

Toms_analysis_of_Fed_Discount_rates_and_stock_index_performance.xlsx

| | Discount | Discount | | S&P index | Jeff's | Nasdaq Index | Jeff's | | 3x QQQ | Jeff's | |
|------|------------|------------|-----------|-----------|----------|--------------|-----------|----------|-----------|----------|----------|
| Year | rate 01/01 | rate 12/31 | SPY start | SPY end | Pct Chg | ^IXIC start | ^IXIC end | Pct Chg | TQQQ star | TQQQ end | Pct chg |
| 2018 | 2.00% | | 2678.40 | | -100.00% | 6937.64 | | -100.00% | 46.97 | | -100.00% |
| 2017 | 1.25% | 2.00% | 2250.40 | 2668.60 | 18.58% | 5425.62 | 6903.39 | 27.24% | 64.80 | 140.90 | 117.44% |
| 2016 | 1.00% | 1.25% | 2004.90 | 2235.30 | 11.49% | 4897.64 | 5444.5 | 11.17% | 53.31 | 64.80 | 21.55% |
| 2015 | 0.75% | 1.00% | 2058.90 | 2043.94 | -0.73% | 4760.24 | 5007.41 | 5.19% | 49.42 | 53.31 | 7.87% |
| 2014 | 0.75% | 0.75% | 1845.86 | 2058.90 | 11.54% | 4160.02 | 4736.04 | 13.85% | 30.60 | 49.42 | 61.50% |
| 2013 | 0.75% | 0.75% | 1426.19 | 1848.36 | 29.60% | 3091.53 | 4176.58 | 35.10% | 13.87 | 30.60 | 120.62% |
| 2012 | 0.75% | 0.75% | 1258.86 | 1426.19 | 13.29% | 2657.38 | 3019.51 | 13.63% | 8.97 | 13.87 | 54.63% |
| 2011 | 0.75% | 0.75% | 1257.62 | 1257.60 | 0.00% | 2676.64 | 2605.14 | -2.67% | 9.48 | 8.97 | -5.38% |
| 2010 | 0.50% | 0.75% | 1116.56 | 1257.64 | 12.64% | 2294.40 | 2652.87 | 15.62% | 5.00 | 9.48 | 5.69% |
| 2009 | 0.50% | 0.50% | 902.99 | 1115.10 | 23.49% | 1578.87 | 2269.14 | 43.72% | | | |
| 2008 | 3.50% | 0.50% | 1467.97 | 903.25 | -38.47% | 2653.90 | 1577.03 | -40.58% | | | |
| 2007 | 6.25% | 3.50% | 1418.03 | 1468.36 | 3.55% | 2429.72 | 2652.28 | 9.16% | | | |
| 2006 | 5.50% | 6.25% | 1248.29 | 1418.30 | 13.62% | 2216.53 | 2415.29 | 8.97% | | | |
| 2005 | 3.25% | 5.50% | 1211.92 | 1248.29 | 3.00% | 2184.75 | 2205.32 | 0.94% | | | |
| 2004 | 2.00% | 3.25% | 1111.92 | 1211.92 | 8.99% | 2011.08 | 2175.43 | 8.17% | | | |
| 2003 | 2.25% | 2.00% | 879.82 | 1111.92 | 26.38% | 1346.93 | 2003.37 | 48.74% | | | |
| 2002 | 1.25% | 2.25% | 1148.08 | 879.82 | -23.37% | 1965.18 | 1335.51 | -32.04% | | | |
| 2001 | 5.75% | 1.25% | 1320.28 | 1148.08 | -13.04% | 2474.16 | 1950.40 | -21.17% | | | |
| 2000 | 5.00% | 5.75% | 1469.25 | 1320.28 | -10.14% | 4186.19 | 2470.52 | -40.98% | | | |
| 1999 | 4.50% | 5.00% | 1244.00 | 1469.00 | 18.09% | 2207.54 | 4069.31 | 84.34% | | | |
| 1998 | 5.00% | 4.50% | 970.43 | 1229.23 | 26.67% | 1574.00 | 2192.00 | 39.26% | | | |
| 1997 | 5.00% | 5.00% | 740.74 | 970.43 | 31.01% | 1292.00 | 1570.00 | 21.52% | | | |
| 1996 | 5.24% | 5.00% | 615.93 | 740.74 | 20.26% | 1052.00 | 1291.00 | 22.72% | | | |
| 1995 | 4.75% | 5.24% | 459.21 | 615.93 | 34.13% | 751.00 | 1052.00 | 40.08% | | | |
| 1994 | 3.00% | 4.75% | 466.51 | 459.21 | -1.56% | 774.00 | 751.00 | -2.97% | | | |
| 1993 | 3.00% | 3.00% | 435.70 | 466.51 | 7.07% | 675.00 | 776.00 | 14.96% | | | |
| 1992 | 3.50% | 3.00% | 417.03 | 435.70 | 4.48% | 580.00 | 676.00 | 16.55% | | | |
| 1991 | 6.50% | 3.50% | 330.20 | 417.03 | 26.30% | 373.00 | 586.00 | 57.10% | | | |
| 1990 | 7.00% | 6.50% | 359.00 | 330.22 | -8.02% | 452.00 | 373.00 | -17.48% | | | |
| 1989 | 6.50% | 7.00% | 277.72 | 353.40 | 27.25% | 378.90 | 454.80 | 20.03% | | | |
| 1988 | 6.00% | 6.50% | 247.10 | 277.72 | 12.39% | 335.10 | 381.40 | 13.82% | | | |
| 1987 | 5.50% | 6.00% | 242.17 | 247.08 | 2.03% | 351.30 | 330.50 | -5.92% | | | |
| 1986 | 7.50% | 5.50% | 211.28 | 242.17 | 14.62% | 325.00 | 351.30 | 8.09% | | | |
| 1985 | 8.00% | 7.50% | 167.20 | 211.28 | 26.36% | 247.10 | 324.90 | 31.49% | | | |
| 1984 | 8.50% | 8.00% | 164.93 | 167.24 | 1.40% | 277.63 | 247.10 | -11.00% | | | |
| 1983 | 8.50% | 8.50% | 140.65 | 164.93 | 17.26% | 230.59 | 278.00 | 20.56% | | | |
| 1982 | 12.00% | 8.30% | 122.55 | 140.64 | 14.76% | 195.53 | 232.81 | 19.07% | | | |
| 1981 | 13.00% | 12.10% | 135.76 | 122.55 | -9.73% | 203.55 | 195.53 | -3.94% | | | |
| 1980 | 12.00% | 12.87% | 107.94 | 135.76 | 25.77% | 148.17 | 202.34 | 36.56% | | | |
| 1979 | 9.50% | 12.00% | 96.11 | 107.94 | 12.31% | 117.84 | 151.14 | 28.26% | | | |
| 1978 | 6.37% | 9.50% | 95.10 | 96.11 | 1.06% | 104.00 | 117.98 | 13.44% | | | |
| 1977 | 5.25% | 6.37% | 107.46 | 95.10 | -11.50% | 97.69 | 105.05 | 7.53% | | | |
| 1976 | 5.50% | 5.25% | 90.19 | 107.46 | 19.15% | 78.00 | 97.88 | 25.49% | | | |
| 1975 | 7.40% | 6.00% | 68.65 | 90.19 | 31.38% | 60.70 | 77.62 | 27.87% | | | |
| 1974 | 7.50% | 7.40% | 97.55 | 68.65 | -29.63% | 92.50 | 59.82 | -35.33% | | | |

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|------|-------|-------|--------|--------|---------|--------|--------|---------|--|--|--|
| 1973 | 4.77% | 7.50% | 118.08 | 97.55 | -17.39% | 134.63 | 92.19 | -31.52% | | | |
| 1972 | 4.50% | 4.77% | 102.09 | 118.08 | 15.66% | 113.65 | 133.73 | 17.67% | | | |
| 1971 | 5.23% | 4.50% | 92.15 | 102.09 | 10.79% | 100.00 | 114.12 | 14.12% | | | |