Tablas de mortalidad. 1986-2005, Instituto de Estadística de la Comunidad de Madrid, downloaded from:
http://www.madrid.org/iestadis/fijas/estructu/demograficas/mnp/estructuespevida.htm
05.07.2007.

Instituto de Estadística

Tabla de mortalidad masculina. 2002

Edad x [1]	Defunciones	Población masculina		a(x) [2]	m(x) [3]	q(x) [4]	l(x) [5]	d(x) [6]	L(x) [7]	T(x) [8]	E(x) [9]
		1/1/2002	1/1/2003								
0	134	30,259	32,160	0.1755	0.00429	0.00428	100,000	428	99,647	7,757,737	77.58
1	11	29,061	30,805	0.3985	0.00037	0.00037	99,572	37	99,550	7,658,090	76.91
2	11	26,529	29,817	0.3990	0.00039	0.00039	99,536	39	99,512	7,558,540	75.94
3	7	26,067	27,994	0.3389	0.00026	0.00026	99,497	26	99,480	7,459,028	74.97
4	2	25,723	26,552	0.6000	0.00008	0.00008	99,471	8	99,468	7,359,548	73.99
5	3	25,070	26,862	0.3909	0.00012	0.00012	99,463	11	99,456	7,260,080	72.99
6	5	25,329	26,305	0.7386	0.00019	0.00019	99,452	19	99,447	7,160,624	72.00
7	6	25,700	26,321	0.6082	0.00023	0.00023	99,433	23	99,424	7,061,177	71.01
8	5	26,185	26,707	0.4329	0.00019	0.00019	99,410	19	99,399	6,961,753	70.03
9	2	26,905	27,190	0.5274	0.00007	0.00007	99,391	7	99,387	6,862,354	69.04
10	2	26,376	27,886	0.2973	0.00007	0.00007	99,384	7	99,378	6,762,967	68.05
11	3	26,527	27,296	0.2603	0.00011	0.00011	99,376	11	99,368	6,663,589	67.05
12	7	27,578	27,460	0.5131	0.00025	0.00025	99,365	25	99,353	6,564,221	66.06
13	5	27,672	28,519	0.6247	0.00018	0.00018	99,340	18	99,333	6,464,868	65.08
14	7	28,423	28,605	0.4117	0.00025	0.00025	99,322	24	99,308	6,365,535	64.09
15	8	29,136	29,450	0.5288	0.00027	0.00027	99,298	27	99,285	6,266,227	63.11
16	13	30,619	30,158	0.4896	0.00043	0.00043	99,271	42	99,249	6,166,942	62.12
17	8	31,982	31,679	0.4342	0.00025	0.00025	99,228	25	99,214	6,067,693	61.15
18	15	33,376	33,355	0.5437	0.00045	0.00045	99,203	45	99,183	5,968,479	60.16
19	15	36,129	34,878	0.6175	0.00042	0.00042	99,159	42	99,143	5,869,296	59.19
20	27	38,676	38,330	0.4684	0.00070	0.00070	99,117	69	99,080	5,770,153	58.22
21	22	40,820	40,973	0.4971	0.00054	0.00054	99,047	53	99,021	5,671,073	57.26
22	35	43,991	43,447	0.5416	0.00080	0.00080	98,994	79	98,958	5,572,053	56.29
23	23	47,428	46,816	0.3913	0.00049	0.00049	98,915	48	98,885	5,473,095	55.33
24	26	49,971	50,493	0.5489	0.00052	0.00052	98,867	51	98,843	5,374,209	54.36
25	28	52,447	53,125	0.4759	0.00053	0.00053	98,815	52	98,788	5,275,366	53.39
26	37	53,310	55,780	0.5939	0.00068	0.00068	98,763	67	98,736	5,176,578	52.41
27	41	53,770	56,827	0.5239	0.00074	0.00074	98,696	73	98,661	5,077,842	51.45
28	43	52,964	57,052	0.4597	0.00078	0.00078	98,623	77	98,581	4,979,181	50.49
29	35	52,906	56,049	0.4340	0.00064	0.00064	98,546	63	98,510	4,880,600	49.53
30	41	52,161	56,012	0.4690	0.00076	0.00076	98,483	75	98,443	4,782,090	48.56
31	50	51,301	54,922	0.5279	0.00094	0.00094	98,408	93	98,364	4,683,647	47.59
32	56	50,785	53,895	0.5568	0.00107	0.00107	98,315	105	98,269	4,585,283	46.64
33	48	49,994	53,191	0.4186	0.00093	0.00093	98,210	91	98,157	4,487,014	45.69
34	60	49,785	52,328	0.4936	0.00118	0.00117	98,119	115	98,060	4,388,857	44.73
35	54	48,555	51,930	0.5036	0.00107	0.00107	98,004	105	97,951	4,290,796	43.78
36	78	48,337	50,486	0.5455	0.00158	0.00158	97,898	154	97,828	4,192,845	42.83
37	81	48,043	50,004	0.5221	0.00165	0.00165	97,744	161	97,667	4,095,017	41.90
38	81	46,034	49,705	0.4817	0.00169	0.00169	97,583	165	97,497	3,997,350	40.96
39	82	44,310	47,473	0.4960	0.00179	0.00179	97,418	174	97,330	3,899,853	40.03
40	80	42,217	45,682	0.4911	0.00182	0.00182	97,244	177	97,154	3,802,523	39.10
41	94	42,279	43,454	0.4772	0.00219	0.00219	97,067	213	96,956	3,705,370	38.17
42	93	40,760	43,481	0.4645	0.00221	0.00221	96,854	214	96,740	3,608,414	37.26

43	100	39,741	41,834	0.4910	0.00245	0.00245	96,641	237	96,520	3,511,674	36.34
44	96	39,050	40,666	0.5108	0.00241	0.00241	96,404	232	96,290	3,415,154	35.43
45	117	36,404	39,926	0.4432	0.00307	0.00306	96,172	294	96,008	3,318,863	34.51
46	116	35,211	37,173	0.4974	0.00321	0.00320	95,878	307	95,723	3,222,855	33.61
47	114	33,306	35,891	0.5055	0.00329	0.00329	95,571	314	95,415	3,127,132	32.72
48	119	33,934	33,876	0.4789	0.00351	0.00350	95,257	334	95,083	3,031,716	31.83
49	104	33,481	34,348	0.4959	0.00307	0.00306	94,923	291	94,776	2,936,634	30.94
50	120	31,991	33,883	0.5264	0.00364	0.00364	94,632	344	94,469	2,841,858	30.03
51	144	31,853	32,256	0.5107	0.00449	0.00448	94,288	423	94,081	2,747,388	29.14
52	153	32,980	32,176	0.5094	0.00470	0.00469	93,865	440	93,650	2,653,307	28.27
53	154	34,824	33,102	0.5219	0.00453	0.00452	93,426	423	93,223	2,559,658	27.40
54	200	31,783	34,935	0.5249	0.00600	0.00598	93,003	556	92,739	2,466,434	26.52
55	163	29,618	31,851	0.4953	0.00530	0.00529	92,447	489	92,200	2,373,696	25.68
56	203	31,227	29,606	0.4788	0.00667	0.00665	91,958	612	91,639	2,281,496	24.81
57	223	29,886	31,175	0.4837	0.00730	0.00728	91,346	665	91,003	2,189,857	23.97
58	244	29,352	29,898	0.5165	0.00824	0.00820	90,682	744	90,322	2,098,854	23.15
59	257	24,990	29,292	0.5308	0.00947	0.00943	89,938	848	89,540	2,008,532	22.33
60	194	22,818	24,901	0.4925	0.00813	0.00810	89,090	721	88,724	1,918,992	21.54
61	243	28,938	22,701	0.5372	0.00941	0.00937	88,368	828	87,985	1,830,268	20.71
62	271	17,548	28,779	0.4941	0.01170	0.01163	87,540	1,018	87,025	1,742,283	19.90
63	214	20,717	17,406	0.5277	0.01123	0.01117	86,522	966	86,066	1,655,258	19.13
64	296	22,161	20,461	0.5032	0.01389	0.01379	85,556	1,180	84,970	1,569,192	18.34
65	289	23,544	21,880	0.5155	0.01272	0.01265	84,376	1,067	83,859	1,484,223	17.59
66	366	22,367	23,177	0.4911	0.01607	0.01594	83,309	1,328	82,633	1,400,364	16.81
67	426	22,116	22,055	0.4974	0.01929	0.01910	81,981	1,566	81,193	1,317,731	16.07
68	383	22,227	21,725	0.4825	0.01743	0.01727	80,414	1,389	79,696	1,236,538	15.38
69	443	21,395	21,857	0.5095	0.02048	0.02028	79,025	1,603	78,239	1,156,842	14.64
70	470	20,188	21,000	0.5107	0.02282	0.02257	77,423	1,747	76,568	1,078,603	13.93
71	525	19,474	19,742	0.5065	0.02677	0.02643	75,675	2,000	74,688	1,002,035	13.24
72	557	18,549	18,991	0.5227	0.02968	0.02926	73,676	2,156	72,647	927,347	12.59
73	586	17,271	18,045	0.4778	0.03319	0.03262	71,520	2,333	70,301	854,700	11.95
74	588	15,392	16,701	0.5035	0.03664	0.03599	69,187	2,490	67,950	784,399	11.34
75	610	15,045	14,876	0.4874	0.04077	0.03994	66,697	2,664	65,331	716,448	10.74
76	598	13,471	14,466	0.5162	0.04281	0.04194	64,033	2,686	62,734	651,117	10.17
77	629	12,666	12,822	0.4887	0.04936	0.04814	61,347	2,953	59,837	588,383	9.59
78	614	11,858	12,084	0.4970	0.05129	0.05000	58,394	2,920	56,925	528,546	9.05
79	631	10,659	11,245	0.4871	0.05762	0.05596	55,474	3,104	53,882	471,621	8.50
80	686	9,446	10,020	0.4955	0.07048	0.06806	52,370	3,564	50,572	417,739	7.98
81	672	8,069	8,761	0.4964	0.07986	0.07677	48,805	3,747	46,919	367,167	7.52
82	610	6,488	7,368	0.4810	0.08805	0.08420	45,059	3,794	43,090	320,249	7.11
83	553	5,640	5,855	0.5097	0.09622	0.09188	41,265	3,791	39,406	277,159	6.72
84	543	5,082	5,069	0.5050	0.10698	0.10160	37,473	3,807	35,589	237,754	6.34
85	561	4,504	4,516	0.4824	0.12439	0.11687	33,666	3,934	31,629	202,165	6.01
86	510	4,056	3,947	0.4797	0.12745	0.11953	29,731	3,554	27,882	170,536	5.74
87	448	3,395	3,584	0.5161	0.12839	0.12088	26,178	3,164	24,647	142,653	5.45
88	444	3,037	2,898	0.4950	0.14962	0.13911	23,013	3,201	21,397	118,007	5.13
89	451	2,559	2,539	0.4713	0.17693	0.16180	19,812	3,206	18,117	96,610	4.88
90	1,721	8,007	8,262		0.21157	1.00000	16,607	16,607	78,493	78,493	4.73

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Tabla de mortalidad femenina. 2002

Edad x (1)	Defunciones	Población femenina 1/1/2002	Población femenina 1/1/2003	a(x) (2)	m(x) (3)	q(x) (4)	l(x) (5)	d(x) (6)	L(x) (7)	T(x) (8)	E(x) (9)
0	96	28,634	30,298	0.1313	0.00326	0.00325	100,000	325	99,718	8,472,683	84.73
1	13	27,312	29,132	0.3404	0.00046	0.00046	99,675	46	99,645	8,372,965	84.00
2	0	24,956	27,948	0.0000	0.00000	0.00000	99,629	0	99,629	8,273,320	83.04
3	3	24,557	26,310	0.5763	0.00012	0.00012	99,629	12	99,624	8,173,691	82.04
4	2	24,308	25,021	0.1329	0.00008	0.00008	99,617	8	99,610	8,074,067	81.05
5	3	24,338	25,489	0.4749	0.00012	0.00012	99,609	12	99,603	7,974,456	80.06
6	3	23,791	25,456	0.5909	0.00012	0.00012	99,597	12	99,592	7,874,853	79.07
7	1	24,024	24,822	0.4932	0.00004	0.00004	99,585	4	99,583	7,775,261	78.08
8	3	25,118	25,018	0.8320	0.00012	0.00012	99,581	12	99,579	7,675,678	77.08
9	5	25,814	25,999	0.6756	0.00019	0.00019	99,569	19	99,563	7,576,098	76.09
10	3	25,099	26,725	0.4630	0.00012	0.00012	99,550	12	99,544	7,476,535	75.10
11	1	25,337	26,035	0.8082	0.00004	0.00004	99,539	4	99,538	7,376,992	74.11
12	0	25,872	26,305	0.0000	0.00000	0.00000	99,535	0	99,535	7,277,454	73.11
13	3	25,974	26,863	0.3826	0.00011	0.00011	99,535	11	99,528	7,177,919	72.11
14	4	26,736	26,960	0.5603	0.00015	0.00015	99,523	15	99,517	7,078,391	71.12
15	6	27,800	27,719	0.4224	0.00022	0.00022	99,509	22	99,496	6,978,875	70.13
16	3	28,953	28,776	0.4758	0.00010	0.00010	99,487	10	99,482	6,879,378	69.15
17	6	30,486	29,981	0.6192	0.00020	0.00020	99,477	20	99,469	6,779,897	68.16
18	7	32,086	32,157	0.4305	0.00022	0.00022	99,457	22	99,445	6,680,428	67.17
19	3	35,205	33,862	0.6137	0.00009	0.00009	99,435	9	99,432	6,580,983	66.18
20	9	37,633	37,449	0.6444	0.00024	0.00024	99,427	24	99,418	6,481,551	65.19
21	9	40,344	40,151	0.3562	0.00022	0.00022	99,403	22	99,388	6,382,133	64.20
22	18	43,135	43,111	0.5810	0.00042	0.00042	99,381	41	99,363	6,282,745	63.22
23	6	46,461	46,140	0.2461	0.00013	0.00013	99,339	13	99,329	6,183,381	62.25
24	11	48,508	49,670	0.4329	0.00022	0.00022	99,326	22	99,314	6,084,052	61.25
25	15	51,641	51,685	0.4696	0.00029	0.00029	99,304	29	99,289	5,984,738	60.27
26	12	52,245	55,003	0.5648	0.00022	0.00022	99,275	22	99,265	5,885,450	59.28
27	13	52,878	55,293	0.4934	0.00024	0.00024	99,253	24	99,241	5,786,184	58.30
28	13	51,853	55,942	0.6118	0.00024	0.00024	99,229	24	99,220	5,686,943	57.31
29	10	51,437	54,627	0.5334	0.00019	0.00019	99,205	19	99,196	5,587,724	56.32
30	16	51,885	54,206	0.5752	0.00030	0.00030	99,186	30	99,174	5,488,527	55.34
31	14	50,449	54,328	0.5204	0.00027	0.00027	99,157	26	99,144	5,389,353	54.35
32	24	49,800	52,744	0.4753	0.00047	0.00047	99,130	46	99,106	5,290,210	53.37
33	23	49,596	52,020	0.4229	0.00045	0.00045	99,084	45	99,058	5,191,104	52.39
34	24	49,702	51,651	0.6523	0.00047	0.00047	99,039	47	99,022	5,092,046	51.41
35	23	48,775	51,644	0.5178	0.00046	0.00046	98,992	45	98,970	4,993,024	50.44
36	25	49,001	50,391	0.5241	0.00050	0.00050	98,947	50	98,923	4,894,054	49.46
37	36	49,054	50,406	0.5141	0.00072	0.00072	98,897	72	98,862	4,795,131	48.49
38	32	46,954	50,535	0.5814	0.00066	0.00066	98,825	65	98,798	4,696,269	47.52
39	33	45,384	48,382	0.5367	0.00070	0.00070	98,760	69	98,728	4,597,471	46.55
40	39	43,930	46,712	0.5309	0.00086	0.00086	98,691	85	98,651	4,498,742	45.58
41	45	44,044	45,197	0.5532	0.00101	0.00101	98,606	99	98,562	4,400,091	44.62
42	44	43,150	45,123	0.5660	0.00100	0.00100	98,507	98	98,464	4,301,530	43.67

43	34	42,492	44,112	0.5039	0.00079	0.00078	98,408	77	98,370	4,203,066	42.71
44	52	42,180	43,419	0.4340	0.00121	0.00121	98,331	119	98,264	4,104,696	41.74
45	54	39,582	43,079	0.5242	0.00131	0.00131	98,212	128	98,151	4,006,432	40.79
46	52	38,694	40,321	0.4936	0.00132	0.00132	98,084	129	98,018	3,908,281	39.85
47	53	37,228	39,395	0.4867	0.00138	0.00138	97,955	135	97,885	3,810,263	38.90
48	51	37,234	37,827	0.5353	0.00136	0.00136	97,819	133	97,757	3,712,378	37.95
49	70	36,973	37,746	0.4938	0.00187	0.00187	97,686	183	97,594	3,614,621	37.00
50	59	35,012	37,455	0.4918	0.00163	0.00163	97,503	159	97,423	3,517,027	36.07
51	58	34,798	35,452	0.5014	0.00165	0.00165	97,345	161	97,265	3,419,604	35.13
52	55	36,722	35,228	0.4766	0.00153	0.00153	97,184	148	97,106	3,322,339	34.19
53	69	38,589	37,088	0.4890	0.00182	0.00182	97,036	177	96,945	3,225,233	33.24
54	78	34,800	38,954	0.5539	0.00212	0.00211	96,859	205	96,768	3,128,287	32.30
55	80	32,743	35,096	0.4886	0.00236	0.00236	96,654	228	96,538	3,031,520	31.36
56	93	34,573	33,046	0.5542	0.00275	0.00275	96,427	265	96,308	2,934,982	30.44
57	97	33,643	34,756	0.5376	0.00284	0.00283	96,162	272	96,036	2,838,673	29.52
58	93	32,071	33,736	0.5252	0.00283	0.00282	95,889	271	95,761	2,742,638	28.60
59	98	27,161	32,230	0.4923	0.00330	0.00329	95,619	315	95,459	2,646,877	27.68
60	82	24,323	27,287	0.5106	0.00318	0.00317	95,304	302	95,156	2,551,418	26.77
61	113	31,721	24,388	0.4921	0.00403	0.00402	95,001	382	94,807	2,456,263	25.86
62	109	20,304	31,783	0.5016	0.00419	0.00418	94,619	395	94,422	2,361,455	24.96
63	90	23,619	20,403	0.5739	0.00409	0.00408	94,224	385	94,060	2,267,033	24.06
64	114	25,791	23,702	0.5029	0.00461	0.00460	93,840	431	93,625	2,172,973	23.16
65	154	28,261	25,868	0.5277	0.00569	0.00567	93,408	530	93,158	2,079,348	22.26
66	155	26,511	28,256	0.4938	0.00566	0.00564	92,878	524	92,613	1,986,190	21.38
67	182	26,397	26,448	0.5063	0.00689	0.00686	92,354	634	92,041	1,893,577	20.50
68	178	27,141	26,401	0.5009	0.00665	0.00663	91,720	608	91,417	1,801,536	19.64
69	239	26,365	27,075	0.5068	0.00894	0.00891	91,112	811	90,712	1,710,119	18.77
70	262	24,975	26,248	0.5277	0.01023	0.01018	90,301	919	89,867	1,619,407	17.93
71	249	25,269	24,885	0.5315	0.00993	0.00988	89,381	883	88,968	1,529,541	17.11
72	285	24,207	25,124	0.5224	0.01155	0.01149	88,498	1,017	88,012	1,440,573	16.28
73	319	24,082	24,019	0.5006	0.01326	0.01318	87,481	1,153	86,905	1,352,561	15.46
74	370	21,996	23,824	0.5062	0.01615	0.01602	86,328	1,383	85,645	1,265,655	14.66
75	374	21,638	21,693	0.5178	0.01726	0.01712	84,945	1,454	84,244	1,180,010	13.89
76	454	20,205	21,282	0.5108	0.02189	0.02165	83,491	1,808	82,607	1,095,766	13.12
77	447	19,460	19,830	0.5079	0.02275	0.02250	81,683	1,838	80,779	1,013,159	12.40
78	534	18,661	19,016	0.4879	0.02835	0.02794	79,845	2,231	78,703	932,381	11.68
79	559	18,355	18,177	0.4982	0.03060	0.03014	77,614	2,339	76,440	853,678	11.00
80	608	16,202	17,837	0.4939	0.03572	0.03509	75,275	2,641	73,938	777,238	10.33
81	613	15,115	15,581	0.5130	0.03994	0.03918	72,633	2,846	71,248	703,300	9.68
82	674	12,635	14,434	0.4842	0.04980	0.04855	69,788	3,388	68,040	632,053	9.06
83	652	12,174	11,993	0.4969	0.05396	0.05253	66,399	3,488	64,645	564,013	8.49
84	750	11,369	11,444	0.5026	0.06575	0.06367	62,911	4,006	60,919	499,368	7.94
85	769	10,204	10,574	0.5039	0.07402	0.07140	58,906	4,206	56,819	438,449	7.44
86	817	9,595	9,329	0.4886	0.08635	0.08269	54,700	4,523	52,387	381,630	6.98
87	889	8,719	8,681	0.5024	0.10218	0.09724	50,177	4,879	47,749	329,243	6.56
88	777	7,721	7,828	0.4949	0.09994	0.09514	45,298	4,310	43,121	281,494	6.21
89	851	6,668	6,815	0.4865	0.12623	0.11855	40,988	4,859	38,493	238,373	5.82
90	4,548	24,907	25,416		0.18075	1.00000	36,129	36,129	199,881	199,881	5.53

(1) x = 90 es el intervalo abierto que comprende a las personas de 90 y más años

(2) a(x) = fracción de los años vividos por las personas fallecidas de edad cumplida x , esto es, en el intervalo [x, x+1)
No se puede calcular para el intervalo abierto x = 90.

(3) m(x) = defunciones de personas de edad cumplida x dividido entre la media de la población de edad cumplida x en
en el año considerado y en el año posterior

(4) q(x) = m(x) / (1 + (1-a(x)) m(x))

(5) l(x) = número de personas de la cohorte inicial de 100.000 personas que viven a la edad x y mueren antes de llegar a la edad x+1

(6) d(x) = número de defunciones ocurridas a la edad x de la cohorte inicial de 100.000

(7) L(x) = población estacionaria con x años cumplidos
En el caso del intervalo abierto x = 90, dado que no se puede usar a(x), se utiliza la fórmula l(x) / m(x)

(8) T(x) = años vividos

(9) E(x) = esperanza de vida a la edad x

Fuente: Instituto de Estadística de la Comunidad de Madrid