

**Table 3B. National expenditures for Applied Research: Sources of funds by sector, broken down by performers that use those 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.)

Funding Sector: Performing Sector	Total U.S.	Federal Government								Industry				U&Cs	Nonprofits			Nonfed. Govt. <sup>6</sup>
	Total U.S.	Total	Federal Govt.	Industry <sup>2</sup>	FFRDCs <sup>2</sup>	U&Cs	FFRDCs <sup>3</sup>	Non-profits <sup>2</sup>	Nonprofit FFRDCs <sup>2</sup>	Total	Industry <sup>4</sup>	U&Cs <sup>5</sup>	Non-profits	U&Cs <sup>5</sup>	Total	Non-Profits	U&Cs <sup>5</sup>	U&Cs <sup>5</sup>
Data Column Calendar Year <sup>7</sup>	[85]	[121]	[86]	[88]	[90]	[92]	[97]	[99]	[102]	[122]	[89]	[94]	[100]	[95]	[123]	[101]	[96]	[93]
		Millions of current dollars																
1990	34,981	13,702	3,652	5,967	386	2,147	689	780	81	19,018	18,432	374	212	1,008	810	413	397	443
1991 <sup>8</sup>	38,699	14,224	4,094	5,588	433	2,176	927	921	86	22,045	21,425	389	231	1,085	875	451	424	470
1992	37,995	13,650	4,337	4,476	507	2,375	940	933	81	21,834	21,184	406	243	1,111	929	483	446	471
1993	37,318	14,033	4,838	4,295	435	2,500	962	900	103	20,643	19,956	437	251	1,157	990	511	479	495
1994	36,615	13,741	5,006	3,616	503	2,565	981	957	112	20,091	19,372	459	260	1,235	1,042	536	506	507
1995	40,927	13,499	5,054	3,164	535	2,687	979	951	129	24,524	23,755	486	282	1,305	1,063	546	517	536
1996 prelim.	43,353	13,576	5,000	3,125	535	2,814	979	1,012	111	26,760	25,940	515	304	1,360	1,102	567	535	555
1997 prelim.	46,208	13,618	5,083	3,102	535	2,869	979	940	110	29,434	28,560	545	329	1,420	1,155	595	560	580
Data Column Calendar Year <sup>7</sup>	[103]	[124]	[104]	[106]	[108]	[110]	[115]	[117]	[120]	[125]	[107]	[112]	[118]	[113]	[126]	[119]	[114]	[111]
		Millions of constant 1992 dollars																
1990	37,357	14,633	3,900	6,372	412	2,293	736	832	87	20,310	19,684	399	227	1,076	865	441	424	473
1991 <sup>8</sup>	39,765	14,616	4,206	5,742	445	2,236	952	946	89	22,652	22,015	400	238	1,115	899	463	435	483
1992	37,995	13,650	4,337	4,476	507	2,375	940	933	81	21,834	21,184	406	243	1,111	929	483	446	471
1993	36,367	13,675	4,715	4,186	424	2,436	938	877	100	20,117	19,447	425	244	1,128	965	498	467	483
1994	34,886	13,091	4,770	3,445	479	2,444	935	912	106	19,142	18,457	437	247	1,177	993	511	482	483
1995	38,049	12,550	4,698	2,941	497	2,498	911	884	120	22,799	22,084	452	262	1,214	988	507	481	498
1996 prelim.	39,404	12,339	4,545	2,840	486	2,557	890	919	101	24,323	23,578	469	276	1,236	1,002	515	487	504
1997 prelim.	40,924	12,061	4,502	2,748	474	2,541	867	832	97	26,069	25,295	483	291	1,258	1,023	527	496	514

<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, applied research of industry FFRDCs were not separated out from total Federal support to the industrial sector for applied research. Thus, the figure for Federal support to industry for applied research includes support for applied research at industry FFRDCs for those years. The same is true for applied research by nonprofit FFRDCs in 1953-87, which is included in Federal support for applied research at nonprofit institutions for those years.

<sup>3</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>4</sup> Industry sources of industry R&D expenditures include all non-Federal sources of industry R&D expenditures.

<sup>5</sup> The breakdown of academic applied research performance by sources other than the Federal government has been estimated for all years.

<sup>6</sup> Because of limitations in the survey information, data on nonfederal government funding to other performers are not available, and are consequently included in other sectors' support for their own R&D performance. For example, nonfederal government support to nonprofits is included in nonprofits' support for their own R&D (data column[17]).

<sup>7</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>8</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.