World Population Growth from 1900 to present Compounded growth rate $=1.014$ (1.4\% a year) Beginning popuation in $1900=1.5$ billion people (Wikipedia)

Averages for purposes of illustration only. Growth
was a bit less rapid than the average shown up
through 1950, and a bit more rapid after that. (Due
to people living longer)

| to people living longer) |  | immigration. (due to people having fewer children) |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
| Year | Population | Year | Population |
|  |  |  |  |
| year 1900 | 1,500,000,000 | year 1900 | 76,212,168 |
| year 1901 | 1,521,000,000 | year 1901 | 77,180,063 |
| year 1902 | 1,542,294,000 | year 1902 | 78,160,249 |
| year 1903 | 1,563,886,116 | year 1903 | 79,152,884 |
| year 1904 | 1,585,780,522 | year 1904 | 80,158,126 |
| year 1905 | 1,607,981,449 | year 1905 | 81,176,134 |
| year 1906 | 1,630,493,189 | year 1906 | 82,207,071 |
| year 1907 | 1,653,320,094 | year 1907 | 83,251,101 |
| year 1908 | 1,676,466,575 | year 1908 | 84,308,390 |
| year 1909 | 1,699,937,107 | year 1909 | 85,379,107 |
| year 1910 | 1,723,736,227 | year 1910 | 86,463,421 |
| year 1911 | 1,747,868,534 | year 1911 | 87,561,507 |
| year 1912 | 1,772,338,693 | year 1912 | 88,673,538 |
| year 1913 | 1,797,151,435 | year 1913 | 89,799,692 |
| year 1914 | 1,822,311,555 | year 1914 | 90,940,148 |
| year 1915 | 1,847,823,917 | year 1915 | 92,095,088 |
| year 1916 | 1,873,693,452 | year 1916 | 93,264,695 |
| year 1917 | 1,899,925,160 | year 1917 | 94,449,157 |
| year 1918 | 1,926,524,112 | year 1918 | 95,648,661 |
| year 1919 | 1,953,495,450 | year 1919 | 96,863,399 |
| year 1920 | 1,980,844,386 | year 1920 | 98,093,564 |
| year 1921 | 2,008,576,208 | year 1921 | 99,339,353 |
| year 1922 | 2,036,696,275 | year 1922 | 100,600,962 |
| year 1923 | 2,065,210,022 | year 1923 | 101,878,595 |
| year 1924 | 2,094,122,963 | year 1924 | 103,172,453 |
| year 1925 | 2,123,440,684 | year 1925 | 104,482,743 |
| year 1926 | 2,153,168,854 | year 1926 | 105,809,674 |
| year 1927 | 2,183,313,218 | year 1927 | 107,153,457 |
| year 1928 | 2,213,879,603 | year 1928 | 108,514,306 |
| year 1929 | 2,244,873,917 | year 1929 | 109,892,437 |
| year 1930 | 2,276,302,152 | year 1930 | 111,288,071 |
| year 1931 | 2,308,170,382 | year 1931 | 112,701,430 |
| year 1932 | 2,340,484,768 | year 1932 | 114,132,738 |
| year 1933 | 2,373,251,554 | year 1933 | 115,582,224 |
| year 1934 | 2,406,477,076 | year 1934 | 117,050,118 |
| year 1935 | 2,440,167,755 | year 1935 | 118,536,654 |
| year 1936 | 2,474,330,104 | year 1936 | 120,042,070 |
| year 1937 | 2,508,970,725 | year 1937 | 121,566,604 |
| year 1938 | 2,544,096,315 | year 1938 | 123,110,500 |

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|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
| Year | Population | Year | Population |
|  |  |  |  |
| year 1939 | 2,579,713,664 | year 1939 | 124,674,003 |
| year 1940 | 2,615,829,655 | year 1940 | 126,257,363 |
| year 1941 | 2,652,451,270 | year 1941 | 127,860,832 |
| year 1942 | 2,689,585,588 | year 1942 | 129,484,664 |
| year 1943 | 2,727,239,786 | year 1943 | 131,129,120 |
| year 1944 | 2,765,421,143 | year 1944 | 132,794,459 |
| year 1945 | 2,804,137,039 | year 1945 | 134,480,949 |
| year 1946 | 2,843,394,958 | year 1946 | 136,188,857 |
| year 1947 | 2,883,202,487 | year 1947 | 137,918,456 |
| year 1948 | 2,923,567,322 | year 1948 | 139,670,020 |
| year 1949 | 2,964,497,264 | year 1949 | 141,443,829 |
| year 1950 | 3,006,000,226 | year 1950 | 143,240,166 |
| year 1951 | 3,048,084,229 | year 1951 | 145,059,316 |
| year 1952 | 3,090,757,409 | year 1952 | 146,901,569 |
| year 1953 | 3,134,028,012 | year 1953 | 148,767,219 |
| year 1954 | 3,177,904,404 | year 1954 | 150,656,563 |
| year 1955 | 3,222,395,066 | year 1955 | 152,569,901 |
| year 1956 | 3,267,508,597 | year 1956 | 154,507,539 |
| year 1957 | 3,313,253,717 | year 1957 | 156,469,785 |
| year 1958 | 3,359,639,269 | year 1958 | 158,456,951 |
| year 1959 | 3,406,674,219 | year 1959 | 160,469,354 |
| year 1960 | 3,454,367,658 | year 1960 | 162,507,315 |
| year 1961 | 3,502,728,805 | year 1961 | 164,571,158 |
| year 1962 | 3,551,767,009 | year 1962 | 166,661,212 |
| year 1963 | 3,601,491,747 | year 1963 | 168,777,809 |
| year 1964 | 3,651,912,631 | year 1964 | 170,921,287 |
| year 1965 | 3,703,039,408 | year 1965 | 173,091,988 |
| year 1966 | 3,754,881,960 | year 1966 | 175,290,256 |
| year 1967 | 3,807,450,307 | year 1967 | 177,516,442 |
| year 1968 | 3,860,754,612 | year 1968 | 179,770,901 |
| year 1969 | 3,914,805,176 | year 1969 | 182,053,991 |
| year 1970 | 3,969,612,449 | year 1970 | 184,366,077 |
| year 1971 | 4,025,187,023 | year 1971 | 186,707,526 |
| year 1972 | 4,081,539,641 | year 1972 | 189,078,712 |
| year 1973 | 4,138,681,196 | year 1973 | 191,480,011 |
| year 1974 | 4,196,622,733 | year 1974 | 193,911,808 |
| year 1975 | 4,255,375,451 | year 1975 | 196,374,487 |
| year 1976 | 4,314,950,708 | year 1976 | 198,868,443 |
| year 1977 | 4,375,360,017 | year 1977 | 201,394,073 |

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|  |  | migration (due to people having fewer chidren) |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
| Year | Population | Year | Population |
|  |  |  |  |
| year 2017 | 7,630,130,990 | year 2017 | 333,640,746 |
| year 2018 | 7,736,952,824 | year 2018 | 337,877,984 |
| year 2019 | 7,845,270,163 | year 2019 | 342,169,034 |
| year 2020 | 7,955,103,945 | year 2020 | 346,514,581 |
| year 2021 | 8,066,475,401 | year 2021 | 350,915,316 |
| year 2022 | 8,179,406,056 | year 2022 | 355,371,940 |
| year 2023 | 8,293,917,741 | year 2023 | 359,885,164 |
| year 2024 | 8,410,032,589 | year 2024 | 364,455,706 |
| year 2025 | 8,527,773,046 | year 2025 | 369,084,293 |
| year 2026 | 8,647,161,868 | year 2026 | 373,771,664 |
| year 2027 | 8,768,222,135 | year 2027 | 378,518,564 |
| year 2028 | 8,890,977,244 | year 2028 | 383,325,749 |
| year 2029 | 9,015,450,926 | year 2029 | 388,193,987 |
| year 2030 | 9,141,667,239 | year 2030 | 393,124,050 |
| year 2031 | 9,269,650,580 | year 2031 | 398,116,726 |
| year 2032 | 9,399,425,688 | year 2032 | 403,172,808 |
| year 2033 | 9,531,017,648 | year 2033 | 408,293,103 |
| year 2034 | 9,664,451,895 | year 2034 | 413,478,425 |
| year 2035 | 9,799,754,221 | year 2035 | 418,729,601 |
| year 2036 | 9,936,950,781 | year 2036 | 424,047,467 |
| year 2037 | 10,076,068,092 | year 2037 | 429,432,870 |
| year 2038 | 10,217,133,045 | year 2038 | 434,886,667 |
| year 2039 | 10,360,172,907 | year 2039 | 440,409,728 |
| year 2040 | 10,505,215,328 | year 2040 | 446,002,931 |
| year 2041 | 10,652,288,343 | year 2041 | 451,667,169 |
| year 2042 | 10,801,420,380 | year 2042 | 457,403,342 |
| year 2043 | 10,952,640,265 | year 2043 | 463,212,364 |
| year 2044 | 11,105,977,229 | year 2044 | 469,095,161 |
| year 2045 | 11,261,460,910 | year 2045 | 475,052,670 |
| year 2046 | 11,419,121,362 | year 2046 | 481,085,839 |
| year 2047 | 11,578,989,062 | year 2047 | 487,195,629 |
| year 2048 | 11,741,094,908 | year 2048 | 493,383,013 |
| year 2049 | 11,905,470,237 | year 2049 | 499,648,978 |
| year 2050 | 12,072,146,820 | year 2050 | 505,994,520 |
|  |  |  |  |
| Note that in 1950 it had taken $\mathbf{3 0}$ years to add a billion people to the planet's population |  |  |  |
| Also note that by 2050 it only took 6 years to add a billion people to the planet's population |  |  |  |
|  |  |  |  |
| Does anyone seriously think growth like this can continue indefinately ? |  |  |  |



