Appendix table 2-12.
U.S. applied research expenditures, by performing sector and source of funds: 1953–98
(Millions of constant 1992 dollars)

Performing sector:	Total U.S.	Federal Govt.	Industry			Industry FFRDCs	Universities & colleges						U&C FFRDCs	Other nonprofit institutions				Nonprofit FFRDCs
Funding sector:	Total U.S.	Federal Govt.	Total	Federal Govt.[a]	Industry[b]	Federal Govt.[a]	Total	Federal Govt.	Nonfed. govt.	Industry	U&C	Nonprofit	Federal Govt.[c]	Total	Federal Govt.[a]	Industry	Nonprofit	Federal Govt.[a]
Calendar year[d]																		
1953	6,388	1,720	3,598	1,427	2,170		662	292	149	32	138	50	235	173	69	55	50	
1954	6,752	1,614	3,988	1,578	2,411		669	292	154	37	137	49	284	196	78	64	54	
1955	7,297	1,606	4,474	1,774	2,700		682	304	156	41	131	51	328	207	87	68	53	
1956	8,978	1,800	5,906	2,208	3,698		680	303	154	47	125	51	366	226	95	65	65	
1957	10,881	2,009	7,529	3,057	4,472		661	284	153	52	122	50	424	259	106	63	90	
1958	12,144	2,272	8,415	3,408	5,007		667	288	155	53	120	51	487	304	132	62	110	
1959	12,808	2,512	8,675	3,542	5,133		728	338	161	54	122	52	525	368	185	65	118	
1960	13,171	2,641	8,719	3,580	5,140		797	400	166	56	124	52	552	462	269	73	120	
1961	13,267	2,838	8,398	3,449	4,949		843	440	170	55	126	53	616	571	350	72	149	
1962	15,510	2,972	10,273	4,241	6,032		906	497	170	57	128	55	682	677	409	80	189	
1963	16,022	3,354	10,187	4,175	6,012		951	529	175	58	134	56	771	759	477	79	203	
1964	17,161	3,866	10,368	3,995	6,373	253	1,044	580	185	55	152	71	829	801	531	78	192	
1965	17,522	3,980	10,465	3,974	6,490	184	1,216	703	186	52	169	106	823	853	561	84	208	
1966	18,124	3,942	10,869	3,841	7,028	206	1,367	810	183	55	189	131	830	910	594	93	222	
1967	18,301	4,034	10,691	3,711	6,980	313	1,467	897	172	59	203	136	849	948	627	94	227	
1968	18,585	4,021	10,988	3,459	7,529	315	1,465	903	166	58	199	139	798	999	673	101	224	
1969	18,847	4,248	11,030	3,179	7,851	328	1,441	886	166	55	186	147	736	1,064	726	111	228	
1970	18,873	4,377	10,925	3,123	7,802	318	1,478	917	168	57	183	153	699	1,076	738	108	230	
1971	18,194	4,226	10,443	2,829	7,614	209	1,556	954	189	58	209	147	672	1,087	750	106	231	
1972	18,393	4,291	10,194	2,528	7,666	320	1,851	1,168	222	61	245	154	670	1,067	726	105	236	
1973	18,854	4,327	10,524	2,501	8,023	312	2,052	1,273	248	74	283	174	574	1,065	728	102	235	
1974	19,099	4,295	10,834	2,352	8,482	312	2,063	1,239	250	82	306	186	495	1,100	754	104	242	
1975	19,239	4,542	10,527	2,354	8,173	330	2,219	1,306	269	91	334	219	520	1,100	748	102	249	
1976	20,180	4,643	11,100	2,319	8,781	375	2,339	1,337	286	100	372	245	589	1,135	758	108	269	
1977	20,429	4,387	11,436	2,347	9,089	447	2,373	1,319	284	108	409	254	642	1,145	748	112	285	
1978	21,087	4,405	11,918	2,348	9,570	462	2,450	1,328	297	119	455	251	647	1,206	803	108	295	
1979	21,995	4,373	12,629	2,363	10,266	453	2,567	1,435	292	129	476	233	688	1,286	869	109	308	
1980	22,829	4,220	13,550	2,694	10,857	456	2,689	1,512	288	146	511	232	698	1,216	810	108	298	
1981	24,876	4,138	15,757	3,093	12,663	451	2,698	1,443	302	163	549	240	642	1,191	790	114	288	
1982	26,084	3,993	17,039	3,695	13,343	523	2,729	1,434	296	172	573	253	626	1,176	784	121	271	
1983	27,895	4,089	18,470	4,411	14,060	566	2,892	1,534	294	193	606	265	675	1,203	800	130	273	
1984	29,689	3,900	20,045	4,843	15,202	720	3,071	1,615	308	221	647	279	739	1,214	782	145	287	
1985	32,391	3,992	22,444	6,007	16,437	802	3,218	1,651	333	252	697	285	730	1,205	740	163	302	
1986	33,870	3,976	23,742	5,025	18,717	781	3,449	1,729	369	284	769	297	678	1,244	745	177	322	
1987	33,671	4,052	23,104	4,860	18,243	750	3,875	1,978	401	313	852	332	639	1,251	714	184	353	
1988	34,407	3,905	23,669	4,467	19,202	431	4,389	2,274	438	351	950	377	656	1,280	695	196	388	76
1989	36,091	3,975	24,874	4,819	20,055	417	4,668	2,363	465	387	1,040	413	675	1,405	774	211	420	78
1990	37,495	3,902	26,067	6,375	19,692	412	4,707	2,285	484	404	1,102	432	819	1,500	833	223	444	87
1991	39,832	4,206	27,757	5,742	22,015	445	4,736	2,291	481	403	1,121	440	955	1,644	946	233	465	89

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U.S. applied research expenditures, by performing sector and source of funds: 1953–98
(Millions of constant 1992 dollars)

Performing sector:	Total U.S.	Federal Govt.	Industry			Industry FFRDCs	Universities & colleges						U&C FFRDCs	Other nonprofit institutions				Nonprofit FFRDCs
Funding sector:	Total U.S.	Federal Govt.	Total	Federal Govt.[a]	Industry[b]	Federal Govt.[a]	Total	Federal Govt.	Nonfed. govt.	Industry	U&C	Nonprofit	Federal Govt.[c]	Total	Federal Govt.[a]	Industry	Nonprofit	Federal Govt.[a]
Calendar year[d]																		
1992	38,066	4,337	25,660	4,476	21,184	507	4,881	2,413	479	415	1,120	455	946	1,654	933	239	482	81
1993	36,417	4,714	23,627	4,185	19,443	424	4,996	2,464	479	429	1,150	474	944	1,613	876	239	497	100
1994	34,912	4,761	21,875	3,441	18,434	479	5,097	2,498	486	437	1,195	482	933	1,661	913	242	506	106
1995	38,215	4,657	25,039	2,943	22,096	498	5,230	2,566	513	453	1,219	478	1,039	1,630	870	258	503	122
1996	39,401	4,450	26,486	3,323	23,163	211	5,310	2,606	521	469	1,240	474	1,172	1,661	876	277	508	111
1997	42,308	4,552	29,067	2,373	26,694	191	5,397	2,645	526	480	1,270	475	1,266	1,725	906	295	524	110
1998 prelim. ...	45,449	4,810	31,558	2,542	29,016	197	5,638	2,777	549	503	1,321	488	1,371	1,784	923	317	544	92

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. The next updates of these data, covering the years 1953–2000, along with technical notes explaining methodological issues of measurement, will be provided in National Science Foundation, Division of Science Resources Studies (NSF/SRS), *National Patterns of R&D Resources: 2000* (Arlington, VA: forthcoming). Data are preliminary for 1998.

[a]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.

[b]Industry sources of industry R&D expenditures include all non-Federal sources of industry R&D expenditures.

[c]Includes R&D expenditures of FFRDCs administered by academic institutions, nearly all of which are federally funded.

[d]Expenditure levels for academic and Federal Government performers are also in reference to calendar years, unlike the levels typically provided in statistical reports on these institutions alone, which are in reference to fiscal years. These calendar-year expenditure levels are approximations based on fiscal year data.

SOURCE: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *National Patterns of R&D Resources* (Arlington, VA: biennial series).

See figure 2-15 in Volume I.