

**Table 4A. National expenditures for Development: Performance by sector, broken down by sources of funds: 1990-97<sup>1</sup>**

(See the historical database provided in Table 7 for the full series of historical data, arranged by the same data columns as defined in this and other tables.)

Performing Sector:	Total U.S.	Federal Govt.	Industry			Industry FFRDCs	Universities & Colleges <sup>4</sup>						U&C FFRDCs	Other Nonprofit institutions				Nonprofit FFRDCs
			Funding Sector:	Federal Govt.	Total		Federal Govt. <sup>2</sup>	Industry <sup>3</sup>	Federal Govt. <sup>2</sup>	Total	Federal Govt.	Nonfed. Govt.		Industry	U&C	Non-Profits	Federal Govt. <sup>5</sup>	
Data Column Calendar Year <sup>6</sup>	[127]	[128]	[129]	[130]	[131]	[132]	[133]	[134]	[135]	[136]	[137]	[138]	[139]	[140]	[141]	[142]	[143]	[144]
			Millions of current dollars															
1990	94,118	9,700	78,376	18,966	59,410	1,438	1,359	871	97	82	221	87	1,735	1,019	619	125	275	490
1991 <sup>7</sup>	95,193	8,778	80,286	17,256	63,030	1,383	1,518	998	103	85	238	93	1,537	1,159	722	136	301	533
1992	99,894	9,098	84,569	17,181	67,388	1,373	1,580	1,045	103	89	244	98	1,452	1,223	758	143	322	599
1993	99,746	9,071	84,757	16,083	68,674	1,039	1,656	1,092	109	96	254	105	1,374	1,275	787	147	340	574
1994	103,005	8,877	87,890	16,209	71,681	1,196	1,765	1,171	111	101	271	111	1,380	1,324	814	153	357	574
1995	113,445	9,539	97,342	17,824	79,518	1,209	1,826	1,201	118	107	287	114	1,645	1,284	754	166	364	600
1996 prelim.	120,281	9,297	104,457	17,624	86,834	1,209	1,855	1,204	122	113	298	118	1,645	1,302	745	179	378	516
1997 prelim.	128,323	8,681	113,111	17,507	95,604	1,209	1,956	1,274	127	120	312	123	1,645	1,272	682	193	397	451
Data Column Calendar Year <sup>6</sup>	[145]	[146]	[147]	[148]	[149]	[150]	[151]	[152]	[153]	[154]	[155]	[156]	[157]	[158]	[159]	[160]	[161]	[162]
			Millions of constant 1992 dollars															
1990	100,512	10,359	83,700	20,254	63,446	1,536	1,451	931	104	88	236	93	1,853	1,088	661	133	294	523
1991 <sup>7</sup>	97,814	9,019	82,496	17,731	64,765	1,421	1,560	1,025	106	88	245	96	1,579	1,191	742	140	309	547
1992	99,894	9,098	84,569	17,181	67,388	1,373	1,580	1,045	103	89	244	98	1,452	1,223	758	143	322	599
1993	97,203	8,840	82,596	15,673	66,923	1,013	1,614	1,064	106	93	248	102	1,339	1,242	767	144	332	560
1994	98,139	8,458	83,738	15,443	68,295	1,140	1,681	1,115	106	96	258	106	1,315	1,261	775	146	341	546
1995	105,466	8,868	90,496	16,570	73,926	1,124	1,697	1,117	109	99	266	106	1,529	1,194	701	154	338	558
1996 prelim.	109,326	8,450	94,944	16,018	78,925	1,099	1,686	1,094	111	103	271	107	1,495	1,183	677	163	343	469
1997 prelim.	113,651	7,688	100,178	15,505	84,673	1,071	1,732	1,128	113	106	276	109	1,457	1,126	604	171	351	400

<sup>1</sup>The next updates of these data, covering the years 1953-98, along with technical notes explaining methodological issues of measurement, will be provided in NSF, *National Patterns of R&D Resources: 1998* (forthcoming).

<sup>2</sup>For 1953-63, development expenditures by industry FFRDCs were not separated out from total Federal support to the industrial sector for development. Thus, the figure for Federal support to industry for development includes support for development at industry FFRDCs for those years. The same is true for development by nonprofit FFRDCs in 1953-87, which is included in Federal support for development at nonprofit institutions for those years.

<sup>3</sup>Industry sources of industry R&D expenditures include all non-Federal sources of industry R&D expenditures.

<sup>4</sup>The breakdown of academic development performance by sources other than the Federal government has been estimated for all years.

<sup>5</sup>Includes all R&D expenditures of FFRDCs administered by academic institutions. In 1994, 99 percent of total funds used were from Federal sources.

<sup>6</sup>Expenditure levels for academic and Federal government performers are also in reference to calendar years, which represents a change from previous reporting in *National Patterns of R&D Resources*. These levels are approximations based on fiscal-year data. For academic expenditures, and Federal government expenditures starting in 1977, the calendar-year approximation is equal to 75 percent of the amount reported in the same fiscal year plus 25 percent of the amount reported in the subsequent fiscal year. For Federal government expenditures prior to 1977, the respective percentages are 50 and 50, since earlier fiscal years began on July 1 instead of October 1.

<sup>7</sup>Due to revisions in survey methodology and sampling of industrial R&D, data for 1991 and subsequent years may not be comparable to data for previous years. (See *National Patterns of R&D Resources: 1996* or *National Patterns of R&D Resources: 1998*, forthcoming.)

Key: FFRDCs=Federally Funded Research and Development Centers; U&C=universities and colleges

NOTES: Data are based on annual reports by performers except for the nonprofit sector; R&D expenditures by nonprofit sector performers have been estimated since 1973 on the basis of a survey conducted in that year. Data are preliminary for 1996 and 1997. The procedure for estimating the breakdown of industry R&D into basic research, applied research, and development was revised for 1986 and later years.

SOURCES: National Science Foundation/SRS. Data were derived from NSF/SRS, Research and Development in Industry 1995; NSF/SRS, Academic Science/Engineering: R&D Expenditures, Fiscal Year 1995; NSF/SRS, Federal Funds for Research and Development; Fiscal Years 1995, 1996, and 1997; industry data available in Standard and Poors Compustat; and an independent survey conducted by the Industrial Research Institute.