

TABLE 1. Higher education R&D expenditures, by source of funds and R&D field: FY 1953–2011  
(Dollars in millions)

Fiscal year	All R&D expenditures	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources <sup>a</sup>
Total S&E and non-S&E <sup>b</sup>						
2003	41,470	25,307	na	na	na	na
2004	44,839	28,304	na	na	na	na
2005	47,535	29,957	na	na	na	na
2006	49,645	30,909	na	na	na	na
2007	51,590	31,241	na	na	na	na
2008	54,114	32,101	na	na	na	na
2009	57,288	33,443	na	na	na	na
2010	61,191	37,475	3,853	11,876	3,205	4,781
2011	65,073	40,765	3,819	12,445	3,162	4,882
Total non-S&E <sup>b</sup>						
2003	1,393	554	na	na	na	na
2004	1,601	677	na	na	na	na
2005	1,761	770	na	na	na	na
2006	1,887	777	na	na	na	na
2007	2,095	810	na	na	na	na
2008	2,242	829	na	na	na	na
2009	2,425	866	na	na	na	na
2010	2,880	966	248	1,249	82	335
2011	3,183	1,107	256	1,397	85	338
Total S&E						
1953	255	138	37	35	19	26
1954	290	160	42	38	22	28
1955	312	169	47	41	25	30
1956	372	213	53	43	29	34
1957	410	229	60	49	34	38
1958	456	254	68	53	39	42
1959	526	306	76	58	39	47
1960	646	405	85	64	40	52
1961	763	500	95	70	40	58
1962	904	613	106	79	40	66
1963	1,081	760	118	89	41	73
1964	1,275	917	132	103	40	83
1965	1,474	1,073	143	124	41	93
1966	1,715	1,261	156	148	42	108
1967	1,921	1,409	164	181	48	119
1968	2,149	1,572	172	218	55	132
1969	2,225	1,600	197	223	60	145
1970	2,335	1,647	219	243	61	165
1971	2,500	1,724	255	274	70	177
1972	2,630	1,795	270	305	74	187
1973	2,884	1,985	295	318	84	202
1974	3,023	2,032	307	370	96	218
1975	3,409	2,288	332	417	113	259
1976	3,729	2,512	364	446	123	285
1977	4,067	2,726	374	514	139	314
1978 <sup>c</sup>	4,625	3,059	414	623	170	359
1979	5,366	3,598	472	735	193	368
1980	6,063	4,098	491	835	236	403
1981	6,847	4,571	546	1004	291	435
1982	7,324	4,768	616	1111	337	491

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1983	7,882	4,989	626	1302	389	576
1984	8,620	5,431	690	1411	475	613
1985	9,687	6,064	752	1617	560	694
1986	10,928	6,712	915	1869	700	732
1987	12,153	7,343	1,023	2168	790	828
1988	13,463	8,193	1,106	2356	872	935
1989	14,979	8,993	1,224	2698	994	1,071
1990	16,290	9,640	1,324	3,006	1,127	1,191
1991	17,589	10,238	1,474	3,367	1,204	1,307
1992	18,821	11,095	1,491	3,548	1,279	1,409
1993	19,954	11,960	1,559	3,589	1,360	1,486
1994	21,035	12,654	1,555	3,828	1,423	1,575
1995	22,179	13,337	1,690	4,048	1,489	1,614
1996	23,055	13,847	1,812	4,172	1,606	1,619
1997	24,380	14,321	1,910	4,699	1,737	1,712
1998	25,867	15,159	1,945	5,004	1,889	1,871
1999	27,544	16,112	2,022	5,382	2,033	1,995
2000	30,084	17,548	2,200	5,925	2,156	2,255
2001	32,801	19,227	2,320	6,614	2,218	2,422
2002	36,383	21,856	2,504	7,133	2,191	2,698
2003	40,077	24,753	2,645	7,663	2,161	2,856
2004	43,238	27,627	2,879	7,752	2,129	2,851
2005	45,774	29,187	2,940	8,265	2,291	3,092
2006	47,759	30,132	2,966	9,062	2,401	3,198
2007	49,495	30,430	3,151	9,718	2,675	3,521
2008	51,872	31,272	3,438	10,378	2,869	3,916
2009	54,863	32,576	3,648	11,148	3,197	4,294
2010	58,311	36,509	3,605	10,627	3,124	4,446
2011	61,891	39,658	3,563	11,048	3,078	4,544

na = not applicable; non-S&E data by source were not collected prior to FY 2010.

S&E = science and engineering.

<sup>a</sup> Prior to FY 2010, R&D expenditures from nonprofit organizations were collected under all other sources. Beginning in FY 2010, these data were collected separately, and FY 2011 data included \$3,840 million in R&D expenditures from nonprofit sources.

<sup>b</sup> From FY 2003 through FY 2009, some institution totals for all R&D expenditures may be lower-bound estimates because National Science Foundation did not attempt to estimate for nonresponse on non-S&E R&D expenditures item prior to FY 2010.

<sup>c</sup> FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.