

Appendix table 4-6

U.S. inflation-adjusted R&D expenditures, by funding and performing sectors: 1953–2006

(Millions of constant 2000 dollars)

Year	Funding sector:																		
	Performing sector:	Total	Federal								Industry				U&C	Nonprofit		Nonfederal ^a	
	Total	Total	Federal	Industry ^b	Industry FFRDCs ^b	U&C ^c	U&C FFRDCs ^d	Nonprofit ^e	Nonprofit FFRDCs ^{b,e}	Total	Industry ^f	U&C ^c	Nonprofit	U&C ^c	Total	Nonprofit	U&C ^c	U&C ^c	
1953.....	28,282	15,251	5,563	7,838	NA	817	718	315	NA	12,313	12,058	112	143	200	301	153	148	217	
1954.....	30,495	16,821	5,226	9,502	NA	893	871	328	NA	12,892	12,597	128	168	214	326	168	157	242	
1955.....	33,508	19,222	5,189	10,973	656	1,019	998	341	45	13,454	13,123	144	187	224	341	171	171	267	
1956.....	43,827	25,667	5,829	15,443	1,717	1,140	1,119	364	57	17,250	16,897	162	191	237	382	196	186	291	
1957.....	49,447	31,104	6,474	19,603	2,031	1,205	1,330	392	70	17,314	16,948	182	185	255	454	255	200	319	
1958.....	53,248	34,023	7,350	21,641	1,576	1,366	1,539	463	88	18,084	17,709	190	185	271	520	302	217	351	
1959.....	60,187	39,357	8,101	25,141	2,014	1,713	1,682	600	106	19,587	19,194	190	202	294	561	323	239	388	
1960.....	65,164	42,371	8,558	26,634	2,267	2,151	1,830	703	228	21,463	21,045	190	228	318	585	323	261	428	
1961.....	68,450	44,575	9,340	26,719	2,608	2,615	2,068	794	430	22,357	21,939	188	230	350	696	404	291	472	
1962.....	72,499	47,007	10,143	27,857	1,975	3,183	2,318	927	603	23,756	23,318	188	250	389	828	505	322	519	
1963.....	80,377	53,429	11,738	31,455	1,899	3,847	2,659	1,074	757	25,030	24,592	186	252	440	904	546	358	573	
1964.....	86,320	57,678	13,399	32,792	2,092	4,496	2,842	1,130	926	26,604	26,172	183	249	513	904	506	398	621	
1965.....	89,872	58,549	14,006	32,692	1,655	5,179	2,793	1,269	954	29,060	28,601	184	275	604	996	550	446	663	
1966.....	95,232	61,116	14,272	34,418	1,532	5,760	2,811	1,417	906	31,631	31,135	194	302	710	1,085	595	490	690	
1967.....	97,709	60,949	14,416	33,256	1,754	6,238	2,913	1,431	942	34,091	33,565	216	310	835	1,132	607	525	703	
1968.....	99,009	60,066	14,037	32,694	1,666	6,366	2,898	1,461	943	36,156	35,600	231	325	885	1,162	606	556	741	
1969.....	99,415	58,237	14,495	30,545	1,774	6,209	2,796	1,482	937	38,283	37,696	231	356	891	1,208	616	593	795	
1970.....	95,419	54,424	15,087	26,536	1,718	6,122	2,639	1,487	835	37,950	37,367	238	345	939	1,246	625	621	861	
1971.....	93,225	52,612	15,250	24,818	1,698	6,086	2,541	1,475	744	37,440	36,852	249	339	1,001	1,266	636	630	906	
1972.....	95,275	53,170	15,500	24,760	1,817	6,265	2,602	1,563	663	38,836	38,239	262	335	1,033	1,301	656	645	935	
1973.....	97,184	52,081	15,186	23,863	1,711	6,306	2,641	1,777	597	41,756	41,145	281	330	1,077	1,323	663	661	947	
1974.....	96,065	49,782	14,780	21,805	1,866	6,220	2,667	1,839	605	42,866	42,237	299	329	1,130	1,366	677	688	922	
1975.....	93,870	48,771	14,635	20,731	1,913	6,316	2,808	1,776	592	41,642	41,004	311	327	1,135	1,406	690	716	916	
1976.....	98,104	50,481	14,653	21,571	2,214	6,515	3,148	1,769	610	44,039	43,377	326	336	1,194	1,472	727	745	918	
1977.....	101,372	51,627	14,529	22,275	2,250	6,766	3,432	1,732	643	45,944	45,238	361	344	1,330	1,550	763	787	922	
1978.....	106,474	53,355	15,216	22,089	2,365	7,274	3,872	1,814	727	49,078	48,332	397	350	1,484	1,589	794	794	968	
1979.....	111,769	54,947	15,079	22,915	2,349	7,766	4,062	1,988	787	52,670	51,885	433	351	1,584	1,596	818	778	972	
1980.....	116,990	55,487	14,490	23,596	2,363	8,021	4,267	1,882	867	57,231	56,393	488	351	1,701	1,611	836	775	959	
1981.....	122,282	57,069	14,555	25,367	2,343	7,898	4,202	1,818	886	60,806	59,927	531	349	1,789	1,635	852	783	983	
1982.....	128,733	59,200	15,147	27,200	2,366	7,778	4,055	1,800	854	64,874	63,938	579	358	1,923	1,746	895	851	990	
1983.....	137,944	63,568	16,608	29,284	2,431	7,990	4,356	2,002	898	69,416	68,379	663	374	2,080	1,872	960	912	1,009	
1984.....	151,125	68,687	17,612	32,011	2,570	8,495	4,794	2,288	917	77,137	75,979	765	392	2,238	1,997	1,032	966	1,066	
1985.....	164,486	75,510	18,781	36,338	2,672	9,163	5,187	2,429	939	83,142	81,824	904	414	2,500	2,139	1,116	1,023	1,196	
1986.....	168,770	76,663	18,954	36,491	2,654	9,863	5,576	2,366	759	85,602	84,115	1,046	441	2,833	2,312	1,218	1,095	1,360	
1987.....	172,633	80,072	18,565	39,288	2,726	10,613	5,857	2,328	696	85,491	83,889	1,135	467	3,090	2,526	1,321	1,204	1,454	
1988.....	176,871	79,438	18,948	37,283	2,803	11,351	6,052	2,328	673	89,805	88,081	1,233	491	3,338	2,750	1,424	1,325	1,539	
1989.....	180,618	76,967	19,388	33,554	2,794	11,857	6,054	2,625	696	95,429	93,564	1,350	515	3,630	2,970	1,530	1,440	1,622	
1990.....	186,284	75,508	19,207	31,624	2,847	12,178	5,998	2,875	780	101,983	100,015	1,428	540	3,905	3,173	1,643	1,531	1,715	
1991.....	190,509	71,977	18,059	28,534	2,696	12,628	6,064	3,172	824	109,305	107,267	1,470	567	4,094	3,378	1,769	1,608	1,756	

U.S. inflation-adjusted R&D expenditures, by funding and performing sectors: 1953–2006

(Millions of constant 2000 dollars)

Year	Funding sector:																	
	Performing sector:	Total	Federal							Industry				U&C	Nonprofit		Nonfederal ^a	
	Total	Total	Federal	Industry ^b	FFRDCs ^b	U&C ^c	U&C FFRDCs ^d	Nonprofit ^b	FFRDCs ^{b,e}	Total	Industry ^f	U&C ^c	Nonprofit	U&C ^c	Total	Nonprofit	U&C ^c	U&C ^c
1992.....	191,408	70,513	18,352	25,895	2,724	13,341	6,088	3,248	865	111,395	109,265	1,527	603	4,130	3,604	1,928	1,676	1,765
1993.....	187,515	68,482	18,704	23,585	2,223	13,921	5,984	3,217	848	109,243	107,028	1,574	642	4,196	3,833	2,101	1,732	1,761
1994.....	187,463	67,332	18,120	22,448	2,440	14,394	5,865	3,225	840	109,910	107,614	1,613	683	4,363	4,060	2,294	1,766	1,797
1995.....	199,355	68,360	18,352	22,993	2,468	14,751	5,827	3,091	877	120,372	117,964	1,680	729	4,462	4,261	2,506	1,754	1,901
1996.....	210,263	67,540	17,671	22,755	2,447	15,000	5,748	3,096	822	131,500	128,941	1,780	778	4,725	4,517	2,742	1,775	1,982
1997.....	222,340	67,671	17,628	22,846	2,232	15,221	5,725	3,159	860	142,776	140,034	1,894	848	5,070	4,810	2,938	1,872	2,014
1998.....	234,737	68,803	17,997	22,894	2,154	15,721	5,763	3,401	874	153,252	150,320	2,020	912	5,351	5,288	3,297	1,991	2,043
1999.....	250,374	68,505	18,240	20,942	2,084	16,608	5,775	3,843	1,014	168,247	165,114	2,127	1,006	5,741	5,738	3,581	2,157	2,143
2000.....	267,556	66,403	17,917	17,117	2,001	17,714	5,742	4,447	1,465	186,135	182,844	2,174	1,118	6,230	6,542	4,217	2,325	2,246
2001.....	271,229	71,114	19,948	16,503	1,973	19,305	6,080	5,165	2,140	184,024	180,781	2,138	1,106	6,664	7,086	4,601	2,485	2,340
2002.....	265,475	74,569	20,635	15,742	2,172	21,477	6,817	5,501	2,226	173,449	170,335	2,073	1,040	7,046	7,958	5,311	2,647	2,453
2003.....	271,630	78,565	21,383	16,727	2,310	23,595	6,861	5,344	2,344	174,969	171,917	2,001	1,051	7,188	8,334	5,671	2,662	2,575
2004.....	274,211	81,249	21,059	18,520	2,271	24,802	6,998	5,183	2,416	174,890	171,837	2,002	1,051	7,249	8,190	5,498	2,692	2,634
2005.....	286,545	83,191	21,948	19,434	2,275	24,993	6,906	5,137	2,497	184,355	181,175	2,068	1,112	7,605	8,783	6,013	2,769	2,612
2006.....	293,254	81,160	21,025	19,434	2,090	24,592	6,650	4,928	2,441	192,417	189,142	2,113	1,163	8,009	9,034	6,202	2,832	2,634

NA = not available

FFRDC = federally funded research and development center; U&C = universities and colleges

^aBecause of limitations in survey information, data on nonfederal government funding to other performers not available and consequently included in other sectors' support for their own R&D, e.g., nonfederal government support to nonprofits is included in nonprofit support for their own R&D.

^bExpenditures of industry FFRDCs for 1953–54 not separated from total federal support to industrial sector; therefore, value for federal support to industry includes support to FFRDCs for those years. Similarly for expenditures of nonprofit FFRDCs, included in federal support for nonprofit institutions in 1953–63.

^cAdjustments made to university R&D for 1998 on to eliminate double counting of funds passed through from one academic institution to another. Data for 1998 on not directly comparable with data for 1997 and earlier. For FY 1998, \$479 million in passthrough funds reported. For FY 2006, \$1,630 million in passthrough funds estimated.

^dIncludes all R&D expenditures of FFRDCs administered by academic institutions.

^eBeginning in 2001, data for nonprofit FFRDCs reported by FFRDCs. In prior years, data collected from federal agencies supporting them.

^fIndustry sources of industry R&D expenditures include all nonfederal sources of industry R&D expenditures.

NOTES: All data for calendar years. For some performers, these levels are approximations based on fiscal year data. For federal government expenditures starting in 1977, calendar-year approximation is 75% of amount reported in same fiscal year plus 25% of amount reported in subsequent fiscal year. Academic expenditures in all years and federal government expenditures before 1977 each 50% because those fiscal years (for most academic institutions and federal government before 1977) began on 1 July instead of 1 October. Technical notes explaining methodological issues of measurement available from National Science Foundation (NSF), Division of Science Resources Statistics (SRS) on request. Data based on annual reports by performers except for nonprofit sector. Preliminary data for 2005 and 2006. For trend comparisons, use only historical data reported here. Table incorporates latest revisions to prior-year data. Do not use data published earlier.

SOURCES: NSF/SRS, Research and Development in Industry 2005 (forthcoming); Academic Research and Development Expenditures: Fiscal Year 2005 (2007); Federal Funds for Research and Development: Fiscal Years 2004, 2005, and 2006 (2007); and Survey of Research and Development Funding and Performance by Nonprofit Organizations: FY 1996–97 (2001).