

TABLE 5. U.S. development expenditures, by performing sector and source of funds: 1953–2015

Year	All performers	All federal	Federal intramural ^a	FFRDCs ^b		Nonfederal government ^c						Business ^d				Higher education ^e				Other nonprofit organizations ^f			
	All funding sources	Total	Federal	Total	Federal	Total	Total	Own domestic	Federal	Other domestic business	Foreign business	Other	Total	Federal	Nonfederal government	Business	Higher education	ONP	Total	Federal	Business	ONP	
	Current \$millions																						
1953	3,412	614	567	48	48	NA	2,753	1,630	1,123	NA	NA	NA	16	9	3	1	3	1	29	17	6	6	
1954	3,734	599	537	62	62	NA	3,090	1,685	1,405	NA	NA	NA	17	9	3	1	3	1	29	15	7	7	
1955	4,113	713	543	171	171	NA	3,352	1,738	1,614	NA	NA	NA	21	12	4	2	3	1	27	12	8	7	
1956	5,854	978	631	348	348	NA	4,826	2,267	2,559	NA	NA	NA	25	14	4	2	4	2	26	11	8	7	
1957	6,681	1,157	728	429	429	NA	5,474	2,174	3,300	NA	NA	NA	26	12	5	3	4	2	25	9	8	8	
1958	7,213	1,227	842	386	386	NA	5,932	2,241	3,691	NA	NA	NA	28	13	6	3	4	2	26	9	8	9	
1959	8,463	1,417	940	477	477	NA	6,983	2,557	4,426	NA	NA	NA	31	16	6	3	5	2	33	14	9	10	
1960	9,360	1,562	1,003	559	559	NA	7,734	2,935	4,799	NA	NA	NA	35	19	6	3	5	2	30	10	10	10	
1961	9,930	1,760	1,090	670	670	NA	8,106	3,189	4,917	NA	NA	NA	38	22	7	2	5	2	28	4	10	14	
1962	10,114	1,845	1,227	618	618	NA	8,196	3,246	4,950	NA	NA	NA	40	23	8	2	6	2	34	5	11	18	
1963	11,539	2,133	1,465	668	668	NA	9,330	3,535	5,795	NA	NA	NA	40	22	8	2	6	2	37	6	11	20	
1964	12,506	2,419	1,680	739	739	NA	10,004	3,848	6,156	NA	NA	NA	49	30	8	2	7	3	35	6	11	18	
1965	13,215	2,463	1,789	674	674	NA	10,637	4,419	6,218	NA	NA	NA	71	48	9	2	8	4	45	13	12	20	
1966	14,490	2,540	1,886	654	654	NA	11,810	4,961	6,849	NA	NA	NA	87	61	9	2	10	5	53	16	14	23	
1967	15,332	2,649	1,943	706	706	NA	12,539	5,744	6,795	NA	NA	NA	93	66	9	3	10	7	51	12	15	24	
1968	16,154	2,628	1,904	724	724	NA	13,370	6,326	7,044	NA	NA	NA	102	72	8	4	9	9	55	13	16	26	
1969	17,051	2,807	2,016	792	792	NA	14,071	7,127	6,944	NA	NA	NA	110	80	7	5	8	10	63	17	18	28	
1970	16,925	3,047	2,258	790	790	NA	13,698	7,466	6,232	NA	NA	NA	112	84	6	5	7	10	68	20	18	30	
1971	17,399	3,313	2,473	841	841	NA	13,924	7,757	6,167	NA	NA	NA	98	69	8	4	9	9	64	12	19	33	
1972	18,743	3,502	2,639	863	863	NA	15,043	8,510	6,533	NA	NA	NA	101	63	12	4	14	9	98	44	19	35	
1973	20,197	3,517	2,657	860	860	NA	16,394	9,773	6,621	NA	NA	NA	126	71	18	5	20	13	160	102	20	38	
1974	21,504	3,748	2,765	983	983	NA	17,421	10,868	6,553	NA	NA	NA	141	75	20	7	25	15	195	131	22	42	
1975	22,706	3,993	2,890	1,103	1,103	NA	18,352	11,569	6,783	NA	NA	NA	156	83	22	8	27	16	205	135	23	47	
1976	25,085	4,286	2,972	1,315	1,315	NA	20,412	12,890	7,522	NA	NA	NA	182	100	24	12	31	16	205	128	25	52	
1977	27,667	4,606	3,188	1,418	1,418	NA	22,603	14,328	8,275	NA	NA	NA	254	153	28	15	40	19	204	119	27	58	
1978	31,056	5,261	3,676	1,584	1,584	NA	25,216	16,460	8,756	NA	NA	NA	373	254	32	15	49	24	207	113	30	64	
1979	35,445	5,697	3,944	1,753	1,753	NA	29,033	19,145	9,888	NA	NA	NA	469	336	34	16	56	28	246	143	32	71	
1980	40,748	6,081	4,072	2,009	2,009	NA	33,848	22,891	10,957	NA	NA	NA	518	362	38	19	68	31	301	187	35	79	
1981	46,305	6,705	4,530	2,175	2,175	NA	38,547	25,756	12,791	NA	NA	NA	568	386	44	24	80	35	485	360	37	88	
1982	51,879	7,348	5,178	2,170	2,170	NA	43,434	29,219	14,215	NA	NA	NA	597	397	46	27	88	39	500	362	40	98	
1983	57,771	8,491	6,106	2,385	2,385	NA	48,064	32,542	15,522	NA	NA	NA	617	399	47	31	97	43	599	447	44	109	

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Year	All per- formers	All federal	Federal intramural ^a	FFRDCs ^b		Nonfederal govern- ment ^c							Business ^d				Higher education ^e				Other nonprofit organizations ^f			
	All funding sources	Total	Federal	Total	Federal	Total	Total	Own domestic	Federal	Other domestic business	Foreign business	Other	Total	Federal	Nonfederal govern- ment	Busi- ness	Higher ed- ucation	ONP	Total	Federal	Busi- ness	ONP		
	1984	66,461	9,651	7,078	2,572	2,572	NA	55,371	37,731	17,640	NA	NA	NA	677	435	51	37	108	47	762	594	47	120	
1985	74,522	10,916	8,011	2,906	2,906	NA	62,020	41,762	20,258	NA	NA	NA	756	486	57	43	120	49	829	644	51	134		
1986	75,855	11,376	8,275	3,101	3,101	NA	62,871	41,354	21,517	NA	NA	NA	818	513	65	50	136	53	790	587	55	149		
1987	79,929	11,496	8,176	3,321	3,321	NA	66,789	42,667	24,122	NA	NA	NA	945	599	73	57	155	61	698	474	60	165		
1988	84,567	12,460	8,864	3,596	3,596	NA	70,353	46,634	23,719	NA	NA	NA	1,098	698	83	66	180	71	655	407	65	183		
1989	87,723	12,991	9,355	3,635	3,635	NA	72,725	51,676	21,049	NA	NA	NA	1,227	773	91	76	205	81	780	507	70	203		
1990	94,067	13,363	9,700	3,663	3,663	NA	78,376	59,410	18,966	NA	NA	NA	1,407	910	99	83	226	89	920	619	75	226		
1991	95,105	12,230	8,778	3,452	3,452	NA	80,286	63,030	17,256	NA	NA	NA	1,534	1,012	103	86	239	94	1,054	722	82	251		
1992	99,811	12,521	9,098	3,423	3,423	NA	84,569	67,388	17,181	NA	NA	NA	1,596	1,055	105	91	246	100	1,125	758	88	279		
1993	99,705	12,058	9,071	2,986	2,986	NA	84,757	68,674	16,083	NA	NA	NA	1,700	1,127	109	97	259	107	1,191	787	95	309		
1994	102,938	11,970	8,823	3,147	3,147	NA	87,890	71,681	16,209	NA	NA	NA	1,816	1,213	114	102	276	112	1,261	815	103	343		
1995	113,079	12,689	9,262	3,427	3,427	NA	97,342	79,518	17,824	NA	NA	NA	1,812	1,180	123	108	288	113	1,236	744	111	381		
1996	121,377	12,481	9,033	3,448	3,448	NA	105,863	88,797	17,066	NA	NA	NA	1,791	1,128	128	115	305	115	1,241	698	120	423		
1997	128,678	12,407	9,077	3,331	3,331	NA	113,184	95,063	18,121	NA	NA	NA	1,709	1,055	122	114	306	113	1,378	687	155	536		
1998	144,726	12,528	9,214	3,314	3,314	NA	129,041	110,589	18,452	NA	NA	NA	1,622	974	116	115	304	113	1,535	760	164	611		
1999	154,380	12,600	9,265	3,335	3,335	NA	138,807	122,236	16,571	NA	NA	NA	1,395	710	121	120	323	121	1,578	727	178	673		
2000	169,476	12,859	9,377	3,482	3,482	NA	153,745	140,235	13,510	NA	NA	NA	1,293	565	126	122	350	131	1,579	580	195	804		
2001	167,816	14,459	11,062	3,397	3,273	NA	149,952	137,410	12,542	NA	NA	NA	1,445	673	133	121	378	141	1,960	874	197	890		
2002	176,694	15,238	11,800	3,438	3,308	NA	157,788	144,727	13,061	NA	NA	NA	1,513	669	145	121	422	157	2,156	937	191	1,028		
2003	175,597	16,563	12,646	3,917	3,785	NA	155,060	143,121	11,939	NA	NA	NA	1,854	940	161	122	464	168	2,120	743	195	1,182		
2004	177,353	17,424	12,746	4,677	4,561	NA	155,034	140,615	14,419	NA	NA	NA	2,210	1,268	168	124	477	173	2,686	1,300	199	1,186		
2005	195,870	18,775	13,994	4,781	4,654	NA	172,208	156,696	15,512	NA	NA	NA	2,163	1,199	164	127	496	177	2,723	1,211	212	1,301		
2006	212,919	20,582	16,089	4,493	4,358	NA	188,112	171,392	16,720	NA	NA	NA	1,958	970	163	131	515	180	2,189	603	226	1,360		
2007	228,190	23,381	18,016	5,365	5,254	NA	200,429	185,569	14,860	NA	NA	NA	1,976	939	170	138	535	193	2,319	568	240	1,511		
2008	259,818	23,760	17,566	6,194	6,094	NA	231,447	180,724	29,488	8,882	11,799	553	2,025	885	186	154	584	217	2,500	562	249	1,689		
2009	255,808	23,497	17,245	6,252	6,159	NA	226,554	179,841	30,435	7,041	8,732	505	3,019	1,624	226	189	706	275	2,636	550	241	1,846		
2010	250,698	25,847	18,844	7,004	6,909	NA	217,700	170,036	28,089	8,035	10,778	762	4,227	2,610	257	214	822	324	2,802	638	242	1,922		
2011	270,301	28,751	21,879	6,872	6,786	NA	233,886	187,794	26,228	7,966	11,266	632	4,537	2,831	256	220	894	337	3,004	790	255	1,958		
2012	272,445	26,666	19,941	6,725	6,631	NA	238,202	192,828	25,840	7,578	11,543	413	4,687	2,889	249	229	968	352	2,773	518	261	1,994		
2013	286,173	26,436	19,767	6,668	6,572	NA	252,007	207,537	22,137	8,729	12,946	658	4,728	2,825	252	242	1,030	379	2,885	474	276	2,135		
2014 ^g	300,065	26,734	19,979	6,754	6,658	NA	265,377	223,186	18,065	8,312	15,103	711	4,812	2,789	258	260	1,094	410	3,022	461	291	2,270		
2015 ^h	316,298	26,161	19,110	7,051	6,962	NA	282,012	245,380	13,274	7,813	14,876	668	4,920	2,786	255	277	1,164	437	3,084	399	308	2,376		

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Year	All performers	All federal	Federal intramural ^a	FFRDCs ^b		Nonfederal government ^c						Business ^d				Higher education ^e				Other nonprofit organizations ^f			
	All funding sources	Total	Federal	Total	Federal	Total	Total	Own domestic	Federal	Other domestic business	Foreign business	Other	Total	Federal	Nonfederal government	Business	Higher education	ONP	Total	Federal	Business	ONP	
	Constant 2009 \$millions																						
1953	22,510	4,051	3,738	313	313	NA	18,165	10,755	7,410	NA	NA	NA	106	56	19	7	17	7	188	109	40	40	
1954	24,412	3,913	3,511	402	402	NA	20,202	11,016	9,185	NA	NA	NA	111	56	23	7	20	7	186	95	46	46	
1955	26,435	4,582	3,486	1,096	1,096	NA	21,544	11,169	10,375	NA	NA	NA	135	74	24	10	21	6	174	77	51	45	
1956	36,384	6,078	3,919	2,160	2,160	NA	29,992	14,090	15,903	NA	NA	NA	155	84	27	12	22	9	158	65	50	44	
1957	40,185	6,956	4,376	2,580	2,580	NA	32,926	13,076	19,850	NA	NA	NA	156	72	32	15	25	12	147	51	48	48	
1958	42,429	7,218	4,950	2,268	2,268	NA	34,897	13,182	21,715	NA	NA	NA	162	74	33	18	26	12	153	53	47	53	
1959	49,092	8,217	5,453	2,764	2,764	NA	40,507	14,833	25,674	NA	NA	NA	180	90	35	17	26	12	189	78	52	58	
1960	53,557	8,935	5,736	3,199	3,199	NA	44,253	16,794	27,460	NA	NA	NA	197	109	36	14	27	11	172	57	57	57	
1961	56,201	9,958	6,166	3,792	3,792	NA	45,875	18,049	27,826	NA	NA	NA	212	122	39	11	29	11	156	20	57	79	
1962	56,548	10,315	6,860	3,455	3,455	NA	45,821	18,148	27,673	NA	NA	NA	224	126	43	11	32	11	187	25	62	101	
1963	63,794	11,792	8,099	3,693	3,693	NA	51,579	19,543	32,036	NA	NA	NA	221	122	44	11	34	11	202	30	61	111	
1964	68,092	13,171	9,147	4,024	4,024	NA	54,469	20,951	33,518	NA	NA	NA	264	161	43	11	36	14	188	30	60	98	
1965	70,663	13,167	9,563	3,604	3,604	NA	56,878	23,629	33,249	NA	NA	NA	377	257	46	11	42	21	241	70	64	107	
1966	75,361	13,208	9,809	3,399	3,399	NA	61,425	25,803	35,622	NA	NA	NA	452	317	49	10	50	26	276	83	73	120	
1967	77,488	13,386	9,820	3,566	3,566	NA	63,375	29,031	34,343	NA	NA	NA	470	331	43	13	51	33	258	61	76	121	
1968	78,308	12,737	9,230	3,507	3,507	NA	64,814	30,667	34,148	NA	NA	NA	492	347	38	19	45	44	264	61	78	126	
1969	78,784	12,971	9,314	3,657	3,657	NA	65,016	32,931	32,085	NA	NA	NA	506	367	33	23	37	46	291	79	83	129	
1970	74,281	13,375	9,910	3,465	3,465	NA	60,119	32,767	27,352	NA	NA	NA	492	366	28	22	31	44	296	86	79	132	
1971	72,669	13,838	10,327	3,511	3,511	NA	58,157	32,399	25,758	NA	NA	NA	409	288	33	17	36	36	265	48	79	138	
1972	75,042	14,020	10,567	3,453	3,453	NA	60,227	34,071	26,156	NA	NA	NA	404	250	50	14	54	36	390	174	76	140	
1973	76,688	13,355	10,090	3,265	3,265	NA	62,249	37,109	25,140	NA	NA	NA	477	268	66	19	76	47	608	387	76	144	
1974	74,921	13,058	9,635	3,423	3,423	NA	60,695	37,864	22,831	NA	NA	NA	490	260	70	23	85	52	679	456	75	147	
1975	72,402	12,732	9,215	3,517	3,517	NA	58,519	36,890	21,629	NA	NA	NA	498	263	71	26	88	51	653	429	75	149	
1976	75,825	12,956	8,983	3,973	3,973	NA	61,699	38,962	22,737	NA	NA	NA	550	301	72	35	94	48	619	385	76	157	
1977	78,745	13,110	9,073	4,037	4,037	NA	64,331	40,779	23,552	NA	NA	NA	723	435	79	41	114	53	581	339	78	165	
1978	82,591	13,990	9,777	4,214	4,214	NA	67,060	43,774	23,286	NA	NA	NA	991	675	85	39	130	62	549	300	79	171	
1979	87,078	13,995	9,688	4,306	4,306	NA	71,324	47,033	24,292	NA	NA	NA	1,153	826	84	38	137	68	605	351	79	175	
1980	91,822	13,704	9,177	4,527	4,527	NA	76,274	51,583	24,691	NA	NA	NA	1,167	815	86	44	152	69	678	421	78	179	
1981	95,433	13,820	9,337	4,483	4,483	NA	79,443	53,082	26,362	NA	NA	NA	1,170	795	90	49	164	72	1,000	741	77	181	
1982	100,677	14,259	10,048	4,211	4,211	NA	84,288	56,702	27,586	NA	NA	NA	1,158	771	88	52	171	76	971	703	78	190	
1983	107,854	15,851	11,399	4,453	4,453	NA	89,731	60,753	28,978	NA	NA	NA	1,152	745	88	58	182	80	1,119	835	82	203	

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	All funding sources	Total	Federal	Total	Federal	Total	Total	Own domestic	Business ^d			Total	Federal	Nonfederal govern- ment	Busi- ness	Higher ed- ucation		ONP	Total	Federal	Busi- ness	ONP		
									Federal	Other domestic business	Foreign business					Other	Busi- ness						Higher ed- ucation	
1984	119,823	17,399	12,761	4,638	4,638	NA	99,829	68,025	31,803	NA	NA	NA	1,221	784	93	66	194	84	1,374	1,072	85	217		
1985	130,191	19,071	13,995	5,076	5,076	NA	108,351	72,959	35,391	NA	NA	NA	1,321	849	100	76	210	86	1,448	1,125	89	234		
1986	129,899	19,481	14,170	5,311	5,311	NA	107,664	70,817	36,847	NA	NA	NA	1,400	879	112	86	233	90	1,354	1,004	95	254		
1987	133,470	19,198	13,652	5,545	5,545	NA	111,529	71,248	40,281	NA	NA	NA	1,577	1,000	122	95	259	101	1,166	791	100	276		
1988	136,439	20,103	14,301	5,802	5,802	NA	113,507	75,239	38,268	NA	NA	NA	1,772	1,127	133	107	290	115	1,057	657	104	296		
1989	136,234	20,174	14,529	5,645	5,645	NA	112,942	80,253	32,689	NA	NA	NA	1,906	1,201	142	118	318	126	1,212	787	108	316		
1990	140,874	20,013	14,527	5,486	5,486	NA	117,375	88,972	28,403	NA	NA	NA	2,107	1,363	149	124	339	133	1,378	927	113	338		
1991	137,842	17,726	12,722	5,004	5,004	NA	116,364	91,354	25,010	NA	NA	NA	2,223	1,466	149	125	347	136	1,528	1,047	118	364		
1992	141,438	17,743	12,892	4,851	4,851	NA	119,840	95,493	24,347	NA	NA	NA	2,262	1,495	149	129	348	141	1,594	1,074	125	395		
1993	138,005	16,689	12,556	4,133	4,133	NA	117,315	95,054	22,261	NA	NA	NA	2,352	1,560	151	135	359	148	1,649	1,089	132	428		
1994	139,508	16,223	11,958	4,265	4,265	NA	119,115	97,147	21,968	NA	NA	NA	2,461	1,644	154	138	374	151	1,709	1,104	139	465		
1995	150,123	16,846	12,296	4,550	4,550	NA	129,230	105,567	23,663	NA	NA	NA	2,405	1,566	163	144	382	150	1,641	987	148	506		
1996	158,251	16,273	11,777	4,496	4,496	NA	138,024	115,773	22,251	NA	NA	NA	2,336	1,471	167	150	398	150	1,618	910	157	552		
1997	164,947	15,904	11,635	4,269	4,269	NA	145,086	121,858	23,229	NA	NA	NA	2,191	1,353	156	146	392	144	1,766	880	198	688		
1998	183,525	15,887	11,684	4,203	4,203	NA	163,635	140,237	23,399	NA	NA	NA	2,056	1,235	147	146	385	143	1,947	964	208	775		
1999	192,817	15,737	11,572	4,165	4,165	NA	173,367	152,670	20,697	NA	NA	NA	1,742	887	151	149	403	152	1,971	908	222	840		
2000	206,963	15,703	11,451	4,252	4,252	NA	187,752	171,254	16,498	NA	NA	NA	1,579	690	154	149	427	159	1,928	708	238	982		
2001	200,369	17,263	13,208	4,056	3,907	NA	179,039	164,065	14,975	NA	NA	NA	1,726	803	158	145	451	168	2,341	1,043	235	1,062		
2002	207,781	17,919	13,876	4,043	3,890	NA	185,548	170,189	15,359	NA	NA	NA	1,779	786	170	142	496	184	2,535	1,101	225	1,209		
2003	202,452	19,096	14,580	4,515	4,364	NA	178,774	165,009	13,765	NA	NA	NA	2,138	1,083	186	141	534	194	2,444	857	225	1,362		
2004	199,005	19,551	14,302	5,248	5,118	NA	173,962	157,782	16,179	NA	NA	NA	2,479	1,423	188	139	535	194	3,014	1,459	224	1,331		
2005	212,931	20,411	15,213	5,197	5,059	NA	187,208	170,345	16,863	NA	NA	NA	2,352	1,304	178	138	540	192	2,961	1,316	230	1,414		
2006	224,565	21,708	16,969	4,738	4,596	NA	198,401	180,767	17,635	NA	NA	NA	2,065	1,023	171	138	543	190	2,309	636	239	1,435		
2007	234,433	24,021	18,509	5,512	5,398	NA	205,913	190,646	15,267	NA	NA	NA	2,030	965	175	142	550	199	2,382	583	247	1,552		
2008	261,792	23,941	17,700	6,241	6,141	NA	233,205	182,097	29,712	8,950	11,889	558	2,041	892	187	155	588	219	2,519	567	251	1,702		
2009	255,808	23,497	17,245	6,252	6,159	NA	226,554	179,841	30,435	7,041	8,732	505	3,019	1,624	226	189	706	275	2,636	550	241	1,846		
2010	247,673	25,535	18,616	6,919	6,825	NA	215,073	167,984	27,750	7,938	10,648	753	4,176	2,578	254	211	812	320	2,768	630	239	1,899		
2011	261,639	27,830	21,178	6,652	6,568	NA	226,391	181,776	25,387	7,711	10,905	611	4,392	2,740	248	213	866	326	2,907	765	247	1,895		
2012	258,942	25,345	18,953	6,392	6,303	NA	226,396	183,271	24,559	7,202	10,971	392	4,455	2,746	236	218	920	335	2,635	492	248	1,895		

TABLE 5. U.S. development expenditures, by performing sector and source of funds: 1953–2015

Year	All performers	All federal	Federal intramural ^a	FFRDCs ^b		Nonfederal government ^c		Business ^d				Higher education ^e				Other nonprofit organizations ^f						
	All funding sources	Total	Federal	Total	Federal	Total	Total	Own domestic	Federal	Other domestic business	Foreign business	Other	Total	Federal	Nonfederal government	Business	Higher education	ONP	Total	Federal	Business	ONP
2013	267,627	24,722	18,486	6,236	6,146	NA	235,675	194,087	20,702	8,163	12,107	615	4,421	2,642	236	227	963	354	2,698	443	258	1,996
2014 ^g	276,085	24,597	18,383	6,214	6,126	NA	244,169	205,350	16,621	7,648	13,896	654	4,428	2,566	238	240	1,007	377	2,781	424	268	2,089
2015 ^h	288,155	23,833	17,410	6,423	6,342	NA	256,920	223,548	12,093	7,118	13,552	609	4,482	2,539	233	252	1,060	398	2,809	364	281	2,165

NA = not available.

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

^a See table 2, footnote a.

^b Type-of-R&D data for FFRDC R&D in 1953–54 includes the R&D of only 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.)

^c 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.)

^d 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 later years, 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.)

^e 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. Type-of-R&D splits for other than total and federally funded are estimated. (See also table 2, footnote e.)

^f Type-of-R&D data for R&D by other nonprofit organizations in 1998 and later years are estimated, except for the R&D that is federally funded. (See also table 2, footnote f.)

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

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

NOTES: Detail may not add to total due to rounding. Constant-dollar estimates are derived from unrounded data. For trend comparisons, use only the historical data reported in this table, as 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. For federal performers in 1977 and afterward, the approximation equals 75% of the amount reported in the same fiscal year plus 25% of the amount reported in the subsequent fiscal year. Prior to 1977, the federal fiscal year began on 1 July, not 1 October, and the approximation is 50% of the amount reported in the same fiscal year plus 50% of the amount reported in the subsequent fiscal year. The fiscal year for higher education performers and state government performers generally begins 1 July, and the calendar year approximation is 50% of the amount reported in the same fiscal year plus 50% of the amount reported in the subsequent fiscal year.

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