Appendix table 2-17.
U.S. development expenditures, by source of funds and performer: 1953–98
(Millions of current dollars)

Funding sector:	Total U.S.	Federal Government								Industry				U&Cs	Nonprofit			Non-Fed. govt.[a]
Performing sector:	Total U.S.	Total	Federal Govt.	Industry[b]	Industry FFRDCs[b]	U&Cs	U&C FFRDCs[c]	Non-profit[b]	Nonprofit FFRDCs[b]	Total	Industry[d]	U&Cs	Nonprofit	U&Cs	Total	Nonprofit	U&Cs	U&Cs
Calendar year[e]																		
1953	3,412	1,762	567	1,123		9	48	17		1,637	1,630	1	6	3	7	6	1	3
1954	3,734	2,027	537	1,405		9	59	18		1,693	1,685	1	7	3	8	7	1	3
1955	4,189	2,427	543	1,785		12	69	19		1,748	1,738	2	8	3	8	7	1	4
1956	5,855	3,561	631	2,817		14	81	20		2,277	2,267	2	8	4	9	7	2	4
1957	6,681	4,477	728	3,616		12	101	21		2,185	2,174	3	8	4	10	8	2	5
1958	7,214	4,941	842	3,942		13	120	25		2,252	2,241	3	8	4	11	9	2	6
1959	8,463	5,872	940	4,750		16	134	32		2,569	2,557	3	9	5	12	10	2	6
1960	9,360	6,390	1,003	5,169		19	151	49		2,948	2,935	3	10	5	12	10	2	6
1961	9,930	6,701	1,090	5,347		22	170	73		3,201	3,189	2	10	5	16	14	2	7
1962	10,116	6,823	1,227	5,281		23	190	103		3,259	3,246	2	11	6	20	18	2	8
1963	11,540	7,956	1,465	6,116		22	219	134		3,548	3,535	2	11	6	22	20	2	8
1964	12,506	8,610	1,680	6,156	359	30	227	159		3,861	3,848	2	11	7	21	18	3	8
1965	13,215	8,742	1,789	6,218	298	48	207	183		4,433	4,419	2	12	8	24	20	4	9
1966	14,490	9,466	1,886	6,849	271	61	200	199		4,977	4,961	2	14	10	28	23	5	9
1967	15,332	9,521	1,943	6,795	302	66	208	208		5,762	5,744	3	15	10	31	24	7	9
1968	16,154	9,756	1,904	7,044	293	72	226	217		6,346	6,326	4	16	9	35	26	9	8
1969	17,051	9,848	2,016	6,944	332	80	246	231		7,150	7,127	5	18	8	38	28	10	7
1970	16,925	9,382	2,258	6,232	340	84	249	220		7,489	7,466	5	18	7	40	30	10	6
1971	17,399	9,561	2,473	6,167	391	69	267	194		7,780	7,757	4	19	9	42	33	9	8
1972	18,743	10,141	2,639	6,533	402	63	291	213		8,533	8,510	4	19	14	44	35	9	12
1973	20,197	10,311	2,657	6,621	399	71	296	268		9,798	9,773	5	20	20	51	38	13	18
1974	21,503	10,506	2,765	6,553	479	75	321	314		10,896	10,868	7	21	25	57	42	15	20
1975	22,708	10,993	2,890	6,783	535	83	373	330		11,599	11,569	8	22	27	67	51	16	22
1976	25,092	12,035	2,972	7,522	654	100	447	341		12,925	12,890	12	23	31	77	61	16	24
1977	27,691	13,162	3,188	8,275	675	153	513	359		14,370	14,328	15	27	40	92	73	19	28
1978	31,090	14,394	3,676	8,756	753	254	552	403		16,505	16,460	15	30	49	111	87	24	32
1979	35,506	16,094	3,944	9,888	810	336	633	483		19,196	19,145	16	35	56	127	99	28	34
1980	40,734	17,542	4,072	10,957	882	362	744	525		22,950	22,891	19	40	68	136	105	31	38
1981	46,059	19,967	4,530	12,791	950	386	761	549		25,825	25,756	24	45	80	145	110	35	44
1982	51,730	22,142	5,178	14,215	989	397	763	599		29,296	29,219	27	50	88	159	120	39	46
1983	57,603	24,658	6,106	15,522	1,054	399	862	715		32,628	32,542	31	55	97	173	130	43	47
1984	66,365	28,182	7,078	17,640	1,056	435	1,048	925		37,833	37,731	37	65	108	192	145	47	51
1985	74,538	32,272	8,011	20,258	1,102	486	1,315	1,100		41,881	41,762	43	75	120	207	158	49	57
1986	75,853	33,937	8,275	21,517	1,145	513	1,549	938		41,488	41,354	50	84	136	226	173	53	65
1987	79,894	36,596	8,176	24,122	1,230	599	1,699	771		42,814	42,667	57	90	155	256	196	61	73
1988	84,646	37,290	8,864	23,719	1,414	698	1,767	407	420	46,800	46,634	66	99	179	294	223	71	83
1989	87,816	35,324	9,355	21,049	1,423	773	1,786	507	430	51,863	51,676	76	111	205	332	251	81	92
1990	94,107	33,799	9,700	18,966	1,438	909	1,677	619	490	59,616	59,410	83	123	226	366	277	89	99
1991	95,184	31,197	8,778	17,256	1,383	1,011	1,514	722	533	63,250	63,030	86	134	239	396	302	94	103
1992	99,889	31,498	9,098	17,181	1,373	1,054	1,435	758	599	67,620	67,388	91	141	246	421	321	100	105
1993	99,751	30,022	9,071	16,083	1,039	1,122	1,346	787	574	68,915	68,674	97	144	259	447	340	107	108

Appendix table 2-17.
U.S. development expenditures, by source of funds and performer: 1953–98
(Millions of current dollars)

Funding sector:	Total U.S.	Federal Government								Industry				U&Cs	Nonprofit			Non-Fed. govt.[a]
Performing sector:	Total U.S.	Total	Federal Govt.	Industry[b]	Industry FFRDCs[b]	U&Cs	U&C FFRDCs[c]	Non-profit[b]	Nonprofit FFRDCs[b]	Total	Industry[d]	U&Cs	Nonprofit	U&Cs	Total	Nonprofit	U&Cs	U&Cs
Calendar year[e]																		
1994	103,119	30,334	8,876	16,209	1,196	1,198	1,467	815	573	71,931	71,681	101	149	276	466	355	111	112
1995	113,239	32,569	9,431	17,824	1,209	1,163	1,593	743	606	79,788	79,518	107	163	288	473	361	113	121
1996	121,372	31,375	9,064	17,066	1,358	1,125	1,495	697	570	89,088	88,797	113	178	298	485	371	114	125
1997	128,565	32,245	9,001	18,121	1,292	1,163	1,357	708	603	95,375	95,063	118	194	311	506	389	116	129
1998 .... prelim.	138,075	32,369	8,848	18,211	1,475	1,181	1,251	794	608	104,715	104,380	124	210	327	529	408	121	136

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]Because of limitations in the survey information, data on non-Federal government funding to other performers are not available, and are consequently included in other sectors' support for their own R&D performance. For example, non-Federal government support to nonprofits is included in nonprofits' support for their own R&D.

[b]For 1953-63, development expenditures of industry FFRDCs were not separated out from total Federal support to the industrial sector for development. Thus, the figure for Federal support to industry for development expenditures includes support for development at industry FFRDCs for those years. The same is true for development by nonprofit FFRDCs in 1953-87, which is included in Federal support for development at nonprofit institutions for those years.

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

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

[e]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 figures 2-16 and 2-17 in Volume I.