

Number of Future Centenarians

December 2010

Methodology

To identify the projected number of people alive today who are likely to live to be 100 we have undertaken the following:

- Using the Office for National Statistics's (ONS) 2008-based Mid-Year Population Projections (UK)¹, we calculated the population by age (single year age bands) in 2010.
- We also used the cohort life expectancy² of individual age years to calculate the probability that someone aged x in 2010 will live to the age of 100.
- These probabilities were multiplied by the population for each individual age band.
- Population projections are also provided for those aged over 100 and those aged over 110 every five years, including 2066 which is the first year the centenarian population is projected to rise above half a million.

Population Projections

- Population projections are not forecasts and do not attempt to predict the impact that future government policies, changing economic circumstances or other factors (whether in the UK or overseas) might have on demographic behaviour. They simply provide the population levels and age structure that would result if the underlying assumptions about future fertility, mortality and migration were to be realised.
- Projections are uncertain and become increasingly so the further they are carried forward.

¹ ONS Population Projections : <http://www.statistics.gov.uk/StatBase/Product.asp?vlnk=8519>

² ONS Life Expectancy Tables: <http://www.statistics.gov.uk/StatBase/Product.asp?vlnk=15098>

Results

Table 1 shows the likelihood of persons of specific ages in 2010 living to be 100 and the corresponding number of people projected to live to be 100. For example, of the 350,000 ten year old boys alive in 2010, 77,000 (22.0%) are projected to live to be 100.

Table 2 shows the projected centenarian population by specific age groups up to 2080.

Note: All results are based on population projections (central projection) and are therefore subject to a degree of uncertainty. ONS revises these population estimates every two years.

Table 1: Number of people in the United Kingdom projected to live to age 100 by individual age bands

Age in 2010	Males			Females			Total Number to reach age 100 ('000s)
	Population in 2010 ('000s)	lx/l100 ³	Number to reach age 100 ('000s)	Population in 2010 ('000s)	lx/l100	Number to reach age 100 ('000s)	
Total aged under 100	30,607		4,441	31,604		6,315	10,756
0-15	5,926		1,359	5,649		1,720	3,080
16-50	15,025		2,272	14,884		3,197	5,469
51-65	5,444		512	5,654		818	1,329
66-99	4,211		299	5,416		579	878
0	398	25.3%	101	379	33.0%	125	226
1	401	25.1%	101	382	32.8%	125	226
2	404	24.8%	100	385	32.4%	125	225
3	388	24.4%	95	369	32.0%	118	213
4	375	24.1%	90	359	31.7%	114	204
5	368	23.7%	87	351	31.3%	110	197
6	362	23.4%	85	345	31.0%	107	192
7	350	23.1%	81	333	30.6%	102	183
8	339	22.7%	77	325	30.2%	98	175
9	340	22.4%	76	326	29.9%	97	174
10	350	22.0%	77	332	29.5%	98	175
11	359	21.7%	78	343	29.1%	100	178
12	365	21.4%	78	350	28.8%	101	179
13	376	21.0%	79	358	28.4%	102	181
14	374	20.7%	77	355	28.1%	100	177
15	378	20.4%	77	357	27.7%	99	176
16	387	20.1%	78	367	27.3%	100	178
17	396	19.7%	78	376	27.0%	101	180
18	415	19.4%	81	394	26.6%	105	185

³ lx/l100 : The proportion of people aged x who will live to age 100

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19	429	19.1%	82	404	26.3%	106	188
20	428	18.8%	81	406	25.9%	105	186
21	433	18.5%	80	415	25.6%	106	187
22	448	18.2%	81	428	25.2%	108	189
23	448	17.9%	80	427	24.9%	106	186
24	450	17.6%	79	438	24.5%	107	186
25	461	17.3%	80	440	24.2%	106	186
26	451	17.0%	77	426	23.9%	102	178
27	438	16.7%	73	411	23.5%	97	170
28	420	16.4%	69	409	23.2%	95	164
29	428	16.1%	69	415	22.8%	95	164
30	423	15.8%	67	412	22.5%	93	160
31	400	15.6%	62	395	22.2%	88	150
32	378	15.3%	58	378	21.9%	83	140
33	372	15.0%	56	371	21.5%	80	136
34	382	14.7%	56	381	21.2%	81	137
35	391	14.5%	57	391	20.9%	82	138
36	399	14.2%	57	401	20.6%	83	139
37	416	14.0%	58	422	20.2%	85	144
38	434	13.7%	60	446	19.9%	89	148
39	448	13.4%	60	457	19.6%	90	150
40	446	13.2%	59	452	19.3%	87	146
41	456	12.9%	59	465	19.0%	88	147
42	461	12.7%	58	466	18.7%	87	146
43	470	12.4%	59	475	18.4%	87	146
44	465	12.2%	57	477	18.1%	86	143
45	465	12.0%	56	479	17.8%	85	141
46	458	11.7%	54	474	17.5%	83	137
47	449	11.5%	52	467	17.2%	80	132
48	438	11.3%	49	454	16.9%	77	126
49	428	11.0%	47	442	16.7%	74	121
50	412	10.8%	45	424	16.4%	70	114
51	404	10.6%	43	414	16.1%	67	110
52	398	10.4%	41	407	15.9%	65	106
53	382	10.2%	39	392	15.6%	61	100
54	367	10.0%	37	377	15.4%	58	95
55	357	9.9%	35	367	15.1%	55	91
56	357	9.7%	35	367	14.9%	55	89
57	350	9.5%	33	360	14.6%	53	86
58	345	9.3%	32	357	14.4%	52	84
59	345	9.2%	32	359	14.2%	51	83
60	352	9.0%	32	370	13.9%	52	83
61	362	8.8%	32	379	13.7%	52	84
62	385	8.7%	33	405	13.5%	55	88
63	403	8.5%	34	423	13.3%	56	90
64	324	8.4%	27	343	13.1%	45	72
65	313	8.3%	26	333	12.9%	43	69
66	304	8.1%	25	324	12.7%	41	66
67	289	8.0%	23	312	12.5%	39	62
68	259	7.9%	20	281	12.4%	35	55
69	240	7.8%	19	262	12.2%	32	51
70	246	7.7%	19	272	12.0%	33	52
71	242	7.6%	18	270	11.8%	32	50
72	235	7.4%	17	264	11.6%	31	48

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73	224	7.3%	16	256	11.2%	29	45
74	213	7.0%	15	247	10.9%	27	42
75	201	6.8%	14	236	10.4%	25	38
76	186	6.5%	12	225	10.0%	22	35
77	177	6.3%	11	220	9.5%	21	32
78	170	6.0%	10	216	9.1%	20	30
79	160	5.8%	9	211	8.7%	18	28
80	147	5.6%	8	201	8.3%	17	25
81	133	5.4%	7	188	8.1%	15	22
82	119	5.4%	6	174	7.9%	14	20
83	110	5.4%	6	166	7.9%	13	19
84	98	5.5%	5	156	7.9%	12	18
85	86	5.6%	5	143	8.0%	11	16
86	74	5.8%	4	131	8.2%	11	15
87	64	6.1%	4	120	8.4%	10	14
88	56	6.5%	4	112	8.7%	10	13
89	49	6.9%	3	104	9.2%	10	13
90	39	7.5%	3	86	9.8%	8	11
91	27	8.4%	2	60	10.7%	6	9
92	18	9.6%	2	44	12.0%	5	7
93	14	11.4%	2	36	13.9%	5	7
94	11	13.9%	1	30	16.6%	5	6
95	8	17.6%	1	24	20.7%	5	6
96	5	23.3%	1	18	26.7%	5	6
97	4	31.9%	1	13	35.5%	5	6
98	2	45.2%	1	9	48.7%	4	5
99	1	66.2%	1	6	68.8%	4	5

Source: Office for National Statistics, 2008-based Population Projections (UK)

Table 2: Number of centenarians in the United Kingdom

Year	100+	110+
1980	2,300	-
1985	3,400	-
1990	4,400	-
1995	5,700	-
2000	6,800	-
2005	8,900	-
2010	11,800	-
2015	15,000	-
2020	21,900	-
2025	37,600	-
2030	58,800	100
2035	97,300	100
2040	148,900	400
2045	202,100	1,000
2050	276,600	2,100
2055	306,200	3,500
2060	378,200	5,600
2065	487,400	7,200
2066	507,000	7,700
2070	563,500	10,700
2075	587,000	16,200
2080	626,900	21,000

Numbers rounded to nearest 100. Population estimates have been used prior to 2009, and 2008-based population projections from 2010

Source: Office for National Statistics, 2008-based Population Projections (UK)

Estimates of the very elderly:

www.statistics.gov.uk/statbase/Product.asp?vlnk=15003

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