

Revised Tables: By Ariel Sosnovsky

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Table # 1b							
Gompertz-Makeham Parameters Around the World: FEMALE							
Country	$\ln h[i]$	$\lambda_0[i]$	Makeham: λ	$g[i]$	$\lambda_{55}[i]$	m	b
1. Australia	-12.243	30.5×10^{-5}	30.0×10^{-5}	11.11%	0.273%	90.40	9.00
2. Austria	-11.818	2.8×10^{-5}	2.0×10^{-5}	10.77%	0.309%	89.05	9.29
3. Belgium	-11.473	12.2×10^{-5}	11.0×10^{-5}	10.36%	0.356%	88.83	9.65
4. Bulgaria	-11.363	49.3×10^{-5}	48.0×10^{-5}	10.84%	0.552%	84.31	9.22
5. Belarus	-10.646	70.6×10^{-5}	68.0×10^{-5}	9.95%	0.695%	83.78	10.05
6. Canada	-11.656	17.0×10^{-5}	16.0×10^{-5}	10.45%	0.318%	89.91	9.57
7. Switzerland	-12.164	6.6×10^{-5}	6.0×10^{-5}	11.02%	0.255%	90.39	9.08
8. Czechia	-11.846	16.8×10^{-5}	16.0×10^{-5}	11.17%	0.389%	86.42	8.95
9. Germany	-11.773	9.9×10^{-5}	9.0×10^{-5}	10.79%	0.333%	88.49	9.27
10. Denmark	-11.530	2.1×10^{-5}	1.0×10^{-5}	10.60%	0.374%	87.57	9.43
11. Spain	-12.223	15.5×10^{-5}	15.0×10^{-5}	11.02%	0.250%	90.94	9.08
12. Estonia	-10.986	14.9×10^{-5}	13.0×10^{-5}	9.96%	0.460%	87.16	10.04
13. Finland	-11.740	7.9×10^{-5}	7.0×10^{-5}	10.64%	0.316%	89.27	9.40
14. France	-11.509	20.1×10^{-5}	19.0×10^{-5}	10.08%	0.303%	91.41	9.92
15. U.K.	-11.715	26.9×10^{-5}	26.0×10^{-5}	10.67%	0.347%	88.85	9.38
16. Greece	-12.483	23.4×10^{-5}	23.0×10^{-5}	11.59%	0.272%	89.14	8.63
17. Croatia	-11.693	1.9×10^{-5}	1.0×10^{-5}	11.07%	0.412%	85.75	9.03
18. Hungary	-10.718	3.4×10^{-5}	1.0×10^{-5}	9.95%	0.585%	84.49	10.05
19. Ireland	-11.619	7.0×10^{-5}	6.0×10^{-5}	10.58%	0.342%	88.61	9.45
20. Israel	-12.339	21.5×10^{-5}	21.0×10^{-5}	11.39%	0.279%	89.25	8.78
21. Italy	-12.374	14.5×10^{-5}	14.0×10^{-5}	11.31%	0.252%	90.14	8.84
22. Japan	-12.252	37.5×10^{-5}	37.0×10^{-5}	10.85%	0.245%	92.44	9.22
23. Korea	-13.150	46.2×10^{-5}	46.0×10^{-5}	12.27%	0.233%	90.10	8.15
24. Lithuania	-10.550	40.9×10^{-5}	38.0×10^{-5}	9.57%	0.596%	85.70	10.45
25. Luxembourg	-11.787	1.8×10^{-5}	1.0×10^{-5}	10.75%	0.314%	88.90	9.30
26. Latvia	-10.467	15.1×10^{-5}	12.0×10^{-5}	9.56%	0.612%	84.96	10.46
27. Netherlands	-11.554	10.1×10^{-5}	9.0×10^{-5}	10.50%	0.352%	88.60	9.53
28. Norway	-11.878	3.8×10^{-5}	3.0×10^{-5}	10.84%	0.304%	89.06	9.22
29. New Zealand	-11.948	31.7×10^{-5}	31.0×10^{-5}	10.96%	0.330%	88.86	9.13
30. Poland	-11.145	7.6×10^{-5}	6.0×10^{-5}	10.23%	0.449%	86.69	9.78
31. Portugal	-12.120	25.6×10^{-5}	25.0×10^{-5}	11.10%	0.298%	89.36	9.01
32. Russia	-10.971	154.9×10^{-5}	153.0×10^{-5}	10.34%	0.716%	84.15	9.67
33. Slovakia	-11.393	6.3×10^{-5}	5.0×10^{-5}	10.72%	0.461%	85.45	9.33
34. Slovenia	-11.635	2.0×10^{-5}	1.0×10^{-5}	10.64%	0.343%	88.32	9.40
35. Sweden	-12.242	9.5×10^{-5}	9.0×10^{-5}	11.28%	0.276%	89.17	8.86
36. Taiwan	-11.928	38.7×10^{-5}	38.0×10^{-5}	10.95%	0.342%	88.75	9.13
37. Ukraine	-11.257	123.4×10^{-5}	122.0×10^{-5}	10.79%	0.664%	83.73	9.27
38. U.S.A.	-10.940	39.0×10^{-5}	37.0×10^{-5}	9.77%	0.458%	88.19	10.24
Average:	- 11.661	25.5×10^{-5}	24.4×10^{-5}	10.70%	0.386%	88.07	9.37
Source: Human Mortality Database, Period 2011							

Table # 1a							
Gompertz-Makeham Parameters Around the World: MALE							
Country	$\ln h[i]$	$\lambda_0[i]$	Makeham: λ	$g[i]$	$\lambda_{55}[i]$	m	b
1. Australia	-11.693	63.9×10^{-5}	63.0×10^{-5}	10.92%	0.442%	86.78	9.16
2. Austria	-10.681	3.5×10^{-5}	1.0×10^{-5}	9.91%	0.590%	84.49	10.10
3. Belgium	-10.656	19.6×10^{-5}	17.0×10^{-5}	9.89%	0.616%	84.36	10.11
4. Bulgaria	-9.367	10.3×10^{-5}	1.0×10^{-5}	8.86%	1.220%	78.39	11.29
5. Belarus	-7.640	52.5×10^{-5}	1.0×10^{-5}	6.90%	2.289%	72.00	14.50
6. Canada	-11.140	33.6×10^{-5}	32.0×10^{-5}	10.28%	0.492%	86.23	9.73
7. Switzerland	-11.551	22.1×10^{-5}	21.0×10^{-5}	10.79%	0.426%	86.42	9.27
8. Czechia	-10.150	5.3×10^{-5}	1.0×10^{-5}	9.60%	0.844%	81.34	10.42
9. Germany	-10.631	3.7×10^{-5}	1.0×10^{-5}	9.90%	0.619%	84.02	10.10
10. Denmark	-10.633	7.7×10^{-5}	5.0×10^{-5}	9.92%	0.630%	83.87	10.08
11. Spain	-10.737	3.4×10^{-5}	1.0×10^{-5}	9.87%	0.546%	85.35	10.14
12. Estonia	-9.014	14.2×10^{-5}	1.0×10^{-5}	8.25%	1.240%	78.98	12.11
13. Finland	-10.391	27.4×10^{-5}	24.0×10^{-5}	9.59%	0.683%	83.93	10.43
14. France	-10.211	28.0×10^{-5}	24.0×10^{-5}	9.17%	0.650%	85.27	10.90
15. U.K.	-11.230	60.5×10^{-5}	59.0×10^{-5}	10.47%	0.526%	85.69	9.55
16. Greece	-10.309	9.7×10^{-5}	6.0×10^{-5}	9.39%	0.645%	84.63	10.65
17. Croatia	-10.070	5.7×10^{-5}	1.0×10^{-5}	9.57%	0.902%	80.69	10.45
18. Hungary	-9.293	11.1×10^{-5}	1.0×10^{-5}	8.72%	1.220%	78.56	11.46
19. Ireland	-11.191	36.5×10^{-5}	35.0×10^{-5}	10.50%	0.527%	85.15	9.53
20. Israel	-10.950	2.9×10^{-5}	1.0×10^{-5}	10.02%	0.482%	86.31	9.98
21. Italy	-11.453	18.2×10^{-5}	17.0×10^{-5}	10.75%	0.454%	85.79	9.30
22. Japan	-11.113	34.7×10^{-5}	33.0×10^{-5}	10.28%	0.505%	85.98	9.73
23. Korea	-10.639	31.6×10^{-5}	29.0×10^{-5}	9.92%	0.648%	83.96	10.08
24. Lithuania	-8.046	35.4×10^{-5}	1.0×10^{-5}	7.14%	1.744%	75.75	14.01
25. Luxembourg	-11.236	2.5×10^{-5}	1.0×10^{-5}	10.64%	0.512%	84.53	9.40
26. Latvia	-8.398	25.3×10^{-5}	1.0×10^{-5}	7.62%	1.608%	76.43	13.12
27. Netherlands	-11.432	13.2×10^{-5}	12.0×10^{-5}	10.80%	0.471%	85.25	9.26
28. Norway	-11.390	29.3×10^{-5}	28.0×10^{-5}	10.72%	0.485%	85.43	9.33
29. New Zealand	-11.353	44.3×10^{-5}	43.0×10^{-5}	10.58%	0.481%	86.10	9.45
30. Poland	-9.092	13.2×10^{-5}	1.0×10^{-5}	8.27%	1.156%	79.80	12.09
31. Portugal	-10.208	35.0×10^{-5}	31.0×10^{-5}	9.35%	0.722%	83.87	10.70
32. Russia	-7.941	250.2×10^{-5}	212.0×10^{-5}	7.15%	2.161%	74.18	13.99
33. Slovakia	-9.511	9.1×10^{-5}	1.0×10^{-5}	8.93%	1.102%	79.44	11.20
34. Slovenia	-10.402	4.3×10^{-5}	1.0×10^{-5}	9.72%	0.703%	83.03	10.29
35. Sweden	-11.693	20.9×10^{-5}	20.0×10^{-5}	11.07%	0.431%	85.76	9.04
36. Taiwan	-9.735	92.5×10^{-5}	86.0×10^{-5}	8.69%	0.856%	83.88	11.50
37. Ukraine	-8.307	169.6×10^{-5}	143.0×10^{-5}	7.64%	1.920%	75.09	13.09
38. U.S.A.	-10.101	57.5×10^{-5}	53.0×10^{-5}	9.14%	0.738%	84.36	10.94
Average:	-10.252	34.4×10^{-5}	26.6×10^{-5}	9.50%	0.850%	82.66	10.70
Source: Human Mortality Database, Period 2011							

Table #2:						
CLaM Regression Line Around the World						
Variable	MALE			FEMALE		
	Coeff.	Std.Er	t-val.	Coeff.	Std.Er	t-val.
Intercept (L)	-0.942	0.184	-5.116	-1.264	0.679	-1.861
Slope: $(-x^*)$	-98.033	1.924	-50.944	-97.211	6.342	-15.329
Adj. R^2	98.59%			86.35%		
Range: $g[i]$	(6.90%, 11.07%)			(9.56%, 12.27%)		
Average: $g[i]$	G = 9.50%%			G = 10.70%%		
Plateau (+/-): λ^*	(0.270, 0.564)			(0.073, 1.099)		
Countries	$N = 38$			$N = 38$		

Note: These are the results from regressing the (male and female) Gompertz-Makeham (log) mortality intercepts $\ln h[i]$ on the mortality growth rates $g[i]$, from the Human Mortality Database (HMD) for *period* mortality in 2011. This is the second phase regression.

Table # 3						
Mortality-Adjusted Biological Ages (ξ) Around the World						
	MALE			FEMALE		
Country	$x = 55$	$x = 70$	$x = 85$	$x = 55$	$x = 70$	$x = 85$
1. Australia	48.55	65.80	83.05	53.35	68.94	84.52
2. Austria	53.15	68.80	84.44	54.71	69.81	84.92
3. Belarus	66.79	77.68	88.57	57.93	71.89	85.85
4. Belgium	53.23	68.85	84.46	56.31	70.84	85.38
5. Bulgaria	57.90	71.89	85.88	54.42	69.62	84.83
6. Canada	51.45	67.69	83.93	55.96	70.62	85.28
7. Croatia	54.66	69.78	84.90	53.52	69.05	84.57
8. Czechia	54.55	69.71	84.86	53.12	68.79	84.46
9. Denmark	53.07	68.74	84.42	55.36	70.23	85.10
10. Estonia	60.63	73.67	86.71	57.91	71.88	85.84
11. Finland	54.59	69.74	84.88	55.21	70.14	85.06
12. France	56.46	70.95	85.44	57.43	71.56	85.70
13. Germany	53.17	68.81	84.45	54.63	69.76	84.89
14. Greece	55.50	70.33	85.15	51.49	67.74	83.98
15. Hungary	58.51	72.29	86.06	57.92	71.88	85.85
16. Ireland	50.48	67.05	83.63	55.46	70.30	85.13
17. Israel	52.62	68.45	84.28	52.25	68.23	84.21
18. Italy	49.32	66.30	83.28	52.58	68.44	84.30
19. Japan	51.46	67.69	83.93	54.39	69.60	84.82
20. Korea	53.09	68.76	84.42	48.80	66.00	83.21
21. Latvia	63.50	75.54	87.58	59.50	72.90	86.30
22. Lithuania	65.69	76.97	88.24	59.43	72.86	86.28
23. Luxembourg	49.81	66.62	83.43	54.78	69.86	84.94
24. Netherlands	49.10	66.16	83.21	55.79	70.51	85.23
25. New Zealand	50.11	66.82	83.52	53.97	69.33	84.70
26. Norway	49.47	66.40	83.33	54.42	69.63	84.83
27. Poland	60.56	73.62	86.69	56.85	71.20	85.54
28. Portugal	55.69	70.45	85.21	53.39	68.96	84.53
29. Russia	65.65	76.94	88.22	56.40	70.90	85.41

30. Slovakia	57.57	71.67	85.78	54.90	69.94	84.97
31. Slovenia	53.99	69.34	84.69	55.23	70.15	85.07
32. Spain	53.33	68.91	84.49	53.74	69.19	84.63
33. Sweden	47.89	65.37	82.85	52.68	68.51	84.33
34. Switzerland	49.14	66.18	83.23	53.73	69.18	84.63
35. Taiwan	58.64	72.37	86.10	54.00	69.36	84.71
36. U.K.	50.59	67.12	83.66	55.12	70.07	85.03
37. U.S.A.	56.63	71.06	85.49	58.66	72.36	86.06
38. Ukraine	63.43	75.49	87.55	54.65	69.77	84.90
Average:	55.00	70.00	85.00	55.00	70.00	85.00
<i>Source: Human Mortality Database, Period 2011</i>						