

Historic Modelling

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Table # 4a				
Gompertz Regression: Historical Coefficients				
	Dispersion Coefficient m		Modal Value b	
Year	MALE	FEMALE	MALE	FEMALE
1945	76.86 ± 2.10	80.24 ± 1.07	11.05 ± 1.02	10.20 ± 0.88
1948	77.22 ± 2.18	81.11 ± 0.88	11.45 ± 0.83	10.17 ± 0.56
1951	76.92 ± 2.19	80.76 ± 0.92	11.02 ± 0.79	9.85 ± 0.54
1954	77.68 ± 1.67	81.57 ± 0.71	10.93 ± 0.63	9.82 ± 0.50
1957	77.43 ± 1.70	81.68 ± 0.76	10.92 ± 0.60	9.68 ± 0.50
1960	77.81 ± 1.52	82.15 ± 0.72	10.78 ± 0.64	9.50 ± 0.50
1963	77.51 ± 1.46	82.17 ± 0.74	10.80 ± 0.61	9.51 ± 0.48
1966	77.74 ± 1.53	82.67 ± 0.87	10.92 ± 0.61	9.56 ± 0.49
1969	77.65 ± 1.57	82.76 ± 0.93	10.98 ± 0.58	9.73 ± 0.49
1972	78.14 ± 1.35	83.43 ± 0.80	11.00 ± 0.58	9.63 ± 0.55
1975	78.39 ± 1.22	83.91 ± 0.85	10.91 ± 0.57	9.66 ± 0.59
1978	78.90 ± 1.05	84.58 ± 0.85	10.88 ± 0.51	9.56 ± 0.66
1981	79.38 ± 0.95	85.01 ± 0.86	10.75 ± 0.51	9.57 ± 0.63
1984	79.95 ± 0.96	85.55 ± 0.87	10.67 ± 0.49	9.58 ± 0.58
1987	80.41 ± 0.90	85.95 ± 0.87	10.64 ± 0.50	9.52 ± 0.56
1990	80.92 ± 0.89	86.25 ± 0.98	10.40 ± 0.42	9.37 ± 0.60
1993	81.43 ± 1.05	86.52 ± 1.16	10.15 ± 0.39	9.28 ± 0.53
1996	82.06 ± 1.06	87.04 ± 1.09	10.05 ± 0.47	9.28 ± 0.54
1999	82.52 ± 0.99	87.31 ± 1.11	9.91 ± 0.52	9.26 ± 0.44
2002	83.17 ± 1.00	87.71 ± 1.16	9.87 ± 0.54	9.25 ± 0.41
2005	83.88 ± 1.02	88.41 ± 1.10	9.86 ± 0.62	9.28 ± 0.42
2008	84.49 ± 0.99	88.86 ± 1.07	9.87 ± 0.67	9.32 ± 0.42
2011	85.22 ± 0.95	89.47 ± 1.05	9.86 ± 0.66	9.35 ± 0.40
<i>Source: Human Mortality Database, Period 1945-2011, 15 Countries</i>				

Table # 4b						
CLaM Regression: Historical Coefficients						
	Slope: (x^*)		Intercept (L)		Mortality Rate (G)	
Year	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
1945	81.71 ± 5.51	69.14 ± 3.79	-1.97 ± 0.50	-3.41 ± 0.37	0.0912	0.0987
1948	92.88 ± 3.93	73.66 ± 4.59	-1.07 ± 0.35	-3.05 ± 0.45	0.0878	0.0986
1951	90.46 ± 5.62	73.74 ± 5.01	-1.17 ± 0.51	-3.00 ± 0.51	0.0911	0.1018
1954	87.37 ± 5.96	71.35 ± 4.18	-1.51 ± 0.55	-3.33 ± 0.43	0.0918	0.1020
1957	91.31 ± 5.51	74.71 ± 4.42	-1.12 ± 0.51	-2.99 ± 0.46	0.0918	0.1036
1960	87.28 ± 4.75	73.10 ± 4.13	-1.50 ± 0.44	-3.21 ± 0.44	0.0930	0.1055
1963	85.71 ± 5.00	74.51 ± 4.20	-1.62 ± 0.46	-3.06 ± 0.44	0.0929	0.1054
1966	87.03 ± 5.28	72.94 ± 5.03	-1.54 ± 0.49	-3.28 ± 0.53	0.0919	0.1049
1969	86.79 ± 6.24	69.71 ± 5.24	-1.56 ± 0.57	-3.62 ± 0.54	0.0913	0.1030
1972	84.38 ± 5.32	74.46 ± 4.12	-1.83 ± 0.49	-3.20 ± 0.43	0.0911	0.1042
1975	80.19 ± 5.52	72.73 ± 4.07	-2.23 ± 0.51	-3.43 ± 0.42	0.0919	0.1038
1978	79.23 ± 5.50	73.96 ± 3.54	-2.36 ± 0.51	-3.37 ± 0.37	0.0921	0.1051
1981	78.85 ± 4.93	76.55 ± 3.74	-2.43 ± 0.46	-3.14 ± 0.39	0.0932	0.1049
1984	81.50 ± 4.80	79.82 ± 4.00	-2.22 ± 0.45	-2.86 ± 0.42	0.0939	0.1048
1987	81.76 ± 4.03	83.23 ± 3.79	-2.24 ± 0.38	-2.54 ± 0.40	0.0942	0.1054
1990	80.82 ± 5.31	83.38 ± 3.90	-2.35 ± 0.51	-2.54 ± 0.42	0.0963	0.1071
1993	82.75 ± 6.86	86.66 ± 5.10	-2.19 ± 0.68	-2.22 ± 0.55	0.0987	0.1081
1996	88.05 ± 4.43	89.08 ± 4.06	-1.71 ± 0.44	-2.01 ± 0.44	0.0997	0.1081
1999	86.16 ± 3.84	92.74 ± 4.97	-1.93 ± 0.39	-1.64 ± 0.54	0.1012	0.1083
2002	85.30 ± 3.97	92.36 ± 6.09	-2.08 ± 0.40	-1.72 ± 0.66	0.1016	0.1083
2005	85.25 ± 3.47	92.54 ± 5.45	-2.15 ± 0.35	-1.78 ± 0.59	0.1018	0.1079
2008	85.37 ± 2.85	91.18 ± 5.59	-2.20 ± 0.29	-1.98 ± 0.60	0.1017	0.1076
2011	85.70 ± 2.80	86.92 ± 6.66	-2.24 ± 0.29	-2.51 ± 0.71	0.1018	0.1072
<i>Source: Human Mortality Database, Period 1945-2011, 15 Countries</i>						