

TABLE 9. U.S. development expenditures, by source of funds and performing sector: 1953–2015

Year	All funding sources																								
	Federal								Nonfederal government					Business					Higher education		Other nonprofit organizations				
	All performers	Total	Federal intramural	FFRDC	Non-federal government	Business	Higher education	ONP	Total	FFRDC	Non-federal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP	
Current \$millions																									
1953	3,412	1,762	567	48	NA	1,123	9	17	3	NA	NA	NA	3	1,637	NA	1,630	1	6	3	7	NA	NA	1	6	
1954	3,734	2,027	537	62	NA	1,405	9	15	3	NA	NA	NA	3	1,693	NA	1,685	1	7	3	8	NA	NA	1	7	
1955	4,113	2,351	543	171	NA	1,614	12	12	4	NA	NA	NA	4	1,748	NA	1,738	2	8	3	8	NA	NA	1	7	
1956	5,854	3,561	631	348	NA	2,559	14	11	4	NA	NA	NA	4	2,277	NA	2,267	2	8	4	9	NA	NA	2	7	
1957	6,681	4,477	728	429	NA	3,300	12	9	5	NA	NA	NA	5	2,185	NA	2,174	3	8	4	10	NA	NA	2	8	
1958	7,213	4,940	842	386	NA	3,691	13	9	6	NA	NA	NA	6	2,252	NA	2,241	3	8	4	11	NA	NA	2	9	
1959	8,463	5,871	940	477	NA	4,426	16	14	6	NA	NA	NA	6	2,569	NA	2,557	3	9	5	12	NA	NA	2	10	
1960	9,360	6,390	1,003	559	NA	4,799	19	10	6	NA	NA	NA	6	2,948	NA	2,935	3	10	5	12	NA	NA	2	10	
1961	9,930	6,701	1,090	670	NA	4,917	22	4	7	NA	NA	NA	7	3,201	NA	3,189	2	10	5	16	NA	NA	2	14	
1962	10,114	6,822	1,227	618	NA	4,950	23	5	8	NA	NA	NA	8	3,259	NA	3,246	2	11	6	20	NA	NA	2	18	
1963	11,539	7,955	1,465	668	NA	5,795	22	6	8	NA	NA	NA	8	3,548	NA	3,535	2	11	6	22	NA	NA	2	20	
1964	12,506	8,610	1,680	739	NA	6,156	30	6	8	NA	NA	NA	8	3,861	NA	3,848	2	11	7	21	NA	NA	3	18	
1965	13,215	8,742	1,789	674	NA	6,218	48	13	9	NA	NA	NA	9	4,433	NA	4,419	2	12	8	24	NA	NA	4	20	
1966	14,490	9,466	1,886	654	NA	6,849	61	16	9	NA	NA	NA	9	4,977	NA	4,961	2	14	10	28	NA	NA	5	23	
1967	15,332	9,521	1,943	706	NA	6,795	66	12	9	NA	NA	NA	9	5,762	NA	5,744	3	15	10	31	NA	NA	7	24	
1968	16,154	9,756	1,904	724	NA	7,044	72	13	8	NA	NA	NA	8	6,346	NA	6,326	4	16	9	35	NA	NA	9	26	
1969	17,051	9,848	2,016	792	NA	6,944	80	17	7	NA	NA	NA	7	7,150	NA	7,127	5	18	8	38	NA	NA	10	28	
1970	16,925	9,382	2,258	790	NA	6,232	84	20	6	NA	NA	NA	6	7,489	NA	7,466	5	18	7	40	NA	NA	10	30	
1971	17,399	9,561	2,473	841	NA	6,167	69	12	8	NA	NA	NA	8	7,780	NA	7,757	4	19	9	42	NA	NA	9	33	
1972	18,743	10,141	2,639	863	NA	6,533	63	44	12	NA	NA	NA	12	8,533	NA	8,510	4	19	14	44	NA	NA	9	35	
1973	20,197	10,311	2,657	860	NA	6,621	71	102	18	NA	NA	NA	18	9,798	NA	9,773	5	20	20	51	NA	NA	13	38	
1974	21,504	10,506	2,765	983	NA	6,553	75	131	20	NA	NA	NA	20	10,896	NA	10,868	7	22	25	57	NA	NA	15	42	
1975	22,706	10,993	2,890	1,103	NA	6,783	83	135	22	NA	NA	NA	22	11,600	NA	11,569	8	23	27	63	NA	NA	16	47	
1976	25,085	12,035	2,972	1,315	NA	7,522	100	128	24	NA	NA	NA	24	12,927	NA	12,890	12	25	31	68	NA	NA	16	52	
1977	27,667	13,153	3,188	1,418	NA	8,275	153	119	28	NA	NA	NA	28	14,370	NA	14,328	15	27	40	76	NA	NA	19	58	
1978	31,056	14,383	3,676	1,584	NA	8,756	254	113	32	NA	NA	NA	32	16,504	NA	16,460	15	30	49	88	NA	NA	24	64	
1979	35,445	16,064	3,944	1,753	NA	9,888	336	143	34	NA	NA	NA	34	19,193	NA	19,145	16	32	56	99	NA	NA	28	71	
1980	40,748	17,587	4,072	2,009	NA	10,957	362	187	38	NA	NA	NA	38	22,945	NA	22,891	19	35	68	110	NA	NA	31	79	
1981	46,305	20,242	4,530	2,175	NA	12,791	386	360	44	NA	NA	NA	44	25,817	NA	25,756	24	37	80	123	NA	NA	35	88	
1982	51,879	22,323	5,178	2,170	NA	14,215	397	362	46	NA	NA	NA	46	29,286	NA	29,219	27	40	88	137	NA	NA	39	98	
1983	57,771	24,859	6,106	2,385	NA	15,522	399	447	47	NA	NA	NA	47	32,617	NA	32,542	31	44	97	151	NA	NA	43	109	

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Year	All funding sources		Federal						Nonfederal government					Business					Higher education	Other nonprofit organizations				
	All performers	Total	Federal intramural	FFRDC	Non-federal government	Business	Higher education	ONP	Total	FFRDC	Non-federal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP
1984	66,461	28,320	7,078	2,572	NA	17,640	435	594	51	NA	NA	NA	51	37,815	NA	37,731	37	47	108	167	NA	NA	47	120
1985	74,522	32,304	8,011	2,906	NA	20,258	486	644	57	NA	NA	NA	57	41,857	NA	41,762	43	51	120	183	NA	NA	49	134
1986	75,855	33,993	8,275	3,101	NA	21,517	513	587	65	NA	NA	NA	65	41,460	NA	41,354	50	55	136	201	NA	NA	53	149
1987	79,929	36,691	8,176	3,321	NA	24,122	599	474	73	NA	NA	NA	73	42,784	NA	42,667	57	60	155	226	NA	NA	61	165
1988	84,567	37,285	8,864	3,596	NA	23,719	698	407	83	NA	NA	NA	83	46,765	NA	46,634	66	65	180	254	NA	NA	71	183
1989	87,723	35,320	9,355	3,635	NA	21,049	773	507	91	NA	NA	NA	91	51,822	NA	51,676	76	70	205	285	NA	NA	81	203
1990	94,067	33,859	9,700	3,663	NA	18,966	910	619	99	NA	NA	NA	99	59,568	NA	59,410	83	75	226	315	NA	NA	89	226
1991	95,105	31,220	8,778	3,452	NA	17,256	1,012	722	103	NA	NA	NA	103	63,197	NA	63,030	86	82	239	345	NA	NA	94	251
1992	99,811	31,514	9,098	3,423	NA	17,181	1,055	758	105	NA	NA	NA	105	67,567	NA	67,388	91	88	246	378	NA	NA	100	279
1993	99,705	30,055	9,071	2,986	NA	16,083	1,127	787	109	NA	NA	NA	109	68,866	NA	68,674	97	95	259	416	NA	NA	107	309
1994	102,938	30,208	8,823	3,147	NA	16,209	1,213	815	114	NA	NA	NA	114	71,886	NA	71,681	102	103	276	455	NA	NA	112	343
1995	113,079	32,436	9,262	3,427	NA	17,824	1,180	744	123	NA	NA	NA	123	79,738	NA	79,518	108	111	288	495	NA	NA	113	381
1996	121,377	31,373	9,033	3,448	NA	17,066	1,128	698	128	NA	NA	NA	128	89,032	NA	88,797	115	120	305	538	NA	NA	115	423
1997	128,678	32,270	9,077	3,331	NA	18,121	1,055	687	122	NA	NA	NA	122	95,332	NA	95,063	114	155	306	649	NA	NA	113	536
1998	144,726	32,714	9,214	3,314	NA	18,452	974	760	116	NA	NA	NA	116	110,868	NA	110,589	115	164	304	724	NA	NA	113	611
1999	154,380	30,608	9,265	3,335	NA	16,571	710	727	121	NA	NA	NA	121	122,534	NA	122,236	120	178	323	794	NA	NA	121	673
2000	169,476	27,513	9,377	3,482	NA	13,510	565	580	126	NA	NA	NA	126	140,552	NA	140,235	122	195	350	935	NA	NA	131	804
2001	167,816	28,423	11,062	3,273	NA	12,542	673	874	140	7	NA	NA	133	137,774	46	137,410	121	197	378	1,101	71	NA	141	890
2002	176,694	29,774	11,800	3,308	NA	13,061	669	937	154	9	NA	NA	145	145,078	40	144,727	121	191	422	1,266	81	NA	157	1,028
2003	175,597	30,053	12,646	3,785	NA	11,939	940	743	171	10	NA	NA	161	143,481	43	143,121	122	195	464	1,428	78	NA	168	1,182
2004	177,353	34,295	12,746	4,561	NA	14,419	1,268	1,300	179	11	NA	NA	168	140,983	45	140,615	124	199	477	1,420	60	NA	173	1,186
2005	195,870	36,570	13,994	4,654	NA	15,512	1,199	1,211	176	11	NA	NA	164	157,085	50	156,696	127	212	496	1,543	65	NA	177	1,301
2006	212,919	38,766	16,089	4,358	NA	16,720	970	603	224	10	NA	NA	163	171,807	58	171,392	131	226	515	1,608	67	NA	180	1,360
2007	228,190	39,667	18,016	5,254	NA	14,860	939	568	233	8	NA	NA	170	185,995	47	185,569	138	240	535	1,760	56	NA	193	1,511
2008	259,818	54,629	17,566	6,094	NA	29,488	885	562	469	7	NA	223	186	201,853	45	201,406	154	249	584	2,283	47	330	217	1,689
2009	255,808	56,053	17,245	6,159	NA	30,435	1,624	550	438	8	NA	144	226	196,082	39	195,614	189	241	706	2,528	46	361	275	1,846
2010	250,698	57,136	18,844	6,909	NA	28,089	2,610	638	456	11	NA	114	257	189,344	40	188,849	214	242	822	2,940	45	649	324	1,922
2011	270,301	58,564	21,879	6,786	NA	26,228	2,831	790	566	6	NA	230	256	207,542	41	207,026	220	255	894	2,735	39	402	337	1,958
2012	272,445	55,869	19,941	6,631	NA	25,840	2,889	518	429	10	NA	102	249	212,483	43	211,949	229	261	968	2,697	40	310	352	1,994
2013	286,173	51,822	19,767	6,572	NA	22,137	2,825	474	459	11	NA	126	252	229,779	49	229,212	242	276	1,030	3,082	36	532	379	2,135
2014 ^a	300,065	48,001	19,979	6,658	NA	18,065	2,789	461	424	7	NA	87	258	247,208	55	246,601	260	291	1,094	3,339	35	624	410	2,270
2015 ^b	316,298	42,581	19,110	6,962	NA	13,274	2,786	399	414	5	NA	82	255	268,706	51	268,069	277	308	1,164	3,433	33	587	437	2,376

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	All performers	Total	Federal intramural	FFRDC	Non-federal government	Business	Higher education	ONP	Total	FFRDC	Non-federal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP
1953	22,510	11,626	3,738	313	NA	7,410	56	109	19	NA	NA	NA	19	10,802	NA	10,755	7	40	17	46	NA	NA	7	40
1954	24,412	13,249	3,511	402	NA	9,185	56	95	23	NA	NA	NA	23	11,068	NA	11,016	7	46	20	52	NA	NA	7	46
1955	26,435	15,108	3,486	1,096	NA	10,375	74	77	24	NA	NA	NA	24	11,230	NA	11,169	10	51	21	51	NA	NA	6	45
1956	36,384	22,130	3,919	2,160	NA	15,903	84	65	27	NA	NA	NA	27	14,152	NA	14,090	12	50	22	53	NA	NA	9	44
1957	40,185	26,929	4,376	2,580	NA	19,850	72	51	32	NA	NA	NA	32	13,139	NA	13,076	15	48	25	60	NA	NA	12	48
1958	42,429	29,059	4,950	2,268	NA	21,715	74	53	33	NA	NA	NA	33	13,247	NA	13,182	18	47	26	65	NA	NA	12	53
1959	49,092	34,059	5,453	2,764	NA	25,674	90	78	35	NA	NA	NA	35	14,903	NA	14,833	17	52	26	70	NA	NA	12	58
1960	53,557	36,560	5,736	3,199	NA	27,460	109	57	36	NA	NA	NA	36	16,865	NA	16,794	14	57	27	69	NA	NA	11	57
1961	56,201	37,926	6,166	3,792	NA	27,826	122	20	39	NA	NA	NA	39	18,117	NA	18,049	11	57	29	91	NA	NA	11	79
1962	56,548	38,139	6,860	3,455	NA	27,673	126	25	43	NA	NA	NA	43	18,221	NA	18,148	11	62	32	112	NA	NA	11	101
1963	63,794	43,980	8,099	3,693	NA	32,036	122	30	44	NA	NA	NA	44	19,615	NA	19,543	11	61	34	122	NA	NA	11	111
1964	68,092	46,879	9,147	4,024	NA	33,518	161	30	43	NA	NA	NA	43	21,022	NA	20,951	11	60	36	112	NA	NA	14	98
1965	70,663	46,742	9,563	3,604	NA	33,249	257	70	46	NA	NA	NA	46	23,704	NA	23,629	11	64	42	128	NA	NA	21	107
1966	75,361	49,231	9,809	3,399	NA	35,622	317	83	49	NA	NA	NA	49	25,886	NA	25,803	10	73	50	146	NA	NA	26	120
1967	77,488	48,121	9,820	3,566	NA	34,343	331	61	43	NA	NA	NA	43	29,120	NA	29,031	13	76	51	154	NA	NA	33	121
1968	78,308	47,292	9,230	3,507	NA	34,148	347	61	38	NA	NA	NA	38	30,764	NA	30,667	19	78	45	170	NA	NA	44	126
1969	78,784	45,502	9,314	3,657	NA	32,085	367	79	33	NA	NA	NA	33	33,037	NA	32,931	23	83	37	176	NA	NA	46	129
1970	74,281	41,178	9,910	3,465	NA	27,352	366	86	28	NA	NA	NA	28	32,868	NA	32,767	22	79	31	176	NA	NA	44	132
1971	72,669	39,932	10,327	3,511	NA	25,758	288	48	33	NA	NA	NA	33	32,495	NA	32,399	17	79	36	173	NA	NA	36	138
1972	75,042	40,600	10,567	3,453	NA	26,156	250	174	50	NA	NA	NA	50	34,161	NA	34,071	14	76	54	176	NA	NA	36	140
1973	76,688	39,150	10,090	3,265	NA	25,140	268	387	66	NA	NA	NA	66	37,204	NA	37,109	19	76	76	192	NA	NA	47	144
1974	74,921	36,604	9,635	3,423	NA	22,831	260	456	70	NA	NA	NA	70	37,962	NA	37,864	23	75	85	199	NA	NA	52	147
1975	72,402	35,053	9,215	3,517	NA	21,629	263	429	71	NA	NA	NA	71	36,990	NA	36,890	26	75	88	200	NA	NA	51	149
1976	75,825	36,379	8,983	3,973	NA	22,737	301	385	72	NA	NA	NA	72	39,074	NA	38,962	35	76	94	206	NA	NA	48	157
1977	78,745	37,435	9,073	4,037	NA	23,552	435	339	79	NA	NA	NA	79	40,898	NA	40,779	41	78	114	217	NA	NA	53	165
1978	82,591	38,251	9,777	4,214	NA	23,286	675	300	85	NA	NA	NA	85	43,891	NA	43,774	39	79	130	233	NA	NA	62	171
1979	87,078	39,464	9,688	4,306	NA	24,292	826	351	84	NA	NA	NA	84	47,150	NA	47,033	38	79	137	243	NA	NA	68	175
1980	91,822	39,631	9,177	4,527	NA	24,691	815	421	86	NA	NA	NA	86	51,705	NA	51,583	44	78	152	248	NA	NA	69	179
1981	95,433	41,718	9,337	4,483	NA	26,362	795	741	90	NA	NA	NA	90	53,208	NA	53,082	49	77	164	253	NA	NA	72	181
1982	100,677	43,319	10,048	4,211	NA	27,586	771	703	88	NA	NA	NA	88	56,832	NA	56,702	52	78	171	265	NA	NA	76	190
1983	107,854	46,410	11,399	4,453	NA	28,978	745	835	88	NA	NA	NA	88	60,892	NA	60,753	58	82	182	282	NA	NA	80	203

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	All performers	Federal							Nonfederal government					Business					Higher education	Other nonprofit organizations				
		Total	Federal intra-mural	FFRDC	Non-federal government	Business	Higher education	ONP	Total	FFRDC	Non-federal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP
1984	119,823	51,058	12,761	4,638	NA	31,803	784	1,072	93	NA	NA	NA	93	68,177	NA	68,025	66	85	194	301	NA	NA	84	217
1985	130,191	56,437	13,995	5,076	NA	35,391	849	1,125	100	NA	NA	NA	100	73,124	NA	72,959	76	89	210	320	NA	NA	86	234
1986	129,899	58,212	14,170	5,311	NA	36,847	879	1,004	112	NA	NA	NA	112	70,997	NA	70,817	86	95	233	345	NA	NA	90	254
1987	133,470	61,269	13,652	5,545	NA	40,281	1,000	791	122	NA	NA	NA	122	71,443	NA	71,248	95	100	259	377	NA	NA	101	276
1988	136,439	60,155	14,301	5,802	NA	38,268	1,127	657	133	NA	NA	NA	133	75,450	NA	75,239	107	104	290	411	NA	NA	115	296
1989	136,234	54,852	14,529	5,645	NA	32,689	1,201	787	142	NA	NA	NA	142	80,479	NA	80,253	118	108	318	442	NA	NA	126	316
1990	140,874	50,706	14,527	5,486	NA	28,403	1,363	927	149	NA	NA	NA	149	89,209	NA	88,972	124	113	339	471	NA	NA	133	338
1991	137,842	45,249	12,722	5,004	NA	25,010	1,466	1,047	149	NA	NA	NA	149	91,596	NA	91,354	125	118	347	500	NA	NA	136	364
1992	141,438	44,658	12,892	4,851	NA	24,347	1,495	1,074	149	NA	NA	NA	149	95,747	NA	95,493	129	125	348	536	NA	NA	141	395
1993	138,005	41,599	12,556	4,133	NA	22,261	1,560	1,089	151	NA	NA	NA	151	95,320	NA	95,054	135	132	359	576	NA	NA	148	428
1994	139,508	40,939	11,958	4,265	NA	21,968	1,644	1,104	154	NA	NA	NA	154	97,425	NA	97,147	138	139	374	617	NA	NA	151	465
1995	150,123	43,062	12,296	4,550	NA	23,663	1,566	987	163	NA	NA	NA	163	105,859	NA	105,567	144	148	382	657	NA	NA	150	506
1996	158,251	40,904	11,777	4,496	NA	22,251	1,471	910	167	NA	NA	NA	167	116,080	NA	115,773	150	157	398	702	NA	NA	150	552
1997	164,947	41,366	11,635	4,269	NA	23,229	1,353	880	156	NA	NA	NA	156	122,202	NA	121,858	146	198	392	832	NA	NA	144	688
1998	183,525	41,484	11,684	4,203	NA	23,399	1,235	964	147	NA	NA	NA	147	140,590	NA	140,237	146	208	385	918	NA	NA	143	775
1999	192,817	38,229	11,572	4,165	NA	20,697	887	908	151	NA	NA	NA	151	153,042	NA	152,670	149	222	403	992	NA	NA	152	840
2000	206,963	33,599	11,451	4,252	NA	16,498	690	708	154	NA	NA	NA	154	171,641	NA	171,254	149	238	427	1,142	NA	NA	159	982
2001	200,369	33,936	13,208	3,907	NA	14,975	803	1,043	167	9	NA	NA	158	164,499	55	164,065	145	235	451	1,315	85	NA	168	1,062
2002	207,781	35,012	13,876	3,890	NA	15,359	786	1,101	181	11	NA	NA	170	170,602	47	170,189	142	225	496	1,489	95	NA	184	1,209
2003	202,452	34,649	14,580	4,364	NA	13,765	1,083	857	198	12	NA	NA	186	165,425	49	165,009	141	225	534	1,647	90	NA	194	1,362
2004	199,005	38,482	14,302	5,118	NA	16,179	1,423	1,459	201	13	NA	NA	188	158,195	50	157,782	139	224	535	1,593	68	NA	194	1,331
2005	212,931	39,755	15,213	5,059	NA	16,863	1,304	1,316	191	12	NA	NA	178	170,768	55	170,345	138	230	540	1,677	71	NA	192	1,414
2006	224,565	40,886	16,969	4,596	NA	17,635	1,023	636	236	11	NA	NA	171	181,204	61	180,767	138	239	543	1,696	71	NA	190	1,435
2007	234,433	40,752	18,509	5,398	NA	15,267	965	583	239	9	NA	NA	175	191,083	48	190,646	142	247	550	1,808	58	NA	199	1,552
2008	261,792	55,044	17,700	6,141	NA	29,712	892	567	473	8	NA	225	187	203,387	45	202,935	155	251	588	2,301	48	333	219	1,702
2009	255,808	56,053	17,245	6,159	NA	30,435	1,624	550	438	8	NA	144	226	196,082	39	195,614	189	241	706	2,528	46	361	275	1,846
2010	247,673	56,447	18,616	6,825	NA	27,750	2,578	630	450	10	NA	112	254	187,059	39	186,569	211	239	812	2,904	45	641	320	1,899
2011	261,639	56,687	21,178	6,568	NA	25,387	2,740	765	547	6	NA	223	248	200,891	39	200,392	213	247	866	2,647	37	389	326	1,895
2012	258,942	53,100	18,953	6,303	NA	24,559	2,746	492	408	9	NA	97	236	201,952	41	201,445	218	248	920	2,563	38	295	335	1,895

TABLE 9. U.S. development expenditures, by source of funds and performing sector: 1953–2015

Year	All funding sources		Federal						Nonfederal government					Business					Higher education					Other nonprofit organizations				
	All performers	Total	Federal intramural		Non-federal government		Higher education		Total	Non-federal government		Higher education		Total	Business		Higher education		Total	Higher education		Total	Business		Higher education			
			FFRDC	ONP	FFRDC	ONP	FFRDC	ONP		FFRDC	ONP	FFRDC	ONP		FFRDC	ONP	FFRDC	ONP		FFRDC	ONP		FFRDC	ONP	FFRDC	ONP		
2013	267,627	48,464	18,486	6,146	NA	20,702	2,642	443	430	11	NA	118	236	214,888	46	214,357	227	258	963	2,882	34	498	354	1,996				
2014 ^a	276,085	44,165	18,383	6,126	NA	16,621	2,566	424	390	6	NA	80	238	227,452	51	226,894	240	268	1,007	3,072	32	574	377	2,089				
2015 ^b	288,155	38,792	17,410	6,342	NA	12,093	2,539	364	377	4	NA	74	233	244,798	47	244,218	252	281	1,060	3,127	30	534	398	2,165				

NA = not available.

FFRDC = federally funded R&D center; ONP = other nonprofit organization.

^a Some data for 2014 are preliminary and may later be revised.

^b The data for 2015 are estimates and will later be revised.

NOTES: This table reaggregates the R&D performer data in table 5 according to major categories of R&D funding: federal government, nonfederal government (state and local), business, higher education, and other nonprofit organizations. Business sources of R&D funding in this table include the own funds of domestic R&D performing businesses, funds from other domestic businesses, and funds from foreign businesses. For interpretive detail on the R&D performers listed, see table 2, footnotes a–f. Detail may not add to total due to rounding. Constant-dollar estimates are derived from unrounded data. For comparisons, use only the historical data reported in this table because some back-year data may have been revised. Except for the nonprofit sector, data are based on annual reports by performers in the National Science Foundation's annual R&D expenditure surveys: Business R&D and Innovation Survey, Higher Education R&D Survey, Survey of Federal Funds for R&D, FFRDC R&D Expenditures Survey, and Survey of State Government R&D. R&D expenditures by business performers—and also, before 2001, industry-administered FFRDCs—are collected on a calendar year basis. Expenditures for other performers are calendar year approximations based on fiscal year data (see table 5, general notes). The 1998–2015 data for ONP R&D performance funded by businesses and the nonprofit sector itself are estimated, based on parameters from the 1996–97 Survey of R&D Funding and Performance by Nonprofit Organizations. Type-of-R&D data for business R&D in 1998–2007 were revised in response to data quality review considerations and are not directly comparable with the data for 1997 and earlier years. For 2008 and onward, the type-of-R&D splits for other than total, own-funded, and federally funded R&D are estimated (see also table 2, footnote d). Type-of-R&D data for FFRDC R&D in 1953–54 include only those of university-administered FFRDCs. Starting in 2001, type-of-R&D data distinguish federally funded from nonfederally funded FFRDC R&D (see also table 2, footnote b). The type-of-R&D estimation procedure for higher education R&D was revised in 1998 and again in 2010; hence, these data are not directly comparable with data reported for earlier years. Furthermore, the type-of-R&D splits for other than total and federally funded are estimated (see also table 2, footnote e). Type-of-R&D data for R&D by other nonprofit organizations in 1998 and later years are estimated, except for those that are federally funded (see also table 2, footnote f). Type-of-R&D data for state intramural R&D are not currently collected by the Survey of State Government R&D (see also table 2, footnote c).

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, National Patterns of R&D Resources (annual series).