

**Table 8. International R&D expenditures (total and non-defense) in constant dollars and as a percentage of GDP: 1981-97**

Year	United States	Japan	Germany <sup>1</sup>	France	United Kingdom	Italy	Canada	United States	Japan	Germany <sup>1</sup>	France	United Kingdom	Italy	Canada
	Total R&D expenditures							Total <i>non-defense</i> R&D expenditures						
Billions of constant 1992 dollars <sup>2</sup>														
1981	109.29	34.99	23.81	16.83	17.57	6.99	5.30	81.41	34.83	22.95	13.38	13.66	6.77	5.15
1982	114.85	37.55	24.54	17.97	NA	7.23	5.73	82.55	37.38	23.69	14.46	NA	7.06	5.56
1983	122.61	40.49	24.98	18.49	17.05	7.67	5.78	86.25	40.31	24.05	15.24	13.12	7.45	5.61
1984	134.22	43.61	25.68	19.59	NA	8.38	6.32	93.88	43.25	24.70	16.14	NA	8.01	6.11
1985	145.56	48.35	28.31	20.37	18.45	9.58	6.85	100.36	48.00	27.07	16.87	14.56	9.09	6.62
1986	148.79	49.15	29.21	20.66	19.36	9.90	7.23	101.90	48.76	27.96	16.97	15.65	9.44	6.99
1987	151.50	52.54	31.30	21.51	19.72	10.71	7.28	103.34	52.07	29.92	17.51	16.18	10.31	7.02
1988	155.00	56.70	32.41	22.51	20.29	11.42	7.42	107.79	56.20	31.03	18.32	17.13	10.80	7.14
1989	157.76	62.08	33.85	23.97	20.93	12.00	7.57	113.79	61.55	32.37	19.70	17.61	11.38	7.31
1990	161.96	67.16	34.14	25.39	21.27	12.78	8.00	120.92	66.58	32.58	20.48	17.97	12.38	7.75
1991	164.94	68.58	36.48	25.67	19.58	13.23	8.10	127.83	67.94	35.04	21.15	16.57	12.74	7.90
1992	164.93	69.63	37.18	26.55	20.73	13.56	8.40	129.36	68.91	35.84	22.42	17.83	13.13	NA
1993	160.98	67.36	35.56	25.76	20.71	12.40	8.87	126.28	66.55	34.45	22.03	17.80	11.90	8.68
1994	160.59	66.41	35.48	25.20	20.68	11.79	9.18	128.58	65.63	34.35	21.73	17.99	11.30	NA
1995	170.14	70.64	35.41	25.19	19.87	11.80	9.30	138.35	69.74	34.22	NA	17.17	11.54	9.13
1996 prelim.	175.61	NA	33.07	NA	NA	11.64	9.31	144.38	NA	NA	NA	NA	NA	NA
1997 prelim.	182.22	NA	NA	NA	NA	NA	NA	151.68	NA	NA	NA	NA	NA	NA
As a percent of national GDP														
1981	2.32	2.13	2.43	1.97	2.37	0.88	1.25	1.73	2.12	2.34	1.57	1.84	0.85	1.21
1982	2.49	2.22	2.52	2.06	NA	0.91	1.40	1.79	2.21	2.44	1.66	NA	0.89	1.36
1983	2.55	2.35	2.52	2.11	2.19	0.95	1.37	1.80	2.34	2.43	1.74	1.69	0.93	1.33
1984	2.61	2.43	2.51	2.21	NA	1.01	1.41	1.83	2.41	2.42	1.82	NA	0.97	1.36
1985	2.74	2.58	2.72	2.25	2.23	1.13	1.45	1.89	2.56	2.60	1.87	1.76	1.07	1.41
1986	2.71	2.55	2.73	2.23	2.25	1.13	1.49	1.86	2.53	2.61	1.84	1.82	1.08	1.44
1987	2.68	2.62	2.88	2.27	2.19	1.19	1.44	1.83	2.60	2.75	1.85	1.79	1.15	1.39
1988	2.64	2.66	2.86	2.28	2.14	1.22	1.39	1.84	2.63	2.74	1.85	1.80	1.15	1.34
1989	2.60	2.77	2.87	2.33	2.15	1.24	1.39	1.88	2.75	2.75	1.92	1.81	1.18	1.34
1990	2.64	2.85	2.75	2.41	2.18	1.30	1.47	1.97	2.83	2.62	1.95	1.84	1.26	1.43
1991	2.71	2.82	2.61	2.41	2.11	1.32	1.52	2.10	2.79	2.51	1.98	1.79	1.27	1.49
1992	2.64	2.76	2.48	2.42	2.13	1.31	1.57	2.07	2.73	2.39	2.04	1.83	1.27	NA
1993	2.52	2.68	2.43	2.45	2.15	1.26	1.63	1.98	2.65	2.35	2.10	1.85	1.21	1.59
1994	2.43	2.64	2.33	2.38	2.11	1.16	1.62	1.95	2.60	2.25	2.05	1.84	1.11	NA
1995	2.52	2.78	2.28	2.34	2.05	1.14	1.61	2.05	2.74	2.20	NA	1.78	1.11	1.58
1996 prelim.	2.55	NA	2.26	NA	NA	1.13	1.59	2.10	NA	NA	NA	NA	NA	NA
1997 prelim.	2.59	NA	NA	NA	NA	NA	NA	2.15	NA	NA	NA	NA	NA	NA

<sup>1</sup> Germany's data for 1981-90 are for West Germany.

<sup>2</sup> Conversions of foreign currencies to U.S. dollars are calculated with OECD purchasing power parity exchange rates. Constant 1992 dollars are based on the U.S. GDP implicit price deflator.

Key: GDP = Gross Domestic Product; NA = not available

SOURCES: Organisation for Economic Co-operation and Development, Main Science and Technology Indicators data base (Paris, August 1997) and National Science Foundation/SRS.