138.444	152.444	191.444	15.24	8.584	20.044	25.444	6.844	6.844
260.00	178.44	143.444	157.444	174.444	220.444	16.24	10.004	23.444	30.444	6.844	6.844
270.00	196.44	163.444	178.444	199.444	264.444	17.34	11.664	27.444	36.444	6.844	6.844
280.00	215.44	184.444	200.444	227.444	324.444	18.54	13.564	32.444	43.444	6.844	6.844
290.00	235.44	206.444	224.444	258.444	400.444	20.04	15.704	38.444	51.444	6.844	6.844
300.00	256.44	229.444	250.444	292.444	494.444	21.74	18.184	45.444	60.444	6.844	6.844
310.00	278.44	254.444	278.444	330.444	608.444	23.64	21.004	53.444	70.444	6.844	6.844
320.00	301.44	280.444	308.444	372.444	744.444	25.74	24.164	62.444	81.444	6.844	6.844
330.00	325.44	307.444	340.444	418.444	904.444	28.04	27.664	72.444	93.444	6.844	6.844
340.00	350.44	335.444	374.444	468.444	1088.444	30.54	31.504	83.444	106.444	6.844	6.844
350.00	376.44	364.444	410.444	522.444	1296.444	33.24	35.684	95.444	120.444	6.844	6.844
360.00	403.44	394.444	449.444	580.444	1528.444	36.14	40.204	108.444	135.444	6.844	6.844
370.00	431.44	425.444	490.444	642.444	1784.444	39.24	45.164	123.444	151.444	6.844	6.844
380.00	460.44	457.444	533.444	708.444	2064.444	42.54	50.464	139.444	168.444	6.844	6.844
390.00	490.44	490.444	578.444	778.444	2368.444	46.04	56.104	156.444	186.444	6.844	6.844
400.00	521.44	524.444	625.444	852.444	2696.444	49.74	62.184	174.444	205.444	6.844	6.844
410.00	553.44	559.444	674.444	930.444	3048.444	53.64	68.704	192.444	225.444	6.844	6.844
420											