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. 2004

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)
		1/1/2004	1/1/2005								
0	154	34,225	36,215	0.1342	0.00437	0.00436	100,000	436	99,623	7,826,437	78.26
1	14	32,341	34,317	0.4327	0.00042	0.00042	99,564	42	99,541	7,726,814	77.61
2	6	31,200	32,721	0.2618	0.00019	0.00019	99,523	19	99,509	7,627,273	76.64
3	3	30,115	31,913	0.5965	0.00010	0.00010	99,504	10	99,500	7,527,765	75.65
4	3	28,347	30,771	0.4472	0.00010	0.00010	99,494	10	99,489	7,428,265	74.66
5	4	26,901	29,019	0.4665	0.00014	0.00014	99,484	14	99,477	7,328,776	73.67
6	1	27,170	27,176	0.6311	0.00004	0.00004	99,470	4	99,469	7,229,299	72.68
7	3	26,545	27,829	0.4954	0.00011	0.00011	99,466	11	99,461	7,129,831	71.68
8	5	26,566	27,099	0.4820	0.00019	0.00019	99,455	19	99,446	7,030,370	70.69
9	1	26,983	27,178	0.3115	0.00004	0.00004	99,437	4	99,434	6,930,924	69.70
10	3	27,452	27,650	0.5209	0.00011	0.00011	99,433	11	99,428	6,831,490	68.70
11	2	28,188	28,075	0.4549	0.00007	0.00007	99,422	7	99,418	6,732,062	67.71
12	3	27,592	28,972	0.1794	0.00011	0.00011	99,415	11	99,407	6,632,644	66.72
13	4	27,748	28,234	0.5512	0.00014	0.00014	99,405	14	99,398	6,533,237	65.72
14	4	28,820	28,444	0.6537	0.00014	0.00014	99,390	14	99,386	6,433,839	64.73
15	7	29,029	29,479	0.4336	0.00024	0.00024	99,377	24	99,363	6,334,453	63.74
16	6	29,792	29,758	0.4476	0.00020	0.00020	99,353	20	99,342	6,235,090	62.76
17	20	30,603	30,668	0.5962	0.00065	0.00065	99,333	65	99,307	6,135,748	61.77
18	14	32,392	31,735	0.5248	0.00044	0.00044	99,268	43	99,247	6,036,442	60.81
19	14	34,183	33,901	0.4126	0.00041	0.00041	99,225	41	99,201	5,937,194	59.84
20	22	36,175	36,085	0.5263	0.00061	0.00061	99,184	60	99,155	5,837,994	58.86
21	13	39,740	38,174	0.5256	0.00033	0.00033	99,123	33	99,108	5,738,838	57.90
22	22	42,798	41,987	0.5423	0.00052	0.00052	99,090	51	99,067	5,639,731	56.92
23	33	45,305	45,231	0.4480	0.00073	0.00073	99,039	72	98,999	5,540,664	55.94
24	21	48,764	47,990	0.4667	0.00043	0.00043	98,967	43	98,944	5,441,665	54.98
25	30	52,455	51,427	0.5360	0.00058	0.00058	98,924	57	98,897	5,342,721	54.01
26	36	55,123	55,318	0.5244	0.00065	0.00065	98,867	64	98,836	5,243,823	53.04
27	39	57,661	57,813	0.5175	0.00068	0.00068	98,802	67	98,770	5,144,987	52.07
28	55	58,426	60,273	0.4870	0.00093	0.00093	98,736	91	98,689	5,046,217	51.11
29	32	58,618	60,814	0.5213	0.00054	0.00054	98,644	53	98,619	4,947,529	50.16
30	40	57,369	60,932	0.5350	0.00068	0.00068	98,591	67	98,560	4,848,910	49.18
31	46	56,779	59,502	0.5169	0.00079	0.00079	98,525	78	98,487	4,750,349	48.21
32	50	55,728	59,018	0.5285	0.00087	0.00087	98,447	86	98,406	4,651,862	47.25
33	61	54,480	57,553	0.5067	0.00109	0.00109	98,361	107	98,308	4,553,456	46.29
34	57	53,588	56,254	0.4772	0.00104	0.00104	98,254	102	98,201	4,455,148	45.34
35	53	52,907	55,149	0.4913	0.00098	0.00098	98,152	96	98,103	4,356,947	44.39
36	73	52,362	54,204	0.5346	0.00137	0.00137	98,056	134	97,993	4,258,844	43.43
37	81	50,688	53,637	0.4959	0.00155	0.00155	97,921	152	97,845	4,160,851	42.49
38	73	50,181	51,901	0.4865	0.00143	0.00143	97,770	140	97,698	4,063,006	41.56
39	85	49,758	51,367	0.4921	0.00168	0.00168	97,630	164	97,547	3,965,309	40.62
40	71	47,536	50,819	0.5464	0.00144	0.00144	97,466	141	97,402	3,867,762	39.68
41	81	45,867	48,412	0.4920	0.00172	0.00172	97,325	167	97,240	3,770,360	38.74
42	95	43,649	46,645	0.4688	0.00210	0.00210	97,158	204	97,050	3,673,120	37.81

43	96	43,466	44,460	0.5368	0.00218	0.00218	96,954	211	96,856	3,576,070	36.88
44	115	41,800	44,195	0.4875	0.00267	0.00267	96,742	258	96,610	3,479,214	35.96
45	100	40,839	42,488	0.5689	0.00240	0.00240	96,484	231	96,384	3,382,604	35.06
46	111	39,934	41,470	0.5543	0.00273	0.00272	96,253	262	96,136	3,286,220	34.14
47	122	37,151	40,529	0.4845	0.00314	0.00314	95,990	301	95,835	3,190,084	33.23
48	137	35,972	37,586	0.5289	0.00372	0.00372	95,689	356	95,522	3,094,249	32.34
49	105	33,791	36,430	0.4845	0.00299	0.00299	95,334	285	95,187	2,998,727	31.46
50	135	34,272	34,185	0.5167	0.00394	0.00394	95,049	374	94,868	2,903,540	30.55
51	160	33,664	34,608	0.4960	0.00469	0.00468	94,675	443	94,452	2,808,672	29.67
52	154	32,219	34,066	0.5146	0.00465	0.00464	94,232	437	94,020	2,714,220	28.80
53	179	31,918	32,424	0.5084	0.00556	0.00555	93,795	520	93,539	2,620,200	27.94
54	147	32,947	32,208	0.4978	0.00451	0.00450	93,275	420	93,064	2,526,661	27.09
55	195	34,677	33,180	0.5352	0.00575	0.00573	92,855	532	92,607	2,433,597	26.21
56	191	31,467	34,843	0.4632	0.00576	0.00574	92,323	530	92,038	2,340,989	25.36
57	224	29,264	31,660	0.4836	0.00735	0.00733	91,792	672	91,445	2,248,951	24.50
58	217	30,833	29,370	0.5473	0.00721	0.00719	91,120	655	90,824	2,157,506	23.68
59	257	29,552	30,855	0.5165	0.00851	0.00847	90,465	767	90,095	2,066,683	22.85
60	241	28,828	29,510	0.5248	0.00826	0.00823	89,699	738	89,348	1,976,588	22.04
61	260	24,468	28,805	0.4886	0.00976	0.00971	88,960	864	88,519	1,887,240	21.21
62	206	22,285	24,399	0.5137	0.00883	0.00879	88,096	774	87,720	1,798,722	20.42
63	267	28,160	22,247	0.5255	0.01059	0.01054	87,322	920	86,885	1,711,002	19.59
64	293	17,064	28,010	0.4593	0.01300	0.01291	86,402	1,115	85,799	1,624,116	18.80
65	269	19,994	16,856	0.5403	0.01460	0.01450	85,286	1,237	84,718	1,538,318	18.04
66	315	21,392	19,815	0.5068	0.01529	0.01517	84,049	1,275	83,420	1,453,600	17.29
67	354	22,568	21,129	0.5131	0.01620	0.01608	82,774	1,331	82,126	1,370,180	16.55
68	378	21,513	22,225	0.4970	0.01728	0.01714	81,443	1,396	80,741	1,288,054	15.82
69	378	21,123	21,214	0.5067	0.01786	0.01770	80,048	1,417	79,349	1,207,312	15.08
70	446	21,254	20,840	0.5100	0.02119	0.02097	78,631	1,649	77,823	1,127,963	14.35
71	512	20,431	20,840	0.5155	0.02481	0.02452	76,982	1,887	76,067	1,050,140	13.64
72	524	19,184	19,988	0.5118	0.02675	0.02641	75,094	1,983	74,126	974,073	12.97
73	598	18,407	18,633	0.4703	0.03229	0.03175	73,111	2,321	71,882	899,947	12.31
74	543	17,406	17,905	0.4915	0.03076	0.03028	70,790	2,144	69,700	828,065	11.70
75	664	16,079	16,798	0.5070	0.04039	0.03960	68,647	2,719	67,306	758,365	11.05
76	562	14,353	15,495	0.4873	0.03766	0.03694	65,928	2,436	64,679	691,058	10.48
77	641	13,834	13,723	0.5284	0.04652	0.04552	63,492	2,890	62,129	626,379	9.87
78	666	12,251	13,096	0.5096	0.05255	0.05123	60,602	3,105	59,079	564,250	9.31
79	687	11,474	11,469	0.5006	0.05989	0.05815	57,497	3,343	55,828	505,171	8.79
80	690	10,604	10,767	0.4937	0.06457	0.06253	54,154	3,386	52,439	449,343	8.30
81	718	9,470	9,763	0.4948	0.07466	0.07195	50,768	3,653	48,922	396,904	7.82
82	650	8,240	8,593	0.4980	0.07723	0.07435	47,115	3,503	45,357	347,982	7.39
83	619	6,863	7,436	0.4918	0.08658	0.08293	43,612	3,617	41,774	302,625	6.94
84	624	5,429	6,123	0.4712	0.10803	0.10220	39,995	4,087	37,834	260,851	6.52
85	474	4,644	4,676	0.4944	0.10172	0.09674	35,908	3,474	34,152	223,017	6.21
86	504	4,131	3,950	0.5045	0.12474	0.11748	32,434	3,810	30,546	188,865	5.82
87	456	3,614	3,455	0.5093	0.12901	0.12133	28,624	3,473	26,920	158,319	5.53
88	463	3,243	2,920	0.4859	0.15025	0.13948	25,151	3,508	23,347	131,399	5.22
89	381	2,662	2,601	0.4776	0.14478	0.13460	21,643	2,913	20,121	108,052	4.99
90	1,949	9,748	8,552		0.21301	1.00000	18,730	18,730	87,931	87,931	4.69

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Tabla de mortalidad femenina. 2004

Edad x (1)	Defunciones	Población femenina 1/1/2004	Población femenina 1/1/2005	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	122	32,050	33,482	0.1744	0.00372	0.00371	100,000	371	99,694	8,489,093	84.89
1	11	30,509	32,486	0.4993	0.00035	0.00035	99,629	35	99,611	8,389,399	84.21
2	3	29,581	31,031	0.4882	0.00010	0.00010	99,594	10	99,589	8,289,788	83.24
3	4	28,397	30,335	0.5560	0.00014	0.00014	99,584	14	99,578	8,190,199	82.24
4	3	26,600	29,051	0.5574	0.00011	0.00011	99,571	11	99,566	8,090,621	81.26
5	1	25,305	27,370	0.3880	0.00004	0.00004	99,560	4	99,558	7,991,055	80.26
6	2	25,706	25,620	0.4945	0.00008	0.00008	99,556	8	99,552	7,891,497	79.27
7	0	25,564	26,342	0.0000	0.00000	0.00000	99,548	0	99,548	7,791,945	78.27
8	3	25,066	26,185	0.5546	0.00012	0.00012	99,548	12	99,543	7,692,397	77.27
9	4	25,245	25,582	0.6954	0.00016	0.00016	99,537	16	99,532	7,592,854	76.28
10	5	26,183	25,869	0.4710	0.00019	0.00019	99,521	19	99,511	7,493,322	75.29
11	1	27,027	26,797	0.7596	0.00004	0.00004	99,502	4	99,501	7,393,811	74.31
12	1	26,398	27,648	0.8743	0.00004	0.00004	99,498	4	99,498	7,294,310	73.31
13	3	26,497	27,000	0.4062	0.00011	0.00011	99,495	11	99,488	7,194,812	72.31
14	6	27,205	27,183	0.4745	0.00022	0.00022	99,483	22	99,472	7,095,324	71.32
15	3	27,316	28,010	0.5228	0.00011	0.00011	99,461	11	99,456	6,995,852	70.34
16	2	28,119	28,111	0.4221	0.00007	0.00007	99,451	7	99,447	6,896,396	69.34
17	10	29,222	28,988	0.4888	0.00034	0.00034	99,444	34	99,426	6,796,950	68.35
18	6	30,938	30,403	0.5087	0.00020	0.00020	99,409	19	99,400	6,697,524	67.37
19	9	33,248	32,574	0.2920	0.00027	0.00027	99,390	27	99,371	6,598,124	66.39
20	7	35,183	35,119	0.5008	0.00020	0.00020	99,363	20	99,353	6,498,753	65.40
21	11	38,968	37,393	0.7231	0.00029	0.00029	99,343	29	99,335	6,399,400	64.42
22	7	41,959	41,459	0.6011	0.00017	0.00017	99,314	17	99,308	6,300,065	63.44
23	8	44,888	44,264	0.5113	0.00018	0.00018	99,298	18	99,289	6,200,757	62.45
24	8	48,237	47,228	0.5618	0.00017	0.00017	99,280	17	99,273	6,101,468	61.46
25	8	51,630	50,623	0.3234	0.00016	0.00016	99,263	16	99,253	6,002,196	60.47
26	13	53,355	53,918	0.5074	0.00024	0.00024	99,248	24	99,236	5,902,943	59.48
27	14	56,513	55,698	0.5150	0.00025	0.00025	99,224	25	99,212	5,803,707	58.49
28	24	56,511	58,748	0.6207	0.00042	0.00042	99,199	41	99,183	5,704,496	57.51
29	20	57,096	58,636	0.3754	0.00035	0.00035	99,158	34	99,136	5,605,312	56.53
30	22	55,441	59,273	0.4853	0.00038	0.00038	99,123	38	99,104	5,506,176	55.55
31	31	54,863	57,128	0.4994	0.00055	0.00055	99,085	55	99,058	5,407,072	54.57
32	16	54,990	56,681	0.6218	0.00029	0.00029	99,030	28	99,020	5,308,015	53.60
33	16	53,099	56,394	0.3868	0.00029	0.00029	99,002	29	98,984	5,208,995	52.61
34	23	52,274	54,423	0.5239	0.00043	0.00043	98,973	43	98,953	5,110,011	51.63
35	20	51,998	53,719	0.4628	0.00038	0.00038	98,931	37	98,910	5,011,058	50.65
36	29	51,809	53,345	0.5079	0.00055	0.00055	98,893	55	98,866	4,912,147	49.67
37	20	50,434	53,126	0.5918	0.00039	0.00039	98,839	38	98,823	4,813,281	48.70
38	36	50,407	51,462	0.4721	0.00071	0.00071	98,800	70	98,764	4,714,458	47.72
39	37	50,730	51,470	0.4908	0.00072	0.00072	98,731	71	98,694	4,615,695	46.75
40	43	48,479	51,662	0.4569	0.00086	0.00086	98,659	85	98,613	4,517,000	45.78
41	34	46,786	49,410	0.3888	0.00071	0.00071	98,574	70	98,532	4,418,387	44.82
42	36	45,378	47,718	0.5921	0.00077	0.00077	98,505	76	98,474	4,319,855	43.85

43	46	45,343	46,180	0.4485	0.00101	0.00100	98,429	99	98,374	4,221,382	42.89
44	52	44,230	46,195	0.4629	0.00115	0.00115	98,330	113	98,269	4,123,008	41.93
45	59	43,579	45,185	0.4928	0.00133	0.00133	98,217	130	98,151	4,024,739	40.98
46	42	43,037	44,355	0.5370	0.00096	0.00096	98,086	94	98,043	3,926,588	40.03
47	73	40,419	43,753	0.5132	0.00173	0.00173	97,992	170	97,909	3,828,545	39.07
48	61	39,387	41,054	0.5510	0.00152	0.00152	97,822	148	97,756	3,730,636	38.14
49	69	37,887	40,009	0.4963	0.00177	0.00177	97,674	173	97,587	3,632,881	37.19
50	69	37,759	38,446	0.5113	0.00181	0.00181	97,501	176	97,415	3,535,294	36.26
51	85	37,453	38,298	0.5350	0.00224	0.00224	97,325	218	97,223	3,437,879	35.32
52	60	35,424	37,958	0.5592	0.00164	0.00163	97,106	159	97,036	3,340,656	34.40
53	75	35,101	35,872	0.4981	0.00211	0.00211	96,948	205	96,845	3,243,619	33.46
54	90	36,828	35,473	0.5788	0.00249	0.00249	96,743	241	96,642	3,146,774	32.53
55	96	38,799	37,291	0.4905	0.00252	0.00252	96,502	243	96,379	3,050,133	31.61
56	93	34,877	39,202	0.5066	0.00251	0.00251	96,259	241	96,140	2,953,754	30.69
57	85	32,817	35,214	0.4963	0.00250	0.00250	96,018	240	95,897	2,857,614	29.76
58	81	34,496	33,152	0.4902	0.00239	0.00239	95,778	229	95,661	2,761,717	28.83
59	98	33,447	34,789	0.4846	0.00287	0.00287	95,549	274	95,408	2,666,055	27.90
60	111	31,906	33,723	0.5418	0.00338	0.00338	95,275	322	95,128	2,570,647	26.98
61	113	27,034	32,188	0.5000	0.00382	0.00381	94,953	362	94,772	2,475,520	26.07
62	117	24,200	27,187	0.4939	0.00455	0.00454	94,592	430	94,374	2,380,747	25.17
63	112	31,365	24,384	0.5139	0.00402	0.00401	94,162	378	93,978	2,286,373	24.28
64	115	20,161	31,560	0.4672	0.00445	0.00444	93,784	416	93,563	2,192,395	23.38
65	95	23,364	20,240	0.5453	0.00436	0.00435	93,368	406	93,184	2,098,832	22.48
66	127	25,427	23,491	0.5173	0.00519	0.00518	92,962	481	92,730	2,005,648	21.57
67	147	27,808	25,541	0.4912	0.00551	0.00550	92,481	508	92,222	1,912,919	20.68
68	212	26,042	27,852	0.4932	0.00787	0.00784	91,972	721	91,607	1,820,697	19.80
69	223	26,029	26,063	0.4678	0.00856	0.00852	91,252	778	90,838	1,729,089	18.95
70	244	26,687	26,042	0.5210	0.00925	0.00921	90,474	834	90,075	1,638,251	18.11
71	260	25,808	26,714	0.5228	0.00990	0.00985	89,640	883	89,219	1,548,177	17.27
72	290	24,552	25,802	0.4866	0.01152	0.01145	88,757	1,016	88,235	1,458,958	16.44
73	343	24,643	24,424	0.5033	0.01398	0.01388	87,741	1,218	87,136	1,370,722	15.62
74	344	23,536	24,477	0.5245	0.01433	0.01423	86,523	1,231	85,937	1,283,587	14.84
75	380	23,289	23,365	0.4963	0.01629	0.01616	85,291	1,378	84,597	1,197,650	14.04
76	427	21,213	22,994	0.4908	0.01932	0.01913	83,913	1,605	83,096	1,113,053	13.26
77	465	20,737	20,857	0.5095	0.02236	0.02212	82,308	1,820	81,415	1,029,957	12.51
78	538	19,345	20,268	0.4920	0.02716	0.02679	80,487	2,157	79,392	948,542	11.78
79	527	18,408	18,851	0.5107	0.02829	0.02790	78,331	2,186	77,261	869,151	11.10
80	649	17,599	17,882	0.5043	0.03658	0.03593	76,145	2,736	74,789	791,889	10.40
81	646	17,164	16,862	0.5063	0.03797	0.03727	73,409	2,736	72,058	717,100	9.77
82	755	15,012	16,435	0.5067	0.04802	0.04691	70,673	3,315	69,038	645,042	9.13
83	736	13,741	14,164	0.4980	0.05275	0.05139	67,358	3,462	65,620	576,004	8.55
84	786	11,343	12,844	0.4804	0.06499	0.06287	63,897	4,017	61,809	510,383	7.99
85	764	10,805	10,510	0.5078	0.07169	0.06924	59,879	4,146	57,839	448,574	7.49
86	859	9,998	9,717	0.5058	0.08714	0.08354	55,733	4,656	53,432	390,735	7.01
87	840	8,671	8,900	0.5183	0.09561	0.09140	51,077	4,669	48,828	337,303	6.60
88	859	7,971	7,577	0.4984	0.11050	0.10469	46,408	4,859	43,971	288,475	6.22
89	855	7,234	6,794	0.4987	0.12190	0.11488	41,550	4,773	39,157	244,504	5.88
90	5,016	29,019	26,996		0.17909	1.00000	36,777	36,777	205,347	205,347	5.58

(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