

6-Aug-19

**Average Federal Tax Rates for Nonelderly Childless Households,
by Comprehensive Household Income Quintile, 1979-2016**

Year	Lowest Quintile	Second Quintile	Middle Quintile	Fourth Quintile	Highest Quintile	All Quintiles	81st - 90th Percentiles	91st - 95th Percentiles	96th - 99th Percentiles	Top 1%
Total Average Federal Tax Rate (Percent)										
1979	10.9	16.3	20.0	22.7	27.5	24.4	24.7	26.2	27.8	35.0
1980	10.8	16.2	20.3	23.0	27.6	24.5	25.2	26.7	28.2	33.0
1981	11.1	16.6	20.7	23.7	27.6	24.8	25.9	27.3	28.4	30.4
1982	10.5	15.7	19.4	22.2	25.3	23.0	24.1	25.2	25.7	27.1
1983	11.4	15.3	19.0	21.7	24.5	22.4	23.4	24.3	24.5	26.7
1984	11.8	15.8	19.3	21.7	24.4	22.4	23.5	24.2	23.9	27.1
1985	12.6	16.6	20.0	22.2	24.6	22.9	23.7	24.6	24.6	26.2
1986	12.2	16.4	20.0	22.5	24.5	22.9	23.9	24.7	24.6	24.9
1987	12.8	16.0	19.6	21.8	26.2	23.7	23.8	25.2	26.6	30.9
1988	13.0	16.3	19.8	22.3	26.0	23.8	24.1	25.2	26.1	29.2
1989	12.7	16.2	19.9	22.3	25.8	23.6	24.1	25.2	25.9	28.6
1990	13.4	16.6	20.0	22.3	25.8	23.7	24.1	25.2	25.9	28.3
1991	13.4	16.0	19.8	22.2	26.0	23.7	23.8	25.3	26.1	29.6
1992	13.4	15.5	19.4	21.9	26.2	23.7	23.8	24.9	26.4	30.3
1993	13.1	15.7	19.4	21.8	27.1	24.2	23.7	25.3	26.8	33.8
1994	12.1	15.7	19.6	22.0	27.7	24.6	24.1	25.6	27.2	35.2
1995	12.5	15.6	19.7	22.2	27.9	24.7	24.2	25.9	27.6	35.5
1996	11.6	15.8	19.6	22.2	28.2	24.9	24.2	26.0	27.8	35.5
1997	12.3	15.7	20.0	22.3	28.3	25.1	24.6	26.2	28.0	34.5
1998	11.8	15.1	19.7	22.4	28.0	24.8	24.6	26.2	27.9	33.2
1999	11.6	15.4	19.7	22.2	28.3	25.0	24.7	26.4	28.3	33.3
2000	11.1	15.2	19.5	22.2	28.3	24.9	24.7	26.3	28.4	32.8
2001	10.7	13.8	17.7	20.9	27.0	23.4	23.4	25.4	27.2	32.5
2002	10.2	13.0	17.3	20.3	26.3	22.6	22.8	24.8	26.6	32.2
2003	10.4	12.6	16.5	19.8	25.1	21.8	21.8	23.7	25.3	30.6
2004	10.0	13.1	16.5	19.6	25.3	21.9	21.8	23.7	25.6	30.5
2005	10.8	13.4	16.7	19.8	25.8	22.4	21.9	23.7	25.8	30.9
2006	11.5	13.4	16.9	20.0	25.9	22.5	22.2	24.0	26.3	30.5
2007	10.3	13.3	16.9	19.9	25.2	21.9	22.1	23.8	25.7	28.9
2008	7.1	10.5	14.5	18.0	24.2	20.3	20.6	22.8	25.0	28.8
2009	6.8	9.8	13.9	17.6	23.8	19.8	20.1	22.3	24.6	29.4
2010	7.3	10.1	14.2	18.1	24.5	20.2	20.9	22.8	25.2	29.9
2011	7.7	10.4	14.0	17.6	23.8	19.8	20.1	22.1	24.5	29.4
2012	8.4	10.7	15.3	18.5	24.3	20.9	20.7	22.7	25.0	28.9
2013	10.0	12.1	16.9	20.2	26.5	22.7	22.7	24.4	26.6	33.4
2014	8.9	12.1	17.1	20.5	26.9	23.1	22.9	24.9	27.0	33.4
2015	8.1	12.3	17.2	20.6	26.8	22.9	23.1	25.0	27.0	33.1
2016	7.9	12.5	17.1	20.8	26.8	22.9	23.1	24.9	27.0	33.1
Average Individual Income Tax Rate (Percent)										
1979	1.0	4.9	8.0	10.7	16.2	12.8	12.8	14.7	17.4	23.4
1980	1.3	5.2	8.6	11.3	17.0	13.5	13.7	15.6	18.5	23.5
1981	1.6	5.6	8.9	11.7	17.1	13.7	14.1	16.1	18.7	22.1
1982	1.3	5.0	8.1	10.8	15.6	12.6	12.9	14.3	16.7	21.0
1983	1.3	4.5	7.4	9.8	14.3	11.6	11.7	13.1	14.9	19.8
1984	1.5	4.7	7.2	9.4	13.8	11.1	11.2	12.6	14.2	19.7
1985	1.5	4.8	7.5	9.6	14.0	11.5	11.3	12.7	14.6	19.3
1986	1.2	4.7	7.5	9.6	14.1	11.6	11.3	12.7	14.8	18.8
1987	0.5	3.9	6.9	8.8	14.8	11.6	10.9	13.0	15.9	22.4
1988	0.5	4.0	6.8	8.9	14.8	11.8	10.9	12.7	15.3	21.3
1989	0.4	4.0	6.9	9.0	14.6	11.6	11.1	12.8	15.4	20.6
1990	0.8	4.3	7.0	8.9	14.5	11.6	10.9	12.6	15.1	20.5
1991	0.7	3.8	6.8	8.8	14.5	11.4	10.7	12.4	14.9	21.5
1992	0.3	3.6	6.4	8.5	14.7	11.5	10.6	12.2	15.0	22.1
1993	0.3	3.6	6.4	8.4	15.0	11.6	10.3	12.2	15.0	24.2
1994	-0.9	3.2	6.3	8.4	15.1	11.6	10.5	12.3	15.3	24.1
1995	-0.5	3.3	6.3	8.4	15.4	11.6	10.6	12.4	15.6	24.5
1996	-0.8	3.5	6.3	8.6	15.9	12.1	10.7	12.7	16.0	25.2
1997	-0.4	3.4	6.6	8.7	16.3	12.4	11.0	13.0	16.5	24.8
1998	-0.6	3.1	6.3	8.7	16.4	12.4	11.0	13.2	16.9	24.4
1999	-0.8	3.3	6.4	8.8	16.9	12.8	11.2	13.6	17.3	24.8
2000	-1.1	3.1	6.3	8.8	17.3	13.0	11.4	13.6	17.6	24.9
2001	-1.5	2.1	5.1	7.8	16.0	11.6	10.4	12.8	16.5	24.8
2002	-1.7	1.6	4.8	7.5	15.1	10.8	9.9	12.2	15.7	24.2
2003	-2.1	1.1	4.2	6.9	13.4	9.7	8.8	10.9	14.0	21.3
2004	-2.1	1.3	4.3	6.8	13.7	9.8	8.9	10.9	14.4	20.8
2005	-2.0	1.5	4.3	6.8	13.9	10.1	8.8	10.8	14.5	20.4
2006	-1.8	1.5	4.3	6.9	13.9	10.1	9.0	11.0	14.9	19.9
2007	-2.0	1.7	4.6	7.0	14.0	10.0	9.1	11.1	15.0	20.1
2008	-5.0	-0.7	2.6	5.6	13.5	8.9	8.1	10.5	14.7	21.1
2009	-5.1	-0.9	2.4	5.5	13.0	8.4	7.9	10.2	14.0	21.6
2010	-5.0	-0.6	2.8	5.9	13.3	8.6	8.4	10.6	14.5	20.8
2011	-3.4	0.5	3.7	6.8	13.8	9.4	9.1	11.3	14.9	20.9

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Year	Lowest Quintile	Second Quintile	Middle Quintile	Fourth Quintile	Highest Quintile	All Quintiles	81st - 90th Percentiles	91st - 95th Percentiles	96th - 99th Percentiles	Top 1%
2012	-4.1	0.2	4.2	7.1	14.2	10.2	9.3	11.5	15.6	20.6
2013	-4.5	0.2	4.2	7.2	14.8	10.3	9.5	11.5	15.6	24.0
2014	-5.7	-0.2	4.1	7.2	15.3	10.6	9.6	11.9	16.0	24.4
2015	-6.0	0.0	4.2	7.3	15.2	10.5	9.9	12.1	16.3	24.2
2016	-5.8	0.1	4.2	7.5	15.3	10.6	9.9	12.1	16.2	24.0

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Year	Lowest Quintile	Second Quintile	Middle Quintile	Fourth Quintile	Highest Quintile	All Quintiles	81st - 90th Percentiles	91st - 95th Percentiles	96th - 99th Percentiles	Top 1%
Average Social Insurance Tax Rate (Percent)										
1979	6.4	8.4	9.1	9.3	6.7	7.6	9.0	8.3	5.6	1.3
1980	6.4	8.2	9.1	9.3	6.8	7.7	9.0	8.2	5.9	1.4
1981	6.9	8.8	9.6	10.0	7.5	8.4	9.8	9.0	6.6	1.7
1982	7.0	8.8	9.7	10.0	7.6	8.5	9.7	9.4	7.1	2.0
1983	7.1	8.6	9.6	10.1	7.7	8.5	10.0	9.4	7.2	2.0
1984	6.9	8.7	9.8	10.2	7.8	8.6	10.3	9.5	7.1	1.8
1985	7.8	9.4	10.4	10.8	7.9	8.9	10.6	9.9	7.4	1.7
1986	7.8	9.5	10.5	11.0	7.7	8.8	10.8	10.0	7.2	1.4
1987	8.2	9.4	10.4	10.8	8.1	9.1	10.7	9.9	7.6	1.9
1988	8.8	9.9	10.7	11.3	7.9	9.1	11.2	10.3	7.7	1.7
1989	9.0	9.9	10.8	11.2	8.0	9.2	11.0	10.3	7.5	1.8
1990	9.3	10.0	11.0	11.5	8.1	9.4	11.3	10.5	8.0	1.8
1991	9.3	9.8	10.8	11.4	8.6	9.6	11.1	10.9	8.7	2.6
1992	9.4	9.5	10.8	11.3	8.3	9.4	11.2	10.6	8.5	2.3
1993	9.1	9.4	10.6	11.2	8.5	9.4	11.2	10.7	8.7	2.5
1994	8.9	9.5	10.7	11.2	8.7	9.6	11.3	10.9	8.7	3.1
1995	9.2	9.5	10.8	11.3	8.6	9.6	11.2	10.9	8.5	2.8
1996	8.9	9.6	10.8	11.3	8.3	9.4	11.2	10.7	8.3	2.7
1997	9.2	9.5	11.0	11.3	8.1	9.2	11.3	10.5	8.0	2.4
1998	9.1	9.5	11.1	11.4	7.9	9.2	11.3	10.6	7.9	2.2
1999	9.2	9.8	11.1	11.3	7.8	9.1	11.3	10.5	7.8	2.3
2000	8.9	9.8	11.0	11.3	7.6	9.0	11.2	10.4	7.8	2.3
2001	9.3	9.6	10.8	11.3	8.5	9.5	11.4	11.0	8.6	2.9
2002	9.0	9.4	10.8	11.1	8.8	9.7	11.3	11.1	9.0	3.1
2003	9.4	9.3	10.3	11.0	8.7	9.5	11.2	11.0	8.8	2.9
2004	9.3	9.5	10.2	10.8	8.1	9.1	11.0	10.7	8.3	2.5
2005	9.5	9.5	10.1	10.7	7.4	8.6	10.9	10.4	7.6	2.0
2006	9.7	9.4	10.2	10.8	7.3	8.6	10.8	10.2	7.4	1.9
2007	9.6	9.6	10.4	10.9	7.5	8.8	10.9	10.3	7.4	2.1
2008	9.6	9.5	10.4	11.0	8.1	9.2	11.0	10.7	8.2	2.5
2009	9.4	9.0	10.0	10.8	8.6	9.5	11.0	10.8	8.9	3.0
2010	9.3	8.9	9.7	10.7	8.4	9.2	10.9	10.5	8.5	2.8
2011	8.1	8.0	8.5	9.3	7.3	8.1	9.5	9.3	7.4	2.6
2012	8.3	8.3	9.2	9.6	7.1	8.1	9.7	9.4	7.2	2.2
2013	10.1	9.6	10.7	11.1	8.5	9.6	11.3	10.8	8.4	3.0
2014	9.9	9.9	10.8	11.2	8.3	9.5	11.2	10.7	8.1	2.7
2015	9.8	10.0	10.9	11.3	8.4	9.6	11.2	10.7	8.1	2.9
2016	9.8	10.2	10.9	11.4	8.4	9.6	11.3	10.7	8.2	2.9

Average Corporate Income Tax Rate (Percent)

1979	1.7	1.7	1.8	1.9	4.0	3.1	2.1	2.5	4.1	9.9
1980	1.5	1.5	1.5	1.6	3.2	2.5	1.8	2.1	3.3	7.7
1981	1.2	1.2	1.3	1.3	2.5	2.0	1.4	1.6	2.6	6.2
1982	0.7	0.8	0.8	0.8	1.6	1.3	0.9	0.9	1.5	3.9
1983	1.0	1.0	1.0	1.0	1.9	1.6	1.1	1.3	1.9	4.6
1984	1.4	1.1	1.2	1.2	2.2	1.8	1.2	1.4	2.1	5.3
1985	1.1	1.0	1.0	1.0	2.1	1.7	1.1	1.3	2.0	4.9
1986	1.1	1.0	1.1	1.1	2.1	1.7	1.1	1.3	2.0	4.3
1987	1.4	1.3	1.3	1.3	2.7	2.2	1.4	1.7	2.7	6.3
1988	1.3	1.1	1.3	1.3	2.8	2.2	1.3	1.6	2.6	5.9
1989	1.2	1.1	1.2	1.2	2.6	2.1	1.3	1.6	2.5	5.8
1990	1.1	1.1	1.1	1.1	2.6	2.0	1.2	1.5	2.3	5.8
1991	1.2	1.0	1.1	1.1	2.3	1.9	1.2	1.4	2.0	5.3
1992	1.2	0.9	1.1	1.1	2.6	2.0	1.2	1.4	2.3	5.7
1993	1.4	1.2	1.3	1.3	3.0	2.3	1.4	1.7	2.6	6.8
1994	1.4	1.3	1.3	1.4	3.2	2.5	1.5	1.7	2.6	7.8
1995	1.5	1.3	1.4	1.4	3.4	2.6	1.6	1.9	2.9	7.8
1996	1.3	1.3	1.3	1.4	3.4	2.6	1.6	1.9	2.9	7.4
1997	1.3	1.2	1.3	1.4	3.4	2.6	1.6	1.9	2.9	7.0
1998	1.1	1.0	1.2	1.3	3.1	2.3	1.4	1.7	2.6	6.4
1999	1.2	1.1	1.2	1.3	3.0	2.3	1.4	1.7	2.6	5.8
2000	1.1	1.0	1.1	1.2	2.9	2.2	1.4	1.6	2.5	5.4
2001	0.7	0.7	0.8	0.8	2.0	1.5	0.9	1.1	1.6	4.6
2002	0.7	0.6	0.7	0.7	1.8	1.4	0.8	1.0	1.4	4.6
2003	0.9	0.8	0.9	1.0	2.5	1.9	1.1	1.2	2.0	6.1
2004	1.1	1.0	1.0	1.2	3.1	2.3	1.3	1.6	2.5	7.0
2005	1.3	1.2	1.3	1.5	4.1	3.0	1.6	2.0	3.3	8.2
2006	1.4	1.3	1.4	1.6	4.2	3.1	1.8	2.2	3.6	8.4
2007	1.2	1.1	1.2	1.4	3.3	2.5	1.5	1.9	2.9	6.6
2008	0.8	0.7	0.7	0.8	2.2	1.6	0.9	1.1	1.7	4.9
2009	0.6	0.5	0.6	0.6	1.8	1.3	0.7	0.9	1.3	4.6
2010	0.8	0.7	0.8	0.9	2.4	1.7	1.0	1.2	1.8	6.0
2011	0.7	0.7	0.8	0.8	2.3	1.6	1.0	1.1	1.7	5.6

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2012	1.0	0.9	1.0	1.1	2.5	1.9	1.1	1.3	1.8	5.8
2013	1.0	1.0	1.0	1.2	2.7	2.0	1.3	1.5	2.2	6.1
2014	1.1	1.0	1.2	1.3	2.8	2.2	1.4	1.6	2.4	6.1
2015	1.0	1.0	1.1	1.2	2.6	2.0	1.3	1.5	2.2	5.8
2016	1.0	1.0	1.0	1.1	2.7	2.0	1.3	1.5	2.1	6.0

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Average Excise Tax Rate (Percent)										
1979	1.8	1.4	1.1	0.9	0.7	0.9	0.8	0.7	0.6	0.4
1980	1.6	1.2	1.0	0.8	0.6	0.8	0.7	0.6	0.6	0.4
1981	1.4	1.1	0.9	0.7	0.5	0.7	0.6	0.6	0.5	0.3
1982	1.5	1.0	0.8	0.7	0.5	0.6	0.6	0.5	0.5	0.3
1983	1.9	1.2	1.0	0.8	0.6	0.8	0.7	0.6	0.5	0.3
1984	2.0	1.3	1.0	0.9	0.6	0.8	0.8	0.7	0.6	0.4
1985	2.3	1.3	1.0	0.9	0.6	0.8	0.7	0.7	0.6	0.3
1986	2.1	1.3	1.0	0.8	0.6	0.8	0.7	0.6	0.6	0.3
1987	2.6	1.4	1.0	0.8	0.6	0.8	0.7	0.6	0.5	0.3
1988	2.3	1.3	1.0	0.8	0.5	0.7	0.7	0.6	0.5	0.3
1989	2.1	1.3	1.0	0.8	0.5	0.7	0.7	0.6	0.5	0.3
1990	2.1	1.2	0.9	0.8	0.5	0.7	0.7	0.6	0.5	0.2
1991	2.2	1.4	1.1	0.9	0.6	0.8	0.7	0.6	0.5	0.3
1992	2.4	1.5	1.1	0.9	0.6	0.8	0.8	0.7	0.6	0.3
1993	2.4	1.5	1.2	0.9	0.6	0.9	0.8	0.7	0.6	0.3
1994	2.7	1.7	1.3	1.0	0.7	1.0	0.9	0.8	0.6	0.3
1995	2.4	1.5	1.2	1.0	0.6	0.9	0.8	0.7	0.6	0.3
1996	2.1	1.4	1.2	0.9	0.6	0.8	0.8	0.6	0.5	0.3
1997	2.1	1.5	1.1	0.9	0.6	0.8	0.8	0.7	0.5	0.2
1998	2.1	1.4	1.1	0.9	0.6	0.8	0.8	0.7	0.5	0.2
1999	2.1	1.3	1.1	0.9	0.5	0.8	0.7	0.6	0.5	0.2
2000	2.3	1.3	1.0	0.9	0.5	0.7	0.7	0.6	0.5	0.2
2001	2.2	1.3	1.0	0.9	0.5	0.8	0.7	0.6	0.5	0.2
2002	2.1	1.4	1.1	0.9	0.5	0.8	0.7	0.6	0.5	0.3
2003	2.3	1.3	1.1	0.8	0.5	0.8	0.7	0.6	0.5	0.3
2004	1.9	1.3	1.0	0.8	0.5	0.7	0.7	0.6	0.5	0.3
2005	1.9	1.2	0.9	0.8	0.5	0.7	0.6	0.5	0.4	0.3
2006	2.2	1.3	1.0	0.8	0.5	0.7	0.6	0.5	0.4	0.2
2007	1.6	0.9	0.8	0.6	0.4	0.6	0.5	0.4	0.3	0.2
2008	1.8	1.0	0.8	0.6	0.4	0.6	0.5	0.4	0.4	0.3
2009	1.9	1.1	0.9	0.6	0.4	0.7	0.5	0.5	0.4	0.3
2010	2.2	1.1	0.9	0.7	0.4	0.7	0.5	0.5	0.4	0.3
2011	2.2	1.2	0.9	0.7	0.4	0.7	0.6	0.5	0.4	0.3
2012	1.0	0.9	1.0	1.1	2.5	1.9	1.1	1.3	1.8	5.8
2013	1.0	1.0	1.0	1.2	2.7	2.0	1.3	1.5	2.2	6.1
2014	1.1	1.0	1.2	1.3	2.8	2.2	1.4	1.6	2.4	6.1
2015	1.0	1.0	1.1	1.2	2.6	2.0	1.3	1.5	2.2	5.8
2016	1.0	1.0	1.0	1.1	2.7	2.0	1.3	1.5	2.1	6.0

Source: (1979-2011) Congressional Budget Office, <https://www.cbo.gov/publication/49440>; (2012-2016) CBO, The Distribution of Household Income Table Builder (2019)

Notes: Effective tax rates are calculated by dividing taxes by comprehensive household income. A nonelderly childless household is one headed by a person under age 65 and with no member under age 18.

Comprehensive household income equals pretax cash income plus income from other sources. Pretax cash income is the sum of wages, salaries, self-employment income, rents, taxable and nontaxable interest, dividends, realized capital gains, cash transfer payments, and retirement benefits plus taxes paid by businesses (corporate income taxes and the employer's share of Social Security, Medicare, and federal unemployment insurance payroll taxes) and employees' contributions to 401(k) retirement plans. Other sources of income include all in-kind benefits (Medicare, Medicaid, employer-paid health insurance premiums, food stamps, school lunches and breakfasts, housing assistance, and energy assistance).

Income categories are defined by ranking all people by their comprehensive household income adjusted for household size—that is, divided by the square root of the household's size. (A household consists of the people who share a housing unit, regardless of their relationships.) Quintiles, or fifths, contain equal numbers of people. Households with negative income (business or investment losses larger than other income) are excluded from the lowest income category but are included in totals.

Individual income taxes are distributed directly to households paying those taxes. Social insurance, or payroll, taxes are distributed to households paying those taxes directly or paying them indirectly through their employers. Corporate income taxes are distributed to households according to their share of capital income. Federal excise taxes are distributed to them according to their consumption of the taxed good or service.

Numbers in the data may not add up to totals because of rounding.