

TABLE 2. U.S. basic research expenditures, by performing sector and source of funds: 1953–2006

Year	Performing sector:		Industry					U&C ^c						Other nonprofit			Nonprofit		
	Total	Federal	Industry ^a		FFRDCs ^b	U&C ^c			FFRDCs			Other nonprofit			FFRDCs ^d				
	Source of funds:	Total	Federal	Total	Federal ^b	Industry ^e	Total	Total	Federal	Other government ^f	Industry	U&C	Other nonprofit	Total	Total	Federal ^d	Industry	Other nonprofit	Total
Current \$millions																			
1953		460	102	151	19	132	NA	123	82	7	13	6	16	36	48	27	9	12	NA
1954		509	96	166	23	143	NA	148	97	10	15	8	18	44	55	31	11	13	NA
1955		579	98	189	27	162	NA	180	117	14	17	12	21	50	63	36	13	14	NA
1956		718	114	253	37	216	NA	220	143	19	20	15	24	58	74	42	15	17	NA
1957		814	124	271	41	230	NA	261	167	25	23	20	27	72	87	49	15	23	NA
1958		944	149	295	43	252	NA	312	202	31	24	24	31	85	103	59	16	28	NA
1959		1,087	165	320	72	248	NA	388	263	38	24	28	36	95	120	72	18	30	NA
1960		1,286	184	376	79	297	NA	485	341	45	25	33	41	106	136	85	21	30	NA
1961		1,512	230	395	81	314	NA	598	432	54	25	40	48	126	164	105	22	37	NA
1962		1,824	252	488	143	345	NA	737	546	64	25	48	55	148	200	130	24	46	NA
1963		2,115	285	522	147	375	NA	909	689	75	25	58	63	175	225	150	25	50	NA
1964		2,396	339	507	123	384	42	1,071	824	84	25	70	68	200	238	166	25	47	NA
1965		2,664	375	563	157	406	29	1,221	944	94	27	86	70	218	260	179	29	52	NA
1966		2,930	410	593	142	451	31	1,380	1,066	104	29	106	75	239	278	188	32	58	NA
1967		3,168	434	595	168	427	34	1,554	1,188	114	34	136	83	263	289	194	34	61	NA
1968		3,376	482	607	145	462	35	1,681	1,265	131	38	156	91	276	296	196	37	63	NA
1969		3,491	545	581	123	458	37	1,754	1,288	153	40	171	103	272	302	192	43	67	NA
1970		3,594	562	566	122	444	36	1,855	1,323	179	43	196	115	265	311	195	44	72	NA
1971		3,720	581	557	101	456	33	1,968	1,385	194	50	214	127	252	329	207	45	77	NA
1972		3,850	603	554	91	463	39	2,038	1,437	195	55	216	134	270	347	216	47	84	NA
1973		4,099	652	595	96	499	36	2,103	1,489	196	59	223	137	343	371	232	49	90	NA
1974		4,511	715	650	114	536	49	2,282	1,609	204	66	250	153	415	401	245	54	102	NA
1975		4,875	760	677	104	573	53	2,480	1,768	212	72	264	164	476	430	255	59	116	NA
1976		5,373	850	750	116	634	69	2,675	1,924	218	75	283	175	556	474	278	65	131	NA
1977		6,008	943	836	135	701	75	2,967	2,114	232	89	334	198	667	521	301	72	148	NA
1978		6,959	1,044	941	156	785	94	3,376	2,399	260	107	398	213	906	598	351	79	168	NA
1979		7,836	1,112	1,054	161	893	104	3,828	2,719	286	128	466	229	1,050	689	413	87	190	NA
1980		8,745	1,212	1,205	170	1,035	120	4,315	3,061	307	156	544	248	1,167	726	416	95	215	NA
1981		9,658	1,343	1,477	164	1,313	137	4,737	3,331	338	183	615	269	1,284	671	324	105	243	9
1982		10,651	1,522	1,776	253	1,523	128	5,091	3,475	368	215	716	317	1,366	759	369	115	275	9
1983		11,880	1,733	2,106	346	1,760	117	5,518	3,689	396	260	816	358	1,536	863	426	127	311	8
1984		13,332	1,877	2,472	340	2,132	136	6,145	4,087	436	313	915	395	1,709	984	494	139	351	9
1985		14,748	1,947	2,731	358	2,373	131	7,024	4,606	514	389	1,075	440	1,793	1,110	560	153	397	13
1986		17,154	2,026	3,930	434	3,496	117	7,943	5,122	606	466	1,262	488	1,915	1,210	594	168	449	13
1987		18,481	2,047	4,181	598	3,583	142	8,644	5,527	659	514	1,399	545	2,086	1,367	675	185	507	14
1988		19,786	2,116	4,163	656	3,507	337	9,343	5,937	705	565	1,529	607	2,272	1,531	756	203	573	24
1989		21,889	2,309	4,818	986	3,832	398	10,218	6,422	766	637	1,714	680	2,371	1,730	860	223	647	46
1990		23,028	2,319	4,629	869	3,760	499	11,125	6,888	847	705	1,929	756	2,470	1,922	947	245	730	65
1991		27,139	2,378	7,376	1,251	6,125	461	12,061	7,423	912	764	2,127	836	2,657	2,129	1,036	269	825	77
1992		27,604	2,419	6,528	712	5,816	474	12,910	8,058	941	814	2,202	893	2,867	2,340	1,114	295	931	67

TABLE 2. U.S. basic research expenditures, by performing sector and source of funds: 1953–2006

Year	Performing sector: Source of funds:	Total	Federal	Industry					U&C ^c					Other nonprofit			Nonprofit FFRDCs ^d		
				Industry ^a		FFRDCs ^b	U&C ^c			FFRDCs	Other nonprofit		Other						
				Total	Federal ^b		Total	Total	Federal		Other government ^f	Industry		U&C	Total	Total		Federal ^d	Industry
1993		28,742	2,621	6,427	466	5,961	492	13,645	8,638	952	851	2,268	936	2,953	2,532	1,157	324	1,051	72
1994		29,649	2,547	6,514	436	6,078	503	14,399	9,139	991	889	2,406	974	2,934	2,678	1,137	356	1,186	75
1995		29,609	2,689	5,569	190	5,379	530	15,145	9,634	1,069	945	2,510	987	2,702	2,899	1,170	390	1,338	75
1996		32,797	2,680	7,498	650	6,848	708	16,040	10,092	1,149	1,032	2,739	1,028	2,606	3,187	1,248	428	1,510	79
1997		36,915	2,746	9,795	1,029	8,766	625	17,648	10,920	1,248	1,175	3,144	1,161	2,671	3,322	1,317	449	1,557	108
1998		35,331	3,003	5,853	1,002	4,851	568	19,320	11,895	1,330	1,315	3,483	1,296	2,660	3,715	1,461	489	1,766	213
1999		38,872	3,347	6,645	1,108	5,537	557	20,935	12,802	1,433	1,422	3,837	1,442	2,765	4,226	1,734	546	1,946	397
2000		42,763	3,765	7,040	925	6,115	547	22,860	13,912	1,549	1,499	4,296	1,603	2,874	5,061	2,099	621	2,341	616
2001		47,785	4,260	8,053	754	7,299	552	25,192	15,515	1,661	1,518	4,733	1,765	3,104	5,709	2,464	629	2,616	915
2002		51,400	4,511	7,547	888	6,659	534	27,867	17,635	1,765	1,492	5,070	1,905	3,714	6,249	2,575	602	3,072	979
2003		55,109	4,664	8,330	1,386	6,944	299	30,354	19,823	1,880	1,461	5,246	1,943	3,747	6,686	2,714	621	3,351	1,029
2004		56,670	4,734	7,835	1,072	6,763	175	32,397	21,380	1,991	1,513	5,479	2,035	3,729	6,728	2,749	639	3,340	1,071
2005 preliminary		60,157	4,921	8,500	1,163	7,337	135	34,437	22,734	2,074	1,602	5,830	2,197	3,780	7,215	2,756	695	3,764	1,169
2006 preliminary		63,648	4,938	9,078	1,191	7,887	128	36,887	24,524	2,189	1,661	6,164	2,349	3,746	7,697	2,768	749	4,181	1,173
2000 constant \$millions																			
1953		2,519	556	828	104	723	NA	674	447	36	71	33	88	197	263	148	49	66	NA
1954		2,761	521	901	125	776	NA	801	524	52	81	46	98	239	299	168	60	71	NA
1955		3,089	520	1,008	144	864	NA	958	621	74	91	62	109	267	336	192	69	75	NA
1956		3,702	585	1,304	191	1,114	NA	1,134	735	98	101	80	121	299	379	214	77	88	NA
1957		4,060	619	1,352	205	1,148	NA	1,300	831	124	112	98	135	357	432	242	75	115	NA
1958		4,603	727	1,439	210	1,229	NA	1,522	985	152	117	117	151	415	500	285	78	137	NA
1959		5,238	793	1,542	347	1,195	NA	1,870	1,265	181	116	137	171	455	578	347	87	145	NA
1960		6,112	872	1,787	375	1,412	NA	2,303	1,618	214	116	159	195	504	646	404	100	143	NA
1961		7,104	1,079	1,856	381	1,476	NA	2,808	2,028	252	117	187	223	590	771	493	103	174	NA
1962		8,457	1,168	2,263	663	1,600	NA	3,415	2,529	295	116	222	253	684	927	603	111	213	NA
1963		9,704	1,305	2,395	674	1,720	NA	4,168	3,161	344	112	264	287	803	1,032	688	115	229	NA
1964		10,827	1,532	2,291	556	1,735	190	4,837	3,721	381	113	315	307	901	1,075	750	113	212	NA
1965		11,822	1,662	2,498	697	1,802	129	5,416	4,187	419	118	382	311	965	1,152	792	129	231	NA
1966		12,642	1,769	2,559	613	1,946	134	5,954	4,599	447	125	459	324	1,029	1,197	809	138	250	NA
1967		13,257	1,814	2,490	703	1,787	142	6,502	4,970	477	140	568	347	1,101	1,207	810	142	255	NA
1968		13,551	1,935	2,436	582	1,854	140	6,745	5,078	525	151	627	365	1,106	1,188	787	149	253	NA
1969		13,350	2,085	2,222	470	1,752	141	6,706	4,924	585	151	655	392	1,040	1,155	734	164	256	NA
1970		13,053	2,041	2,056	443	1,613	131	6,737	4,803	651	156	711	416	961	1,128	706	160	262	NA
1971		12,868	2,010	1,927	349	1,577	114	6,807	4,789	670	171	740	438	872	1,138	716	156	266	NA
1972		12,763	1,997	1,837	302	1,535	129	6,754	4,764	648	182	716	444	895	1,150	716	156	278	NA
1973		12,872	2,047	1,868	301	1,567	113	6,603	4,674	617	184	701	429	1,077	1,163	727	154	283	NA
1974		12,989	2,058	1,872	328	1,544	141	6,570	4,633	587	190	720	439	1,194	1,154	706	155	294	NA
1975		12,828	1,999	1,782	274	1,508	139	6,525	4,653	559	188	694	432	1,251	1,131	671	156	304	NA
1976		13,367	2,115	1,866	289	1,577	172	6,654	4,786	542	187	705	434	1,383	1,178	690	162	325	NA
1977		14,054	2,205	1,955	316	1,640	175	6,939	4,945	542	208	782	462	1,560	1,219	705	168	346	NA

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Year	Performing sector: Source of funds:	Total	Federal	Industry				U&C ^c				U&C FFRDCs			Other nonprofit			Nonprofit FFRDCs ^d	
				Industry ^a		Industry ^e	FFRDCs ^b	U&C ^c			Other nonprofit	Total	Other nonprofit		Total				
				Total	Federal ^b			Total	Total	Federal			Other government ^f	Industry		U&C	Federal ^d	Industry	Other nonprofit
1978		15,208	2,282	2,057	341	1,716	205	7,378	5,243	568	233	870	464	1,979	1,306	768	172	366	NA
1979		15,816	2,245	2,127	325	1,802	210	7,725	5,488	577	257	941	462	2,118	1,391	833	175	383	NA
1980		16,181	2,243	2,230	315	1,915	222	7,984	5,663	568	288	1,006	459	2,158	1,343	769	176	397	NA
1981		16,336	2,271	2,498	277	2,221	232	8,012	5,634	572	309	1,041	456	2,172	1,136	548	177	411	15
1982		16,980	2,426	2,831	403	2,428	204	8,116	5,539	587	344	1,142	505	2,178	1,210	588	184	438	14
1983		18,219	2,657	3,230	531	2,699	179	8,462	5,657	607	398	1,252	549	2,355	1,323	653	194	476	12
1984		19,705	2,774	3,654	503	3,151	201	9,082	6,040	644	462	1,352	584	2,526	1,455	730	206	519	14
1985		21,155	2,793	3,917	514	3,404	188	10,075	6,606	738	558	1,543	631	2,572	1,592	803	219	569	18
1986		24,075	2,843	5,516	609	4,907	164	11,147	7,188	850	654	1,771	684	2,688	1,698	833	236	630	18
1987		25,249	2,797	5,712	817	4,895	194	11,809	7,550	900	702	1,912	745	2,850	1,867	923	252	692	20
1988		26,140	2,796	5,500	867	4,633	445	12,343	7,843	932	746	2,021	802	3,001	2,023	999	268	756	31
1989		27,864	2,939	6,133	1,255	4,878	507	13,006	8,174	974	811	2,181	865	3,018	2,202	1,095	283	823	59
1990		28,223	2,842	5,673	1,065	4,608	612	13,635	8,442	1,038	865	2,364	927	3,027	2,356	1,161	300	895	79
1991		32,139	2,816	8,735	1,481	7,253	546	14,283	8,790	1,080	905	2,519	990	3,146	2,521	1,227	318	977	91
1992		31,955	2,800	7,557	824	6,733	549	14,944	9,328	1,090	943	2,550	1,034	3,319	2,709	1,290	341	1,078	78
1993		32,520	2,965	7,272	527	6,745	557	15,439	9,774	1,077	963	2,566	1,059	3,341	2,865	1,309	366	1,189	82
1994		32,849	2,822	7,217	483	6,734	557	15,953	10,125	1,098	985	2,666	1,079	3,251	2,967	1,259	394	1,314	83
1995		32,146	2,920	6,046	206	5,840	575	16,443	10,459	1,161	1,026	2,725	1,072	2,933	3,147	1,270	424	1,453	82
1996		34,946	2,855	7,989	693	7,297	754	17,091	10,752	1,224	1,100	2,919	1,096	2,776	3,396	1,330	457	1,609	84
1997		38,690	2,878	10,266	1,078	9,187	655	18,497	11,445	1,308	1,232	3,295	1,217	2,800	3,482	1,380	471	1,631	113
1998		36,624	3,112	6,067	1,039	5,028	589	20,026	12,330	1,379	1,363	3,611	1,344	2,757	3,851	1,514	507	1,831	221
1999		39,718	3,420	6,789	1,132	5,658	570	21,391	13,081	1,464	1,453	3,921	1,473	2,825	4,318	1,772	558	1,988	405
2000		42,763	3,765	7,040	925	6,115	547	22,860	13,912	1,549	1,499	4,296	1,603	2,874	5,061	2,099	621	2,341	616
2001		46,666	4,161	7,864	736	7,128	539	24,601	15,151	1,623	1,482	4,622	1,724	3,031	5,575	2,406	614	2,555	894
2002		49,335	4,329	7,244	852	6,391	513	26,747	16,926	1,694	1,432	4,866	1,828	3,564	5,998	2,471	578	2,949	940
2003		51,841	4,388	7,836	1,304	6,532	281	28,554	18,648	1,768	1,374	4,935	1,828	3,524	6,290	2,553	584	3,152	968
2004		51,944	4,340	7,182	983	6,199	161	29,695	19,597	1,825	1,387	5,022	1,865	3,418	6,167	2,519	586	3,062	982

TABLE 2. U.S. basic research expenditures, by performing sector and source of funds: 1953–2006

Year	Performing sector: Source of funds:	Total	Federal	Industry ^a			Industry FFRDCs ^b		U&C ^c			U&C FFRDCs		Other nonprofit			Nonprofit FFRDCs ^d		
				Total	Federal ^b	Industry ^e	Total	Total	Federal	Other government ^f	Industry	U&C	Other nonprofit	Total	Total	Federal ^d	Industry	Other nonprofit	Total
2005 preliminary		53,688	4,392	7,586	1,038	6,548	120	30,734	20,289	1,851	1,430	5,203	1,961	3,373	6,439	2,460	620	3,359	1,044
2006 preliminary		55,476	4,304	7,913	1,038	6,875	111	32,151	21,375	1,908	1,448	5,373	2,048	3,265	6,709	2,412	653	3,644	1,022

NA = not available; included in figures for federal support to industry and federal support to nonprofit institutions.

FFRDC = federally funded research and development center.

U&C = universities and colleges.

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

^b Character-of-work estimates for industry FFRDCs for 1953–63 were not separated from federal support for industry; thus, figure for federal support to industry includes support to FFRDCs for those years.

^c 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.

^d 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.

^e Industry sources of funds for industry R&D expenditures include all nonfederal sources of industry funds for R&D expenditures.

^f Because of limitations in survey information, data on other government funding to other performers are not available and are consequently 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 nonprofit sector. For trend comparisons, use only 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. Approximation equals 75% of amount reported in same fiscal year plus 25% of amount reported in subsequent fiscal year with the following exceptions. The fiscal year for academic performers generally begins July 1, not October 1, and prior to 1977 the federal fiscal year began on July 1, not October 1; thus calendar-year approximations for academic performers and for federal performers prior to 1977 equals 50% of amount reported in same fiscal year plus 50% of amount reported in subsequent fiscal year. Detail may not add to total because of rounding. Constant dollar estimates derived from unrounded data.

SOURCES: National Science Foundation, Division of Science Resources Statistics (NSF/SRS), *Research and Development in Industry 2004* (forthcoming); NSF/SRS, *Academic Research and Development Expenditures: FY 2005* (NSF 07-318); NSF/SRS, *Federal Funds for Research and Development: FY 2004–06* (NSF 07-323); 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/>.