

National Statistical Institute NSI, Republic of Bulgaria; Mortality and Life Expectancy by Sex and place of residence for the 2002 - 2004 period, downloaded from <http://www.nsi.bg/otrasalen.php?otr=53> (20.07.2010)

MORTALITY AND LIFE EXPECTANCY BY SEX AND PLACE OF RESIDENCE FOR THE 2002-2004 PERIOD

Age (years)	Probability of dying from x to x+1 years			Probability of surviving to x+1 years			Life expectancy			
	x	qx			px			e ^o x		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Total										
0	0.01171	0.01345	0.00985	0.98829	0.98655	0.99015	72.43	69.11	76.22	
1	0.00111	0.00099	0.00124	0.99889	0.99901	0.99876	72.29	69.05	75.97	
2	0.00067	0.00082	0.00051	0.99933	0.99918	0.99949	71.37	68.12	75.07	
3	0.00047	0.00048	0.00045	0.99953	0.99952	0.99955	70.41	67.18	74.11	
4	0.00040	0.00045	0.00033	0.99960	0.99955	0.99967	69.45	66.21	73.14	
5	0.00024	0.00027	0.00021	0.99976	0.99973	0.99979	68.47	65.24	72.16	
6	0.00024	0.00032	0.00015	0.99976	0.99968	0.99985	67.49	64.26	71.18	
7	0.00025	0.00033	0.00016	0.99975	0.99967	0.99984	66.51	63.28	70.19	
8	0.00023	0.00030	0.00017	0.99977	0.99970	0.99983	65.52	62.30	69.20	
9	0.00032	0.00048	0.00015	0.99968	0.99952	0.99985	64.54	61.31	68.21	
10	0.00024	0.00027	0.00020	0.99976	0.99973	0.99980	63.56	60.34	67.22	
11	0.00031	0.00036	0.00025	0.99969	0.99964	0.99975	62.57	59.36	66.24	
12	0.00030	0.00031	0.00030	0.99970	0.99969	0.99970	61.59	58.38	65.25	
13	0.00028	0.00036	0.00019	0.99972	0.99964	0.99981	60.61	57.40	64.27	
14	0.00032	0.00041	0.00023	0.99968	0.99959	0.99977	59.63	56.42	63.28	
15	0.00037	0.00049	0.00024	0.99963	0.99951	0.99976	58.65	55.44	62.30	
16	0.00039	0.00055	0.00023	0.99961	0.99945	0.99977	57.67	54.47	61.31	
17	0.00056	0.00078	0.00034	0.99944	0.99922	0.99966	56.69	53.50	60.33	
18	0.00051	0.00066	0.00034	0.99949	0.99934	0.99966	55.72	52.54	59.35	
19	0.00060	0.00084	0.00034	0.99940	0.99916	0.99966	54.75	51.58	58.37	
20	0.00081	0.00111	0.00049	0.99919	0.99889	0.99951	53.78	50.62	57.39	
21	0.00077	0.00108	0.00045	0.99923	0.99892	0.99955	52.83	49.67	56.42	
22	0.00072	0.00102	0.00040	0.99928	0.99898	0.99960	51.87	48.73	55.44	
23	0.00077	0.00110	0.00041	0.99923	0.99890	0.99959	50.90	47.78	54.46	
24	0.00082	0.00113	0.00050	0.99918	0.99887	0.99950	49.94	46.83	53.48	
25	0.00094	0.00135	0.00051	0.99906	0.99865	0.99949	48.98	45.88	52.51	
26	0.00091	0.00129	0.00052	0.99909	0.99871	0.99948	48.03	44.94	51.54	
27	0.00075	0.00103	0.00044	0.99925	0.99897	0.99956	47.07	44.00	50.56	
28	0.00093	0.00128	0.00056	0.99907	0.99872	0.99944	46.11	43.04	49.59	
29	0.00103	0.00143	0.00061	0.99897	0.99857	0.99939	45.15	42.10	48.61	
30	0.00097	0.00135	0.00057	0.99903	0.99865	0.99943	44.20	41.16	47.64	
31	0.00101	0.00138	0.00063	0.99899	0.99862	0.99937	43.24	40.21	46.67	
32	0.00113	0.00145	0.00079	0.99887	0.99855	0.99921	42.28	39.27	45.70	
33	0.00139	0.00188	0.00087	0.99861	0.99812	0.99913	41.33	38.32	44.73	
34	0.00140	0.00181	0.00098	0.99860	0.99819	0.99902	40.38	37.40	43.77	
35	0.00136	0.00187	0.00084	0.99864	0.99813	0.99916	39.44	36.46	42.82	
36	0.00167	0.00225	0.00107	0.99833	0.99775	0.99893	38.49	35.53	41.85	
37	0.00190	0.00251	0.00128	0.99810	0.99749	0.99872	37.56	34.61	40.90	
38	0.00207	0.00272	0.00142	0.99793	0.99728	0.99858	36.63	33.70	39.95	
39	0.00233	0.00308	0.00156	0.99767	0.99692	0.99844	35.70	32.79	39.00	
40	0.00227	0.00289	0.00166	0.99773	0.99711	0.99834	34.78	31.89	38.06	
41	0.00297	0.00415	0.00178	0.99703	0.99585	0.99822	33.86	30.98	37.13	
42	0.00303	0.00436	0.00170	0.99697	0.99564	0.99830	32.96	30.10	36.19	
43	0.00344	0.00490	0.00198	0.99656	0.99510	0.99802	32.06	29.23	35.25	
44	0.00376	0.00526	0.00226	0.99624	0.99474	0.99774	31.17	28.37	34.32	

45	0.00405	0.00566	0.00246	0.99595	0.99434	0.99754	30.29	27.52	33.40
46	0.00465	0.00665	0.00269	0.99535	0.99335	0.99731	29.41	26.68	32.48
47	0.00489	0.00697	0.00287	0.99511	0.99303	0.99713	28.54	25.85	31.57
48	0.00550	0.00781	0.00327	0.99450	0.99219	0.99673	27.68	25.03	30.65
49	0.00614	0.00879	0.00357	0.99386	0.99121	0.99643	26.83	24.22	29.75
50	0.00666	0.00966	0.00378	0.99334	0.99034	0.99622	25.99	23.43	28.86
51	0.00767	0.01119	0.00433	0.99233	0.98881	0.99567	25.16	22.66	27.97
52	0.00838	0.01216	0.00481	0.99162	0.98784	0.99519	24.35	21.91	27.09
53	0.00929	0.01387	0.00500	0.99071	0.98613	0.99500	23.56	21.17	26.21
54	0.00956	0.01427	0.00516	0.99044	0.98573	0.99484	22.77	20.46	25.34
55	0.01013	0.01486	0.00577	0.98987	0.98514	0.99423	21.99	19.75	24.47
56	0.01111	0.01651	0.00616	0.98889	0.98349	0.99384	21.21	19.04	23.61
57	0.01197	0.01745	0.00700	0.98803	0.98255	0.99300	20.44	18.35	22.75
58	0.01287	0.01909	0.00729	0.98713	0.98091	0.99271	19.68	17.67	21.91
59	0.01366	0.02058	0.00754	0.98634	0.97942	0.99246	18.93	17.00	21.07
60	0.01535	0.02276	0.00884	0.98465	0.97724	0.99116	18.19	16.35	20.22
61	0.01596	0.02342	0.00949	0.98404	0.97658	0.99051	17.46	15.72	19.40
62	0.01777	0.02609	0.01064	0.98223	0.97391	0.98936	16.74	15.08	18.58
63	0.01928	0.02781	0.01206	0.98072	0.97219	0.98794	16.03	14.47	17.78
64	0.02095	0.02976	0.01361	0.97905	0.97024	0.98639	15.33	13.87	16.99
65	0.02337	0.03316	0.01530	0.97663	0.96684	0.98470	14.65	13.28	16.21
66	0.02467	0.03413	0.01693	0.97533	0.96587	0.98307	13.99	12.72	15.46
67	0.02673	0.03686	0.01853	0.97327	0.96314	0.98147	13.33	12.15	14.72
68	0.03093	0.04189	0.02217	0.96907	0.95811	0.97783	12.68	11.60	13.98
69	0.03300	0.04551	0.02315	0.96700	0.95449	0.97685	12.07	11.08	13.29
70	0.03550	0.04700	0.02656	0.96450	0.95300	0.97344	11.47	10.59	12.59
71	0.03760	0.04955	0.02839	0.96240	0.95045	0.97161	10.87	10.08	11.92
72	0.04154	0.05440	0.03174	0.95846	0.94560	0.96826	10.28	9.58	11.26
73	0.04622	0.05874	0.03687	0.95378	0.94126	0.96313	9.70	9.11	10.61
74	0.05208	0.06493	0.04264	0.94792	0.93507	0.95736	9.14	8.64	9.99
75	0.05736	0.06998	0.04834	0.94264	0.93002	0.95166	8.62	8.21	9.42
76	0.06579	0.08032	0.05562	0.93421	0.91968	0.94438	8.11	7.79	8.87
77	0.07196	0.08845	0.06059	0.92804	0.91155	0.93941	7.65	7.43	8.36
78	0.07642	0.09094	0.06667	0.92358	0.90906	0.93333	7.20	7.10	7.87
79	0.08491	0.09829	0.07621	0.91509	0.90171	0.92379	6.76	6.76	7.39
80	0.09565	0.10013	0.08678	0.90435	0.89987	0.91322	6.34	6.44	6.96
81	0.10707	0.10744	0.09763	0.89293	0.89256	0.90237	5.96	6.10	6.58
82	0.11752	0.11523	0.10713	0.88248	0.88477	0.89287	5.61	5.78	6.23
83	0.12452	0.12354	0.11672	0.87548	0.87646	0.88328	5.29	5.46	5.92
84	0.12928	0.13239	0.11744	0.87072	0.86761	0.88256	4.97	5.16	5.64
85	0.14127	0.14181	0.11988	0.85873	0.85819	0.88012	4.64	4.88	5.35
86	0.15429	0.15182	0.13036	0.84571	0.84818	0.86964	4.32	4.60	5.01
87	0.16840	0.16246	0.14161	0.83160	0.83754	0.85839	4.02	4.34	4.69
88	0.18368	0.17376	0.15366	0.81632	0.82624	0.84634	3.73	4.08	4.38
89	0.20018	0.18573	0.16656	0.79982	0.81427	0.83344	3.46	3.84	4.09
90	0.21797	0.19842	0.18035	0.78203	0.80158	0.81965	3.20	3.60	3.81
91	0.23712	0.21184	0.19508	0.76288	0.78816	0.80492	2.96	3.37	3.54
92	0.25766	0.22603	0.21078	0.74234	0.77397	0.78922	2.73	3.15	3.28
93	0.27965	0.24100	0.22748	0.72035	0.75900	0.77252	2.51	2.93	3.02
94	0.30313	0.25678	0.24523	0.69687	0.74322	0.75477	2.30	2.70	2.77
95	0.32810	0.27339	0.26405	0.67190	0.72661	0.73595	2.09	2.47	2.51
96	0.35457	0.29083	0.28396	0.64543	0.70917	0.71604	1.88	2.22	2.24
97	0.38253	0.30913	0.30498	0.61747	0.69087	0.69502	1.65	1.93	1.94
98	0.41193	0.32828	0.32712	0.58807	0.67172	0.67288	1.38	1.58	1.58
99	0.44270	0.34828	0.35037	0.55730	0.65172	0.64963	1.02	1.13	1.12
100+	0.47474	0.36913	0.37472	0.52526	0.63087	0.62528	0.47	0.48	0.48

Urban residence									
0	0.01028	0.01188	0.00857	0.98972	0.98812	0.99143	72.81	69.50	76.54
1	0.00087	0.00078	0.00096	0.99913	0.99922	0.99904	72.57	69.33	76.20
2	0.00063	0.00079	0.00046	0.99937	0.99921	0.99954	71.63	68.38	75.27
3	0.00042	0.00043	0.00042	0.99958	0.99957	0.99958	70.68	67.44	74.31
4	0.00022	0.00035	0.00009	0.99978	0.99965	0.99991	69.71	66.47	73.34
5	0.00016	0.00016	0.00017	0.99984	0.99984	0.99983	68.72	65.49	72.34
6	0.00025	0.00034	0.00015	0.99975	0.99966	0.99985	67.73	64.50	71.36
7	0.00026	0.00035	0.00016	0.99974	0.99965	0.99984	66.75	63.52	70.37
8	0.00019	0.00023	0.00015	0.99981	0.99977	0.99985	65.77	62.54	69.38
9	0.00031	0.00049	0.00012	0.99969	0.99951	0.99988	64.78	61.56	68.39
10	0.00021	0.00025	0.00017	0.99979	0.99975	0.99983	63.80	60.59	67.40
11	0.00028	0.00034	0.00021	0.99972	0.99966	0.99979	62.81	59.60	66.41
12	0.00025	0.00028	0.00021	0.99975	0.99972	0.99979	61.83	58.62	65.42
13	0.00021	0.00027	0.00015	0.99979	0.99973	0.99985	60.84	57.64	64.44
14	0.00030	0.00039	0.00020	0.99970	0.99961	0.99980	59.86	56.66	63.45
15	0.00032	0.00043	0.00021	0.99968	0.99957	0.99979	58.87	55.68	62.46
16	0.00043	0.00060	0.00025	0.99957	0.99940	0.99975	57.89	54.70	61.47
17	0.00056	0.00076	0.00035	0.99944	0.99924	0.99965	56.92	53.73	60.49
18	0.00050	0.00069	0.00031	0.99950	0.99931	0.99969	55.95	52.77	59.51
19	0.00054	0.00074	0.00033	0.99946	0.99926	0.99967	54.98	51.81	58.53
20	0.00070	0.00097	0.00042	0.99930	0.99903	0.99958	54.01	50.85	57.54
21	0.00070	0.00104	0.00035	0.99930	0.99896	0.99965	53.04	49.90	56.57
22	0.00065	0.00097	0.00032	0.99935	0.99903	0.99968	52.08	48.95	55.59
23	0.00070	0.00103	0.00037	0.99930	0.99897	0.99963	51.11	48.00	54.61
24	0.00080	0.00113	0.00046	0.99920	0.99887	0.99954	50.15	47.05	53.63
25	0.00087	0.00123	0.00051	0.99913	0.99877	0.99949	49.19	46.10	52.65
26	0.00084	0.00123	0.00043	0.99916	0.99877	0.99957	48.23	45.15	51.68
27	0.00073	0.00102	0.00043	0.99927	0.99898	0.99957	47.27	44.21	50.70
28	0.00092	0.00134	0.00049	0.99908	0.99866	0.99951	46.31	43.25	49.72
29	0.00093	0.00124	0.00062	0.99907	0.99876	0.99938	45.35	42.31	48.74
30	0.00090	0.00122	0.00058	0.99910	0.99878	0.99942	44.39	41.36	47.77
31	0.00098	0.00132	0.00064	0.99902	0.99868	0.99936	43.43	40.41	46.80
32	0.00105	0.00132	0.00078	0.99895	0.99868	0.99922	42.47	39.47	45.83
33	0.00135	0.00183	0.00088	0.99865	0.99817	0.99912	41.52	38.52	44.87
34	0.00131	0.00171	0.00091	0.99869	0.99829	0.99909	40.57	37.59	43.91
35	0.00127	0.00165	0.00090	0.99873	0.99835	0.99910	39.63	36.65	42.95
36	0.00158	0.00212	0.00105	0.99842	0.99788	0.99895	38.68	35.71	41.98
37	0.00176	0.00232	0.00121	0.99824	0.99768	0.99879	37.74	34.79	41.03
38	0.00183	0.00239	0.00128	0.99817	0.99761	0.99872	36.80	33.86	40.08
39	0.00228	0.00300	0.00157	0.99772	0.99700	0.99843	35.87	32.94	39.13
40	0.00214	0.00260	0.00170	0.99786	0.99740	0.99830	34.95	32.04	38.19
41	0.00269	0.00379	0.00164	0.99731	0.99621	0.99836	34.02	31.12	37.25
42	0.00279	0.00403	0.00160	0.99721	0.99597	0.99840	33.11	30.24	36.31
43	0.00321	0.00452	0.00195	0.99679	0.99548	0.99805	32.20	29.36	35.37
44	0.00343	0.00487	0.00207	0.99657	0.99513	0.99793	31.31	28.49	34.44
45	0.00380	0.00527	0.00243	0.99620	0.99473	0.99757	30.41	27.63	33.51
46	0.00431	0.00610	0.00264	0.99569	0.99390	0.99736	29.53	26.77	32.59
47	0.00456	0.00643	0.00282	0.99544	0.99357	0.99718	28.65	25.93	31.67
48	0.00502	0.00714	0.00306	0.99498	0.99286	0.99694	27.78	25.10	30.76
49	0.00580	0.00825	0.00354	0.99420	0.99175	0.99646	26.92	24.28	29.86
50	0.00635	0.00918	0.00373	0.99365	0.99082	0.99627	26.07	23.47	28.96
51	0.00724	0.01039	0.00433	0.99276	0.98961	0.99567	25.23	22.69	28.07
52	0.00810	0.01170	0.00481	0.99190	0.98830	0.99519	24.42	21.92	27.19
53	0.00869	0.01302	0.00476	0.99131	0.98698	0.99524	23.61	21.17	26.31

54	0.00910	0.01359	0.00503	0.99090	0.98641	0.99497	22.81	20.45	25.44
55	0.00986	0.01447	0.00572	0.99014	0.98553	0.99428	22.02	19.72	24.56
56	0.01053	0.01551	0.00609	0.98947	0.98449	0.99391	21.23	19.00	23.70
57	0.01140	0.01638	0.00695	0.98860	0.98362	0.99305	20.45	18.29	22.84
58	0.01238	0.01801	0.00735	0.98762	0.98199	0.99265	19.68	17.59	22.00
59	0.01332	0.02009	0.00725	0.98668	0.97991	0.99275	18.92	16.90	21.16
60	0.01505	0.02226	0.00864	0.98495	0.97774	0.99136	18.17	16.24	20.31
61	0.01549	0.02261	0.00927	0.98451	0.97739	0.99073	17.44	15.60	19.48
62	0.01748	0.02538	0.01069	0.98252	0.97462	0.98931	16.71	14.95	18.66
63	0.01998	0.02880	0.01248	0.98002	0.97120	0.98752	16.00	14.32	17.86
64	0.02102	0.02973	0.01382	0.97898	0.97027	0.98618	15.31	13.73	17.08
65	0.02390	0.03409	0.01566	0.97610	0.96591	0.98434	14.63	13.14	16.31
66	0.02547	0.03547	0.01751	0.97453	0.96453	0.98249	13.98	12.58	15.56
67	0.02656	0.03670	0.01863	0.97344	0.96330	0.98137	13.33	12.03	14.83
68	0.03203	0.04381	0.02305	0.96797	0.95619	0.97695	12.68	11.47	14.10
69	0.03351	0.04697	0.02351	0.96649	0.95303	0.97649	12.08	10.97	13.42
70	0.03575	0.04905	0.02607	0.96425	0.95095	0.97393	11.48	10.49	12.73
71	0.03880	0.05216	0.02917	0.96120	0.94784	0.97083	10.89	10.00	12.06
72	0.04210	0.05535	0.03261	0.95790	0.94465	0.96739	10.31	9.52	11.41
73	0.04710	0.06146	0.03688	0.95290	0.93854	0.96312	9.74	9.05	10.77
74	0.05283	0.06711	0.04278	0.94717	0.93289	0.95722	9.20	8.61	10.17
75	0.05779	0.07111	0.04863	0.94221	0.92889	0.95137	8.68	8.20	9.60
76	0.06765	0.08375	0.05675	0.93235	0.91625	0.94325	8.18	7.78	9.06
77	0.07316	0.08913	0.06255	0.92684	0.91087	0.93745	7.74	7.45	8.58
78	0.07605	0.09371	0.06464	0.92395	0.90629	0.93536	7.31	7.13	8.12
79	0.08472	0.10112	0.07451	0.91528	0.89888	0.92549	6.87	6.82	7.64
80	0.09594	0.10112	0.07827	0.90406	0.89888	0.92173	6.46	6.53	7.22
81	0.10621	0.10704	0.08573	0.89379	0.89296	0.91427	6.09	6.21	6.79
82	0.11699	0.11437	0.09378	0.88301	0.88563	0.90622	5.76	5.89	6.38
83	0.12309	0.12213	0.10248	0.87691	0.87787	0.89752	5.45	5.59	5.99
84	0.12563	0.13036	0.11186	0.87437	0.86964	0.88814	5.15	5.30	5.61
85	0.13667	0.13907	0.12197	0.86333	0.86093	0.87803	4.82	5.02	5.26
86	0.14860	0.14827	0.13285	0.85140	0.85173	0.86715	4.50	4.75	4.92
87	0.16147	0.15800	0.14454	0.83853	0.84200	0.85546	4.20	4.49	4.60
88	0.17534	0.16828	0.15711	0.82466	0.83172	0.84289	3.92	4.24	4.29
89	0.19026	0.17913	0.17059	0.80974	0.82087	0.82941	3.65	3.99	4.00
90	0.20629	0.19056	0.18502	0.79371	0.80944	0.81498	3.39	3.76	3.72
91	0.22347	0.20260	0.20047	0.77653	0.79740	0.79953	3.14	3.53	3.45
92	0.24185	0.21528	0.21696	0.75815	0.78472	0.78304	2.91	3.30	3.19
93	0.26148	0.22860	0.23454	0.73852	0.77140	0.76546	2.68	3.07	2.95
94	0.28239	0.24258	0.25324	0.71761	0.75742	0.74676	2.46	2.84	2.70
95	0.30460	0.25725	0.27309	0.69540	0.74275	0.72691	2.24	2.60	2.45
96	0.32813	0.27261	0.29412	0.67187	0.72739	0.70588	2.01	2.33	2.19
97	0.35298	0.28868	0.31633	0.64702	0.71132	0.68367	1.76	2.03	1.90
98	0.37913	0.30546	0.33974	0.62087	0.69454	0.66026	1.46	1.65	1.56
99	0.40655	0.32295	0.36433	0.59345	0.67705	0.63567	1.06	1.17	1.13
100+	0.43518	0.34116	0.39008	0.56482	0.65884	0.60992	0.47	0.48	0.48
Rural residence									
0	0.01541	0.01762	0.01316	0.98459	0.98238	0.98684	71.36	67.91	75.82
1	0.00173	0.00152	0.00194	0.99827	0.99848	0.99806	71.47	68.12	75.82
2	0.00079	0.00093	0.00064	0.99921	0.99907	0.99936	70.59	67.23	74.97
3	0.00057	0.00061	0.00054	0.99943	0.99939	0.99946	69.65	66.29	74.02
4	0.00084	0.00073	0.00097	0.99916	0.99927	0.99903	68.69	65.33	73.06
5	0.00043	0.00052	0.00033	0.99957	0.99948	0.99967	67.75	64.38	72.13
6	0.00021	0.00026	0.00017	0.99979	0.99974	0.99983	66.78	63.41	71.15

7	0.00023	0.00029	0.00016	0.99977	0.99971	0.99984	65.79	62.43	70.16
8	0.00033	0.00046	0.00019	0.99967	0.99954	0.99981	64.80	61.44	69.18
9	0.00035	0.00048	0.00023	0.99965	0.99952	0.99977	63.83	60.47	68.19
10	0.00029	0.00032	0.00026	0.99971	0.99968	0.99974	62.85	59.50	67.20
11	0.00038	0.00042	0.00033	0.99962	0.99958	0.99967	61.87	58.52	66.22
12	0.00043	0.00036	0.00051	0.99957	0.99964	0.99949	60.89	57.54	65.24
13	0.00044	0.00056	0.00030	0.99956	0.99944	0.99970	59.92	56.57	64.28
14	0.00039	0.00045	0.00033	0.99961	0.99955	0.99967	58.94	55.60	63.29
15	0.00049	0.00065	0.00033	0.99951	0.99935	0.99967	57.96	54.62	62.32
16	0.00029	0.00042	0.00015	0.99971	0.99958	0.99985	56.99	53.66	61.34
17	0.00059	0.00084	0.00032	0.99941	0.99916	0.99968	56.01	52.68	60.35
18	0.00051	0.00059	0.00043	0.99949	0.99941	0.99957	55.04	51.72	59.36
19	0.00079	0.00117	0.00036	0.99921	0.99883	0.99964	54.07	50.75	58.39
20	0.00120	0.00161	0.00075	0.99880	0.99839	0.99925	53.11	49.81	57.41
21	0.00099	0.00118	0.00077	0.99901	0.99882	0.99923	52.18	48.89	56.45
22	0.00095	0.00117	0.00068	0.99905	0.99883	0.99932	51.23	47.95	55.50
23	0.00097	0.00129	0.00059	0.99903	0.99871	0.99941	50.27	47.00	54.53
24	0.00088	0.00111	0.00061	0.99912	0.99889	0.99939	49.32	46.06	53.57
25	0.00117	0.00174	0.00052	0.99883	0.99826	0.99948	48.37	45.11	52.60
26	0.00116	0.00147	0.00082	0.99884	0.99853	0.99918	47.42	44.19	51.62
27	0.00080	0.00107	0.00050	0.99920	0.99893	0.99950	46.48	43.26	50.67
28	0.00096	0.00110	0.00080	0.99904	0.99890	0.99920	45.51	42.30	49.69
29	0.00132	0.00201	0.00057	0.99868	0.99799	0.99943	44.56	41.35	48.73
30	0.00119	0.00177	0.00054	0.99881	0.99823	0.99946	43.62	40.43	47.76
31	0.00110	0.00155	0.00060	0.99890	0.99845	0.99940	42.67	39.50	46.78
32	0.00136	0.00182	0.00083	0.99864	0.99818	0.99917	41.71	38.56	45.81
33	0.00149	0.00204	0.00084	0.99851	0.99796	0.99916	40.77	37.63	44.85
34	0.00168	0.00210	0.00119	0.99832	0.99790	0.99881	39.83	36.71	43.89
35	0.00163	0.00248	0.00065	0.99837	0.99752	0.99935	38.89	35.78	42.94
36	0.00192	0.00258	0.00116	0.99808	0.99742	0.99884	37.96	34.87	41.97
37	0.00231	0.00301	0.00150	0.99769	0.99699	0.99850	37.03	33.96	41.01
38	0.00278	0.00357	0.00187	0.99722	0.99643	0.99813	36.11	33.06	40.07
39	0.00247	0.00328	0.00153	0.99753	0.99672	0.99847	35.21	32.18	39.15
40	0.00266	0.00363	0.00152	0.99734	0.99637	0.99848	34.30	31.28	38.21
41	0.00378	0.00510	0.00224	0.99622	0.99490	0.99776	33.39	30.39	37.27
42	0.00375	0.00523	0.00201	0.99625	0.99477	0.99799	32.51	29.55	36.35
43	0.00415	0.00592	0.00207	0.99585	0.99408	0.99793	31.63	28.70	35.42
44	0.00474	0.00630	0.00291	0.99526	0.99370	0.99709	30.76	27.87	34.49
45	0.00479	0.00671	0.00259	0.99521	0.99329	0.99741	29.91	27.04	33.59
46	0.00564	0.00809	0.00286	0.99436	0.99191	0.99714	29.05	26.22	32.68
47	0.00587	0.00842	0.00302	0.99413	0.99158	0.99698	28.21	25.43	31.77
48	0.00692	0.00960	0.00394	0.99308	0.99040	0.99606	27.38	24.64	30.86
49	0.00712	0.01021	0.00368	0.99288	0.98979	0.99632	26.56	23.88	29.98
50	0.00756	0.01091	0.00392	0.99244	0.98909	0.99608	25.75	23.12	29.09
51	0.00889	0.01329	0.00430	0.99111	0.98671	0.99570	24.94	22.37	28.21
52	0.00914	0.01338	0.00480	0.99086	0.98662	0.99520	24.16	21.66	27.33
53	0.01087	0.01597	0.00568	0.98913	0.98403	0.99432	23.38	20.95	26.46
54	0.01072	0.01590	0.00550	0.98928	0.98410	0.99450	22.63	20.28	25.60
55	0.01080	0.01578	0.00588	0.98920	0.98422	0.99412	21.87	19.60	24.74
56	0.01246	0.01878	0.00632	0.98754	0.98122	0.99368	21.10	18.91	23.89
57	0.01324	0.01978	0.00710	0.98676	0.98022	0.99290	20.36	18.26	23.03
58	0.01385	0.02130	0.00717	0.98615	0.97870	0.99283	19.63	17.62	22.20
59	0.01431	0.02152	0.00808	0.98569	0.97848	0.99192	18.90	16.99	21.35
60	0.01588	0.02367	0.00921	0.98412	0.97633	0.99079	18.17	16.35	20.52
61	0.01673	0.02477	0.00986	0.98327	0.97523	0.99014	17.45	15.73	19.71
62	0.01821	0.02720	0.01056	0.98179	0.97280	0.98944	16.74	15.12	18.90

63	0.01825	0.02633	0.01146	0.98175	0.97367	0.98854	16.04	14.53	18.10
64	0.02084	0.02981	0.01330	0.97916	0.97019	0.98670	15.33	13.91	17.30
65	0.02262	0.03189	0.01478	0.97738	0.96811	0.98522	14.64	13.32	16.53
66	0.02358	0.03236	0.01612	0.97642	0.96764	0.98388	13.97	12.74	15.77
67	0.02697	0.03707	0.01840	0.97303	0.96293	0.98160	13.30	12.15	15.02
68	0.02953	0.03960	0.02100	0.97047	0.96040	0.97900	12.65	11.60	14.29
69	0.03237	0.04385	0.02267	0.96763	0.95615	0.97733	12.02	11.06	13.58
70	0.03519	0.04471	0.02719	0.96481	0.95529	0.97281	11.41	10.54	12.89
71	0.03614	0.04663	0.02739	0.96386	0.95337	0.97261	10.80	10.01	12.23
72	0.04085	0.05332	0.03061	0.95915	0.94668	0.96939	10.19	9.48	11.56
73	0.04512	0.05553	0.03685	0.95488	0.94447	0.96315	9.60	8.98	10.91
74	0.05114	0.06234	0.04246	0.94886	0.93766	0.95754	9.03	8.48	10.31
75	0.05683	0.06863	0.04797	0.94317	0.93137	0.95203	8.49	8.01	9.74
76	0.06351	0.07630	0.05421	0.93649	0.92370	0.94579	7.97	7.57	9.21
77	0.07053	0.08767	0.05817	0.92947	0.91233	0.94183	7.48	7.15	8.71
78	0.07684	0.08787	0.06912	0.92316	0.91213	0.93088	7.01	6.79	8.22
79	0.08513	0.09519	0.07826	0.91487	0.90481	0.92174	6.55	6.40	7.79
80	0.09532	0.10623	0.07852	0.90468	0.89377	0.92148	6.11	6.02	7.41
81	0.10807	0.12063	0.08358	0.89193	0.87937	0.91642	5.71	5.67	7.00
82	0.11813	0.13307	0.09116	0.88187	0.86693	0.90884	5.34	5.38	6.59
83	0.12615	0.13607	0.09929	0.87385	0.86393	0.90071	4.99	5.13	6.20
84	0.13731	0.13835	0.10802	0.86269	0.86165	0.89198	4.63	4.86	5.83
85	0.15136	0.14941	0.11736	0.84864	0.85059	0.88264	4.29	4.56	5.47
86	0.16674	0.16130	0.12737	0.83326	0.83870	0.87263	3.97	4.28	5.13
87	0.18356	0.17405	0.13807	0.81644	0.82595	0.86193	3.66	4.01	4.81
88	0.20192	0.18772	0.14951	0.79808	0.81228	0.85049	3.38	3.75	4.50
89	0.22189	0.20235	0.16172	0.77811	0.79765	0.83828	3.11	3.50	4.21
90	0.24357	0.21798	0.17474	0.75643	0.78202	0.82526	2.86	3.27	3.92
91	0.26703	0.23465	0.18860	0.73297	0.76535	0.81140	2.62	3.04	3.65
92	0.29232	0.25240	0.20335	0.70768	0.74760	0.79665	2.40	2.82	3.39
93	0.31949	0.27126	0.21901	0.68051	0.72874	0.78099	2.19	2.61	3.13
94	0.34855	0.29126	0.23561	0.65145	0.70874	0.76439	1.99	2.41	2.87
95	0.37949	0.31241	0.25318	0.62051	0.68759	0.74682	1.80	2.20	2.60
96	0.41225	0.33473	0.27175	0.58775	0.66527	0.72825	1.62	1.99	2.32
97	0.44673	0.35821	0.29133	0.55327	0.64179	0.70867	1.43	1.75	2.01
98	0.48280	0.38284	0.31193	0.51720	0.61716	0.68807	1.22	1.46	1.64
99	0.52024	0.40859	0.33355	0.47976	0.59141	0.66645	0.93	1.07	1.16
100+	0.55879	0.43540	0.35619	0.44121	0.56460	0.64381	0.45	0.47	0.48