

TABLE 14. International research and development expenditures and research and development as percentage of gross domestic product, by selected country and for all Organisation for Economic Co-operation and Development countries: 1981–2004

Year	United States	Japan ^a	Germany ^b	France	United		Canada	Russian	Total OECD
					Kingdom	Italy		Federation	
Billions of constant 2000 U.S. dollars ^c									
1981	123.2	42.7	29.9	19.3	21.5	8.7	6.3	NA	276.1
1982	129.5	45.7	30.6	20.7	NA	9.0	6.8	NA	289.2
1983	138.8	49.2	31.0	21.4	20.9	9.6	6.9	NA	304.8
1984	152.2	52.5	31.9	22.6	NA	10.5	7.5	NA	327.8
1985	165.4	58.2	35.0	23.6	22.7	12.0	8.1	NA	356.5
1986	169.3	59.2	36.0	24.1	23.8	12.4	8.5	NA	367.5
1987	173.1	63.2	37.9	25.1	24.1	13.4	8.5	NA	381.3
1988	177.3	68.0	39.2	26.2	24.7	14.3	8.8	NA	395.9
1989	181.0	74.1	40.7	27.8	25.4	15.0	9.5	NA	412.5
1990	186.7	80.2	41.2	29.8	25.5	15.9	9.9	32.8	431.2
1991	191.1	82.0	44.3	30.2	24.2	15.3	10.1	23.7	450.6
1992	191.9	81.2	43.1	30.8	23.8	14.9	10.5	10.0	452.6
1993	188.0	79.1	41.5	31.0	24.7	14.1	11.1	9.0	448.5
1994	187.9	78.4	40.8	30.9	25.2	13.4	12.0	8.6	451.8
1995	199.9	83.4	41.7	31.2	25.2	13.1	12.1	7.7	478.4
1996	210.8	89.0	42.2	31.3	24.9	13.4	12.0	8.5	499.9
1997	222.9	92.7	43.8	30.9	24.8	14.2	12.5	9.2	523.1
1998	236.4	95.2	45.4	31.3	25.3	14.7	13.8	8.3	544.7
1999	250.8	95.6	48.8	32.7	27.1	14.6	14.9	9.6	572.5
2000	267.8	98.9	51.6	33.8	28.0	15.4	16.6	10.8	606.9
2001	271.3	101.7	52.4	35.3	28.8	16.4	18.2	12.8	625.7
2002	265.1	103.1	53.0	36.3	29.7	17.1	17.8	14.2	625.6
2003	275.0	105.4	53.6	35.8	30.2	NA	17.9	15.6	642.8
2004	286.4	NA	53.7	36.3	NA	NA	18.3	15.3	NA
Percent of GDP									
1981	2.34	2.12	2.43	1.90	2.38	0.88	1.24	NA	1.92
1982	2.51	2.21	2.50	1.98	NA	0.90	1.39	NA	2.01
1983	2.58	2.34	2.50	2.01	2.20	0.95	1.36	NA	2.06
1984	2.64	2.43	2.50	2.10	NA	1.01	1.40	NA	2.12
1985	2.75	2.56	2.68	2.15	2.24	1.12	1.44	NA	2.23
1986	2.72	2.53	2.70	2.14	2.26	1.13	1.48	NA	2.23
1987	2.69	2.60	2.80	2.18	2.20	1.19	1.43	NA	2.24
1988	2.65	2.62	2.79	2.18	2.14	1.22	1.40	NA	2.22
1989	2.61	2.71	2.79	2.23	2.15	1.24	1.47	NA	2.24
1990	2.65	2.79	2.67	2.33	2.15	1.29	1.53	2.03	2.27
1991	2.71	2.76	2.47	2.33	2.07	1.23	1.60	1.43	2.20
1992	2.64	2.71	2.35	2.33	2.03	1.18	1.64	0.74	2.16
1993	2.52	2.63	2.28	2.37	2.06	1.13	1.70	0.77	2.11
1994	2.42	2.58	2.18	2.32	2.01	1.05	1.76	0.84	2.06
1995	2.51	2.69	2.19	2.29	1.95	1.00	1.72	0.85	2.08
1996	2.55	2.78	2.19	2.27	1.88	1.01	1.68	0.97	2.10
1997	2.58	2.84	2.24	2.19	1.81	1.05	1.68	1.04	2.13
1998	2.62	2.95	2.27	2.14	1.80	1.07	1.79	0.95	2.15
1999	2.66	2.96	2.40	2.16	1.87	1.04	1.82	1.00	2.19
2000	2.74	2.99	2.45	2.15	1.86	1.07	1.93	1.05	2.23
2001	2.76	3.07	2.46	2.20	1.87	1.11	2.08	1.18	2.28
2002	2.65	3.12	2.49	2.23	1.89	1.16	1.97	1.25	2.24
2003	2.68	3.15	2.52	2.18	1.88	0.00	1.95	1.29	2.26
2004	2.68	NA	2.49	2.16	NA	NA	1.93	1.17	NA

NA=not available

GDP=gross domestic product

OECD=Organisation for Economic Co-operation and Development

^a Data on Japanese research and development in 1996 and later years may not be consistent with data in earlier years because of changes in methodology.

^b Data for 1981–90 are for West Germany.

^c Conversions of foreign currencies to U.S. dollars are calculated with each country's GDP implicit price deflator and OECD purchasing power parity exchange rates.

SOURCE: OECD, *Main Science and Technology Indicators* (Paris, 2005).