

# Top 10 Longest and Shortest Lived Presidents

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To maintain data integrity, currently living presidents have been excluded in the following report. This report showcases the top 10 longest lived presidents, and the top 10 shortest lived presidents, measured in days. The 1800s has the highest concentration of shortest lived presidents and the 1700 and 1900s have the highest concentration of longest lived presidents. These findings are demonstrated in Figure 3.

## Top 10

Table 1: Table 1: Top 10 presidents from longest lived to shortest lived

president	birth_date	birth_place	death_date	location_of_death	year_of_birth	lived_years	lived_months	lived_days
George Bush	1924-06-12	Milton, Mass.	2018-11-30	Houston, Texas	1924	94	1133	34504
Gerald Ford	1913-07-14	Omaha, Nebraska	2006-12-26	Rancho Mirage, Cal.	1913	93	1121	34133
Ronald Reagan	1911-02-06	Tampico, Illinois	2004-06-05	Los Angeles, Cal.	1911	93	1119	34088
John Adams	1735-10-30	Quincy, Mass.	1826-07-04	Quincy, Mass.	1735	90	1088	33119
Herbert Hoover	1874-08-10	West Branch, Iowa	1964-10-20	New York, New York	1874	90	1082	32943
Harry S. Truman	1884-05-08	Lamar, Missouri	1972-12-26	Kansas City, Missouri	1884	88	1063	32373
James Madison	1751-03-16	Port Conway, Va.	1836-06-28	Orange Co., Va.	1751	85	1023	31150
Thomas Jefferson	1743-04-13	Albemarle Co., Va.	1826-07-04	Albemarle Co., Va.	1743	83	998	30397
Richard Nixon	1913-01-09	Yorba Linda, Cal.	1994-04-22	New York, New York	1913	81	975	29688
John Quincy Adams	1767-07-11	Quincy, Mass.	1848-02-23	Washington, D.C.	1767	80	967	29446

Table 2: Table 2: Top 10 presidents from shortest lived to longest lived

president	birth_date	birth_place	death_date	location_of_death	year_of_birth	lived_years	lived_months	lived_days
John F. Kennedy	1917-05-29	Brookline, Mass.	1963-11-22	Dallas, Texas	1917	46	557	16978
James A. Garfield	1831-11-19	Cuyahoga Co., Ohio	1881-09-19	Elberon, New Jersey	1831	49	598	18202
James K. Polk	1795-11-02	Mecklenburg Co., N.C.	1849-06-15	Nashville, Tennessee	1795	53	643	19583
Abraham Lincoln	1809-02-12	LaRue Co., Kentucky	1865-04-15	Washington, D.C.	1809	56	674	20516
Chester Arthur	1829-10-05	Fairfield, Vermont	1886-11-18	New York, New York	1829	57	685	20863
Warren G. Harding	1865-11-02	Morrow County, Ohio	1923-08-02	San Francisco, Cal.	1865	57	693	21091
William McKinley	1843-01-29	Niles, Ohio	1901-09-14	Buffalo, New York	1843	58	703	21412
Theodore Roosevelt	1858-10-27	New York, New York	1919-01-06	Oyster Bay, New York	1858	60	722	21985
Calvin Coolidge	1872-07-04	Plymouth, Vermont	1933-01-05	Northampton, Mass.	1872	60	726	22099
Franklin Roosevelt	1882-01-30	Hyde Park, New York	1945-04-12	Warm Springs, Ga.	1882	63	758	23082

## Analysis

The birth year was rounded down to reduce noise. Rounding down to the nearest 50 year interval struck the best balance between data point volume and visual clarity. At first glance, the left plot of Figure 3 might give the impression that shortest lived presidents are almost evenly distributed from 1750 to 1900. However, looking more closely we notice that both have a standard deviation of 0 because only a single entry exists. This is verified by the plot to the right.

Table 3: Table 3: The frequency, mean, median, max, min, standard deviation, mode, and weighted mean of the top 10 longest and shortest days lived

year_of_birth	label	frequency	mean	median	max	min	standard_deviation	mode	weighted_mean
1700	longest_lived	2	31758.00	31758.0	33119	30397	641.5816	NA	25670.50
1750	longest_lived	2	30298.00	30298.0	31150	29446	401.6367	NA	25273.12
1850	longest_lived	2	32658.00	32658.0	32943	32373	134.3503	NA	27361.12
1900	longest_lived	4	33103.25	34110.5	34504	29688	1318.9285	NA	25040.62
1750	shortest_lived	1	19583.00	19583.0	19583	19583	0.0000	NA	25670.50
1800	shortest_lived	4	20248.25	20689.5	21412	18202	815.8881	NA	25273.12
1850	shortest_lived	4	22064.25	22042.0	23082	21091	470.2858	NA	27361.12
1900	shortest_lived	1	16978.00	16978.0	16978	16978	0.0000	NA	25040.62

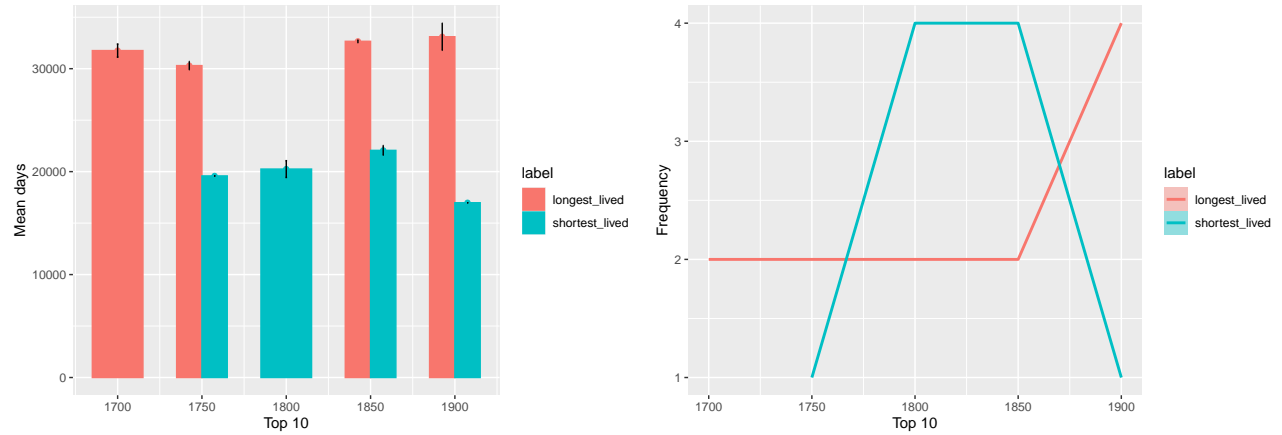


Figure 1: Figure 3: Top 10 longest and shortest lived presidents rounded down to the nearest 50 year interval. The concentration of longest lived days is highest during the 1701 and 1900's, whereas the concentration of shortest lived days is highest during the 1801's.

## Conclusion

We can clearly see that there is a correlation between presidents born in the 1800's and being listed in the top 10 shortest lived. 80% (8 out of 10) of presidents that are in the 10 top shortest lived were born during the 1800's. Also, 80% of presidents born in the 1700 and 1900s are listed in the top 10 longest lived.