

TABLE 3. U.S. basic research expenditures, by performing sector and source of funds: 1953–2016

Year	All performers All federal	Federal		Nonfederal government			Business ^d						Higher education ^e				Other nonprofit organizations ^f						
		All funding sources	Total	Federal	FFRDCs ^b		Total	Total	Own domestic	Federal	Other domestic business	Foreign business	Other	Total	Federal	Nonfederal government	Business	Higher education	ONP	Total	Federal	Business	ONP
					Total	Federal																	
Current \$millions																							
1953	460	138	102	36	36	NA	151	132	19	NA	NA	NA	123	82	7	13	6	16	48	27	9	12	
1954	509	141	96	45	45	NA	166	143	23	NA	NA	NA	148	97	10	15	8	18	55	31	11	13	
1955	570	160	98	62	62	NA	169	162	7	NA	NA	NA	180	117	14	17	12	21	62	35	13	14	
1956	718	203	114	89	89	NA	223	216	7	NA	NA	NA	220	143	19	20	15	24	73	41	15	17	
1957	813	234	124	110	110	NA	234	230	4	NA	NA	NA	261	167	25	23	20	27	86	48	15	23	
1958	943	264	149	115	115	NA	266	252	14	NA	NA	NA	312	202	31	24	24	31	102	58	16	28	
1959	1,087	298	165	134	134	NA	282	248	34	NA	NA	NA	388	263	38	24	28	36	119	71	18	30	
1960	1,286	334	184	150	150	NA	333	297	36	NA	NA	NA	485	341	45	25	33	41	135	84	21	30	
1961	1,511	407	230	177	177	NA	344	314	30	NA	NA	NA	598	432	54	25	40	48	163	104	22	37	
1962	1,824	441	252	189	189	NA	449	345	104	NA	NA	NA	737	546	64	25	48	55	198	128	24	46	
1963	2,115	501	285	216	216	NA	484	375	109	NA	NA	NA	909	689	75	25	58	63	222	147	25	50	
1964	2,396	584	339	245	245	NA	507	384	123	NA	NA	NA	1,071	824	84	25	70	68	235	163	25	47	
1965	2,664	625	375	250	250	NA	563	406	157	NA	NA	NA	1,221	944	94	27	86	70	256	175	29	52	
1966	2,930	683	410	273	273	NA	593	451	142	NA	NA	NA	1,380	1,066	104	29	106	75	274	184	32	58	
1967	3,168	735	434	301	301	NA	595	427	168	NA	NA	NA	1,554	1,188	114	34	136	83	285	190	34	61	
1968	3,376	797	482	315	315	NA	607	462	145	NA	NA	NA	1,681	1,265	131	38	156	91	292	192	37	63	
1969	3,491	858	545	313	313	NA	581	458	123	NA	NA	NA	1,754	1,288	153	40	171	103	298	188	43	67	
1970	3,594	866	562	304	304	NA	566	444	122	NA	NA	NA	1,855	1,323	179	43	196	115	307	191	44	72	
1971	3,720	870	581	289	289	NA	557	456	101	NA	NA	NA	1,968	1,385	194	50	214	127	326	204	45	77	
1972	3,850	915	603	313	313	NA	554	463	91	NA	NA	NA	2,038	1,437	195	55	216	134	344	213	47	84	
1973	4,099	1,034	652	382	382	NA	595	499	96	NA	NA	NA	2,103	1,489	196	59	223	137	368	229	49	90	
1974	4,511	1,182	715	467	467	NA	650	536	114	NA	NA	NA	2,282	1,609	204	66	250	153	397	242	54	102	
1975	4,875	1,292	760	533	533	NA	677	573	104	NA	NA	NA	2,480	1,768	212	72	264	164	426	251	59	116	
1976	5,373	1,479	850	629	629	NA	750	634	116	NA	NA	NA	2,675	1,924	218	75	283	175	470	274	65	131	
1977	6,008	1,689	943	746	746	NA	836	701	135	NA	NA	NA	2,967	2,114	232	89	334	198	517	297	72	148	
1978	6,959	2,049	1,044	1,005	1,005	NA	941	785	156	NA	NA	NA	3,376	2,399	260	107	398	213	593	346	79	168	
1979	7,836	2,272	1,112	1,160	1,160	NA	1,054	893	161	NA	NA	NA	3,828	2,719	286	128	466	229	683	406	87	190	
1980	8,747	2,506	1,212	1,294	1,294	NA	1,205	1,035	170	NA	NA	NA	4,315	3,061	307	156	544	248	721	411	95	215	
1981	9,658	2,773	1,343	1,430	1,430	NA	1,477	1,313	164	NA	NA	NA	4,737	3,331	338	183	615	269	671	324	105	243	
1982	10,651	3,025	1,522	1,503	1,503	NA	1,776	1,523	253	NA	NA	NA	5,091	3,475	368	215	716	317	759	369	115	275	
1983	11,880	3,393	1,733	1,661	1,661	NA	2,106	1,760	346	NA	NA	NA	5,518	3,689	396	260	816	358	863	426	127	311	

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	All federal	intramural ^a	FFRDCs ^b	government ^c	Business ^d			Higher education ^e				Other nonprofit organizations ^f										
	Total	Federal	Total	Federal	Total	Own	Other domestic	Foreign	Other	Total	Federal	Nonfederal	Busi- ness	Higher ed- ucation	ONP	Total	Federal	Busi- ness	ONP			
1984	13,332	3,731	1,877	1,854	1,854	NA	2,472	2,132	340	NA	NA	NA	6,145	4,087	436	313	915	395	984	494	139	351
1985	14,748	3,884	1,947	1,936	1,936	NA	2,731	2,373	358	NA	NA	NA	7,024	4,606	514	389	1,075	440	1,110	560	153	397
1986	17,154	4,071	2,026	2,045	2,045	NA	3,930	3,496	434	NA	NA	NA	7,943	5,122	606	466	1,262	488	1,210	594	168	449
1987	18,481	4,290	2,047	2,242	2,242	NA	4,181	3,583	598	NA	NA	NA	8,644	5,527	659	514	1,399	545	1,367	675	185	507
1988	19,787	4,749	2,116	2,633	2,633	NA	4,163	3,507	656	NA	NA	NA	9,344	5,937	705	565	1,530	607	1,531	756	203	573
1989	21,891	5,124	2,309	2,815	2,815	NA	4,818	3,832	986	NA	NA	NA	10,219	6,422	766	637	1,714	680	1,730	860	223	647
1990	23,029	5,352	2,319	3,033	3,033	NA	4,629	3,760	869	NA	NA	NA	11,126	6,889	847	705	1,929	756	1,922	947	245	730
1991	27,140	5,573	2,378	3,195	3,195	NA	7,376	6,125	1,251	NA	NA	NA	12,062	7,423	912	764	2,127	836	2,129	1,036	269	825
1992	27,604	5,826	2,419	3,408	3,408	NA	6,528	5,816	712	NA	NA	NA	12,910	8,058	941	814	2,203	893	2,340	1,114	295	931
1993	28,743	6,138	2,621	3,517	3,517	NA	6,427	5,961	466	NA	NA	NA	13,646	8,638	952	851	2,268	936	2,532	1,157	324	1,051
1994	29,651	6,058	2,547	3,512	3,512	NA	6,514	6,078	436	NA	NA	NA	14,401	9,139	992	890	2,406	974	2,678	1,137	356	1,186
1995	29,610	5,996	2,689	3,307	3,307	NA	5,569	5,379	190	NA	NA	NA	15,147	9,634	1,070	945	2,511	987	2,899	1,170	390	1,338
1996	32,799	6,073	2,680	3,393	3,393	NA	7,498	6,848	650	NA	NA	NA	16,042	10,092	1,149	1,032	2,740	1,028	3,187	1,248	428	1,510
1997	36,717	6,150	2,746	3,404	3,404	NA	9,795	8,766	1,029	NA	NA	NA	17,449	10,758	1,233	1,161	3,150	1,147	3,322	1,317	449	1,557
1998	34,842	6,444	3,003	3,441	3,441	NA	5,853	4,851	1,002	NA	NA	NA	18,891	11,567	1,292	1,278	3,495	1,259	3,654	1,461	477	1,717
1999	38,282	7,066	3,347	3,719	3,719	NA	6,645	5,537	1,108	NA	NA	NA	20,462	12,456	1,386	1,375	3,848	1,396	4,110	1,734	517	1,860
2000	42,033	7,801	3,765	4,037	4,037	NA	7,040	6,115	925	NA	NA	NA	22,290	13,469	1,501	1,453	4,314	1,553	4,902	2,099	566	2,236
2001	46,843	8,832	4,260	4,571	4,404	NA	8,053	7,299	754	NA	NA	NA	24,455	14,919	1,606	1,467	4,759	1,704	5,503	2,464	571	2,467
2002	50,789	9,737	4,511	5,227	5,029	NA	7,547	6,659	888	NA	NA	NA	27,543	17,139	1,745	1,456	5,311	1,891	5,962	2,575	554	2,833
2003	54,823	9,739	4,664	5,075	4,904	NA	8,330	6,944	1,386	NA	NA	NA	30,217	19,220	1,893	1,436	5,692	1,978	6,537	2,714	567	3,256
2004	56,379	9,672	4,697	4,976	4,852	NA	7,835	6,763	1,072	NA	NA	NA	32,246	20,730	2,000	1,483	5,965	2,067	6,626	2,788	578	3,259
2005	59,904	9,907	4,770	5,136	5,000	NA	8,667	7,559	1,108	NA	NA	NA	34,248	21,786	2,068	1,600	6,568	2,226	7,082	2,903	614	3,565
2006	61,566	9,953	4,716	5,238	5,080	44	8,384	6,940	1,444	NA	NA	NA	35,944	22,270	2,191	1,765	7,288	2,431	7,240	2,849	656	3,735
2007	64,600	8,053	4,621	3,432	3,298	55	11,268	8,488	2,780	NA	NA	NA	37,568	22,546	2,400	1,956	7,932	2,733	7,656	2,829	698	4,130
2008	68,536	8,533	4,957	3,576	3,432	70	12,369	9,741	1,475	484	639	30	39,127	22,954	2,573	2,131	8,467	3,002	8,439	3,073	722	4,643
2009	72,659	10,012	5,441	4,571	4,432	86	14,784	11,999	1,340	662	736	47	38,529	22,909	2,444	1,980	8,199	2,997	9,248	3,498	698	5,051
2010	75,907	11,748	5,111	6,637	6,475	98	16,371	13,239	1,406	722	935	68	38,203	23,412	2,251	1,750	7,882	2,910	9,487	3,414	702	5,370
2011	73,019	11,522	5,047	6,475	6,333	98	13,020	10,585	677	745	954	59	39,080	23,787	2,219	1,767	8,348	2,960	9,298	3,081	740	5,477
2012	73,284	11,150	5,489	5,661	5,530	94	13,294	10,955	644	710	946	39	39,311	23,111	2,176	1,828	9,083	3,113	9,436	3,092	758	5,585
2013	78,485	9,519	5,330	4,188	4,085	88	19,508	14,986	1,196	1,446	1,771	109	39,558	22,313	2,188	1,939	9,765	3,354	9,813	3,031	802	5,980
2014	82,061	9,875	5,705	4,170	4,077	97	21,936	15,805	2,044	1,584	2,367	135	39,878	21,813	2,228	2,057	10,220	3,562	10,275	3,090	844	6,341
2015 ^g	83,462	10,053	5,926	4,127	4,043	100	21,792	15,933	2,038	1,565	2,123	133	40,983	21,888	2,277	2,176	10,880	3,763	10,534	3,010	873	6,651
2016 ^h	86,319	10,578	6,301	4,277	4,188	92	22,237	16,346	1,866	1,653	2,231	141	42,425	22,060	2,331	2,296	11,716	4,022	10,987	3,102	892	6,993

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	All federal	intramural ^a	FFRDCs ^b				Business ^d			Higher education ^e				Other nonprofit organizations ^f								
	Total	Federal	Total	Federal	Total	Total	Own domestic	Foreign	Other	Total	Federal	Nonfederal government	Business	Higher education	ONP	Total	Federal	Business	ONP			
Constant 2009 \$millions																						
1953	3,032	907	670	238	238	NA	996	871	125	NA	NA	NA	812	538	43	86	40	106	317	178	59	79
1954	3,324	919	628	291	291	NA	1,085	935	150	NA	NA	NA	964	631	62	98	55	118	356	199	72	85
1955	3,663	1,025	627	398	398	NA	1,086	1,041	45	NA	NA	NA	1,154	749	89	109	75	132	398	225	84	90
1956	4,461	1,259	705	553	553	NA	1,384	1,342	42	NA	NA	NA	1,367	886	118	121	96	146	451	252	93	106
1957	4,893	1,404	746	659	659	NA	1,407	1,383	24	NA	NA	NA	1,567	1,001	149	135	119	162	514	286	90	138
1958	5,548	1,553	876	676	676	NA	1,562	1,482	80	NA	NA	NA	1,835	1,188	183	141	141	182	597	338	94	165
1959	6,305	1,729	954	774	774	NA	1,636	1,439	197	NA	NA	NA	2,251	1,523	218	139	165	206	690	412	104	174
1960	7,356	1,908	1,050	858	858	NA	1,903	1,699	204	NA	NA	NA	2,772	1,948	258	140	192	235	772	481	120	172
1961	8,552	2,301	1,299	1,002	1,002	NA	1,950	1,777	173	NA	NA	NA	3,382	2,442	304	141	225	269	920	586	125	209
1962	10,199	2,466	1,409	1,057	1,057	NA	2,512	1,929	583	NA	NA	NA	4,118	3,050	356	140	267	305	1,104	713	134	257
1963	11,694	2,767	1,573	1,194	1,194	NA	2,678	2,073	604	NA	NA	NA	5,022	3,809	414	135	318	346	1,227	813	138	276
1964	13,046	3,180	1,846	1,334	1,334	NA	2,760	2,091	670	NA	NA	NA	5,829	4,484	459	136	379	370	1,277	885	136	256
1965	14,245	3,339	2,003	1,337	1,337	NA	3,010	2,171	840	NA	NA	NA	6,526	5,045	505	142	460	374	1,369	936	155	278
1966	15,239	3,552	2,132	1,420	1,420	NA	3,084	2,346	739	NA	NA	NA	7,178	5,544	539	151	554	390	1,425	957	166	302
1967	16,009	3,712	2,191	1,521	1,521	NA	3,007	2,158	849	NA	NA	NA	7,852	6,002	575	169	686	419	1,438	958	172	308
1968	16,366	3,861	2,337	1,525	1,525	NA	2,943	2,240	703	NA	NA	NA	8,147	6,132	634	182	757	441	1,416	931	179	305
1969	16,129	3,965	2,519	1,446	1,446	NA	2,685	2,116	568	NA	NA	NA	8,102	5,949	706	183	791	474	1,377	869	199	310
1970	15,773	3,801	2,466	1,334	1,334	NA	2,484	1,949	535	NA	NA	NA	8,141	5,804	787	189	859	503	1,347	838	193	316
1971	15,538	3,632	2,427	1,205	1,205	NA	2,326	1,905	422	NA	NA	NA	8,220	5,783	809	207	893	528	1,360	850	188	322
1972	15,414	3,663	2,412	1,251	1,251	NA	2,218	1,854	364	NA	NA	NA	8,157	5,753	782	220	865	536	1,375	851	188	336
1973	15,566	3,926	2,476	1,450	1,450	NA	2,259	1,895	365	NA	NA	NA	7,985	5,652	746	222	847	518	1,395	868	186	342
1974	15,715	4,117	2,490	1,627	1,627	NA	2,265	1,867	397	NA	NA	NA	7,949	5,606	710	230	871	531	1,384	841	188	355
1975	15,544	4,121	2,423	1,698	1,698	NA	2,159	1,827	332	NA	NA	NA	7,906	5,638	677	228	840	523	1,358	800	189	368
1976	16,241	4,471	2,569	1,901	1,901	NA	2,267	1,916	351	NA	NA	NA	8,084	5,816	658	227	856	527	1,419	827	197	395
1977	17,100	4,807	2,684	2,123	2,123	NA	2,379	1,995	384	NA	NA	NA	8,443	6,017	660	253	951	562	1,471	845	204	422
1978	18,506	5,450	2,777	2,673	2,673	NA	2,503	2,088	415	NA	NA	NA	8,978	6,380	691	283	1,059	565	1,576	920	210	446
1979	19,252	5,582	2,733	2,849	2,849	NA	2,589	2,194	396	NA	NA	NA	9,403	6,680	702	313	1,145	563	1,677	998	213	466
1980	19,710	5,648	2,732	2,916	2,916	NA	2,715	2,332	383	NA	NA	NA	9,723	6,897	691	351	1,226	559	1,624	925	215	484
1981	19,904	5,714	2,767	2,947	2,947	NA	3,044	2,706	338	NA	NA	NA	9,762	6,865	697	377	1,268	555	1,384	667	216	501
1982	20,668	5,869	2,953	2,917	2,917	NA	3,447	2,956	491	NA	NA	NA	9,880	6,743	714	418	1,390	615	1,473	716	224	533
1983	22,179	6,335	3,235	3,100	3,100	NA	3,932	3,286	646	NA	NA	NA	10,302	6,886	739	485	1,524	668	1,611	795	236	580

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			Total	Federal	Total	FFRDCs ^b	Total	Business ^d			Higher education ^e		Other nonprofit organizations ^f									
								Own	Other domestic	Foreign	Other	Total	Federal	Nonfederal government	Busi-ness	Higher ed-ucation	ONP	Total	Federal	Busi-ness	ONP	
1984	24,036	6,726	3,383	3,343	3,343	NA	4,457	3,844	613	NA	NA	NA	11,078	7,368	785	564	1,649	712	1,775	891	251	633
1985	25,766	6,785	3,402	3,383	3,383	NA	4,771	4,146	625	NA	NA	NA	12,271	8,046	899	679	1,879	768	1,939	978	267	693
1986	29,375	6,971	3,469	3,503	3,503	NA	6,730	5,987	743	NA	NA	NA	13,601	8,770	1,037	798	2,161	835	2,072	1,016	288	768
1987	30,861	7,163	3,419	3,745	3,745	NA	6,982	5,983	999	NA	NA	NA	14,434	9,229	1,100	858	2,337	910	2,282	1,128	308	846
1988	31,924	7,661	3,414	4,247	4,247	NA	6,717	5,658	1,058	NA	NA	NA	15,075	9,578	1,138	911	2,468	980	2,471	1,220	327	924
1989	33,996	7,958	3,585	4,372	4,372	NA	7,482	5,951	1,531	NA	NA	NA	15,870	9,973	1,189	990	2,662	1,056	2,686	1,336	346	1,004
1990	34,488	8,015	3,473	4,543	4,543	NA	6,932	5,631	1,301	NA	NA	NA	16,662	10,316	1,268	1,056	2,889	1,132	2,878	1,418	366	1,094
1991	39,336	8,077	3,447	4,631	4,631	NA	10,691	8,877	1,813	NA	NA	NA	17,482	10,759	1,322	1,107	3,083	1,211	3,086	1,501	389	1,195
1992	39,116	8,256	3,427	4,829	4,829	NA	9,251	8,242	1,009	NA	NA	NA	18,294	11,419	1,334	1,154	3,121	1,266	3,316	1,579	418	1,319
1993	39,783	8,496	3,628	4,868	4,868	NA	8,896	8,251	645	NA	NA	NA	18,888	11,956	1,318	1,178	3,140	1,296	3,504	1,601	448	1,455
1994	40,185	8,211	3,452	4,759	4,759	NA	8,828	8,237	591	NA	NA	NA	19,517	12,385	1,344	1,206	3,261	1,320	3,630	1,541	482	1,607
1995	39,311	7,961	3,570	4,390	4,390	NA	7,393	7,141	252	NA	NA	NA	20,108	12,789	1,420	1,255	3,333	1,311	3,848	1,553	518	1,777
1996	42,763	7,917	3,494	4,424	4,424	NA	9,776	8,928	847	NA	NA	NA	20,915	13,158	1,498	1,346	3,572	1,341	4,155	1,628	559	1,969
1997	47,065	7,883	3,520	4,363	4,363	NA	12,556	11,237	1,319	NA	NA	NA	22,368	13,791	1,581	1,488	4,037	1,471	4,259	1,688	576	1,995
1998	44,183	8,171	3,808	4,363	4,363	NA	7,422	6,151	1,271	NA	NA	NA	23,955	14,668	1,639	1,620	4,432	1,597	4,634	1,852	605	2,177
1999	47,814	8,825	4,180	4,645	4,645	NA	8,299	6,916	1,384	NA	NA	NA	25,556	15,558	1,731	1,718	4,807	1,743	5,133	2,166	645	2,323
2000	51,331	9,527	4,598	4,929	4,929	NA	8,597	7,468	1,130	NA	NA	NA	27,221	16,448	1,833	1,774	5,268	1,897	5,986	2,564	691	2,731
2001	55,929	10,545	5,087	5,458	5,258	NA	9,615	8,715	900	NA	NA	NA	29,199	17,813	1,917	1,752	5,682	2,035	6,570	2,942	682	2,946
2002	59,724	11,451	5,304	6,147	5,914	NA	8,875	7,831	1,044	NA	NA	NA	32,388	20,154	2,052	1,713	6,246	2,224	7,010	3,028	652	3,331
2003	63,208	11,229	5,378	5,851	5,654	NA	9,604	8,006	1,598	NA	NA	NA	34,839	22,159	2,182	1,656	6,562	2,280	7,537	3,130	653	3,754
2004	63,262	10,853	5,270	5,583	5,444	NA	8,792	7,589	1,203	NA	NA	NA	36,183	23,261	2,244	1,665	6,694	2,320	7,435	3,129	649	3,657
2005	65,122	10,770	5,186	5,584	5,435	NA	9,422	8,217	1,205	NA	NA	NA	37,231	23,683	2,248	1,740	7,140	2,420	7,699	3,155	668	3,875
2006	64,933	10,498	4,974	5,524	5,358	46	8,843	7,320	1,523	NA	NA	NA	37,911	23,488	2,311	1,861	7,687	2,564	7,636	3,005	692	3,939
2007	66,368	8,274	4,747	3,526	3,388	56	11,576	8,720	2,856	NA	NA	NA	38,595	23,163	2,466	2,010	8,149	2,808	7,866	2,907	717	4,243
2008	69,057	8,597	4,994	3,603	3,458	70	12,463	9,815	1,486	487	644	30	39,424	23,128	2,593	2,147	8,532	3,024	8,503	3,097	728	4,678
2009	72,659	10,012	5,441	4,571	4,432	86	14,784	11,999	1,340	662	736	47	38,529	22,909	2,444	1,980	8,199	2,997	9,248	3,498	698	5,051
2010	74,991	11,606	5,049	6,557	6,397	97	16,173	13,080	1,389	713	924	68	37,742	23,129	2,223	1,729	7,786	2,874	9,373	3,373	694	5,305
2011	70,679	11,153	4,885	6,268	6,130	95	12,603	10,246	655	721	924	57	37,828	23,025	2,148	1,710	8,080	2,865	9,000	2,982	716	5,302
2012	69,652	10,597	5,217	5,381	5,256	89	12,635	10,412	612	675	900	37	37,362	21,965	2,068	1,737	8,633	2,959	8,968	2,939	721	5,308
2013	73,410	8,903	4,986	3,918	3,821	82	18,247	14,017	1,119	1,352	1,656	102	37,000	20,870	2,046	1,813	9,134	3,137	9,179	2,835	750	5,593

TABLE 3. U.S. basic research expenditures, by performing sector and source of funds: 1953–2016

Year	All performers	Federal		Nonfederal government		Business ^d						Higher education ^e				Other nonprofit organizations ^f						
	All federal	intramural ^a	FFRDCs ^b			Business ^d			Higher education ^e			Other nonprofit organizations ^f										
	All funding sources	Total	Federal	Total	Federal	Total	Own domestic	Other domestic business	Foreign business	Other	Total	Federal	Nonfederal government	Business	Higher education	ONP	Total	Federal	Business	ONP		
2014	75,401	9,074	5,242	3,832	3,746	89	20,156	14,522	1,878	1,456	2,175	124	36,642	20,042	2,047	1,890	9,390	3,273	9,441	2,839	775	5,826
2015 ^g	75,866	9,138	5,387	3,751	3,675	91	19,809	14,483	1,853	1,423	1,929	121	37,253	19,896	2,069	1,978	9,890	3,420	9,575	2,736	793	6,046
2016 ^h	77,475	9,494	5,655	3,839	3,759	83	19,959	14,671	1,675	1,484	2,003	126	38,078	19,800	2,092	2,061	10,516	3,610	9,861	2,784	801	6,276

NA = not available.

FFRDC = federally funded research and development center; ONP = other nonprofit organization.

^a See Table 2, footnote a.

^b Type-of-R&D data for FFRDC R&D in 1953–54 include 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 2015 are preliminary and may later be revised.

^h The data for 2016 are estimates and will later be revised.

NOTES: Detail may not add to total because of rounding. Constant-dollar estimates are derived from unrounded data. For trend 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. 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. Before 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).