

**TABLE 3**  
**Excess Interest and Excess Interest Rate 1980-2034**

Year	Debt-GDP ratio	Excess interest	Net interest	Growth dividend	Excess interest rate $(r_t - g_t)/(1 + g_t)$	Nominal interest rate $r_t$	Nominal GDP growth rate $g_t$
(1)	(% of GDP) (2)	(% of GDP) (3)	(% of GDP) (4)	(% of GDP) (5)	(%) (6)	(%) (7)	(%) (8)
1980	25.5	-0.1	1.9	-2.0	-0.7	8.1	8.8
1981	25.2	-0.6	2.2	-2.8	-2.3	9.6	12.2
1982	27.9	1.2	2.6	-1.4	4.5	10.5	5.7
1983	32.2	0.8	2.5	-1.8	2.3	9.1	6.7
1984	33.1	-0.6	2.8	-3.4	-2.0	9.5	11.7
1985	35.3	0.6	3.0	-2.5	1.5	9.6	8.0
1986	38.5	1.0	3.0	-2.0	2.5	8.8	6.1
1987	39.6	1.0	2.9	-1.9	2.5	7.9	5.3
1988	39.9	0.1	3.0	-2.9	0.2	8.0	7.8
1989	39.4	0.1	3.0	-3.0	0.2	8.3	8.1
1990	40.9	0.8	3.1	-2.3	2.0	8.3	6.2
1991	44.1	1.9	3.2	-1.3	4.5	7.9	3.3
1992	46.8	0.9	3.1	-2.2	1.9	7.3	5.3
1993	47.9	0.5	2.9	-2.5	0.9	6.6	5.6
1994	47.8	0.1	2.8	-2.7	0.3	6.2	5.9
1995	47.7	0.6	3.1	-2.4	1.4	6.8	5.3
1996	47.0	0.7	3.0	-2.3	1.6	6.8	5.2
1997	44.6	0.1	2.9	-2.8	0.4	6.7	6.3
1998	41.7	0.3	2.7	-2.4	0.9	6.7	5.7
1999	38.3	0.0	2.4	-2.4	0.3	6.5	6.1
2000	33.7	-0.2	2.2	-2.4	-0.2	6.6	6.7
2001	31.5	0.7	2.0	-1.3	2.2	6.4	4.0
2002	32.7	0.7	1.6	-0.9	2.2	5.2	2.9
2003	34.7	0.1	1.4	-1.3	0.0	4.2	4.2
2004	35.7	-0.8	1.3	-2.2	-2.5	4.0	6.6
2005	35.8	-0.8	1.4	-2.3	-2.4	4.2	6.7
2006	35.4	-0.4	1.7	-2.1	-1.2	4.9	6.2
2007	35.2	0.0	1.7	-1.7	0.0	4.9	4.9
2008	39.2	0.5	1.7	-1.2	1.4	4.9	3.4
2009	52.2	2.2	1.3	0.9	5.3	2.9	-2.2
2010	60.6	-0.1	1.3	-1.5	-0.4	2.4	2.9
2011	65.5	-0.8	1.5	-2.3	-1.4	2.4	3.9
2012	70.0	-1.2	1.4	-2.6	-2.0	2.1	4.2
2013	71.8	-1.1	1.3	-2.4	-1.6	1.9	3.6
2014	73.3	-1.7	1.3	-3.1	-2.4	1.9	4.4
2015	72.2	-1.7	1.2	-3.0	-2.4	1.7	4.2
2016	76.0	-0.6	1.3	-1.8	-0.8	1.8	2.6
2017	75.7	-1.5	1.4	-2.9	-2.0	1.8	3.9
2018	77.1	-2.3	1.6	-3.9	-3.1	2.2	5.5
2019	79.0	-1.3	1.8	-3.0	-1.7	2.3	4.1
2020	98.7	1.6	1.6	-0.1	1.8	1.9	0.1
2021	97.1	-5.5	1.5	-7.1	-5.7	1.6	7.7
2022	95.8	-7.2	1.9	-9.1	-7.5	2.1	10.3
2023	97.3	-3.5	2.4	-5.9	-3.7	2.7	6.6
2024	99.0	-2.0	3.1	-5.1	-2.1	3.3	5.5
2025	101.6	-0.7	3.4	-4.1	-0.8	3.5	4.4
2026	104.1	-0.3	3.4	-3.8	-0.4	3.5	3.9
2027	106.2	-0.2	3.4	-3.6	-0.3	3.3	3.6
2028	108.6	-0.2	3.4	-3.7	-0.3	3.3	3.6
2029	110.5	-0.4	3.5	-3.9	-0.4	3.3	3.7
2030	112.7	-0.5	3.6	-4.1	-0.5	3.3	3.8
2031	114.8	-0.4	3.7	-4.2	-0.4	3.4	3.8
2032	117.1	-0.4	3.9	-4.2	-0.4	3.4	3.8
2033	119.9	-0.3	4.0	-4.3	-0.3	3.5	3.8
2034	122.4	-0.2	4.1	-4.4	-0.2	3.5	3.8

Notes - This table lists excess interest components over fiscal years 1980-2023, as well as CBO's projected changes 2024-2034 in italics. The Debt-GDP ratio, Net interest, and Growth dividend columns are reprinted from Table 2. Excess interest equals Net interest plus Growth dividend. The average nominal interest rate on federal debt equals current year net interest, divided by the prior year's debt held by the public plus half of the current year's primary deficit which is a simple way to account for interest paid on new debt from current year primary imbalance (Auerbach and Gale 2023). The excess interest rate equals the nominal interest rate minus the nominal GDP growth rate, divided by one plus the nominal GDP growth rate. Net interest does not exactly equal Nominal interest rate times the prior year's Debt-GDP ratio, and Excess interest does not exactly equal Excess interest rate times the prior year's Debt-GDP ratio, due to interest accumulating on new debt from current year primary imbalance; see Section 2.