

**You can estimate the:**

- Healthy Life Expectancy (HLE),
- Life Expectancy (LE),
- Loss of Healthy Life Years (LHLY)

by downloading the appropriate model from this webpage (at up right place)

The program provides the extended Life Table of the Abridged Life Table presented here.

You will need the data for nMx from the World Health Organization (WHO) database and paste this data in the related place in the life table.

Download the data for the WHO member countries from this webpage (at up right place) or from the WHO website at: <file:///C:/Users/user/Desktop/Global%20Health%20Observatory%20Data%20Repository.htm>

You can also find the Full Life Table alternative (at up right place of this webpage) and you can use the data from the Human Mortality Database (HMD) at: <http://www.mortality.org/>

In the example presented here the data are from WHO males (2012). The results from the Model and the HALE method of WHO are (in years of age):

- LE (Model 68.0, HALE 68.1)**
- HLE (Model 60.2, HALE 60.1)**
- LHLY (Model 7.8, HALE 8.0)**

The estimates are very close in both methods and the same holds for a considerable part of the WHO member countries (download the paper at up right place of this webpage).

<b>WHO</b>
<b>Global</b>
<b>Male nMx</b>
0.038203
0.003298
0.001452
0.000966
0.001408
0.001881
0.002184
0.002655
0.003227
0.003947
0.005487
0.008212
0.012249
0.018801
0.028482
0.044468
0.067351
0.103908
0.15364
0.233334
0.310501
0.394958

Verifying the HALE measures of the Global Burden of Disease Study: A New Mortality Model for Estimating the Loss of Healthy Life Years and the Healthy Life Expectancy from the Abridged Life Table (0 -100) Provided by the World Health Organization (WHO)											
The Abridged Life Table Including Life Expectancy, Loss of Healthy Life Years and Healthy Life Expectancy Estimation											
Data Intoduction			Life Expectancy Estimation					Healthy Life Expectancy Estimation			
Age Category	Mortality		100.000 population Sx and Number of Deaths dx		Survivorship	Tx=S(Lx)	Life Expectancy	Mortality from fitting T=	Loss of Healthy Life Years (at birth = b+1)	Healthy Life Expectancy HLE	Linear Model
	<b>20</b>							<b>114.7</b>	<b>7.82</b>	<b>60.22</b>	b=1
x	μx	qx	Sx	dx	Lx	Tx	ex	(μx)*	LHLY	HLE	Linear
0	0.038203	0.03680	100000	3,680	96,688	6,804,115	<b>68.0</b>	0.0000	<b>7.8</b>	<b>60.2</b>	0.000
1	0.003298	0.01317	96320	1,269	382,744	6,707,427	69.64	0.0000	<b>7.8</b>	61.9	0.009
5	0.001452	0.00723	95052	688	473,540	6,324,683	66.54	0.0000	<b>7.5</b>	59.1	0.044
10	0.000966	0.00482	94364	455	470,684	5,851,143	62.01	0.0000	<b>7.1</b>	54.9	0.087
15	0.001408	0.00702	93909	659	467,900	5,380,459	57.29	0.0000	<b>6.8</b>	50.5	0.131
20	0.001881	0.00936	93251	873	464,071	4,912,559	52.68	0.0000	<b>6.5</b>	46.2	0.174
25	0.002184	0.01086	92378	1,003	459,380	4,448,488	48.16	0.0000	<b>6.1</b>	42.0	0.218
30	0.002655	0.01319	91374	1,205	453,860	3,989,108	43.66	0.0001	<b>5.8</b>	37.9	0.261
35	0.003227	0.01601	90169	1,443	447,239	3,535,248	39.21	0.0003	<b>5.4</b>	33.8	0.305
40	0.003947	0.01954	88726	1,734	439,296	3,088,009	34.80	0.0008	<b>5.1</b>	29.7	0.349
45	0.005487	0.02706	86992	2,354	429,076	2,648,712	30.45	0.0017	<b>4.8</b>	25.7	0.392
50	0.008212	0.04023	84638	3,405	414,677	2,219,637	26.23	0.0035	<b>4.4</b>	21.8	0.436
55	0.012249	0.05943	81233	4,827	394,095	1,804,960	22.22	0.0066	<b>4.1</b>	18.1	0.479
60	0.018801	0.08978	76405	6,860	364,877	1,410,865	18.47	0.0120	<b>3.7</b>	14.7	0.523
65	0.028482	0.13294	69545	9,246	324,613	1,045,989	15.04	0.0208	<b>3.4</b>	11.7	0.567
70	0.044468	0.20010	60300	12,066	271,334	721,376	11.96	0.0344	<b>3.0</b>	8.9	0.610
75	0.067351	0.28822	48234	13,902	206,415	450,042	9.33	0.0551	<b>2.7</b>	6.6	0.654
80	0.103908	0.41241	34332	14,159	136,262	243,627	7.10	0.0855	<b>2.4</b>	4.7	0.697
85	0.15364	0.55502	20173	11,196	72,874	107,365	5.32	0.1293	<b>2.0</b>	3.3	0.741
90	0.233334	0.68628	8977	6,160	26,402	34,491	3.84	0.1910	<b>1.7</b>	2.2	0.784
95	0.310501	0.74398	2816	2,095	6,748	8,089	2.87	0.2761	<b>1.3</b>	1.5	0.828
100	0.394958	1	721	721	1,341	1,341	1.86	0.3918	<b>1.0</b>	0.9	0.872
105					100,000			0.5465			0.915
110.0								0.7505			0.959
114.7								1.0000			1.000
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114.7								1.0000			1.000
114.7								1.0000			1.000
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114.7								1.0000			1.000