Population of an imaginary country with decreasing growth rate

Information about this file

Total population and its absolute change of an imaginary country, at an initial 2% growth rate that decreases 0.1 percentage point per year, 1950-2160, (million people)

Total population and its absolute change of an imaginary country, at an initial 2% growth rate that decreases increasingly quickly with an acceleration rate of 0.01 percentage points, 1950-2130, (million people)

Total population and its absolute change of an imaginary country, at an initial 2% growth rate that decreases 0.1 percentage point per year, with a sudden decrease of 20 million people in 2010, 1950-2160, (million people)

Metadata

These reference tables contain statistics of the total population and its absolute change of an imaginary country. This country has an initial population at 100 million people. Its population growth rate decreases over time, but the rate of this decrease is different across the tables in this file. The absolute change of population in each year is calculated by divide the gap between the population of the year before and the year after. The graph beside each table shows the total population and the absolute change of the population over time. The x-axis is the absolute change while the y-axis is the total population. Each circle represents a certain year.

Readers can change the initial growth rate, constant decrease rate, initial decrease rate and acceleration rate, and see what happens to the graphs. Please see the notes in each table.

Contents

Total population and its absolute change of an imaginary country, at an initial 2% growth rate that decreases 0.1 percentage point per year, 1950-2160, (million people)

Source: An imaginary country. The data is created by starting with 100 million people and multiplying the figure by (1+growth rate) Initial growth rate: 2.0% Constant decrease: 0.1% Frequency: Yearly. End of period

Observation date	Absolute change (million)	Total population (million)	Label	Growth rate
1950 1951	2.0	100	1950	2.0%
1952	1.9	102		1.9%
1953	1.8	106		1.8%
1954 1955	1.8	108		1.7%
1956	1.6	111		1.5%
1957	1.5	113		1.4%
1959	1.3	115		1.2%
1960 1961	1.2	117	1960	1.1%
1962	1.0	119		0.9%
1963 1964	0.9	120		0.8%
1965	0.7	121		0.6%
1966	0.5	122		0.5%
1968	0.3	123		0.3%
1969	0.2	123	1070	0.2%
1971	-0.1	123	1970	0.0%
1972	-0.2	123		-0.1%
1974	-0.4	123		-0.2%
1975	-0.5	122		-0.4%
1976	-0.8	121		-0.5%
1978	-0.9	120		-0.7%
1979 1980	-1.0 -1.1	119 118	1980	-0.8% -0.9%
1981	-1.2	117		-1.0%
1982	-1.3 -1.4	115		-1.1% -1.2%
1984	-1.5	112		-1.3%
1985 1986	-1.6 -1.7	111 109	*1985*	-1.4% -1.5%
1987	-1.8	107		-1.6%
1988	-1.9	106		-1.7%
1989	-1.9	102	1990	-1.8%
1991	-2.1	100		-2.0%
1992 1993	-2.1	98 95		-2.1%
1994	-2.2	93		-2.3%
1995 1996	-2.3 -2.3	91 89		-2.4% -2.5%
1997	-2.3	86		-2.6%
1998 1999	-2.3 -2.4	84 82		-2.7% -2.8%
2000	-2.4	79	2000	-2.9%
2001	-2.4	77		-3.0%
2003	-2.4	72		-3.2%
2004	-2.4	70		-3.3%
2005	-2.4 -2.4	65	*2006*	-3.4%
2007	-2.3	63		-3.6%
2009	-2.3	58		-3.8%
2010	-2.3	56	2010	-3.9%
2011 2012	-2.2	54 51		-4.0% -4.1%
2013	-2.1	49		-4.2%
2014 2015	-2.1	47 45	2015	-4.3% -4.4%
2016	-2.0	43		-4.5%
2017 2018	-2.0	41 39		-4.6% -4.7%
2019	-1.9	37		-4.8%
2020	-1.8 -1.7	35 34	2020	-4.9% -5.0%
2022	-1.7	32		-5.1%
2023	-1.6 -1.6	30 29		-5.2% -5.3%
2025	-1.5	27		-5.4%
2026	-1.5 -1.4	26		-5.5% -5.6%
2028	-1.4	23		-5.7%
2029	-1.3	22	2030	-5.8%
2031	-1.2	19	2030	-6.0%
2032	-1.1 -1.1	18 17		-6.1% -6.2%
2034	-1.0	16		-6.3%
2035	-1.0	15		-6.4%
2037	-0.9	13		-6.6%
2038	-0.8	12		-6.7%
2039	-0.8	10	2040	-6.9%
2041	-0.7	10		-7.0%
2042 2043	-0.7	8		-7.1% -7.2%
2044	-0.6	8		-7.3%
2045	-0.6 -0.5	7		-7.4%
2047	-0.5	6		-7.6%
2048 2049	-0.5 -0.4	6 5		-7.7% -7.8%
2050	-0.4	5	2050	-7.9%
2051 2052	-0.4 -0.3	4		-8.0% -8.1%
2053	-0.3	4		-8.2%
2054	-0.3	3		-8.3%
2056	-0.3	3		-3.4 % -8.5%
2057	-0.2	3		-8.6%
2059	-0.2	2		-3.7 %
2060	-0.2	2		-8.9%
2061 2062	-u.∠ -0.2	2		-9.0% -9.1%
2063	-0.1	1		-9.2%
2064 2065	-u. i -0.1	1		-9.3% -9.4%
2066	-0.1	1		-9.5%



2067	0.1	1	0.6%
2007	-0.1	1	-9.0%
2000	-0.1	1	-5.7 /6
2069	-0.1		-9.8%
2070	-0.1	1	-9.9%
2071	-0.1		-10.0%
2072	-0.1	1	-10.1%
2073	-0.1	1	-10.2 %
2074	-0.1	0	-10.3%
2075	0.0	U	-10.4%
2076	0.0	U	-10.5%
2077	0.0	U	-10.6%
2078	0.0	0	-10.7%
2079	0.0	0	-10.8%
2080	0.0	U	-10.9%
2081	0.0	0	-11.0%
2082	0.0	0	-11.1%
2083	0.0	U	-11.2%
2084	0.0	U	-11.3%
2085	0.0	U	-11.4%
2086	0.0	U	-11.5%
2087	0.0	0	-11.6%
2088	0.0	U	-11.7%
2089	0.0	0	-11.8%
2090	0.0	U	-11.9%
2091	0.0	0	-12.0%
2092	0.0	0	-12.1%
2093	U.0	U	-12.2%
2094	0.0	U	-12.3%
2095	0.0	U	-12.4%
2096	0.0	U	-12.5%
2097	0.0	U	-12.6%
2096	0.0	U	-12.7%
2099	0.0	U	-12.8%
2100	0.0	U	-12.9%
2101	U.0	U	-13.0%
2102	0.0	0	-13.1%
2103	0.0	0	-13.2%
2104	0.0	0	-13.3%
2105	0.0	0	-13.4%
2106	0.0	0	-13.5%
2107	0.0	0	-13.6%
2108	0.0	0	-13.7%
2109	0.0	0	-13.8%
2110	0.0	0	-13.9%
2111	0.0	0	-14.0%
2112	0.0	0	-14.1%
2113	0.0	0	-14.2%
2114	0.0	0	-14.3%
2115	0.0	0	-14.4%
2116	0.0	0	-14.5%
2117	0.0	0	-14.6%
2118	0.0	0	-14.7%
2119	0.0	0	-14.8%
2120	0.0	0	-14.9%
2121	0.0	0	-15.0%
2122	0.0	0	-15.1%
2123	0.0	0	-15.2%
2124	0.0	U	-15.3%
2125	0.0	0	-15.4%
2126	0.0	0	-15.5%
2127	0.0	U	-15.6%
2120	0.0	U	-15.7%
2129	0.0	U	-15.8%
2130	0.0	U	-10.9%
2131	0.0	0	-16.0%
2132	0.0	0	-16.1%
2133	0.0	0	-10.2%
2134	0.0	0	-10.3%
2130	0.0	0	-10.4%
2130	0.0	0	-10.5%
2138	0.0	0	-10.0%
2139	0.0	0	-10.7%
2140	0.0	0	-16.0%
2141	0.0	0	-10.9%
2142	0.0	0	-17.0%
2143	0.0	0	-17 2%
2144	0.0	ő	-17.3%
2145	0.0	0	-17 4%
2146	0.0	ő	-17.5%
2147	0.0	0	-17.6%
2148	0.0	0	-17 7%
2149	0.0	ő	-17.8%
2150	0.0	0	_17 0%
2151	0.0	ő	-18.0%
2152	0.0	0	-10.0%
2153	0.0	ő	-10.170
2154	0.0	0	-10.270
2155	0.0	0	-10.3% _1R 2%
2156	0.0	0	-10.470
2157	0.0	0	-10.3%
2158	0.0	0	-10.0%
2159	0.0	0	-10.7 %
2160	0.0	0	-10.0%
2100	0.0	v	-10.3%

Contents

Total population and its absolute change of an imaginary country, at an initial 2% growth rate that decreases increasingly quickly with an acceleration rate of 0.01 percentage points, 1950-2130, (million people)

Source: An imaginary country. The data is created by starting with 100 million people and multplying the figure by (1+growth rate)

Initial growth rate:	2.0%
Initial decrease:	0.01%
Acceleration rate:	0.01%
Frequency: Yearly,	End of period

Observation data	Ab 1	T-t-1	Label	County and
Observation date	Absolute change (million)	100 I otal population (million)	1950	Growth rate
1950	2.0	102	1930	2.00%
1952	2.0	104		1.99%
1953	2.1	106		1.97%
1954	2.1	108		1.94%
1955	2.0	110		1.90%
1956	2.0	112		1.85%
1957	2.0	114		1.79%
1958	1.9	110		1.72%
1960	1.8	120	1960	1.55%
1961	1.7	122		1.45%
1962	1.6	123		1.34%
1963	1.4	125		1.22%
1964	1.3	126		1.09%
1965	1.1	127		0.95%
1900	0.9	128		0.80%
1968	0.5	129		0.04%
1969	0.3	130		0.29%
1970	0.0	130	1970	0.10%
1971	-0.3	130		-0.10%
1972	-0.5	130		-0.31%
1973	-0.8	129		-0.53%
1974	-1.1	128		-0.76%
1975	-1.4	127		-1.00%
1976	-1./	125		-1.25%
1978	-2.0	121		-1.78%
1979	-2.6	119	1980	-2.06%
1980	-2.9	116		-2.35%
1981	-3.2	113		-2.65%
1982	-3.5	109		-2.96%
1983	-3.7	106		-3.28%
1984	-3.9	102		-3.61%
1985	-4.1	98	*1985*	-3.95%
1986	-4.3	94		-4.30%
1987	-4.4	85		-4.00%
1989	-4.5	80		-5.03%
1990	-4.7	76	1990	-5.80%
1991	-4.7	71		-6.20%
1992	-4.7	66		-6.61%
1993	-4.6	62		-7.03%
1994	-4.6	57		-7.46%
1995	-4.4	53		-7.90%
1996	-4.3	48		-8.35%
1997	-4.2	44		-0.01%
1999	-3.8	36		-9.76%
2000	-3.6	32	2000	-10.25%
2001	-3.4	29		-10.75%
2002	-3.1	26		-11.26%
2003	-2.9	23		-11.78%
2004	-2.7	20		-12.31%
2005	-2.4	17		-12.85%
2005	-2.2	15	-2006*	-13.40%
2007	-1.8	11		-14 53%
2009	-1.6	9		-15.11%
2010	-1.4	8	2010	-15.70%
2011	-1.2	7		-16.30%
2012	-1.0	5		-16.91%
2013	-0.9	5		-17.53%
2014	-0.8	4		-18.16%
2015	-0.6	3	2015	-18.80%
2010	-0.5	2		-19.45%
2018	-0.4	2		-20.78%
2019	-0.3	1		-21.46%
2020	-0.2	1	2020	-22.15%
2021	-0.2	1		-22.85%
2022	-0.2	1		-23.56%
2023	-0.1	0		-24.28%
2024	-0.1	0		-25.01%
2025	-0.1	0		-25./5%
2020	0.0	0		-20.00%
2028	0.0	0		-28.03%
2029	0.0	0		-28.81%
2030	0.0	0	2030	



Contents

Total population and its absolute change of an imaginary country, at an initial 2% growth rate that decreases 0.1 percentage point per year, with a sudden decrease of 20 million people in 2010, 1950-2160, (million people)

Source: An imaginary country. The data is created by starting with 100 million people and multplying the figure by (1+growth rate)

Initial growth rate:	2.0%
Constant decrease:	0.1%
Sudden decrease year	2010
Decrease (million)	20

Frequency: Yearly, E	nd of period
Observation date	Absolute chang
1950	2.0

Observation date	Absolute change (million)	Total population (million) La	abel (Growth rate	Sudden decrease (million)	
1950 1951	2.0 2.0	100 19 102	950	2.0%))	Devilation of an impairment of 050, 2400
1952	1.9	104	1	1.9%	0	140 (initially rising but thereafter decelerating, a sudden decrease in 2010)
1953 1954	1.8 1.8	106	1	1.8% (1.7% ()	···· (································
1955	1.7	109	1	1.6%	5	1970
1956 1957	1.6 1.5	111 113	1	1.5% (1.4% ())	A DECEMBER OF A
1958	1.4	114	1	1.3%	5	120 1980 1960
1959 1960	1.3 1.2	115 117 19	1 960 1	1.2% (1.1% ())	*1985* 🖉
1961	1.1	118	1	1.0%	5	A B
1962 1963	1.0	119	0).9% ().8% (נ ז	100 ¹⁹⁹⁰ 8 - 8
1964	0.8	121	c	0.7% (5	g 1950
1965 1966	0.7	121	0).6% ().5% () 1	2 X
1967	0.4	122	c	0.4%	5	ê8
1968 1969	0.3 0.2	123 123	0).3% ().2% ())	<u><u> </u></u>
1970	0.1	123 19	970 0	0.1%	0	Ę <u> </u>
1971	-0.1 -0.2	123 123	-	0.0% (0.1% ())	2006* X
1973	-0.3	123	-	0.2%	5	
1974	-0.4 -0.5	122 122		0.3% ())	population of 20 million people in 2010. It could
1976	-0.7	121	-	0.5%)	be that in 2010 there is a great tamine and an extra 20 million died in this year when
1977	-0.8 -0.9	121 120		0.6% ()	40 2010
1979	-1.0	119 19	980 -	0.8%	0	
1980	-1.1 -1.2	118		0.9% (1.0% ()	2015
1982	-1.3	115	-	1.1%	5	2020
1983 1984	-1.4 -1.5	114 112		1.2% (1.3% ())	20
1985	-1.6	111 *1	985* -	1.4%	5	2030
1986	-1.7 -1.8	109 107		1.5% (1.6% ())	Absolute change: from the year before 2040
1988	-1.9	106	-	1.7%	0	0 to year after, per year (millions)
1989	-1.9 -2.0	104 102 19	- 990 -	-1.8% (-1.9% ()	-16.0 -14.0 -12.0 -10.0 -8.0 -6.0 -4.0 -2.0 0.0 2.0 4.0
1991	-2.1	100	-	2.0%	5	
1992 1993	-2.1 -2.2	98 95		2.1% (2.2% ())	
1994	-2.2	93	-	2.3%)	
1995	-2.3 -2.3	91 89		2.4% (2.5% ())	
1997	-2.3	86	-	2.6%	0	
1998 1999	-2.3 -2.4	84 82		2.7% (2.8% ())	
2000	-2.4	79 20	000 -	2.9%	5	
2001	-2.4 -2.4	77 75	-	3.0% (3.1% ())	
2003	-2.4	72	-	3.2%	5	
2004	-2.4 -2.4	70 67		3.3% (3.4% ())	
2006	-2.4	65 *2	006* -	3.5%	2	
2007	-2.3 -2.3	63 60		3.6% (3.7% ()	
2009	-12.3	58	-	3.8%	5	
2010	-11.9 -1.4	36 20 34	010 -	3.9% : 4.0% (20	
2012	-1.4	33	-	4.1%	5	
2013	-1.4 -1.3	32 30		4.2% (4.3% ())	
2015	-1.3	29 20	015 -	4.4%	2	
2016	-1.3 -1.3	28 26		4.5% (4.6% ())	
2018	-1.2	25	-	4.7%	5	
2019	-1.2 -1.2	24 23 20	- 20 -	4.8% (4.9% ())	
2021	-1.1	22	-	5.0%	5	
2022	-1.1 -1.0	21 19		5.1% (5.2% ())	
2024	-1.0	18	-	5.3%	2	
2025	-1.0 -0.9	17		5.4% (5.5% ())	
2027	-0.9	16	-	5.6%	5	
2028	-0.9 -0.8	15 14		5.7% (5.8% ())	
2030	-0.8	13 20	030 -	5.9%)	
2031	-0.8 -0.7	12		6.0% (6.1% ()	
2033	-0.7	11	-	6.2%	0	
2034	-0.7	9		6.4% (2	
2036	-0.6	9	-	6.5%	2	
2038	-0.5	8		6.7% (,)	
2039	-0.5	7	-	6.8% (2	
2041	-0.5	, 20 6		7.0%	5	
2042	-0.4	6	-	7.1% (2	
2044	-0.4	- 5	-	7.3%	- D	
2045	-0.4 _0.3	5	-	7.4%	2	
2046	-0.3	4	-	7.6%	2	
2048	-0.3	4	-	7.7% ()	
2050	-0.3	3 20)50 -	7.9% (5	
2051	-0.2	3	-	8.0%	2	
2053	-0.2	- 2	-	8.2%	- D	
2054	-0.2 .0.2	2	-	8.3% (2	
2056	-0.2	2	-	8.5%	5	
2057	-0.2 _0.1	2	-	8.6%	2	
2059	-0.1	1	-	8.8% (,)	
2060	-0.1 -0.1	1	-	8.9%	2	
2062	-0.1	1	-	9.1% (5	
2063	-0.1	1	-	9.2%	2	
2065	-0.1	1	-	9.4%	5	
2066	-0.1 -0.1	1	-	9.5%	2	
2068	-0.1	1	-	9.7%	5	
2069	-0.1	1	-	9.8%	2 1	
2071	0.0	- 0	-	10.0%	- D	
2072	0.0	0	-	10.1%	2	
2074	0.0	0		10.3%	,)	
2075	0.0	0	-	10.4% (0	

2076	0.0	0	-10.5% 0
2077	0.0	0	-10.6% 0
2078	0.0	0	-10.7% 0
2079	0.0	0	-10.8% 0
2080	0.0	0	-10.9% 0
2081	0.0	0	-11.0% 0
2082	0.0	0	-11.1% 0
2083	0.0	0	-11.2% 0
2084	0.0	0	-11.3% 0
2085	0.0	-	-11.4% 0
2000	0.0	0	11.5% 0
2000	0.0	0	11.0% 0
2007	0.0	0	-11.0% 0
2000	0.0	0	-11.7% 0
2069	0.0	0	-11.0% 0
2090	0.0	0	-11.9% 0
2091	0.0	0	-12.0% 0
2092	0.0	0	-12.1% 0
2093	0.0	0	-12.2% 0
2094	0.0	0	-12.3% 0
2095	0.0	0	-12.4% 0
2096	0.0	0	-12.5% 0
2097	0.0	0	-12.6% 0
2098	0.0	0	-12.7% 0
2099	0.0	0	-12.8% 0
2100	0.0	0	-12.9% 0
2101	0.0	-	-13.0% 0
2102	0.0	ŏ	-13.1% 0
2102	0.0	0	12.200
2103	0.0	0	-13.2% U
2104	0.0	0	-13.3% U
2105	0.0	U	-13.4% U
2106	0.0	U	-13.5% 0
2107	0.0	0	-13.6% 0
2108	0.0	0	-13.7% 0
2109	0.0	0	-13.8% 0
2110	0.0	0	-13.9% 0
2111	0.0	0	-14.0% 0
2112	0.0	0	-14.1% 0
2113	0.0	0	-14.2% 0
2114	0.0	0	-14.3% 0
2115	0.0	0	-14.4% 0
2116	0.0	0	-14.5% 0
2117	0.0	0	-14.6% 0
2118	0.0	0	-14.7% 0
2119	0.0	0	-14.8% 0
2120	0.0	-	-14.9% 0
2120	0.0	0	15.0% 0
2121	0.0	0	-15.0% 0
2122	0.0	0	-15.1% 0
2123	0.0	0	-10.2% 0
2124	0.0	0	-13.3% 0
2120	0.0	0	-13.4%
2126	0.0	0	-15.5% U
2127	0.0	U	-15.6% U
2128	0.0	U	-15.7% U
2129	0.0	U	-15.8% 0
2130	0.0	0	-15.9% 0
2131	0.0	0	-16.0% 0
2132	0.0	0	-16.1% 0
2133	0.0	0	-16.2% 0
2134	0.0	0	-16.3% 0
2135	0.0	0	-16.4% 0
2136	0.0	0	-16.5% 0
2137	0.0	0	-16.6% 0
2138	0.0	0	-16.7% 0
2139	0.0	0	-16.8% 0
2140	0.0	0	-16.9% 0
2141	0.0	0	-17.0% 0
2142	0.0	0	-17.1% 0
2143	0.0	0	-17.2% 0
2144	0.0	0	-17.3% 0
2145	0.0	0	-17.4% 0
2146	0.0	0	-17.5% 0
2147	0.0	ō	-17.6% 0
2148	0.0	-	-17.7% 0
2149	0.0	ő	-17.8% 0
2150	0.0	ő	-17.9% 0
2151	0.0	ő	-18.0% 0
2152	0.0	0	-18.1% 0
2152	0.0	0	19.2% 0
2100	0.0	0	-10.2% U
2155	0.0	0	19.4% 0
2100	0.0	0	-10.4% U 19.5% 0
2100	0.0	0	-10.3% U
215/	0.0	U	-18.5% 0
0150			
2158	0.0	0	-10.7% 0
2158 2159	0.0	0	-18.8% 0
2158 2159 2160	0.0 0.0 0.0	0	-18.8% 0 -18.9% 0