

TABLE 4. U.S. development expenditures, by performing sector and source of funds: 1953–2007

Year	All performers		Federal	Industry <sup>a</sup>			Industry FFRDCs <sup>b</sup>		U&C <sup>c</sup>				U&C FFRDCs		Other nonprofit			Nonprofit FFRDCs <sup>d</sup>	
	Performer:	All		Total	Federal <sup>b</sup>	Industry <sup>e</sup>	Total	Total	Federal	Other			Total	Total	Federal <sup>d</sup>	Industry	Other	Total	
	Funding source:	sources	Other government <sup>f</sup>							Industry	U&C	Other nonprofit							Other nonprofit
	Current \$millions																		
1953		3,412	567	2,753	1,123	1,630	NA	16	9	3	1	3	1	48	29	17	6	6	NA
1954		3,734	537	3,090	1,405	1,685	NA	17	9	3	1	3	1	59	32	18	7	7	NA
1955		4,189	543	3,523	1,785	1,738	NA	21	12	4	2	3	1	69	34	19	8	7	NA
1956		5,855	631	5,084	2,817	2,267	NA	25	14	4	2	4	2	81	35	20	8	7	NA
1957		6,681	728	5,790	3,616	2,174	NA	26	12	5	3	4	2	101	37	21	8	8	NA
1958		7,214	842	6,183	3,942	2,241	NA	28	13	6	3	4	2	120	42	25	8	9	NA
1959		8,463	940	7,307	4,750	2,557	NA	31	16	6	3	5	2	134	51	32	9	10	NA
1960		9,360	1,003	8,104	5,169	2,935	NA	35	19	6	3	5	2	151	69	49	10	10	NA
1961		9,930	1,090	8,536	5,347	3,189	NA	38	22	7	2	5	2	170	97	73	10	14	NA
1962		10,115	1,227	8,526	5,280	3,246	NA	40	23	8	2	6	2	190	132	103	11	18	NA
1963		11,540	1,465	9,651	6,116	3,535	NA	40	22	8	2	6	2	219	165	134	11	20	NA
1964		12,506	1,680	10,004	6,156	3,848	359	49	30	8	2	7	3	227	188	159	11	18	NA
1965		13,215	1,789	10,637	6,218	4,419	298	71	48	9	2	8	4	207	215	183	12	20	NA
1966		14,490	1,886	11,810	6,849	4,961	271	87	61	9	2	10	5	200	236	199	14	23	NA
1967		15,332	1,943	12,539	6,795	5,744	302	93	66	9	3	10	7	208	247	208	15	24	NA
1968		16,154	1,904	13,370	7,044	6,326	293	102	72	8	4	9	9	226	259	217	16	26	NA
1969		17,051	2,016	14,071	6,944	7,127	332	110	80	7	5	8	10	246	277	231	18	28	NA
1970		16,925	2,258	13,698	6,232	7,466	340	112	84	6	5	7	10	249	268	220	18	30	NA
1971		17,399	2,473	13,924	6,167	7,757	391	98	69	8	4	9	9	267	246	194	19	33	NA
1972		18,743	2,639	15,043	6,533	8,510	402	101	63	12	4	14	9	291	267	213	19	35	NA
1973		20,197	2,657	16,394	6,621	9,773	399	126	71	18	5	20	13	296	326	268	20	38	NA
1974		21,504	2,765	17,421	6,553	10,868	479	141	75	20	7	25	15	321	377	314	22	42	NA
1975		22,706	2,890	18,352	6,783	11,569	535	156	83	22	8	27	16	373	400	330	23	47	NA
1976		25,085	2,972	20,412	7,522	12,890	654	182	100	24	12	31	16	447	418	341	25	52	NA
1977		27,667	3,188	22,603	8,275	14,328	675	254	153	28	15	40	19	503	444	359	27	58	NA
1978		31,056	3,676	25,216	8,756	16,460	753	373	254	32	15	49	24	542	496	403	30	64	NA
1979		35,445	3,944	29,033	9,888	19,145	810	469	336	34	16	56	28	603	586	483	32	71	NA
1980		40,765	4,072	33,848	10,957	22,891	882	518	362	38	19	68	31	719	726	612	35	79	NA
1981		46,305	4,530	38,547	12,791	25,756	950	568	386	44	24	80	35	778	485	360	37	88	447
1982		51,879	5,178	43,434	14,215	29,219	989	597	397	46	27	88	39	745	500	362	40	98	436
1983		57,771	6,106	48,064	15,522	32,542	1,054	617	399	47	31	97	43	832	599	447	44	109	500
1984		66,461	7,078	55,371	17,640	37,731	1,056	677	435	51	37	108	47	986	762	594	47	120	530
1985		74,522	8,011	62,020	20,258	41,762	1,102	756	486	57	43	120	49	1,244	829	644	51	134	560
1986		75,855	8,275	62,871	21,517	41,354	1,145	818	513	65	50	136	53	1,504	790	587	55	149	453

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Year	All performers		Federal	Industry <sup>a</sup>			Industry FFRDCs <sup>b</sup>		U&C <sup>c</sup>				U&C FFRDCs		Other nonprofit			Nonprofit FFRDCs <sup>d</sup>	
	Performer: Funding source:	All sources		Total	Federal <sup>b</sup>	Industry <sup>e</sup>	Total	Total	Federal	Other government <sup>f</sup>	Industry	U&C	Other nonprofit	Total	Total	Federal <sup>d</sup>	Industry	Other nonprofit	Total
	1987		79,929	8,176	66,789	24,122	42,667	1,230	945	599	73	57	155	61	1,670	698	474	60	165
1988		84,566	8,864	70,353	23,719	46,634	1,414	1,098	698	83	66	180	71	1,762	655	407	65	183	420
1989		87,723	9,355	72,725	21,049	51,676	1,423	1,227	773	92	76	205	81	1,782	780	507	70	203	430
1990		94,067	9,700	78,376	18,966	59,410	1,438	1,407	909	99	83	226	89	1,735	920	619	75	226	490
1991		95,104	8,778	80,286	17,256	63,030	1,383	1,533	1,011	103	86	239	94	1,537	1,054	722	82	251	533
1992		99,810	9,098	84,569	17,181	67,388	1,372	1,595	1,054	105	91	246	100	1,452	1,125	758	88	279	599
1993		99,704	9,071	84,757	16,083	68,674	1,038	1,698	1,126	109	97	259	107	1,374	1,191	787	95	309	574
1994		102,936	8,823	87,890	16,209	71,681	1,196	1,815	1,212	114	102	276	112	1,378	1,261	815	103	343	573
1995		113,077	9,262	97,342	17,824	79,518	1,208	1,810	1,178	123	108	288	113	1,616	1,236	744	111	381	603
1996		121,375	9,033	105,863	17,066	88,797	1,358	1,790	1,127	128	115	305	115	1,520	1,241	698	120	423	571
1997		128,676	9,077	113,184	18,121	95,063	1,292	1,707	1,055	121	114	305	112	1,454	1,378	687	155	536	585
1998		144,735	9,214	129,041	18,452	110,589	1,280	1,629	985	115	114	302	112	1,527	1,537	760	168	609	507
1999		154,069	8,974	138,807	16,571	122,236	1,208	1,391	711	120	119	321	120	1,636	1,586	727	188	671	467
2000		167,863	8,047	153,745	13,510	140,235	1,185	1,177	452	126	121	348	130	1,539	1,537	517	214	807	632
2001		165,245	9,114	149,952	12,542	137,410	534	1,272	502	132	121	377	140	1,637	1,793	675	217	902	945
2002		174,157	9,501	157,788	13,061	144,727	625	1,353	528	142	120	409	154	1,703	2,156	890	207	1,059	1,031
2003		172,509	10,416	155,060	11,939	143,121	725	1,555	678	157	122	437	162	1,798	1,853	485	214	1,155	1,102
2004		173,354	10,692	155,034	14,419	140,615	801	1,776	878	163	123	447	166	2,008	1,830	459	220	1,151	1,212
2005		192,647	12,039	172,208	15,512	156,696	979	1,899	974	161	127	467	170	2,140	2,145	609	240	1,297	1,238
2006		209,362	12,682	188,112	16,720	171,392	985	1,951	970	166	137	500	179	2,180	2,192	546	263	1,383	1,259
2007 preliminary		222,470	12,037	201,547	16,820	184,726	995	2,010	958	175	151	534	192	2,236	2,242	409	284	1,549	1,403
2000 constant \$millions																			
1953		18,703	3,106	15,093	6,157	8,936	NA	88	47	16	5	14	5	260	156	90	33	33	NA
1954		20,256	2,913	16,763	7,622	9,141	NA	92	46	19	5	17	5	317	171	95	38	38	NA
1955		22,390	2,900	18,831	9,541	9,290	NA	112	61	20	8	17	5	369	179	99	43	37	NA
1956		30,240	3,257	26,260	14,551	11,710	NA	129	70	23	10	19	8	416	178	101	41	36	NA
1957		33,340	3,630	28,894	18,045	10,849	NA	130	60	26	12	21	10	504	182	102	40	40	NA
1958		35,167	4,102	30,143	19,218	10,925	NA	134	61	28	15	21	10	585	202	119	39	44	NA
1959		40,778	4,529	35,208	22,887	12,321	NA	149	75	29	14	22	10	646	246	154	43	48	NA
1960		44,478	4,764	38,510	24,563	13,947	NA	164	90	30	12	22	10	715	326	230	48	48	NA
1961		46,659	5,120	40,111	25,126	14,985	NA	176	101	32	9	24	9	796	456	343	47	66	NA
1962		46,887	5,688	39,523	24,476	15,047	NA	185	104	36	9	27	9	881	610	475	51	83	NA
1963		52,931	6,720	44,269	28,054	16,215	NA	183	101	36	9	28	9	1,002	757	615	50	92	NA
1964		56,501	7,590	45,197	27,812	17,385	1,622	219	133	36	9	30	11	1,023	849	718	50	81	NA
1965		58,634	7,935	47,196	27,589	19,607	1,322	313	213	38	9	35	18	916	952	810	53	89	NA

TABLE 4. U.S. development expenditures, by performing sector and source of funds: 1953–2007

Year	All		Federal	Industry				U&C				Other nonprofit				Nonprofit FFRDCs <sup>d</sup>			
	Performer:	performers		Industry <sup>a</sup>		FFRDCs <sup>b</sup>		U&C <sup>c</sup>		FFRDCs		Other nonprofit							
	Funding source:	All sources		Total	Federal <sup>b</sup>	Industry <sup>e</sup>	Total	Total	Federal	Other government <sup>f</sup>	Industry	U&C	Other nonprofit	Total	Total		Federal <sup>d</sup>	Industry	Other nonprofit
1966		62,509	8,136	50,949	29,547	21,402	1,169	375	263	40	9	42	22	863	1,016	856	60	99	NA
1967		64,157	8,131	52,471	28,435	24,036	1,264	389	274	36	10	42	27	870	1,032	868	63	100	NA
1968		64,832	7,642	53,660	28,271	25,389	1,176	407	287	31	16	37	36	907	1,039	871	64	104	NA
1969		65,196	7,707	53,803	26,551	27,251	1,269	419	304	27	19	30	38	941	1,057	881	69	107	NA
1970		61,460	8,199	49,742	22,631	27,112	1,235	407	303	23	18	26	36	904	973	799	65	109	NA
1971		60,169	8,551	48,153	21,327	26,826	1,352	339	239	27	14	30	29	923	851	671	66	114	NA
1972		62,123	8,748	49,859	21,653	28,206	1,332	335	207	41	12	45	30	965	885	706	63	116	NA
1973		63,404	8,342	51,466	20,785	30,681	1,253	394	221	55	16	63	39	928	1,022	840	63	119	NA
1974		61,935	7,965	50,174	18,873	31,301	1,380	405	215	58	19	71	43	925	1,087	903	62	122	NA
1975		59,741	7,604	48,286	17,847	30,439	1,408	411	217	58	21	72	42	980	1,053	868	62	123	NA
1976		62,398	7,392	50,774	18,711	32,063	1,627	453	248	60	29	77	40	1,112	1,041	848	63	130	NA
1977		64,707	7,456	52,863	19,353	33,510	1,579	594	358	65	34	94	43	1,177	1,039	840	64	135	NA
1978		67,864	8,034	55,102	19,134	35,969	1,645	815	555	70	32	107	51	1,184	1,085	880	65	140	NA
1979		71,530	7,959	58,590	19,954	38,635	1,635	947	679	69	31	113	56	1,218	1,182	974	65	144	NA
1980		75,404	7,533	62,610	20,267	42,342	1,631	958	669	70	36	125	57	1,329	1,343	1,132	64	147	NA
1981		78,314	7,662	65,192	21,633	43,560	1,607	960	653	74	40	135	59	1,316	820	608	63	149	756
1982		82,692	8,253	69,231	22,658	46,573	1,576	951	634	73	42	141	62	1,187	798	577	64	156	696
1983		88,588	9,362	73,702	23,802	49,900	1,616	947	612	72	48	149	65	1,275	919	686	67	166	766
1984		98,222	10,461	81,832	26,070	55,762	1,561	1,001	643	76	54	159	69	1,457	1,127	879	70	178	784
1985		106,881	11,489	88,951	29,055	59,896	1,581	1,085	697	82	62	172	71	1,784	1,189	924	73	192	803
1986		106,435	11,611	88,216	30,191	58,025	1,607	1,147	720	92	71	191	74	2,110	1,109	823	78	208	635
1987		109,186	11,168	91,237	32,952	58,285	1,680	1,290	818	100	78	212	83	2,281	954	647	82	225	575
1988		111,704	11,709	92,929	31,330	61,599	1,868	1,450	922	109	88	237	94	2,328	865	538	85	242	555
1989		111,651	11,907	92,562	26,790	65,771	1,811	1,561	984	116	97	261	103	2,268	993	645	89	259	548
1990		115,258	11,886	96,033	23,239	72,794	1,762	1,724	1,114	122	101	277	109	2,126	1,128	758	92	277	601
1991		112,606	10,393	95,061	20,432	74,630	1,638	1,815	1,197	122	102	283	111	1,819	1,249	855	97	297	631
1992		115,518	10,529	97,879	19,885	77,994	1,588	1,847	1,220	122	105	284	115	1,680	1,302	877	102	322	693
1993		112,800	10,263	95,890	18,195	77,694	1,174	1,922	1,274	123	110	293	121	1,554	1,348	890	108	350	650
1994		114,038	9,775	97,369	17,957	79,412	1,325	2,011	1,343	126	113	305	124	1,527	1,397	903	114	381	634
1995		122,757	10,055	105,674	19,350	86,325	1,311	1,965	1,279	133	118	312	123	1,754	1,342	807	121	414	655
1996		129,317	9,624	112,789	18,183	94,607	1,447	1,907	1,201	136	123	325	122	1,619	1,322	743	128	451	608
1997		134,859	9,513	118,623	18,992	99,631	1,354	1,789	1,105	127	119	319	118	1,524	1,444	720	162	562	613
1998		150,024	9,551	133,756	19,126	114,630	1,327	1,689	1,021	120	118	313	117	1,583	1,593	788	175	631	526
1999		157,425	9,170	141,831	16,932	124,899	1,234	1,421	727	122	121	328	123	1,672	1,621	743	192	686	477
2000		167,863	8,047	153,745	13,510	140,235	1,185	1,177	452	126	121	348	130	1,539	1,537	517	214	807	632

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Year	All performers		Federal	Industry <sup>a</sup>				U&C <sup>c</sup>				Other nonprofit			Nonprofit FFRDCs <sup>d</sup>				
	Performer: Funding source:	All sources		Total	Federal <sup>b</sup>	Industry <sup>e</sup>	Total	Total	Federal	Other government <sup>f</sup>	Industry	U&C	Other nonprofit	Total		Federal <sup>d</sup>	Industry	Other nonprofit	
	2001		161,369	8,900	146,435	12,248	134,187	521	1,242	490	129	118	368	137	1,598	1,751	659	212	880
2002		167,148	9,119	151,438	12,535	138,903	600	1,298	506	137	115	392	147	1,635	2,069	854	199	1,016	989
2003		162,119	9,789	145,721	11,220	134,501	681	1,461	637	147	114	410	152	1,690	1,742	455	201	1,085	1,036
2004		158,369	9,768	141,633	13,173	128,460	732	1,623	802	148	113	408	152	1,835	1,672	419	201	1,052	1,107
2005		170,477	10,653	152,390	13,727	138,663	866	1,680	862	142	113	413	151	1,894	1,898	538	212	1,148	1,096
2006		179,605	10,880	161,375	14,344	147,032	845	1,674	832	142	117	429	153	1,870	1,881	469	226	1,186	1,080
2007 preliminary		185,878	10,058	168,396	14,054	154,342	831	1,680	801	146	127	446	161	1,868	1,873	342	237	1,294	1,173

NA = not available, included in figures for federal support to industry and federal support to nonprofit institutions; FFRCD = federally funded research and development center; U&C = universities and colleges.

<sup>a</sup> Character-of-work estimates for industry have been revised for 1998 and later years; the data are not directly comparable with data for 1997 and earlier years.

<sup>b</sup> Character-of-work estimates for industry FFRDCs for 1953–63 were not separated from federal support for industry; thus, figures for federal support to industry includes support to FFRDCs for those years.

<sup>c</sup> For 1998 and later years, character-of-work estimation procedure has been revised, and adjustments have been made to U&C R&D to eliminate double counting of funds passed through from one academic institution to another. Data for 1998 and later years are not directly comparable with data for 1997 and earlier years.

<sup>d</sup> Character-of-work estimates for nonprofit FFRDCs for 1953–80 were not separated from federal support for other nonprofits; thus, figure for federal support to other nonprofit institutions includes support to FFRDCs for those years.

<sup>e</sup> Industry sources of funds for industry R&D expenditures include all nonfederal sources of industry funds for R&D expenditures.

<sup>f</sup> Because of limitations in survey information, data on other government funding to performers other than universities and colleges are not available and consequently are included in other sectors' support for their own R&D performance, e.g., other government support to other nonprofits is included in other nonprofit support for their own R&D.

NOTES: Technical notes explaining methodological issues of measurement are available on request. Data are based on annual reports by performers, except for the nonprofit sector. The R&D expenditures of FFRDCs are chiefly federal funds, but any nonfederal funds are also included in the totals. For trend comparisons, use only the historical data reported here; do not use data published earlier. Expenditures for industry and, prior to 2001, for industry-administered FFRDCs are collected by calendar year. Expenditures for other performers are calendar-year approximations based on fiscal year data. In most cases, the approximation equals 75% of the amount reported in the same fiscal year plus 25% of amount reported in the subsequent fiscal year. However, the fiscal year for academic performers generally begins July 1, not October 1; also, prior to 1977, the federal fiscal year began on July 1, not October 1. Therefore, calendar-year approximations for academic performers and for federal performers prior to 1977 equal 50% of the amount reported in the same fiscal year plus 50% of the amount reported in the subsequent fiscal year. Detail may not add to total because of rounding. Constant dollar estimates are derived from unrounded data.

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), *Research and Development in Industry 2006* (forthcoming); NSF/SRS, *Academic Research and Development Expenditures: FY 2006* (forthcoming); NSF/SRS, *Federal Funds for Research and Development: FY 2005–07* (forthcoming); NSF/SRS, *Research and Development Funding and Performance by Nonprofit Organizations: FY 1996–97* (NSF 02-303). All NSF/SRS reports are available at <http://www.nsf.gov/statistics/>.