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. 1999

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)
		1/1/1999	1/1/2000								
0	96	24,998	25,920	0.1684	0.00377	0.00376	100,000	376	99,687	7,668,735	76.69
1	11	24,672	25,688	0.4914	0.00044	0.00044	99,624	44	99,602	7,569,047	75.98
2	9	22,773	22,673	0.6113	0.00040	0.00040	99,581	39	99,565	7,469,445	75.01
3	0	23,460	22,423	0.0000	0.00000	0.00000	99,541	0	99,541	7,369,880	74.04
4	7	23,731	23,274	0.5695	0.00030	0.00030	99,541	30	99,528	7,270,339	73.04
5	6	24,209	23,894	0.4909	0.00025	0.00025	99,512	25	99,499	7,170,811	72.06
6	1	25,211	24,381	0.8959	0.00004	0.00004	99,487	4	99,486	7,071,312	71.08
7	4	24,716	25,196	0.6856	0.00016	0.00016	99,483	16	99,478	6,971,825	70.08
8	0	24,895	24,795	0.0000	0.00000	0.00000	99,467	0	99,467	6,872,348	69.09
9	3	25,951	25,075	0.6849	0.00012	0.00012	99,467	12	99,463	6,772,881	68.09
10	4	26,069	26,031	0.2356	0.00015	0.00015	99,455	15	99,443	6,673,418	67.10
11	7	27,036	26,192	0.5953	0.00026	0.00026	99,440	26	99,429	6,573,975	66.11
12	2	27,737	27,013	0.3466	0.00007	0.00007	99,414	7	99,409	6,474,545	65.13
13	8	29,270	27,725	0.3983	0.00028	0.00028	99,406	28	99,390	6,375,137	64.13
14	4	30,441	29,281	0.5158	0.00013	0.00013	99,378	13	99,372	6,275,747	63.15
15	7	31,612	30,360	0.8301	0.00023	0.00023	99,365	22	99,361	6,176,375	62.16
16	6	33,605	31,669	0.5758	0.00018	0.00018	99,343	18	99,335	6,077,014	61.17
17	16	35,703	34,019	0.5310	0.00046	0.00046	99,324	46	99,303	5,977,679	60.18
18	22	37,283	36,249	0.4956	0.00060	0.00060	99,279	59	99,249	5,878,376	59.21
19	19	39,582	38,136	0.4339	0.00049	0.00049	99,219	48	99,192	5,779,127	58.25
20	22	42,536	41,072	0.5016	0.00053	0.00053	99,171	52	99,145	5,679,935	57.27
21	24	44,465	44,285	0.5435	0.00054	0.00054	99,119	54	99,094	5,580,790	56.30
22	23	46,413	46,484	0.4113	0.00050	0.00050	99,065	49	99,036	5,481,695	55.33
23	29	46,950	48,642	0.5000	0.00061	0.00061	99,016	60	98,986	5,382,659	54.36
24	24	47,286	49,649	0.4917	0.00050	0.00050	98,956	49	98,931	5,283,673	53.39
25	30	46,549	49,934	0.4528	0.00062	0.00062	98,907	61	98,873	5,184,742	52.42
26	37	46,065	49,273	0.4178	0.00078	0.00078	98,846	77	98,801	5,085,868	51.45
27	26	45,680	49,088	0.4594	0.00055	0.00055	98,769	54	98,740	4,987,067	50.49
28	41	44,716	48,375	0.3721	0.00088	0.00088	98,715	87	98,660	4,888,328	49.52
29	56	44,553	47,358	0.5095	0.00122	0.00122	98,628	120	98,569	4,789,668	48.56
30	54	43,878	46,862	0.5063	0.00119	0.00119	98,508	117	98,450	4,691,099	47.62
31	48	44,197	46,010	0.4555	0.00106	0.00106	98,391	105	98,334	4,592,649	46.68
32	51	43,602	46,042	0.4645	0.00114	0.00114	98,286	112	98,226	4,494,315	45.73
33	52	43,808	45,012	0.4966	0.00117	0.00117	98,174	115	98,116	4,396,089	44.78
34	78	43,759	44,945	0.5007	0.00176	0.00176	98,059	172	97,973	4,297,973	43.83
35	58	42,050	44,805	0.4915	0.00134	0.00133	97,887	131	97,821	4,200,000	42.91
36	80	40,707	42,974	0.5285	0.00191	0.00191	97,756	187	97,668	4,102,179	41.96
37	61	39,137	41,491	0.4364	0.00151	0.00151	97,570	148	97,486	4,004,511	41.04
38	71	39,380	39,782	0.5125	0.00179	0.00179	97,422	175	97,337	3,907,024	40.10
39	92	38,246	39,718	0.4283	0.00236	0.00236	97,247	229	97,116	3,809,687	39.18
40	87	37,502	38,587	0.5365	0.00229	0.00228	97,018	222	96,916	3,712,571	38.27
41	81	37,170	37,767	0.4978	0.00216	0.00216	96,797	209	96,692	3,615,655	37.35
42	71	34,611	37,235	0.5075	0.00198	0.00197	96,588	191	96,494	3,518,964	36.43

43	92	33,596	34,791	0.4473	0.00269	0.00269	96,397	259	96,254	3,422,470	35.50
44	75	32,055	33,620	0.4676	0.00228	0.00228	96,138	219	96,021	3,326,216	34.60
45	86	32,979	32,029	0.5345	0.00265	0.00264	95,919	253	95,801	3,230,195	33.68
46	86	32,742	32,804	0.4803	0.00262	0.00262	95,665	251	95,535	3,134,395	32.76
47	104	31,427	32,506	0.4751	0.00325	0.00325	95,414	310	95,252	3,038,860	31.85
48	105	31,375	31,092	0.5372	0.00336	0.00336	95,105	319	94,957	2,943,608	30.95
49	129	32,736	31,098	0.5459	0.00404	0.00403	94,785	382	94,612	2,848,651	30.05
50	130	34,790	32,255	0.5262	0.00388	0.00387	94,403	365	94,230	2,754,039	29.17
51	150	31,924	34,278	0.5043	0.00453	0.00452	94,038	425	93,827	2,659,810	28.28
52	142	29,733	31,354	0.4669	0.00465	0.00464	93,612	434	93,381	2,565,983	27.41
53	180	31,595	29,171	0.5063	0.00592	0.00591	93,178	550	92,906	2,472,602	26.54
54	183	30,418	30,948	0.5184	0.00596	0.00595	92,628	551	92,362	2,379,696	25.69
55	177	29,939	29,713	0.4351	0.00593	0.00591	92,077	545	91,769	2,287,333	24.84
56	174	25,501	29,187	0.4830	0.00636	0.00634	91,532	581	91,232	2,195,564	23.99
57	188	23,381	24,837	0.5054	0.00780	0.00777	90,952	707	90,602	2,104,332	23.14
58	192	29,856	22,773	0.5339	0.00730	0.00727	90,245	656	89,939	2,013,729	22.31
59	206	18,073	29,144	0.4677	0.00873	0.00869	89,589	778	89,175	1,923,790	21.47
60	208	21,507	17,514	0.5532	0.01066	0.01061	88,811	942	88,390	1,834,615	20.66
61	217	23,104	20,828	0.5156	0.00988	0.00983	87,869	864	87,450	1,746,225	19.87
62	292	24,687	22,380	0.5160	0.01241	0.01233	87,005	1,073	86,485	1,658,775	19.07
63	313	23,600	23,829	0.4858	0.01320	0.01311	85,932	1,127	85,352	1,572,290	18.30
64	314	23,315	22,734	0.4995	0.01364	0.01355	84,805	1,149	84,230	1,486,938	17.53
65	396	23,612	22,458	0.5293	0.01719	0.01705	83,656	1,427	82,985	1,402,707	16.77
66	422	22,903	22,655	0.4913	0.01853	0.01835	82,230	1,509	81,462	1,319,723	16.05
67	435	21,653	21,938	0.5339	0.01996	0.01977	80,721	1,596	79,977	1,238,261	15.34
68	414	21,019	20,728	0.5196	0.01983	0.01965	79,124	1,555	78,378	1,158,284	14.64
69	509	20,054	20,074	0.5249	0.02537	0.02507	77,570	1,944	76,646	1,079,906	13.92
70	492	18,810	19,162	0.5019	0.02591	0.02558	75,625	1,935	74,662	1,003,260	13.27
71	497	17,007	17,956	0.5142	0.02843	0.02804	73,691	2,066	72,687	928,599	12.60
72	560	16,815	16,092	0.5032	0.03404	0.03347	71,624	2,397	70,433	855,912	11.95
73	561	15,091	15,929	0.5142	0.03617	0.03555	69,227	2,461	68,032	785,479	11.35
74	555	14,386	14,222	0.5112	0.03880	0.03808	66,766	2,542	65,524	717,447	10.75
75	565	13,651	13,522	0.5201	0.04159	0.04077	64,224	2,619	62,967	651,923	10.15
76	633	12,424	12,754	0.4984	0.05028	0.04905	61,605	3,021	60,090	588,956	9.56
77	645	11,275	11,583	0.4882	0.05644	0.05485	58,584	3,213	56,939	528,866	9.03
78	555	9,690	10,465	0.4709	0.05507	0.05351	55,371	2,963	53,803	471,927	8.52
79	564	7,904	8,937	0.4882	0.06698	0.06476	52,407	3,394	50,670	418,124	7.98
80	513	7,120	7,221	0.4949	0.07154	0.06905	49,014	3,384	47,304	367,454	7.50
81	555	6,589	6,411	0.5219	0.08538	0.08204	45,629	3,743	43,840	320,150	7.02
82	533	6,009	5,869	0.4877	0.08975	0.08580	41,886	3,594	40,045	276,310	6.60
83	547	5,440	5,354	0.4903	0.10135	0.09637	38,292	3,690	36,411	236,265	6.17
84	586	4,879	4,805	0.5025	0.12102	0.11415	34,602	3,950	32,637	199,854	5.78
85	540	4,332	4,234	0.5012	0.12608	0.11862	30,652	3,636	28,838	167,217	5.46
86	524	3,750	3,764	0.5020	0.13947	0.13041	27,016	3,523	25,261	138,379	5.12
87	490	3,249	3,231	0.5009	0.15123	0.14062	23,493	3,304	21,844	113,117	4.81
88	458	2,536	2,754	0.4898	0.17316	0.15910	20,189	3,212	18,550	91,273	4.52
89	390	2,070	2,121	0.4997	0.18611	0.17026	16,977	2,891	15,531	72,723	4.28
90	1,491	5,867	6,240		0.24630	1.00000	14,087	14,087	57,192	57,192	4.06

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Tabla de mortalidad femenina. 1999

Edad x (1)	Defunciones	Población femenina		a(x) (2)	m(x) (3)	q(x) (4)	l(x) (5)	d(x) (6)	L(x) (7)	T(x) (8)	E(x) (9)
		1/1/1999	1/1/2000								
0	94	23,589	24,699	0.1378	0.00389	0.00388	100,000	388	99,665	8,363,079	83.63
1	12	23,908	24,347	0.5340	0.00050	0.00050	99,612	50	99,589	8,263,414	82.96
2	4	22,216	21,313	0.3397	0.00018	0.00018	99,562	18	99,550	8,163,825	82.00
3	3	22,068	21,880	0.6256	0.00014	0.00014	99,544	14	99,539	8,064,274	81.01
4	4	22,204	21,954	0.6342	0.00018	0.00018	99,531	18	99,524	7,964,735	80.02
5	2	23,284	22,287	0.2932	0.00009	0.00009	99,513	9	99,506	7,865,211	79.04
6	2	24,320	23,388	0.1890	0.00008	0.00008	99,504	8	99,497	7,765,705	78.04
7	1	23,492	24,140	0.4521	0.00004	0.00004	99,495	4	99,493	7,666,208	77.05
8	1	23,771	23,600	0.8575	0.00004	0.00004	99,491	4	99,491	7,566,715	76.05
9	5	24,327	23,884	0.5836	0.00021	0.00021	99,487	21	99,478	7,467,224	75.06
10	6	24,536	24,384	0.6137	0.00025	0.00025	99,466	24	99,457	7,367,746	74.07
11	4	25,326	24,528	0.5836	0.00016	0.00016	99,442	16	99,435	7,268,289	73.09
12	3	26,486	25,404	0.4320	0.00012	0.00012	99,426	11	99,420	7,168,853	72.10
13	3	27,586	26,393	0.5598	0.00011	0.00011	99,415	11	99,410	7,069,434	71.11
14	7	28,782	27,557	0.6458	0.00025	0.00025	99,404	25	99,395	6,970,024	70.12
15	4	29,962	28,795	0.3253	0.00014	0.00014	99,379	14	99,370	6,870,629	69.14
16	6	31,933	30,234	0.4205	0.00019	0.00019	99,365	19	99,354	6,771,259	68.15
17	11	34,162	32,770	0.5773	0.00033	0.00033	99,346	33	99,332	6,671,905	67.16
18	5	35,965	34,932	0.6011	0.00014	0.00014	99,313	14	99,308	6,572,573	66.18
19	10	38,346	37,265	0.6077	0.00026	0.00026	99,299	26	99,289	6,473,265	65.19
20	3	40,811	40,083	0.7178	0.00007	0.00007	99,273	7	99,271	6,373,976	64.21
21	18	42,480	42,927	0.4740	0.00042	0.00042	99,266	42	99,244	6,274,705	63.21
22	16	45,256	44,788	0.4659	0.00036	0.00036	99,224	35	99,205	6,175,461	62.24
23	15	45,517	47,846	0.5724	0.00032	0.00032	99,189	32	99,175	6,076,256	61.26
24	18	46,048	48,371	0.4521	0.00038	0.00038	99,157	38	99,136	5,977,081	60.28
25	6	45,204	48,790	0.3977	0.00013	0.00013	99,119	13	99,111	5,877,944	59.30
26	16	45,098	47,933	0.5307	0.00034	0.00034	99,106	34	99,090	5,778,833	58.31
27	12	45,409	47,524	0.5413	0.00026	0.00026	99,072	26	99,061	5,679,742	57.33
28	16	44,246	47,725	0.4283	0.00035	0.00035	99,047	34	99,027	5,580,682	56.34
29	11	43,980	46,318	0.4670	0.00024	0.00024	99,012	24	98,999	5,481,655	55.36
30	16	44,201	45,733	0.4295	0.00036	0.00036	98,988	35	98,968	5,382,655	54.38
31	18	44,648	45,768	0.4837	0.00040	0.00040	98,953	39	98,933	5,283,687	53.40
32	24	44,211	45,831	0.4353	0.00053	0.00053	98,914	53	98,884	5,184,755	52.42
33	18	44,580	45,289	0.4271	0.00040	0.00040	98,861	40	98,838	5,085,871	51.44
34	17	44,886	45,351	0.3931	0.00038	0.00038	98,821	37	98,799	4,987,033	50.47
35	32	43,188	45,636	0.5302	0.00072	0.00072	98,784	71	98,751	4,888,234	49.48
36	22	42,019	43,968	0.3817	0.00051	0.00051	98,713	50	98,682	4,789,483	48.52
37	31	41,140	42,608	0.4299	0.00074	0.00074	98,662	73	98,621	4,690,802	47.54
38	28	41,216	41,497	0.5313	0.00068	0.00068	98,589	67	98,558	4,592,181	46.58
39	25	40,726	41,634	0.5109	0.00061	0.00061	98,523	60	98,493	4,493,623	45.61
40	30	40,156	41,001	0.5046	0.00074	0.00074	98,463	73	98,427	4,395,129	44.64
41	32	40,225	40,316	0.4927	0.00079	0.00079	98,390	78	98,350	4,296,702	43.67
42	34	37,672	40,376	0.4786	0.00087	0.00087	98,312	86	98,267	4,198,352	42.70

43	53	37,194	37,881	0.4545	0.00141	0.00141	98,226	139	98,151	4,100,085	41.74
44	41	35,912	37,229	0.4198	0.00112	0.00112	98,088	110	98,024	4,001,934	40.80
45	39	36,032	35,950	0.4966	0.00108	0.00108	97,978	106	97,924	3,903,910	39.84
46	44	36,021	36,042	0.4506	0.00122	0.00122	97,872	119	97,806	3,805,985	38.89
47	35	34,191	35,934	0.4980	0.00100	0.00100	97,752	98	97,703	3,708,179	37.93
48	45	34,170	33,918	0.5804	0.00132	0.00132	97,655	129	97,601	3,610,476	36.97
49	63	36,280	33,911	0.4928	0.00180	0.00179	97,526	175	97,437	3,512,875	36.02
50	51	38,264	35,966	0.5043	0.00137	0.00137	97,351	134	97,285	3,415,438	35.08
51	68	34,657	37,862	0.4854	0.00188	0.00187	97,217	182	97,123	3,318,154	34.13
52	72	32,741	34,230	0.5424	0.00215	0.00215	97,035	208	96,940	3,221,030	33.19
53	85	34,686	32,193	0.4925	0.00254	0.00254	96,827	246	96,702	3,124,090	32.26
54	74	33,669	34,069	0.5056	0.00218	0.00218	96,581	211	96,477	3,027,389	31.35
55	81	32,305	33,180	0.5318	0.00247	0.00247	96,370	238	96,259	2,930,912	30.41
56	79	27,331	31,734	0.4850	0.00268	0.00267	96,132	257	96,000	2,834,653	29.49
57	82	24,459	26,890	0.5117	0.00319	0.00319	95,875	306	95,726	2,738,654	28.56
58	95	32,178	24,079	0.5024	0.00338	0.00337	95,569	322	95,409	2,642,928	27.65
59	89	20,466	31,496	0.4167	0.00343	0.00342	95,247	326	95,057	2,547,519	26.75
60	80	23,919	20,077	0.5057	0.00364	0.00363	94,921	345	94,751	2,452,462	25.84
61	100	26,128	23,409	0.4981	0.00404	0.00403	94,577	381	94,386	2,357,711	24.93
62	123	28,750	25,512	0.4706	0.00453	0.00452	94,196	426	93,970	2,263,325	24.03
63	148	27,059	28,088	0.4715	0.00537	0.00535	93,770	502	93,505	2,169,355	23.13
64	153	27,034	26,451	0.5309	0.00572	0.00571	93,268	532	93,018	2,075,850	22.26
65	166	27,688	26,381	0.5108	0.00614	0.00612	92,736	568	92,458	1,982,832	21.38
66	191	27,016	27,074	0.5331	0.00706	0.00704	92,168	649	91,865	1,890,374	20.51
67	161	25,730	26,335	0.4889	0.00618	0.00617	91,519	564	91,231	1,798,509	19.65
68	217	26,030	25,046	0.5020	0.00850	0.00846	90,955	770	90,572	1,707,278	18.77
69	259	24,959	25,382	0.5220	0.01029	0.01024	90,185	923	89,744	1,616,706	17.93
70	271	25,005	24,323	0.5279	0.01099	0.01093	89,262	976	88,801	1,526,962	17.11
71	309	22,843	24,338	0.4917	0.01310	0.01301	88,286	1,149	87,702	1,438,161	16.29
72	288	22,630	22,241	0.5218	0.01284	0.01276	87,137	1,112	86,606	1,350,458	15.50
73	300	21,205	22,038	0.5259	0.01388	0.01378	86,026	1,186	85,464	1,263,852	14.69
74	366	20,717	20,551	0.5356	0.01774	0.01759	84,840	1,493	84,147	1,178,389	13.89
75	402	19,889	19,955	0.5040	0.02018	0.01998	83,347	1,665	82,521	1,094,242	13.13
76	440	19,870	19,142	0.4936	0.02256	0.02230	81,682	1,822	80,760	1,011,721	12.39
77	467	17,576	19,006	0.5062	0.02553	0.02521	79,860	2,014	78,866	930,961	11.66
78	560	16,722	16,807	0.5248	0.03340	0.03288	77,847	2,560	76,630	852,095	10.95
79	536	14,073	15,908	0.4992	0.03576	0.03513	75,287	2,645	73,963	775,464	10.30
80	525	13,789	13,350	0.5177	0.03869	0.03798	72,643	2,759	71,312	701,502	9.66
81	640	13,051	13,008	0.4993	0.04912	0.04794	69,883	3,350	68,206	630,190	9.02
82	670	11,957	12,268	0.5174	0.05531	0.05388	66,533	3,585	64,803	561,984	8.45
83	709	11,626	11,090	0.5233	0.06242	0.06062	62,949	3,816	61,130	497,180	7.90
84	765	10,668	10,704	0.4937	0.07159	0.06908	59,133	4,085	57,064	436,051	7.37
85	754	9,868	9,749	0.5074	0.07687	0.07407	55,048	4,077	53,039	378,986	6.88
86	885	8,771	8,919	0.5050	0.10006	0.09533	50,970	4,859	48,565	325,947	6.39
87	793	7,412	7,828	0.5103	0.10407	0.09902	46,111	4,566	43,875	277,382	6.02
88	822	6,567	6,561	0.5070	0.12523	0.11795	41,545	4,900	39,129	233,507	5.62
89	797	5,403	5,715	0.5019	0.14337	0.13381	36,645	4,904	34,202	194,378	5.30
90	3,837	18,952	19,773		0.19817	1.00000	31,741	31,741	160,175	160,175	5.05

(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