

TABLE 1. U.S. gross domestic product, R&D, and ratio of R&D to gross domestic product (and components): 1953–2015

Year	GDP			Total R&D		R&D/GDP (%)							
	Current \$billions	Constant 2009 \$billions	Deflator ^a (2009 = 1.00000)	Current \$billions	Constant 2009 \$billions	R&D, by performer					R&D, by source of funding		
						Total	Business	Federal ^b	Higher education	Other ^c	Business	Federal	Other ^d
1953	389.7	2,571.4	0.15155	5.2	34.0	1.32	0.93	0.29	0.07	0.03	0.58	0.71	0.03
1954	391.1	2,556.9	0.15296	5.6	36.7	1.44	1.04	0.29	0.08	0.03	0.61	0.79	0.04
1955	426.2	2,739.0	0.15560	6.2	39.7	1.45	1.04	0.30	0.08	0.03	0.59	0.82	0.04
1956	450.1	2,797.4	0.16090	8.5	52.8	1.89	1.39	0.38	0.09	0.03	0.74	1.11	0.04
1957	474.9	2,856.3	0.16626	9.9	59.6	2.09	1.54	0.42	0.09	0.04	0.73	1.31	0.04
1958	482.0	2,835.3	0.17000	10.9	64.2	2.26	1.67	0.45	0.10	0.04	0.77	1.45	0.05
1959	522.5	3,031.0	0.17239	12.5	72.5	2.39	1.76	0.47	0.11	0.04	0.78	1.56	0.05
1960	543.3	3,108.7	0.17477	13.7	78.5	2.52	1.85	0.50	0.13	0.05	0.83	1.64	0.05
1961	563.3	3,188.1	0.17669	14.6	82.4	2.59	1.84	0.55	0.15	0.05	0.84	1.68	0.06
1962	605.1	3,383.1	0.17886	15.6	87.4	2.58	1.82	0.54	0.16	0.06	0.85	1.68	0.06
1963	638.6	3,530.4	0.18089	17.5	96.9	2.74	1.91	0.58	0.18	0.06	0.85	1.82	0.07
1964	685.8	3,734.0	0.18366	19.1	104.0	2.79	1.90	0.62	0.20	0.06	0.86	1.86	0.07
1965	743.7	3,976.7	0.18701	20.3	108.3	2.72	1.86	0.59	0.21	0.06	0.88	1.77	0.07
1966	815.0	4,238.9	0.19227	22.1	114.8	2.71	1.86	0.56	0.22	0.07	0.90	1.74	0.07
1967	861.7	4,355.2	0.19786	23.3	118.0	2.71	1.85	0.56	0.24	0.07	0.95	1.69	0.07
1968	942.5	4,569.0	0.20628	24.7	119.6	2.62	1.81	0.52	0.23	0.06	0.96	1.59	0.07
1969	1,019.9	4,712.5	0.21642	26.0	120.1	2.55	1.75	0.51	0.22	0.06	0.98	1.49	0.07
1970	1,075.9	4,722.0	0.22785	26.3	115.3	2.44	1.64	0.52	0.22	0.06	0.97	1.39	0.08
1971	1,167.8	4,877.6	0.23942	27.0	112.6	2.31	1.53	0.50	0.22	0.06	0.93	1.30	0.08
1972	1,282.4	5,134.3	0.24977	28.7	115.1	2.24	1.48	0.48	0.21	0.06	0.91	1.25	0.08
1973	1,428.5	5,424.1	0.26336	31.0	117.5	2.17	1.45	0.45	0.21	0.06	0.93	1.16	0.07
1974	1,548.8	5,396.0	0.28703	33.4	116.2	2.15	1.44	0.45	0.21	0.06	0.96	1.12	0.08
1975	1,688.9	5,385.4	0.31361	35.7	113.7	2.11	1.39	0.45	0.21	0.06	0.94	1.10	0.08
1976	1,877.6	5,675.4	0.33083	39.4	119.2	2.10	1.39	0.44	0.21	0.06	0.94	1.08	0.08
1977	2,086.0	5,937.0	0.35136	43.3	123.3	2.08	1.38	0.43	0.21	0.06	0.94	1.06	0.08
1978	2,356.6	6,267.2	0.37602	48.7	129.6	2.07	1.37	0.43	0.21	0.06	0.95	1.04	0.08
1979	2,632.1	6,466.2	0.40706	55.4	136.0	2.10	1.41	0.42	0.22	0.06	0.99	1.03	0.08
1980	2,862.5	6,450.4	0.44377	63.2	142.5	2.21	1.51	0.42	0.23	0.06	1.08	1.05	0.08
1981	3,211.0	6,617.7	0.48521	72.3	149.0	2.25	1.57	0.40	0.22	0.06	1.12	1.05	0.08
1982	3,345.0	6,491.3	0.51531	80.7	156.7	2.41	1.71	0.42	0.23	0.06	1.22	1.11	0.09
1983	3,638.1	6,792.0	0.53564	89.9	167.9	2.47	1.75	0.44	0.23	0.06	1.24	1.14	0.09
1984	4,040.7	7,285.0	0.55466	102.2	184.3	2.53	1.81	0.43	0.23	0.06	1.29	1.15	0.09
1985	4,346.7	7,593.8	0.57240	114.7	200.3	2.64	1.90	0.44	0.24	0.06	1.33	1.21	0.09
1986	4,590.2	7,860.5	0.58396	120.2	205.9	2.62	1.87	0.43	0.25	0.06	1.33	1.19	0.10
1987	4,870.2	8,132.6	0.59885	126.4	211.0	2.59	1.85	0.42	0.26	0.06	1.28	1.20	0.11
1988	5,252.6	8,474.5	0.61981	133.9	216.0	2.55	1.81	0.41	0.27	0.06	1.29	1.14	0.11

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1989	5,657.7	8,786.4	0.64392	141.9	220.4	2.51	1.77	0.40	0.28	0.06	1.33	1.07	0.11
1990	5,979.6	8,955.0	0.66774	152.0	227.6	2.54	1.80	0.39	0.28	0.07	1.39	1.03	0.12
1991	6,174.0	8,948.4	0.68996	160.9	233.2	2.61	1.86	0.38	0.29	0.08	1.49	0.98	0.13
1992	6,539.3	9,266.6	0.70568	165.4	234.3	2.53	1.79	0.37	0.30	0.08	1.47	0.93	0.13
1993	6,878.7	9,521.0	0.72248	165.7	229.4	2.41	1.68	0.36	0.30	0.08	1.40	0.88	0.13
1994	7,308.8	9,905.4	0.73786	169.2	229.3	2.32	1.61	0.34	0.30	0.08	1.36	0.83	0.13
1995	7,664.1	10,174.8	0.75324	183.6	243.8	2.40	1.69	0.33	0.30	0.08	1.45	0.82	0.13
1996	8,100.2	10,561.0	0.76699	197.3	257.3	2.44	1.76	0.31	0.29	0.08	1.52	0.78	0.13
1997	8,608.5	11,034.9	0.78012	212.2	271.9	2.46	1.81	0.29	0.29	0.08	1.58	0.75	0.13
1998	9,089.2	11,525.9	0.78859	226.5	287.2	2.49	1.84	0.28	0.29	0.08	1.63	0.73	0.13
1999	9,660.6	12,065.9	0.80065	245.3	306.4	2.54	1.88	0.28	0.29	0.08	1.70	0.70	0.14
2000	10,284.8	12,559.7	0.81887	268.9	328.4	2.61	1.94	0.28	0.30	0.09	1.81	0.66	0.15
2001	10,621.8	12,682.2	0.83754	279.7	334.0	2.63	1.90	0.31	0.32	0.11	1.77	0.70	0.16
2002	10,977.5	12,908.8	0.85039	279.4	328.5	2.55	1.77	0.32	0.35	0.11	1.65	0.73	0.17
2003	11,510.7	13,271.1	0.86735	293.1	337.9	2.55	1.74	0.32	0.36	0.11	1.62	0.75	0.18
2004	12,274.9	13,773.5	0.89120	304.5	341.7	2.48	1.70	0.31	0.36	0.11	1.56	0.75	0.17
2005	13,093.7	14,234.2	0.91988	327.2	355.7	2.50	1.73	0.30	0.36	0.11	1.59	0.74	0.17
2006	13,855.9	14,613.8	0.94814	352.9	372.2	2.55	1.79	0.30	0.35	0.11	1.64	0.73	0.18
2007	14,477.6	14,873.7	0.97337	380.0	390.4	2.62	1.86	0.30	0.35	0.11	1.71	0.74	0.18
2008	14,718.6	14,830.4	0.99246	407.0	410.0	2.76	1.97	0.31	0.37	0.11	1.75	0.81	0.20
2009	14,418.7	14,418.7	1.00000	405.3	405.3	2.81	1.96	0.33	0.40	0.13	1.71	0.88	0.22
2010	14,964.4	14,783.8	1.01222	409.0	404.1	2.73	1.86	0.34	0.40	0.13	1.66	0.86	0.22
2011	15,517.9	15,020.6	1.03311	428.7	414.9	2.76	1.90	0.34	0.40	0.12	1.72	0.83	0.21
2012	16,155.3	15,354.6	1.05215	436.2	414.5	2.70	1.87	0.32	0.39	0.11	1.71	0.78	0.21
2013	16,663.2	15,583.3	1.06930	456.6	427.0	2.74	1.94	0.31	0.38	0.11	1.78	0.73	0.22
2014 ^e	17,348.1	15,961.7	1.08686	477.7	439.5	2.75	1.96	0.30	0.37	0.12	1.84	0.69	0.23
2015 ^f	17,937.8	16,341.8	1.09766	499.3	454.9	2.78	2.00	0.29	0.37	0.11	1.92	0.63	0.23

GDP = gross domestic product.

^a Implicit price deflator for GDP.

^b Includes federal intramural R&D and that by federally funded R&D centers.

^c Includes R&D in the U.S. performed by nonfederal government and other nonprofit organizations.

^d Includes funding for U.S. R&D by nonfederal government, higher education, and other nonprofit organizations.

^e Data are preliminary and may later be revised.

^f Data are estimates and will later be revised.

SOURCES: GDP figures from Bureau of Economic Analysis, National Economic Accounts, Gross Domestic Product, <http://www.bea.gov/national/>, accessed 10 February 2016; R&D figures from National Science Foundation, National Center for Science and Engineering Statistics, National Patterns of R&D Resources (annual series).