

Appendix table 4-43

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## International R&amp;D expenditures and R&amp;D as percentage of GDP, by selected country and for all OECD countries: 1981–2001

Year	United States	Japan <sup>a</sup>	Germany <sup>b</sup>	France	United Kingdom	Italy	Canada	Russian Federation	Total OECD
Billions of constant 1995 U.S. dollars <sup>c</sup>									
1981 .....	114.5	39.7	27.8	17.4	18.2	7.7	6.0	NA	254.9
1982 .....	120.5	42.6	28.4	18.7	NA	7.9	6.6	NA	267.4
1983 .....	129.1	46.0	28.8	19.4	17.8	8.5	6.6	NA	281.9
1984 .....	141.6	49.4	29.7	20.6	NA	9.2	7.2	NA	303.6
1985 .....	153.7	54.6	32.5	21.5	19.2	10.5	7.8	NA	329.7
1986 .....	157.3	55.6	33.5	21.9	20.1	10.9	8.2	NA	339.6
1987 .....	160.2	59.6	35.3	22.8	20.5	11.8	8.2	NA	351.9
1988 .....	164.2	64.1	36.5	23.8	21.0	12.5	8.5	NA	365.7
1989 .....	167.6	70.1	37.9	25.4	21.5	13.1	9.1	NA	381.3
1990 .....	172.9	75.9	38.3	27.0	21.7	13.9	9.5	28.4	397.6
1991 .....	176.6	77.6	42.0	27.2	20.6	13.4	9.7	20.5	415.7
1992 .....	177.1	76.8	40.9	27.7	20.2	13.1	10.1	8.6	417.1
1993 .....	173.3	74.7	39.5	27.8	21.0	12.3	10.7	7.8	412.7
1994 .....	173.3	74.0	38.8	27.6	21.5	11.8	11.6	7.4	415.7
1995 .....	184.1	78.7	39.5	27.7	21.5	11.5	11.7	6.6	439.7
1996 .....	194.0	84.0	39.7	27.9	21.2	11.7	11.6	7.4	459.4
1997 .....	204.6	87.5	40.9	27.4	21.1	12.5	12.2	8.0	480.1
1998 .....	215.5	89.7	42.1	27.7	21.6	12.9	13.3	7.2	497.9
1999 .....	228.6	90.2	45.3	28.8	23.1	12.8	14.0	8.3	522.8
2000 .....	243.3	93.7	47.7	29.9	23.4	13.5	15.0	9.4	553.5
2001 .....	252.9	NA	48.6	30.7	NA	NA	16.2	10.9	NA
Percent of GDP									
1981 .....	2.34	2.11	2.43	1.93	2.38	0.88	1.24	NA	1.95
1982 .....	2.52	2.19	2.50	2.02	NA	0.90	1.39	NA	2.05
1983 .....	2.59	2.32	2.50	2.06	2.20	0.95	1.36	NA	2.10
1984 .....	2.64	2.40	2.50	2.16	NA	1.01	1.40	NA	2.16
1985 .....	2.76	2.54	2.68	2.22	2.24	1.12	1.44	NA	2.26
1986 .....	2.73	2.51	2.70	2.21	2.26	1.13	1.48	NA	2.26
1987 .....	2.69	2.57	2.80	2.24	2.20	1.19	1.43	NA	2.26
1988 .....	2.65	2.60	2.79	2.24	2.14	1.22	1.40	NA	2.25
1989 .....	2.62	2.70	2.79	2.29	2.15	1.24	1.47	NA	2.26
1990 .....	2.65	2.78	2.67	2.37	2.15	1.29	1.53	2.03	2.29
1991 .....	2.72	2.75	2.53	2.37	2.07	1.23	1.60	1.43	2.23
1992 .....	2.65	2.70	2.41	2.38	2.02	1.18	1.66	0.74	2.19
1993 .....	2.52	2.62	2.35	2.40	2.05	1.13	1.71	0.77	2.14
1994 .....	2.43	2.57	2.26	2.34	2.01	1.05	1.76	0.84	2.09
1995 .....	2.51	2.69	2.26	2.31	1.95	1.00	1.73	0.79	2.10
1996 .....	2.55	2.77	2.26	2.30	1.88	1.01	1.69	0.90	2.13
1997 .....	2.58	2.83	2.29	2.22	1.81	1.05	1.71	0.97	2.15
1998 .....	2.60	2.94	2.31	2.17	1.80	1.07	1.79	0.92	2.17
1999 .....	2.65	2.94	2.44	2.18	1.88	1.04	1.79	1.01	2.20
2000 .....	2.72	2.98	2.49	2.18	1.85	1.07	1.82	1.05	2.24
2001 .....	2.82	NA	2.53	2.20	NA	NA	1.94	1.16	NA
Billions of constant 1995 units of national currency <sup>d</sup>									
1981 .....	114.5	6,739	28.6	17.1	11.9	6.1	7.1	NA	NA
1982 .....	120.5	7,237	29.3	18.4	NA	6.4	7.7	NA	NA
1983 .....	129.1	7,818	29.7	19.1	11.6	6.8	7.8	NA	NA
1984 .....	141.6	8,387	30.6	20.3	NA	7.4	8.5	NA	NA
1985 .....	153.7	9,281	33.5	21.2	12.6	8.4	9.2	NA	NA
1986 .....	157.3	9,450	34.6	21.6	13.2	8.7	9.6	NA	NA
1987 .....	160.2	10,121	36.4	22.5	13.4	9.4	9.7	NA	NA
1988 .....	164.2	10,897	37.6	23.5	13.7	10.0	10.0	NA	NA
1989 .....	167.6	11,918	39.0	25.0	14.1	10.5	10.8	NA	NA
1990 .....	172.9	12,899	39.5	26.6	14.2	11.2	11.2	51.9	NA
1991 .....	176.6	13,186	43.3	26.8	13.5	10.8	11.5	37.5	NA
1992 .....	177.1	13,045	42.1	27.3	13.2	10.5	12.0	15.8	NA
1993 .....	173.3	12,703	40.7	27.4	13.7	9.9	12.6	14.3	NA

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Year	United States	Japan <sup>a</sup>	Germany <sup>b</sup>	France	United Kingdom	Italy	Canada	Russian Federation	Total OECD
Billions of constant 1995 units of national currency <sup>d</sup>									
1994 .....	173.3	12,581	40.0	27.2	14.0	9.4	13.7	13.5	NA
1995 .....	184.1	13,369	40.7	27.3	14.0	9.2	13.8	12.1	NA
1996 .....	194.0	14,272	40.9	27.4	13.9	9.4	13.7	13.4	NA
1997 .....	204.6	14,863	42.1	27.0	13.8	10.0	14.4	14.6	NA
1998 .....	215.5	15,248	43.4	27.3	14.1	10.3	15.8	13.1	NA
1999 .....	228.6	15,331	46.6	28.3	15.1	10.2	16.6	15.2	NA
2000 .....	243.3	15,924	49.1	29.5	15.3	10.8	17.7	17.1	NA
2001 .....	252.9	NA	50.1	30.2	NA	NA	19.1	19.9	NA

GDP gross domestic product

NA not available or not applicable

OECD Organisation for Economic Co-operation and Development

<sup>a</sup>Data on Japanese R&D in 1996 and later years may not be consistent with data in earlier years because of changes in methodology.<sup>b</sup>Data for 1981–90 are for West Germany.<sup>c</sup>Conversions of foreign currencies to U.S. dollars are calculated with each country's GDP implicit price deflator and with OECD purchasing power parity exchange rates.<sup>d</sup>Constant foreign currencies are based on deflation with each country's GDP implicit price deflator. Figures for Germany, France, and Italy are in euros.SOURCE: OECD, *Main Science and Technology Indicators* (Paris, 2002).