Section B.

Detailed Statistical Tables

Note

To obtain accurate historical data, use only the latest detailed statistical tables for FY 2001 and not data published earlier. Institutions revise prior years' data when important changes occur in reporting practices and program classifications, and only the latest tables incorporate such changes.

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[Dollars in millions]

Fiscal year	Total	Source of funds				
		Federal Government	State and local government	Industry	Institutional funds	All other sources
1953	255	138	37	19	35	26
1954	290	160	42	22	38	28
1955	312	169	47	25	41	30
1956	372	213	53	29	43	34
1957	410	229	60	34	49	38
1958	456	254	68	39	53	42
1959	526	306	76	39	58	47
1960	646	405	85	40	64	52
1961	763	500	95	40	70	58
1962	904	613	106	40	79	66
1963	1,081	760	118	41	89	73
1964	1,275	917	132	40	103	83
1965	1,474	1,073	143	41	124	93
1966	1,715	1,261	156	42	148	108
1967	1,921	1,409	164	48	181	119
1968	2,149	1,572	172	55	218	132
1969	2,225	1,600	197	60	223	145
1970	2,335	1,647	219	61	243	165
1971	2,500	1,724	255	70	274	177
1972	2,630	1,795	269	74	305	187
1973	2,884	1,985	295	84	318	202
1974	3,022	2,032	308	95	368	219
1975	3,409	2,288	332	113	417	259
1976	3,729	2,512	364	123	446	285
1977	4,067	2,726	374	139	514	314
1978[1]	4,625	3,059	414	170	623	359
1979	5,366	3,598	472	193	735	368
1980	6,063	4,098	491	236	835	403
1981	6,847	4,571	546	291	1,004	435
1982	7,324	4,768	616	337	1,111	491
1983	7,882	4,989	626	389	1,302	576
1984	8,620	5,431	690	475	1,411	613
1985	9,687	6,064	752	560	1,617	694
1986	10,928	6,712	915	700	1,869	732
1987	12,153	7,343	1,023	790	2,168	828
1988	13,463	8,193	1,106	872	2,356	935
1989	14,977	8,991	1,224	994	2,698	1,071
1990	16,286	9,638	1,324	1,127	3,006	1,191
1991	17,585	10,234	1,474	1,204	3,367	1,307
1992	18,818	11,093	1,491	1,279	3,547	1,409
1993	19,951	11,957	1,559	1,360	3,589	1,486
1994	21,023	12,646	1,554	1,422	3,827	1,574
1995	22,165	13,328	1,689	1,489	4,047	1,613
1996	23,040	13,836	1,811	1,605	4,170	1,618
1997	24,363	14,309	1,909	1,737	4,697	1,711
1998	25,848	15,145	1,944	1,888	5,002	1,869
1999	27,505	16,071	2,019	2,028	5,395	1,992
2000	30,042	17,508	2,196	2,152	5,933	2,253
2001	32,723	19,191	2,315	2,234	6,553	2,430

[1] Fiscal year 1978 data are estimated based on data collected from doctorate-granting institutions only.

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-2. R&D expenditures at universities and colleges, by character of work: fiscal years 1953-2001

[Dollars in millions]

Fiscal year	Total	Character of work			
		Basic research		Applied research and development	
		Amount	Percent of total	Amount	Percent of total
1953	255	110	43.1	145	56.9
1954	290	136	46.9	154	53.1
1955	312	159	51.0	153	49.0
1956	372	200	53.8	172	46.2
1957	410	240	58.5	170	41.5
1958	456	281	61.6	175	38.4
1959	526	343	65.2	183	34.8
1960	646	433	67.0	213	33.0
1961	763	536	70.2	227	29.8
1962	904	659	72.9	245	27.1
1963	1,081	814	75.3	267	24.7
1964	1,275	1,003	78.7	272	21.3
1965	1,474	1,138	77.2	336	22.8
1966	1,715	1,303	76.0	412	24.0
1967	1,921	1,457	75.8	464	24.2
1968	2,149	1,650	76.8	499	23.2
1969	2,225	1,711	76.9	514	23.1
1970	2,335	1,796	76.9	539	23.1
1971	2,500	1,914	76.6	586	23.4
1972	2,630	2,022	76.9	608	23.1
1973	2,884	2,053	71.2	831	28.8
1974	3,022	2,153	71.2	869	28.8
1975	3,409	2,410	70.7	999	29.3
1976	3,729	2,549	68.4	1,180	31.6
1977	4,067	2,800	68.8	1,267	31.2
1978[1]	4,625	--	--	--	--
1979	5,366	3,619	67.4	1,747	32.6
1980	6,063	4,036	66.6	2,026	33.4
1981	6,847	4,594	67.1	2,253	32.9
1982	7,324	4,879	66.6	2,445	33.4
1983	7,882	5,303	67.3	2,579	32.7
1984	8,620	5,733	66.5	2,887	33.5
1985	9,687	6,556	67.7	3,131	32.3
1986	10,928	7,492	68.6	3,435	31.4
1987	12,153	8,393	69.1	3,760	30.9
1988	13,463	8,894	66.1	4,569	33.9
1989	14,977	9,792	65.4	5,185	34.6
1990	16,286	10,643	65.4	5,643	34.6
1991	17,585	11,606	66.0	5,979	34.0
1992	18,818	12,516	66.5	6,302	33.5
1993	19,951	13,303	66.7	6,648	33.3
1994	21,023	13,983	66.5	7,040	33.5
1995	22,165	14,805	66.8	7,360	33.2
1996	23,040	15,475	67.2	7,565	32.8
1997	24,363	16,595	68.1	7,768	31.9
1998[2]	25,848	19,061	73.7	6,787	26.3
1999	27,505	20,332	73.9	7,173	26.1
2000	30,042	22,416	74.6	7,626	25.4
2001	32,723	24,242	74.1	8,481	25.9

[1] Separate data for basic research and applied research and development were not collected for fiscal year 1978.

[2] Basic research statistics were re-estimated for FY 1998 and forward.

KEY: -- = not available

NOTES: R&D expenditures by character of work are based on estimates of basic research provided by universities and colleges.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-2a. Federally financed R&D expenditures at universities and colleges, by character of work: fiscal years 1953-2001

[Dollars in millions]

Fiscal year	Total	Character of work			
		Basic research		Applied research and development	
		Amount	Percent of total	Amount	Percent of total
1953	138	--	--	--	--
1954	160	--	--	--	--
1955	169	--	--	--	--
1956	213	--	--	--	--
1957	229	--	--	--	--
1958	254	--	--	--	--
1959	306	--	--	--	--
1960	405	--	--	--	--
1961	500	--	--	--	--
1962	613	--	--	--	--
1963	760	--	--	--	--
1964	917	--	--	--	--
1965	1,073	--	--	--	--
1966	1,261	--	--	--	--
1967	1,409	--	--	--	--
1968	1,572	--	--	--	--
1969	1,600	--	--	--	--
1970	1,647	--	--	--	--
1971	1,724	--	--	--	--
1972	1,795	1,420	79.1	375	20.9
1973	1,985	1,454	73.2	531	26.8
1974	2,032	1,523	75.0	509	25.0
1975	2,288	1,695	74.1	593	25.9
1976	2,512	1,841	73.3	671	26.7
1977	2,726	2,007	73.6	719	26.4
1978[1]	3,059	--	--	--	--
1979	3,598	2,577	71.6	1,022	28.4
1980	4,098	2,861	69.8	1,237	30.2
1981	4,571	3,260	71.3	1,311	28.7
1982	4,768	3,402	71.3	1,367	28.7
1983	4,989	3,547	71.1	1,442	28.9
1984	5,431	3,830	70.5	1,601	29.5
1985	6,064	4,343	71.6	1,722	28.4
1986	6,712	4,868	72.5	1,844	27.5
1987	7,343	5,375	73.2	1,968	26.8
1988	8,193	5,678	69.3	2,515	30.7
1989	8,991	6,195	68.9	2,796	31.1
1990	9,638	6,648	69.0	2,990	31.0
1991	10,234	7,127	69.6	3,107	30.4
1992	11,093	7,718	69.6	3,375	30.4
1993	11,957	8,398	70.2	3,559	29.8
1994	12,646	8,875	70.2	3,771	29.8
1995	13,328	9,395	70.5	3,933	29.5
1996	13,836	9,864	71.3	3,972	28.7
1997	14,309	10,310	72.1	3,999	27.9
1998[2]	15,145	11,844	78.2	3,301	21.8
1999	16,071	12,630	78.6	3,440	21.4
2000	17,508	13,808	78.9	3,700	21.1
2001	19,191	15,017	78.3	4,174	21.7

[1] Separate data for basic research and applied research and development were not collected for fiscal year 1978.

[2] Basic research statistics were re-estimated for FY 1998 and forward.

KEY: -- = not available

NOTES: R&D expenditures by character of work are based on estimates of basic research provided by universities and colleges.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-3. R&D expenditures at universities and colleges, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	21,022,804	22,165,352	23,039,875	24,363,240	25,847,559	27,504,933	30,041,964	32,723,078
	Source of funds							
Federal Government	12,646,128	13,328,036	13,835,880	14,309,340	15,144,829	16,070,661	17,508,301	19,190,873
State and local government	1,553,775	1,688,915	1,810,712	1,908,880	1,943,534	2,019,347	2,195,888	2,315,208
Industry	1,422,170	1,488,895	1,605,258	1,736,668	1,888,171	2,027,937	2,152,389	2,233,649
Institutional funds	3,826,736	4,046,739	4,169,762	4,697,087	5,001,621	5,395,448	5,932,519	6,553,070
All other sources	1,573,995	1,612,767	1,618,263	1,711,265	1,869,404	1,991,540	2,252,867	2,430,278
	Field							
Engineering	3,354,969	3,515,040	3,707,054	3,838,747	4,068,829	4,260,182	4,546,633	4,999,648
Aeronautical and astronautical	217,376	241,069	232,942	246,966	249,684	260,337	256,164	338,569
Bioengineering/bio-medical	--	--	--	76,791	101,957	136,560	171,644	211,336
Chemical	278,687	297,060	317,186	316,667	327,074	348,987	375,185	413,544
Civil	402,837	430,781	454,629	471,802	494,823	529,160	599,765	666,706
Electrical	744,822	818,608	887,715	941,920	1,042,288	1,016,553	1,115,835	1,160,439
Mechanical	502,244	520,646	519,107	517,587	567,751	625,136	631,836	685,388
Metallurgical and materials	310,064	329,864	349,401	388,821	391,388	383,998	398,745	450,931
Other, n.e.c.	898,939	877,012	946,074	878,193	893,864	959,451	997,459	1,072,735
All sciences	17,667,835	18,650,312	19,332,821	20,524,493	21,778,730	23,244,751	25,495,331	27,723,430
Physical sciences	2,176,900	2,255,399	2,257,151	2,370,288	2,482,134	2,603,777	2,708,242	2,800,364
Astronomy	267,203	303,612	275,814	287,416	302,408	384,246	385,265	378,037
Chemistry	759,477	771,131	801,458	820,328	875,766	918,363	959,922	1,007,136
Physics	956,891	989,203	987,279	1,058,300	1,078,243	1,148,698	1,205,548	1,236,502
Other, n.e.c.	193,329	191,453	192,600	204,244	225,717	152,470	157,507	178,689
Environmental sciences	1,396,046	1,433,047	1,488,210	1,532,004	1,623,631	1,690,751	1,763,341	1,826,827
Atmospheric	203,205	208,084	224,459	245,499	269,167	287,837	287,326	300,408
Earth sciences	454,860	456,296	445,497	449,029	512,927	544,796	562,227	552,539
Oceanography	455,160	473,344	533,400	536,630	545,585	604,040	632,534	674,406
Other, n.e.c.	282,821	295,323	284,854	300,846	295,952	254,078	281,254	299,474
Mathematical sciences	281,752	278,625	288,205	289,402	310,274	313,146	340,510	357,274
Computer sciences	645,967	682,142	689,932	709,374	746,354	860,639	875,472	953,793
Life sciences	11,466,122	12,185,822	12,713,267	13,587,882	14,592,790	15,610,045	17,460,397	19,189,112
Agricultural sciences	1,661,335	1,814,246	1,910,064	1,966,003	1,995,484	2,035,149	2,175,269	2,318,081
Biological sciences	3,708,991	3,833,845	3,909,455	4,180,330	4,580,830	5,029,285	5,613,179	5,943,596
Medical sciences	5,638,536	6,069,977	6,390,735	6,907,794	7,471,677	7,993,971	8,986,177	10,176,728
Other, n.e.c.	457,260	467,754	503,013	533,755	544,799	551,640	685,772	750,707
Psychology	358,209	370,429	381,435	396,057	444,167	464,059	515,909	581,865
Social sciences	953,798	1,018,857	1,096,472	1,125,174	1,131,139	1,251,376	1,297,243	1,435,540
Economics	243,052	250,331	271,432	260,727	261,064	266,364	254,522	270,942
Political science	160,532	173,015	179,770	175,469	175,525	200,276	229,802	252,239
Sociology	195,894	215,124	230,657	257,295	252,763	271,261	300,635	327,181
Other, n.e.c.	354,320	380,387	414,613	431,683	441,787	513,475	512,284	585,178
Other sciences, n.e.c.	389,041	425,991	418,149	514,312	448,241	450,958	534,217	578,655

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-4. Federally financed R&D expenditures at universities and colleges, by science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total	12,646,128	13,328,036	13,835,880	14,309,340	15,144,829	16,070,661	17,508,301	19,190,873
Engineering	1,993,364	2,101,658	2,232,190	2,255,827	2,353,658	2,440,183	2,571,678	2,843,770
Aeronautical and astronautical	165,385	183,653	171,164	183,266	170,689	182,921	180,769	254,453
Bioengineering/bio-medical	--	--	--	47,517	56,635	72,159	90,556	120,732
Chemical	150,495	161,116	173,768	165,854	169,272	178,846	195,039	214,828
Civil	163,739	185,891	197,733	200,346	197,073	216,275	236,192	270,594
Electrical	490,107	543,643	599,803	624,252	692,537	649,746	698,886	725,245
Mechanical	327,760	339,620	334,903	322,449	350,725	387,860	382,672	415,777
Metallurgical and materials	155,563	175,505	190,452	222,452	221,684	217,297	225,803	240,275
Other, n.e.c.	540,315	512,230	564,367	489,691	495,043	535,079	561,761	601,866
All sciences	10,652,764	11,226,378	11,603,690	12,053,513	12,791,171	13,630,478	14,936,623	16,347,103
Physical sciences	1,562,803	1,637,156	1,629,679	1,682,621	1,761,115	1,860,315	1,911,267	1,971,510
Astronomy	180,947	206,961	182,350	182,982	187,957	272,430	276,452	259,737
Chemistry	517,684	533,008	553,421	551,469	586,714	616,052	629,398	660,288
Physics	727,301	761,655	757,148	803,117	817,765	867,162	899,995	925,576
Other, n.e.c.	136,871	135,532	136,760	145,053	168,679	104,671	105,422	125,909
Environmental sciences	943,509	961,187	1,005,793	1,011,713	1,075,792	1,100,977	1,131,877	1,182,649
Atmospheric	161,315	163,649	175,948	186,613	209,537	222,359	221,814	232,110
Earth sciences	270,766	273,124	267,300	268,437	311,575	320,664	331,134	328,107
Oceanography	323,100	331,486	371,361	355,438	362,129	405,183	422,028	447,931
Other, n.e.c.	188,328	192,928	191,184	201,225	192,551	152,771	156,901	174,501
Mathematical sciences	205,181	204,760	208,022	202,025	214,101	209,170	228,679	241,325
Computer sciences	461,756	483,364	501,552	506,305	513,290	582,516	582,327	643,230
Life sciences	6,736,521	7,112,138	7,403,665	7,761,391	8,330,565	8,941,216	10,059,092	11,178,689
Agricultural sciences	493,131	531,437	559,571	548,291	533,362	544,702	577,443	613,350
Biological sciences	2,436,960	2,488,704	2,528,368	2,682,613	2,935,562	3,214,280	3,649,980	3,872,150
Medical sciences	3,537,413	3,826,902	4,023,857	4,226,893	4,559,251	4,861,041	5,441,759	6,248,659
Other, n.e.c.	269,017	265,095	291,869	303,594	302,390	321,193	389,910	444,530
Psychology	240,523	248,755	258,354	271,311	298,565	309,141	350,065	398,103
Social sciences	358,370	387,739	422,712	408,567	425,285	471,724	489,783	544,467
Economics	76,275	80,025	90,652	89,795	92,237	90,095	88,980	89,941
Political science	49,844	59,648	62,247	51,766	53,112	54,047	62,708	71,945
Sociology	96,190	104,412	118,951	120,562	118,930	121,912	136,622	148,188
Other, n.e.c.	136,061	143,654	150,862	146,444	161,006	205,670	201,473	234,393
Other sciences, n.e.c.	144,101	191,279	173,913	209,580	172,458	155,419	183,533	187,130

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-5. Non-Federal R&D expenditures at universities and colleges, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	8,376,676	8,837,316	9,203,995	10,053,900	10,702,730	11,434,272	12,533,663	13,532,205
	Source of funds							
State and local government	1,553,775	1,688,915	1,810,712	1,908,880	1,943,534	2,019,347	2,195,888	2,315,208
Industry	1,422,170	1,488,895	1,605,258	1,736,668	1,888,171	2,027,937	2,152,389	2,233,649
Institutional funds	3,826,736	4,046,739	4,169,762	4,697,087	5,001,621	5,395,448	5,932,519	6,553,070
All other sources	1,573,995	1,612,767	1,618,263	1,711,265	1,869,404	1,991,540	2,252,867	2,430,278
	Field							
Engineering	1,361,605	1,413,382	1,474,864	1,582,920	1,715,171	1,819,999	1,974,955	2,155,878
Aeronautical and astronautical	51,991	57,416	61,778	63,700	78,995	77,416	75,395	84,116
Bioengineering/bio-medical	--	--	--	29,274	45,322	64,401	81,088	90,604
Chemical	128,192	135,944	143,418	150,813	157,802	170,141	180,146	198,716
Civil	239,098	244,890	256,896	271,456	297,750	312,885	363,573	396,112
Electrical	254,715	274,965	287,912	317,668	349,751	366,807	416,949	435,194
Mechanical	174,484	181,026	184,204	195,138	217,026	237,276	249,164	269,611
Metallurgical and materials	154,501	154,359	158,949	166,369	169,704	166,701	172,942	210,656
Other, n.e.c.	358,624	364,782	381,707	388,502	398,821	424,372	435,698	470,869
All sciences	7,015,071	7,423,934	7,729,131	8,470,980	8,987,559	9,614,273	10,558,708	11,376,327
Physical sciences	614,097	618,243	627,472	687,667	721,019	743,462	796,975	828,854
Astronomy	86,256	96,651	93,464	104,434	114,451	111,816	108,813	118,300
Chemistry	241,793	238,123	248,037	268,859	289,052	302,311	330,524	346,848
Physics	229,590	227,548	230,131	255,183	260,478	281,536	305,553	310,926
Other, n.e.c.	56,458	55,921	55,840	59,191	57,038	47,799	52,085	52,780
Environmental sciences	452,537	471,860	482,417	520,291	547,839	589,774	631,464	644,178
Atmospheric	41,890	44,435	48,511	58,886	59,630	65,478	65,512	68,298
Earth sciences	184,094	183,172	178,197	180,592	201,352	224,132	231,093	224,432
Oceanography	132,060	141,858	162,039	181,192	183,456	198,857	210,506	226,475
Other, n.e.c.	94,493	102,395	93,670	99,621	103,401	101,307	124,353	124,973
Mathematical sciences	76,571	73,865	80,183	87,377	96,173	103,976	111,831	115,949
Computer sciences	184,211	198,778	188,380	203,069	233,064	278,123	293,145	310,563
Life sciences	4,729,601	5,073,684	5,309,602	5,826,491	6,262,225	6,668,829	7,401,305	8,010,423
Agricultural sciences	1,168,204	1,282,809	1,350,493	1,417,712	1,462,122	1,490,447	1,597,826	1,704,731
Biological sciences	1,272,031	1,345,141	1,381,087	1,497,717	1,645,268	1,815,005	1,963,199	2,071,446
Medical sciences	2,101,123	2,243,075	2,366,878	2,680,901	2,912,426	3,132,930	3,544,418	3,928,069
Other, n.e.c.	188,243	202,659	211,144	230,161	242,409	230,447	295,862	306,177
Psychology	117,686	121,674	123,081	124,746	145,602	154,918	165,844	183,762
Social sciences	595,428	631,118	673,760	716,607	705,854	779,652	807,460	891,073
Economics	166,777	170,306	180,780	170,932	168,827	176,269	165,542	181,001
Political science	110,688	113,367	117,523	123,703	122,413	146,229	167,094	180,294
Sociology	99,704	110,712	111,706	136,733	133,833	149,349	164,013	178,993
Other, n.e.c.	218,259	236,733	263,751	285,239	280,781	307,805	310,811	350,785
Other sciences, n.e.c.	244,940	234,712	244,236	304,732	275,783	295,539	350,684	391,525

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-6. R&D expenditures at doctorate-granting institutions, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	20,680,773	21,797,182	22,655,732	23,940,340	25,391,445	27,056,601	29,589,621	32,213,590
	Source of funds							
Federal Government	12,438,537	13,104,006	13,602,735	14,049,527	14,868,567	15,809,847	17,228,972	18,875,815
State and local government	1,514,040	1,645,636	1,767,188	1,861,151	1,891,932	1,948,373	2,152,528	2,267,195
Industry	1,392,655	1,456,474	1,571,170	1,701,822	1,855,200	1,994,708	2,116,094	2,197,971
Institutional funds	3,781,781	3,999,375	4,119,658	4,642,387	4,947,552	5,348,660	5,881,943	6,496,214
All other sources	1,553,760	1,591,691	1,594,981	1,685,453	1,828,194	1,955,013	2,210,084	2,376,395
	Field							
Engineering	3,302,127	3,457,041	3,645,470	3,771,399	3,997,987	4,191,195	4,475,501	4,911,861
Aeronautical and astronautical	211,072	235,389	228,167	242,306	245,577	250,487	244,589	315,384
Bioengineering/bio-medical	--	--	--	76,463	101,655	134,692	169,242	208,691
Chemical	277,123	294,886	314,887	313,169	323,873	347,226	372,962	410,188
Civil	391,148	417,264	441,669	458,336	481,925	520,645	591,447	658,538
Electrical	734,228	807,128	872,881	928,811	1,027,461	1,004,350	1,103,186	1,147,750
Mechanical	494,585	511,100	508,226	499,720	545,883	611,893	618,688	670,595
Metallurgical and materials	308,579	328,258	347,647	386,901	389,291	381,746	396,808	449,336
Other, n.e.c.	885,392	863,016	931,993	865,693	882,322	940,156	978,579	1,051,379
All sciences	17,378,646	18,340,141	19,010,262	20,168,941	21,393,458	22,865,406	25,114,120	27,301,729
Physical sciences	2,109,592	2,186,055	2,181,260	2,289,708	2,392,254	2,526,454	2,631,930	2,721,442
Astronomy	265,618	301,300	273,888	285,382	299,579	381,264	382,194	374,211
Chemistry	724,163	735,911	762,313	779,362	829,743	873,337	921,447	968,435
Physics	928,739	959,645	954,627	1,022,987	1,039,428	1,122,028	1,172,825	1,204,129
Other, n.e.c.	191,072	189,199	190,432	201,977	223,504	149,825	155,464	174,667
Environmental sciences	1,352,215	1,390,510	1,443,143	1,487,376	1,578,508	1,639,711	1,713,906	1,775,577
Atmospheric	199,563	204,724	221,271	242,637	265,284	284,485	284,475	296,365
Earth sciences	441,820	442,975	429,624	431,837	492,732	523,574	542,389	528,859
Oceanography	437,789	455,846	516,760	519,595	529,102	583,146	612,733	657,747
Other, n.e.c.	273,043	286,965	275,488	293,307	291,390	248,506	274,309	292,606
Mathematical sciences	272,017	267,446	276,633	277,677	299,592	301,486	327,152	340,998
Computer sciences	635,635	671,039	675,097	691,722	727,530	831,966	848,693	923,233
Life sciences	11,358,127	12,076,647	12,598,564	13,453,454	14,440,249	15,469,171	17,318,653	19,031,379
Agricultural sciences	1,622,681	1,774,205	1,870,293	1,914,186	1,934,892	1,976,691	2,118,390	2,257,859
Biological sciences	3,652,886	3,776,805	3,848,135	4,113,277	4,509,006	4,967,768	5,549,573	5,874,112
Medical sciences	5,629,543	6,061,899	6,381,049	6,895,553	7,456,042	7,979,996	8,972,524	10,158,395
Other, n.e.c.	453,017	463,738	499,087	530,438	540,309	544,716	678,166	741,013
Psychology	342,554	352,119	363,685	377,586	425,893	449,594	500,433	563,284
Social sciences	930,685	992,315	1,068,651	1,092,788	1,099,290	1,218,735	1,266,105	1,399,807
Economics	237,784	244,676	267,448	256,460	257,879	262,149	250,053	264,508
Political science	158,332	170,461	176,908	172,558	172,644	197,242	226,899	247,870
Sociology	189,583	207,544	221,913	248,953	243,023	259,303	289,202	317,394
Other, n.e.c.	344,986	369,634	402,382	414,817	425,744	500,041	499,951	570,035
Other sciences, n.e.c.	377,821	404,010	403,229	498,630	430,142	428,289	507,248	546,009

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-7. Federally financed R&D expenditures at doctorate-granting institutions, by science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total	12,438,537	13,104,006	13,602,735	14,049,527	14,868,567	15,809,847	17,228,972	18,875,815
Engineering	1,966,856	2,071,611	2,197,686	2,217,245	2,313,222	2,402,345	2,532,562	2,796,601
Aeronautical and astronautical	159,430	178,293	166,833	179,153	167,026	173,393	169,458	232,025
Bioengineering/bio-medical	--	--	--	47,189	56,369	71,797	89,780	119,992
Chemical	149,581	159,739	172,196	163,252	167,106	177,917	193,849	213,599
Civil	159,856	180,906	191,847	194,071	190,592	213,564	233,588	267,904
Electrical	483,151	535,675	589,215	615,286	683,459	640,887	689,555	719,698
Mechanical	323,995	335,256	329,212	310,876	337,258	381,053	376,470	411,118
Metallurgical and materials	154,700	174,545	189,379	221,276	220,308	215,558	224,216	239,032
Other, n.e.c.	536,143	507,197	559,004	486,142	491,104	528,176	555,646	593,233
All sciences	10,471,681	11,032,395	11,405,049	11,832,282	12,555,345	13,407,502	14,696,410	16,079,214
Physical sciences	1,519,444	1,591,217	1,580,999	1,632,130	1,702,070	1,808,028	1,860,703	1,917,666
Astronomy	179,834	205,277	181,090	181,540	185,855	270,335	274,305	256,992
Chemistry	494,736	509,022	527,125	524,270	554,203	585,129	604,185	634,805
Physics	709,355	742,696	737,160	782,323	794,628	849,257	877,637	902,312
Other, n.e.c.	135,519	134,222	135,624	143,997	167,384	103,307	104,576	123,557
Environmental sciences	919,005	938,413	982,268	988,391	1,052,955	1,076,672	1,105,477	1,153,959
Atmospheric	158,652	161,008	173,357	184,400	206,310	219,637	219,416	228,710
Earth sciences	264,189	266,614	259,544	259,534	302,099	310,716	321,111	316,571
Oceanography	313,331	321,844	362,531	346,710	353,967	395,604	411,238	437,311
Other, n.e.c.	182,833	188,947	186,836	197,747	190,579	150,715	153,712	171,367
Mathematical sciences	198,315	197,629	200,813	195,108	207,920	201,823	220,277	231,293
Computer sciences	455,128	477,025	492,258	493,469	501,276	564,145	562,897	621,878
Life sciences	6,663,593	7,038,436	7,326,106	7,669,040	8,231,592	8,855,419	9,961,054	11,069,520
Agricultural sciences	463,602	502,108	530,305	509,279	493,828	511,952	538,376	574,414
Biological sciences	2,404,116	2,453,091	2,490,065	2,640,926	2,889,725	3,174,392	3,605,907	3,821,682
Medical sciences	3,530,509	3,821,074	4,016,766	4,217,597	4,549,010	4,852,622	5,432,963	6,236,172
Other, n.e.c.	265,366	262,163	288,970	301,238	299,029	316,453	383,808	437,252
Psychology	229,100	235,837	246,838	260,159	288,618	299,739	338,050	383,645
Social sciences	348,266	376,619	411,458	395,111	411,507	458,338	477,149	529,918
Economics	72,919	76,472	88,635	87,661	90,454	88,217	86,910	87,306
Political science	49,426	59,199	61,604	51,155	52,152	53,358	61,889	70,408
Sociology	93,258	100,763	114,312	116,305	113,651	116,871	132,176	143,824
Other, n.e.c.	132,663	140,185	146,907	139,990	155,250	199,892	196,174	228,380
Other sciences, n.e.c.	138,830	177,219	164,309	198,874	159,407	143,338	170,803	171,335

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-8. Non-Federal R&D expenditures at doctorate-granting institutions, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	8,242,236	8,693,176	9,052,997	9,890,813	10,522,878	11,246,754	12,360,649	13,337,775
	Source of funds							
State and local government	1,514,040	1,645,636	1,767,188	1,861,151	1,891,932	1,948,373	2,152,528	2,267,195
Industry	1,392,655	1,456,474	1,571,170	1,701,822	1,855,200	1,994,708	2,116,094	2,197,971
Institutional funds	3,781,781	3,999,375	4,119,658	4,642,387	4,947,552	5,348,660	5,881,943	6,496,214
All other sources	1,553,760	1,591,691	1,594,981	1,685,453	1,828,194	1,955,013	2,210,084	2,376,395
	Field							
Engineering	1,335,271	1,385,430	1,447,784	1,554,154	1,684,765	1,788,850	1,942,939	2,115,260
Aeronautical and astronautical	51,642	57,096	61,334	63,153	78,551	77,094	75,131	83,359
Bioengineering/bio-medical	--	--	--	29,274	45,286	62,895	79,462	88,699
Chemical	127,542	135,147	142,691	149,917	156,767	169,309	179,113	196,589
Civil	231,292	236,358	249,822	264,265	291,333	307,081	357,859	390,634
Electrical	251,077	271,453	283,666	313,525	344,002	363,463	413,631	428,052
Mechanical	170,590	175,844	179,014	188,844	208,625	230,840	242,218	259,477
Metallurgical and materials	153,879	153,713	158,268	165,625	168,983	166,188	172,592	210,304
Other, n.e.c.	349,249	355,819	372,989	379,551	391,218	411,980	422,933	458,146
All sciences	6,906,965	7,307,746	7,605,213	8,336,659	8,838,113	9,457,904	10,417,710	11,222,515
Physical sciences	590,148	594,838	600,261	657,578	690,184	718,426	771,227	803,776
Astronomy	85,784	96,023	92,798	103,842	113,724	110,929	107,889	117,219
Chemistry	229,427	226,889	235,188	255,092	275,540	288,208	317,262	333,630
Physics	219,384	216,949	217,467	240,664	244,800	272,771	295,188	301,817
Other, n.e.c.	55,553	54,977	54,808	57,980	56,120	46,518	50,888	51,110
Environmental sciences	433,210	452,097	460,875	498,985	525,553	563,039	608,429	621,618
Atmospheric	40,911	43,716	47,914	58,237	58,974	64,848	65,059	67,655
Earth sciences	177,631	176,361	170,080	172,303	190,633	212,858	221,278	212,288
Oceanography	124,458	134,002	154,229	172,885	175,135	187,542	201,495	220,436
Other, n.e.c.	90,210	98,018	88,652	95,560	100,811	97,791	120,597	121,239
Mathematical sciences	73,702	69,817	75,820	82,569	91,672	99,663	106,875	109,705
Computer sciences	180,507	194,014	182,839	198,253	226,254	267,821	285,796	301,355
Life sciences	4,694,534	5,038,211	5,272,458	5,784,414	6,208,657	6,613,752	7,357,599	7,961,859
Agricultural sciences	1,159,079	1,272,097	1,339,988	1,404,907	1,441,064	1,464,739	1,580,014	1,683,445
Biological sciences	1,248,770	1,323,714	1,358,070	1,472,351	1,619,281	1,793,376	1,943,666	2,052,430
Medical sciences	2,099,034	2,240,825	2,364,283	2,677,956	2,907,032	3,127,374	3,539,561	3,922,223
Other, n.e.c.	187,651	201,575	210,117	229,200	241,280	228,263	294,358	303,761
Psychology	113,454	116,282	116,847	117,427	137,275	149,855	162,383	179,639
Social sciences	582,419	615,696	657,193	697,677	687,783	760,397	788,956	869,889
Economics	164,865	168,204	178,813	168,799	167,425	173,932	163,143	177,202
Political science	108,906	111,262	115,304	121,403	120,492	143,884	165,010	177,462
Sociology	96,325	106,781	107,601	132,648	129,372	142,432	157,026	173,570
Other, n.e.c.	212,323	229,449	255,475	274,827	270,494	300,149	303,777	341,655
Other sciences, n.e.c.	238,991	226,791	238,920	299,756	270,735	284,951	336,445	374,674

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-9. R&D expenditures at public universities and colleges, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	14,111,361	14,948,779	15,584,585	16,421,253	17,475,030	18,638,779	20,490,979	22,340,844
	Source of funds							
Federal Government	7,635,416	8,099,316	8,464,260	8,568,635	9,069,775	9,689,107	10,630,625	11,694,962
State and local government	1,404,409	1,511,983	1,649,551	1,741,395	1,772,884	1,842,454	2,001,266	2,079,529
Industry	946,542	1,003,151	1,076,379	1,175,729	1,279,605	1,334,983	1,436,283	1,489,479
Institutional funds	3,190,167	3,386,601	3,418,074	3,887,739	4,214,678	4,559,632	4,997,478	5,541,775
All other sources	934,827	947,728	976,321	1,047,755	1,138,088	1,212,603	1,425,327	1,535,099
	Field							
Engineering	2,287,425	2,441,092	2,587,903	2,686,594	2,866,185	3,046,376	3,286,737	3,620,505
Aeronautical and astronautical	124,175	143,370	138,676	154,511	155,002	188,494	178,938	244,431
Bioengineering/bio-medical	--	--	--	52,227	62,102	79,066	104,444	133,541
Chemical	190,382	205,705	226,815	237,029	245,187	254,713	272,078	299,316
Civil	334,375	361,512	381,669	399,474	425,808	447,552	508,376	565,502
Electrical	466,202	539,545	584,814	626,066	714,137	712,778	783,158	812,447
Mechanical	304,834	346,160	349,347	332,167	367,994	414,647	418,577	452,153
Metallurgical and materials	238,697	253,112	259,644	289,402	281,711	277,697	295,398	344,015
Other, n.e.c.	628,760	591,688	646,938	595,718	614,244	671,429	725,768	769,100
All sciences	11,823,936	12,507,687	12,996,682	13,734,659	14,608,845	15,592,403	17,204,242	18,720,339
Physical sciences	1,412,684	1,465,755	1,445,302	1,501,385	1,585,857	1,676,144	1,800,925	1,871,888
Astronomy	185,180	213,597	186,867	187,864	206,471	230,481	244,025	243,933
Chemistry	513,520	521,614	541,518	557,584	587,760	622,880	672,286	716,234
Physics	575,500	595,403	592,014	628,129	647,269	754,767	807,963	828,154
Other, n.e.c.	138,484	135,141	124,903	127,808	144,357	68,016	76,651	83,567
Environmental sciences	1,099,645	1,134,854	1,192,953	1,224,826	1,283,245	1,356,926	1,422,438	1,486,480
Atmospheric	164,871	175,930	192,857	213,044	228,093	236,282	233,606	245,686
Earth sciences	344,243	343,191	330,793	334,121	380,265	421,018	446,959	441,227
Oceanography	401,603	423,185	483,712	487,285	490,118	512,711	542,992	582,923
Other, n.e.c.	188,928	192,548	185,591	190,376	184,769	186,915	198,881	216,644
Mathematical sciences	167,631	168,324	174,282	178,125	196,026	194,959	214,294	232,190
Computer sciences	324,753	340,388	336,121	349,562	398,507	488,490	525,816	570,557
Life sciences	7,587,119	8,069,544	8,431,633	8,982,774	9,637,480	10,251,768	11,480,178	12,594,321
Agricultural sciences	1,607,108	1,759,082	1,858,052	1,905,549	1,930,454	1,978,767	2,113,932	2,244,682
Biological sciences	2,339,395	2,410,661	2,458,683	2,621,208	2,888,356	3,194,672	3,584,708	3,711,699
Medical sciences	3,384,190	3,638,982	3,815,961	4,138,071	4,494,909	4,758,201	5,351,759	6,141,713
Other, n.e.c.	256,426	260,819	298,937	317,946	323,761	320,128	429,779	496,227
Psychology	254,223	268,745	280,550	298,512	333,000	344,306	381,057	433,636
Social sciences	706,210	763,865	840,125	854,071	873,120	971,418	998,764	1,123,145
Economics	198,182	207,391	225,566	206,725	207,979	217,255	205,233	228,321
Political science	96,691	108,153	113,292	110,871	109,446	122,272	139,077	150,795
Sociology	144,795	165,961	176,022	196,961	194,730	202,730	223,425	248,499
Other, n.e.c.	266,542	282,360	325,245	339,514	360,965	429,161	431,029	495,530
Other sciences, n.e.c.	271,671	296,212	295,716	345,404	301,610	308,392	380,770	408,122

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-10. Federally financed R&D expenditures at public universities and colleges, by science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total	7,635,416	8,099,316	8,464,260	8,568,635	9,069,775	9,689,107	10,630,625	11,694,962
Engineering	1,179,171	1,276,867	1,384,333	1,372,223	1,441,099	1,515,475	1,626,316	1,823,246
Aeronautical and astronautical	86,549	98,254	91,685	100,780	96,696	121,168	115,422	175,694
Bioengineering/bio-medical	--	--	--	29,111	26,487	29,489	41,104	63,657
Chemical	94,064	100,717	115,492	113,649	116,966	118,500	129,478	141,473
Civil	119,432	141,492	151,054	155,163	156,413	167,635	180,113	210,609
Electrical	270,740	322,068	362,282	377,072	433,068	414,700	450,281	461,832
Mechanical	171,191	199,220	205,358	178,943	192,150	222,676	217,774	239,644
Metallurgical and materials	110,252	123,473	126,253	148,398	146,216	140,069	151,203	168,449
Other, n.e.c.	326,943	291,643	332,209	269,107	273,103	301,238	340,941	361,888
All sciences	6,456,245	6,822,449	7,079,927	7,196,412	7,628,676	8,173,632	9,004,309	9,871,716
Physical sciences	921,297	966,420	946,147	945,775	1,003,033	1,054,319	1,134,771	1,181,836
Astronomy	113,935	133,460	108,318	98,439	110,041	128,624	144,423	138,557
Chemistry	328,390	341,184	351,349	349,834	361,460	381,851	409,771	439,738
Physics	391,164	406,490	404,509	416,502	429,419	511,434	545,588	558,677
Other, n.e.c.	87,808	85,286	81,971	81,000	102,113	32,410	34,989	44,864
Environmental sciences	691,579	717,080	763,616	752,784	787,409	823,019	850,749	902,885
Atmospheric	126,017	134,027	147,628	156,838	172,036	175,523	173,770	184,398
Earth sciences	182,166	182,537	174,008	171,763	200,266	221,188	241,674	242,295
Oceanography	275,333	289,000	330,690	313,339	313,748	324,433	340,834	364,629
Other, n.e.c.	108,063	111,516	111,290	110,844	101,359	101,875	94,471	111,563
Mathematical sciences	104,649	106,894	107,763	107,044	115,724	109,079	122,563	134,615
Computer sciences	193,350	207,642	209,521	209,729	230,318	284,806	305,123	334,526
Life sciences	4,018,538	4,240,168	4,441,063	4,562,459	4,872,885	5,227,714	5,855,196	6,488,530
Agricultural sciences	473,519	511,644	542,485	521,797	508,146	527,452	558,999	591,007
Biological sciences	1,400,039	1,423,696	1,460,785	1,531,067	1,672,591	1,849,848	2,134,197	2,203,590
Medical sciences	2,015,794	2,175,790	2,279,683	2,345,929	2,546,412	2,694,867	2,956,981	3,440,135
Other, n.e.c.	129,186	129,038	158,110	163,666	145,736	155,547	205,019	253,798
Psychology	166,280	176,818	188,039	198,532	215,842	219,406	247,855	282,625
Social sciences	252,469	273,831	307,233	294,422	310,665	355,174	365,026	410,479
Economics	64,104	65,373	72,657	64,854	65,782	68,341	68,366	71,490
Political science	23,973	29,587	31,904	27,413	28,444	29,580	31,008	36,786
Sociology	66,276	75,849	86,287	87,836	85,626	84,423	97,026	109,931
Other, n.e.c.	98,116	103,022	116,385	114,319	130,813	172,830	168,626	192,272
Other sciences, n.e.c.	108,083	133,596	116,545	125,667	92,800	100,115	123,026	136,220

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-11. Non-Federal R&D expenditures at public universities and colleges, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	6,475,945	6,849,463	7,120,325	7,852,618	8,405,255	8,949,672	9,860,354	10,645,882
	Source of funds							
State and local government	1,404,409	1,511,983	1,649,551	1,741,395	1,772,884	1,842,454	2,001,266	2,079,529
Industry	946,542	1,003,151	1,076,379	1,175,729	1,279,605	1,334,983	1,436,283	1,489,479
Institutional funds	3,190,167	3,386,601	3,418,074	3,887,739	4,214,678	4,559,632	4,997,478	5,541,775
All other sources	934,827	947,728	976,321	1,047,755	1,138,088	1,212,603	1,425,327	1,535,099
	Field							
Engineering	1,108,254	1,164,225	1,203,570	1,314,371	1,425,086	1,530,901	1,660,421	1,797,259
Aeronautical and astronautical	37,626	45,116	46,991	53,731	58,306	67,326	63,516	68,737
Bioengineering/bio-medical	--	--	--	23,116	35,615	49,577	63,340	69,884
Chemical	96,318	104,988	111,323	123,380	128,221	136,213	142,600	157,843
Civil	214,943	220,020	230,615	244,311	269,395	279,917	328,263	354,893
Electrical	195,462	217,477	222,532	248,994	281,069	298,078	332,877	350,615
Mechanical	133,643	146,940	143,989	153,224	175,844	191,971	200,803	212,509
Metallurgical and materials	128,445	129,639	133,391	141,004	135,495	137,628	144,195	175,566
Other, n.e.c.	301,817	300,045	314,729	326,611	341,141	370,191	384,827	407,212
All sciences	5,367,691	5,685,238	5,916,755	6,538,247	6,980,169	7,418,771	8,199,933	8,848,623
Physical sciences	491,387	499,335	499,155	555,610	582,824	621,825	666,154	690,052
Astronomy	71,245	80,137	78,549	89,425	96,430	101,857	99,602	105,376
Chemistry	185,130	180,430	190,169	207,750	226,300	241,029	262,515	276,496
Physics	184,336	188,913	187,505	211,627	217,850	243,333	262,375	269,477
Other, n.e.c.	50,676	49,855	42,932	46,808	42,244	35,606	41,662	38,703
Environmental sciences	408,066	417,774	429,337	472,042	495,836	533,907	571,689	583,595
Atmospheric	38,854	41,903	45,229	56,206	56,057	60,759	59,836	61,288
Earth sciences	162,077	160,654	156,785	162,358	179,999	199,830	205,285	198,932
Oceanography	126,270	134,185	153,022	173,946	176,370	188,278	202,158	218,294
Other, n.e.c.	80,865	81,032	74,301	79,532	83,410	85,040	104,410	105,081
Mathematical sciences	62,982	61,430	66,519	71,081	80,302	85,880	91,731	97,575
Computer sciences	131,403	132,746	126,600	139,833	168,189	203,684	220,693	236,031
Life sciences	3,568,581	3,829,376	3,990,570	4,420,315	4,764,595	5,024,054	5,624,982	6,105,791
Agricultural sciences	1,133,589	1,247,438	1,315,567	1,383,752	1,422,308	1,451,315	1,554,933	1,653,675
Biological sciences	939,356	986,965	997,898	1,090,141	1,215,765	1,344,824	1,450,511	1,508,109
Medical sciences	1,368,396	1,463,192	1,536,278	1,792,142	1,948,497	2,063,334	2,394,778	2,701,578
Other, n.e.c.	127,240	131,781	140,827	154,280	178,025	164,581	224,760	242,429
Psychology	87,943	91,927	92,511	99,980	117,158	124,900	133,202	151,011
Social sciences	453,741	490,034	532,892	559,649	562,455	616,244	633,738	712,666
Economics	134,078	142,018	152,909	141,871	142,197	148,914	136,867	156,831
Political science	72,718	78,566	81,388	83,458	81,002	92,692	108,069	114,009
Sociology	78,519	90,112	89,735	109,125	109,104	118,307	126,399	138,568
Other, n.e.c.	168,426	179,338	208,860	225,195	230,152	256,331	262,403	303,258
Other sciences, n.e.c.	163,588	162,616	179,171	219,737	208,810	208,277	257,744	271,902

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-12. R&D expenditures at private universities and colleges, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	6,911,443	7,216,573	7,455,290	7,941,987	8,372,529	8,866,154	9,550,985	10,382,234
	Source of funds							
Federal Government	5,010,712	5,228,720	5,371,620	5,740,705	6,075,054	6,381,554	6,877,676	7,495,911
State and local government	149,366	176,932	161,161	167,485	170,650	176,893	194,622	235,679
Industry	475,628	485,744	528,879	560,939	608,566	692,954	716,106	744,170
Institutional funds	636,569	660,138	751,688	809,348	786,943	835,816	935,041	1,011,295
All other sources	639,168	665,039	641,942	663,510	731,316	778,937	827,540	895,179
	Field							
Engineering	1,067,544	1,073,948	1,119,151	1,152,153	1,202,644	1,213,806	1,259,896	1,379,143
Aeronautical and astronautical	93,201	97,699	94,266	92,455	94,682	71,843	77,226	94,138
Bioengineering/bio-medical	--	--	--	24,564	39,855	57,494	67,200	77,795
Chemical	88,305	91,355	90,371	79,638	81,887	94,274	103,107	114,228
Civil	68,462	69,269	72,960	72,328	69,015	81,608	91,389	101,204
Electrical	278,620	279,063	302,901	315,854	328,151	303,775	332,677	347,992
Mechanical	197,410	174,486	169,760	185,420	199,757	210,489	213,259	233,235
Metallurgical and materials	71,367	76,752	89,757	99,419	109,677	106,301	103,347	106,916
Other, n.e.c.	270,179	285,324	299,136	282,475	279,620	288,022	271,691	303,635
All sciences	5,843,899	6,142,625	6,336,139	6,789,834	7,169,885	7,652,348	8,291,089	9,003,091
Physical sciences	764,216	789,644	811,849	868,903	896,277	927,633	907,317	928,476
Astronomy	82,023	90,015	88,947	99,552	95,937	153,765	141,240	134,104
Chemistry	245,957	249,517	259,940	262,744	288,006	295,483	287,636	290,902
Physics	381,391	393,800	395,265	430,171	430,974	393,931	397,585	408,348
Other, n.e.c.	54,845	56,312	67,697	76,436	81,360	84,454	80,856	95,122
Environmental sciences	296,401	298,193	295,257	307,178	340,386	333,825	340,903	340,347
Atmospheric	38,334	32,154	31,602	32,455	41,074	51,555	53,720	54,722
Earth sciences	110,617	113,105	114,704	114,908	132,662	123,778	115,268	111,312
Oceanography	53,557	50,159	49,688	49,345	55,467	91,329	89,542	91,483
Other, n.e.c.	93,893	102,775	99,263	110,470	111,183	67,163	82,373	82,830
Mathematical sciences	114,121	110,301	113,923	111,277	114,248	118,187	126,216	125,084
Computer sciences	321,214	341,754	353,811	359,812	347,847	372,149	349,656	383,236
Life sciences	3,879,003	4,116,278	4,281,634	4,605,108	4,955,310	5,358,277	5,980,219	6,594,791
Agricultural sciences	54,227	55,164	52,012	60,454	65,030	56,382	61,337	73,399
Biological sciences	1,369,596	1,423,184	1,450,772	1,559,122	1,692,474	1,834,613	2,028,471	2,231,897
Medical sciences	2,254,346	2,430,995	2,574,774	2,769,723	2,976,768	3,235,770	3,634,418	4,035,015
Other, n.e.c.	200,834	206,935	204,076	215,809	221,038	231,512	255,993	254,480
Psychology	103,986	101,684	100,885	97,545	111,167	119,753	134,852	148,229
Social sciences	247,588	254,992	256,347	271,103	258,019	279,958	298,479	312,395
Economics	44,870	42,940	45,866	54,002	53,085	49,109	49,289	42,621
Political science	63,841	64,862	66,478	64,598	66,079	78,004	90,725	101,444
Sociology	51,099	49,163	54,635	60,334	58,033	68,531	77,210	78,682
Other, n.e.c.	87,778	98,027	89,368	92,169	80,822	84,314	81,255	89,648
Other sciences, n.e.c.	117,370	129,779	122,433	168,908	146,631	142,566	153,447	170,533

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-13. Federally financed R&D expenditures at private universities and colleges, by science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total	5,010,712	5,228,720	5,371,620	5,740,705	6,075,054	6,381,554	6,877,676	7,495,911
Engineering	814,193	824,791	847,857	883,604	912,559	924,708	945,362	1,020,524
Aeronautical and astronautical	78,836	85,399	79,479	82,486	73,993	61,753	65,347	78,759
Bioengineering/bio-medical	--	--	--	18,406	30,148	42,670	49,452	57,075
Chemical	56,431	60,399	58,276	52,205	52,306	60,346	65,561	73,355
Civil	44,307	44,399	46,679	45,183	40,660	48,640	56,079	59,985
Electrical	219,367	221,575	237,521	247,180	259,469	235,046	248,605	263,413
Mechanical	156,569	140,400	129,545	143,506	158,575	165,184	164,898	176,133
Metallurgical and materials	45,311	52,032	64,199	74,054	75,468	77,228	74,600	71,826
Other, n.e.c.	213,372	220,587	232,158	220,584	221,940	233,841	220,820	239,978
All sciences	4,196,519	4,403,929	4,523,763	4,857,101	5,162,495	5,456,846	5,932,314	6,475,387
Physical sciences	641,506	670,736	683,532	736,846	758,082	805,996	776,496	789,674
Astronomy	67,012	73,501	74,032	84,543	77,916	143,806	132,029	121,180
Chemistry	189,294	191,824	202,072	201,635	225,254	234,201	219,627	220,550
Physics	336,137	355,165	352,639	386,615	388,346	355,728	354,407	366,899
Other, n.e.c.	49,063	50,246	54,789	64,053	66,566	72,261	70,433	81,045
Environmental sciences	251,930	244,107	242,177	258,929	288,383	277,958	281,128	279,764
Atmospheric	35,298	29,622	28,320	29,775	37,501	46,836	48,044	47,712
Earth sciences	88,600	90,587	93,292	96,674	111,309	99,476	89,460	85,812
Oceanography	47,767	42,486	40,671	42,099	48,381	80,750	81,194	83,302
Other, n.e.c.	80,265	81,412	79,894	90,381	91,192	50,896	62,430	62,938
Mathematical sciences	100,532	97,866	100,259	94,981	98,377	100,091	106,116	106,710
Computer sciences	268,406	275,722	292,031	296,576	282,972	297,710	277,204	308,704
Life sciences	2,717,983	2,871,970	2,962,602	3,198,932	3,457,680	3,713,502	4,203,896	4,690,159
Agricultural sciences	19,612	19,793	17,086	26,494	25,216	17,250	18,444	22,343
Biological sciences	1,036,921	1,065,008	1,067,583	1,151,546	1,262,971	1,364,432	1,515,783	1,668,560
Medical sciences	1,521,619	1,651,112	1,744,174	1,880,964	2,012,839	2,166,174	2,484,778	2,808,524
Other, n.e.c.	139,831	136,057	133,759	139,928	156,654	165,646	184,891	190,732
Psychology	74,243	71,937	70,315	72,779	82,723	89,735	102,210	115,478
Social sciences	105,901	113,908	115,479	114,145	114,620	116,550	124,757	133,988
Economics	12,171	14,652	17,995	24,941	26,455	21,754	20,614	18,451
Political science	25,871	30,061	30,343	24,353	24,668	24,467	31,700	35,159
Sociology	29,914	28,563	32,664	32,726	33,304	37,489	39,596	38,257
Other, n.e.c.	37,945	40,632	34,477	32,125	30,193	32,840	32,847	42,121
Other sciences, n.e.c.	36,018	57,683	57,368	83,913	79,658	55,304	60,507	50,910

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-14. Non-Federal R&D expenditures at private universities and colleges, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	1,900,731	1,987,853	2,083,670	2,201,282	2,297,475	2,484,600	2,673,309	2,886,323
	Source of funds							
State and local government	149,366	176,932	161,161	167,485	170,650	176,893	194,622	235,679
Industry	475,628	485,744	528,879	560,939	608,566	692,954	716,106	744,170
Institutional funds	636,569	660,138	751,688	809,348	786,943	835,816	935,041	1,011,295
All other sources	639,168	665,039	641,942	663,510	731,316	778,937	827,540	895,179
	Field							
Engineering	253,351	249,157	271,294	268,549	290,085	289,098	314,534	358,619
Aeronautical and astronautical	14,365	12,300	14,787	9,969	20,689	10,090	11,879	15,379
Bioengineering/bio-medical	--	--	--	6,158	9,707	14,824	17,748	20,720
Chemical	31,874	30,956	32,095	27,433	29,581	33,928	37,546	40,873
Civil	24,155	24,870	26,281	27,145	28,355	32,968	35,310	41,219
Electrical	59,253	57,488	65,380	68,674	68,682	68,729	84,072	84,579
Mechanical	40,841	34,086	40,215	41,914	41,182	45,305	48,361	57,102
Metallurgical and materials	26,056	24,720	25,558	25,365	34,209	29,073	28,747	35,090
Other, n.e.c.	56,807	64,737	66,978	61,891	57,680	54,181	50,871	63,657
All sciences	1,647,380	1,738,696	1,812,376	1,932,733	2,007,390	2,195,502	2,358,775	2,527,704
Physical sciences	122,710	118,908	128,317	132,057	138,195	121,637	130,821	138,802
Astronomy	15,011	16,514	14,915	15,009	18,021	9,959	9,211	12,924
Chemistry	56,663	57,693	57,868	61,109	62,752	61,282	68,009	70,352
Physics	45,254	38,635	42,626	43,556	42,628	38,203	43,178	41,449
Other, n.e.c.	5,782	6,066	12,908	12,383	14,794	12,193	10,423	14,077
Environmental sciences	44,471	54,086	53,080	48,249	52,003	55,867	59,775	60,583
Atmospheric	3,036	2,532	3,282	2,680	3,573	4,719	5,676	7,010
Earth sciences	22,017	22,518	21,412	18,234	21,353	24,302	25,808	25,500
Oceanography	5,790	7,673	9,017	7,246	7,086	10,579	8,348	8,181
Other, n.e.c.	13,628	21,363	19,369	20,089	19,991	16,267	19,943	19,892
Mathematical sciences	13,589	12,435	13,664	16,296	15,871	18,096	20,100	18,374
Computer sciences	52,808	66,032	61,780	63,236	64,875	74,439	72,452	74,532
Life sciences	1,161,020	1,244,308	1,319,032	1,406,176	1,497,630	1,644,775	1,776,323	1,904,632
Agricultural sciences	34,615	35,371	34,926	33,960	39,814	39,132	42,893	51,056
Biological sciences	332,675	358,176	383,189	407,576	429,503	470,181	512,688	563,337
Medical sciences	732,727	779,883	830,600	888,759	963,929	1,069,596	1,149,640	1,226,491
Other, n.e.c.	61,003	70,878	70,317	75,881	64,384	65,866	71,102	63,748
Psychology	29,743	29,747	30,570	24,766	28,444	30,018	32,642	32,751
Social sciences	141,687	141,084	140,868	156,958	143,399	163,408	173,722	178,407
Economics	32,699	28,288	27,871	29,061	26,630	27,355	28,675	24,170
Political science	37,970	34,801	36,135	40,245	41,411	53,537	59,025	66,285
Sociology	21,185	20,600	21,971	27,608	24,729	31,042	37,614	40,425
Other, n.e.c.	49,833	57,395	54,891	60,044	50,629	51,474	48,408	47,527
Other sciences, n.e.c.	81,352	72,096	65,065	84,995	66,973	87,262	92,940	119,623

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-15. R&D expenditures at doctorate-granting institutions, by source of funds, science and engineering field, and control: fiscal years 1994, 2000, and 2001

[Dollars in thousands]

Source and field	Total			Public			Private		
	1994	2000	2001	1994	2000	2001	1994	2000	2001
Total	20,680,773	29,589,621	32,213,590	13,861,696	20,167,515	21,986,614	6,819,077	9,422,106	10,226,976
	Source of funds								
Federal Government	12,438,537	17,228,972	18,875,815	7,484,553	10,423,025	11,463,109	4,953,984	6,805,947	7,412,706
State and local government	1,514,040	2,152,528	2,267,195	1,366,841	1,959,859	2,034,124	147,199	192,669	233,071
Industry	1,392,655	2,116,094	2,197,971	929,230	1,414,770	1,469,810	463,425	701,324	728,161
Institutional funds	3,781,781	5,881,943	6,496,214	3,158,493	4,965,309	5,501,141	623,288	916,634	995,073
All other sources	1,553,760	2,210,084	2,376,395	922,579	1,404,552	1,518,430	631,181	805,532	857,965
	Field								
Engineering	3,302,127	4,475,501	4,911,861	2,246,976	3,238,575	3,573,177	1,055,151	1,236,926	1,338,684
Aeronautical and astronautical	211,072	244,589	315,384	117,966	167,726	227,659	93,106	76,863	87,725
Bioengineering/bio-medical	--	169,242	208,691	--	103,280	133,025	--	65,962	75,666
Chemical	277,123	372,962	410,188	189,475	271,255	298,285	87,648	101,707	111,903
Civil	391,148	591,447	658,538	323,244	502,350	560,577	67,904	89,097	97,961
Electrical	734,228	1,103,186	1,147,750	458,389	775,779	809,188	275,839	327,407	338,562
Mechanical	494,585	618,688	670,595	300,470	413,286	448,134	194,115	205,402	222,461
Metallurgical and materials	308,579	396,808	449,336	237,621	293,726	342,604	70,958	103,082	106,732
Other, n.e.c.	885,392	978,579	1,051,379	619,811	711,173	753,705	265,581	267,406	297,674
All sciences	17,378,646	25,114,120	27,301,729	11,614,720	16,928,940	18,413,437	5,763,926	8,185,180	8,888,292
Physical sciences	2,109,592	2,631,930	2,721,442	1,368,835	1,752,112	1,823,186	740,757	879,818	898,256
Astronomy	265,618	382,194	374,211	184,616	243,226	242,717	81,002	138,968	131,494
Chemistry	724,163	921,447	968,435	491,266	647,696	691,914	232,897	273,751	276,521
Physics	928,739	1,172,825	1,204,129	555,712	786,196	808,829	373,027	386,629	395,300
Other, n.e.c.	191,072	155,464	174,667	137,241	74,994	79,726	53,831	80,470	94,941
Environmental sciences	1,352,215	1,713,906	1,775,577	1,060,063	1,377,985	1,441,739	292,152	335,921	333,838
Atmospheric	199,563	284,475	296,365	162,784	231,726	243,207	36,779	52,749	53,158
Earth sciences	441,820	542,389	528,859	332,406	429,791	421,314	109,414	112,598	107,545
Oceanography	437,789	612,733	657,747	384,435	523,493	566,516	53,354	89,240	91,231
Other, n.e.c.	273,043	274,309	292,606	180,438	192,975	210,702	92,605	81,334	81,904
Mathematical sciences	272,017	327,152	340,998	161,132	206,903	223,173	110,885	120,249	117,825
Computer sciences	635,635	848,693	923,233	316,961	502,126	545,477	318,674	346,567	377,756
Life sciences	11,358,127	17,318,653	19,031,379	7,510,534	11,377,121	12,476,052	3,847,593	5,941,532	6,555,327
Agricultural sciences	1,622,681	2,118,390	2,257,859	1,572,540	2,062,434	2,189,799	50,141	55,956	68,060
Biological sciences	3,652,886	5,549,573	5,874,112	2,304,760	3,543,908	3,664,307	1,348,126	2,005,665	2,209,805
Medical sciences	5,629,543	8,972,524	10,158,395	3,379,995	5,346,513	6,132,980	2,249,548	3,626,011	4,025,415
Other, n.e.c.	453,017	678,166	741,013	253,239	424,266	488,966	199,778	253,900	252,047
Psychology	342,554	500,433	563,284	243,466	371,713	419,580	99,088	128,720	143,704
Social sciences	930,685	1,266,105	1,399,807	688,194	979,159	1,099,262	242,491	286,946	300,545
Economics	237,784	250,053	264,508	193,743	202,241	223,828	44,041	47,812	40,680
Political science	158,332	226,899	247,870	95,539	138,157	149,030	62,793	88,742	98,840
Sociology	189,583	289,202	317,394	140,516	216,256	241,950	49,067	72,946	75,444
Other, n.e.c.	344,986	499,951	570,035	258,396	422,505	484,454	86,590	77,446	85,581
Other sciences, n.e.c.	377,821	507,248	546,009	265,535	361,821	384,968	112,286	145,427	161,041

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-16. Federally financed R&D expenditures at doctorate-granting institutions, by science and engineering field and control: fiscal years 1994, 2000, and 2001

[Dollars in thousands]

Field	Total			Public			Private		
	1994	2000	2001	1994	2000	2001	1994	2000	2001
Total	12,438,537	17,228,972	18,875,815	7,484,553	10,423,025	11,463,109	4,953,984	6,805,947	7,412,706
Engineering	1,966,856	2,532,562	2,796,601	1,156,247	1,595,347	1,790,131	810,609	937,215	1,006,470
Aeronautical and astronautical	159,430	169,458	232,025	80,594	104,411	159,155	78,836	65,047	72,870
Bioengineering/bio-medical	--	89,780	119,992	--	40,889	63,614	--	48,891	56,378
Chemical	149,581	193,849	213,599	93,479	128,891	140,805	56,102	64,958	72,794
Civil	159,856	233,588	267,904	115,700	177,834	208,337	44,156	55,754	59,567
Electrical	483,151	689,555	719,698	264,842	444,343	459,876	218,309	245,212	259,822
Mechanical	323,995	376,470	411,118	168,258	213,584	236,527	155,737	162,886	174,591
Metallurgical and materials	154,700	224,216	239,032	109,430	149,870	167,381	45,270	74,346	71,651
Other, n.e.c.	536,143	555,646	593,233	323,944	335,525	354,436	212,199	220,121	238,797
All sciences	10,471,681	14,696,410	16,079,214	6,328,306	8,827,678	9,672,978	4,143,375	5,868,732	6,406,236
Physical sciences	1,519,444	1,860,703	1,917,666	892,987	1,100,417	1,145,972	626,457	760,286	771,694
Astronomy	179,834	274,305	256,992	113,463	143,810	137,430	66,371	130,495	119,562
Chemistry	494,736	604,185	634,805	313,011	391,294	421,405	181,725	212,891	213,400
Physics	709,355	877,637	902,312	379,495	531,007	544,490	329,860	346,630	357,822
Other, n.e.c.	135,519	104,576	123,557	87,018	34,306	42,647	48,501	70,270	80,910
Environmental sciences	919,005	1,105,477	1,153,959	670,461	827,241	878,823	248,544	278,236	275,136
Atmospheric	158,652	219,416	228,710	124,839	172,276	182,456	33,813	47,140	46,254
Earth sciences	264,189	321,111	316,571	176,320	233,311	233,002	87,869	87,800	83,569
Oceanography	313,331	411,238	437,311	265,669	330,215	354,242	47,662	81,023	83,069
Other, n.e.c.	182,833	153,712	171,367	103,633	91,439	109,123	79,200	62,273	62,244
Mathematical sciences	198,315	220,277	231,293	99,935	118,442	130,137	98,380	101,835	101,156
Computer sciences	455,128	562,897	621,878	188,261	287,014	315,494	266,867	275,883	306,384
Life sciences	6,663,593	9,961,054	11,069,520	3,967,981	5,782,474	6,405,583	2,695,612	4,178,580	4,663,937
Agricultural sciences	463,602	538,376	574,414	447,990	523,151	555,012	15,612	15,225	19,402
Biological sciences	2,404,116	3,605,907	3,821,682	1,380,645	2,104,776	2,168,040	1,023,471	1,501,131	1,653,642
Medical sciences	3,530,509	5,432,963	6,236,172	2,012,919	2,953,944	3,434,241	1,517,590	2,479,019	2,801,931
Other, n.e.c.	265,366	383,808	437,252	126,427	200,603	248,290	138,939	183,205	188,962
Psychology	229,100	338,050	383,645	158,642	240,961	271,455	70,458	97,089	112,190
Social sciences	348,266	477,149	529,918	244,465	357,348	400,534	103,801	119,801	129,384
Economics	72,919	86,910	87,306	61,059	66,798	69,608	11,860	20,112	17,698
Political science	49,426	61,889	70,408	23,632	30,427	35,774	25,794	31,462	34,634
Sociology	93,258	132,176	143,824	64,470	94,441	106,543	28,788	37,735	37,281
Other, n.e.c.	132,663	196,174	228,380	95,304	165,682	188,609	37,359	30,492	39,771
Other sciences, n.e.c.	138,830	170,803	171,335	105,574	113,781	124,980	33,256	57,022	46,355

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-17. Non-Federal R&D expenditures at doctorate-granting institutions, by source of funds, science and engineering field, and control: fiscal years 1994, 2000, and 2001

[Dollars in thousands]

Source and field	Total			Public			Private		
	1994	2000	2001	1994	2000	2001	1994	2000	2001
Total	8,242,236	12,360,649	13,337,775	6,377,143	9,744,490	10,523,505	1,865,093	2,616,159	2,814,270
	Source of funds								
State and local government	1,514,040	2,152,528	2,267,195	1,366,841	1,959,859	2,034,124	147,199	192,669	233,071
Industry	1,392,655	2,116,094	2,197,971	929,230	1,414,770	1,469,810	463,425	701,324	728,161
Institutional funds	3,781,781	5,881,943	6,496,214	3,158,493	4,965,309	5,501,141	623,288	916,634	995,073
All other sources	1,553,760	2,210,084	2,376,395	922,579	1,404,552	1,518,430	631,181	805,532	857,965
	Field								
Engineering	1,335,271	1,942,939	2,115,260	1,090,729	1,643,228	1,783,046	244,542	299,711	332,214
Aeronautical and astronautical	51,642	75,131	83,359	37,372	63,315	68,504	14,270	11,816	14,855
Bioengineering/bio-medical	--	79,462	88,699	--	62,391	69,411	--	17,071	19,288
Chemical	127,542	179,113	196,589	95,996	142,364	157,480	31,546	36,749	39,109
Civil	231,292	357,859	390,634	207,544	324,516	352,240	23,748	33,343	38,394
Electrical	251,077	413,631	428,052	193,547	331,436	349,312	57,530	82,195	78,740
Mechanical	170,590	242,218	259,477	132,212	199,702	211,607	38,378	42,516	47,870
Metallurgical and materials	153,879	172,592	210,304	128,191	143,856	175,223	25,688	28,736	35,081
Other, n.e.c.	349,249	422,933	458,146	295,867	375,648	399,269	53,382	47,285	58,877
All sciences	6,906,965	10,417,710	11,222,515	5,286,414	8,101,262	8,740,459	1,620,551	2,316,448	2,482,056
Physical sciences	590,148	771,227	803,776	475,848	651,695	677,214	114,300	119,532	126,562
Astronomy	85,784	107,889	117,219	71,153	99,416	105,287	14,631	8,473	11,932
Chemistry	229,427	317,262	333,630	178,255	256,402	270,509	51,172	60,860	63,121
Physics	219,384	295,188	301,817	176,217	255,189	264,339	43,167	39,999	37,478
Other, n.e.c.	55,553	50,888	51,110	50,223	40,688	37,079	5,330	10,200	14,031
Environmental sciences	433,210	608,429	621,618	389,602	550,744	562,916	43,608	57,685	58,702
Atmospheric	40,911	65,059	67,655	37,945	59,450	60,751	2,966	5,609	6,904
Earth sciences	177,631	221,278	212,288	156,086	196,480	188,312	21,545	24,798	23,976
Oceanography	124,458	201,495	220,436	118,766	193,278	212,274	5,692	8,217	8,162
Other, n.e.c.	90,210	120,597	121,239	76,805	101,536	101,579	13,405	19,061	19,660
Mathematical sciences	73,702	106,875	109,705	61,197	88,461	93,036	12,505	18,414	16,669
Computer sciences	180,507	285,796	301,355	128,700	215,112	229,983	51,807	70,684	71,372
Life sciences	4,694,534	7,357,599	7,961,859	3,542,553	5,594,647	6,070,469	1,151,981	1,762,952	1,891,390
Agricultural sciences	1,159,079	1,580,014	1,683,445	1,124,550	1,539,283	1,634,787	34,529	40,731	48,658
Biological sciences	1,248,770	1,943,666	2,052,430	924,115	1,439,132	1,496,267	324,655	504,534	556,163
Medical sciences	2,099,034	3,539,561	3,922,223	1,367,076	2,392,569	2,698,739	731,958	1,146,992	1,223,484
Other, n.e.c.	187,651	294,358	303,761	126,812	223,663	240,676	60,839	70,695	63,085
Psychology	113,454	162,383	179,639	84,824	130,752	148,125	28,630	31,631	31,514
Social sciences	582,419	788,956	869,889	443,729	621,811	698,728	138,690	167,145	171,161
Economics	164,865	163,143	177,202	132,684	135,443	154,220	32,181	27,700	22,982
Political science	108,906	165,010	177,462	71,907	107,730	113,256	36,999	57,280	64,206
Sociology	96,325	157,026	173,570	76,046	121,815	135,407	20,279	35,211	38,163
Other, n.e.c.	212,323	303,777	341,655	163,092	256,823	295,845	49,231	46,954	45,810
Other sciences, n.e.c.	238,991	336,445	374,674	159,961	248,040	259,988	79,030	88,405	114,686

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-18. R&D expenditures at historically black colleges and universities, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	211,439	241,434	263,508	290,369	293,190	254,825	263,319	303,533
	Source of funds							
Federal Government	174,561	199,335	222,262	254,256	248,633	216,513	228,087	261,903
State and local government	9,533	11,162	11,842	11,346	12,908	6,877	10,699	8,922
Industry	6,724	6,481	6,450	5,182	5,030	5,388	6,084	6,871
Institutional funds	17,187	21,050	19,697	13,962	10,696	14,681	13,163	18,837
All other sources	3,434	3,406	3,257	5,623	15,923	11,366	5,286	7,000
	Field							
Engineering	26,906	35,433	42,823	49,739	48,164	31,905	29,411	33,295
Aeronautical and astronautical	1,553	2,240	2,544	2,514	2,673	3,923	3,607	3,583
Bioengineering/bio-medical	--	--	--	164	183	56	883	919
Chemical	1,355	2,070	2,203	5,010	4,660	2,643	2,979	3,313
Civil	2,838	3,408	4,045	5,003	3,963	3,840	3,228	3,929
Electrical	6,842	8,089	11,106	8,749	8,191	6,531	6,136	7,684
Mechanical	7,438	9,548	10,849	16,704	17,899	8,186	6,705	7,374
Metallurgical and materials	190	1,614	2,212	3,561	2,518	379	167	0
Other, n.e.c.	6,690	8,464	9,864	8,034	8,077	6,347	5,706	6,493
All sciences	184,533	206,001	220,685	240,630	245,026	222,920	233,908	270,238
Physical sciences	39,458	41,401	40,225	47,801	46,815	48,920	40,558	43,680
Astronomy	2,614	4,295	5,853	7,269	4,384	4,567	4,306	2,403
Chemistry	13,715	14,797	15,169	16,534	21,772	22,985	14,056	14,300
Physics	22,542	21,297	18,935	23,633	20,206	20,800	22,133	26,291
Other, n.e.c.	587	1,012	268	365	453	568	63	686
Environmental sciences	6,087	15,562	17,218	14,214	14,700	11,327	11,226	12,995
Atmospheric	732	743	767	1,129	1,810	1,871	4,036	1,726
Earth sciences	507	1,756	2,509	1,753	2,958	2,443	2,850	5,723
Oceanography	653	587	299	185	173	447	940	1,481
Other, n.e.c.	4,195	12,476	13,643	11,147	9,759	6,566	3,400	4,065
Mathematical sciences	3,589	5,709	6,504	6,358	5,248	5,054	5,674	5,656
Computer sciences	5,020	8,837	16,906	15,738	14,299	15,916	14,568	19,982
Life sciences	114,743	107,772	121,029	138,353	143,599	124,574	138,943	155,465
Agricultural sciences	51,099	49,035	48,015	58,412	60,086	48,706	51,590	58,001
Biological sciences	45,477	43,517	51,172	54,739	57,852	45,581	48,364	59,366
Medical sciences	15,428	13,110	18,361	21,871	21,009	25,449	30,604	32,674
Other, n.e.c.	2,739	2,110	3,481	3,331	4,652	4,838	8,385	5,424
Psychology	3,580	3,947	2,019	1,135	1,002	2,275	1,700	4,865
Social sciences	8,914	10,228	9,528	9,666	7,920	8,347	11,058	13,059
Economics	2,741	3,196	1,175	1,426	1,156	1,344	1,427	2,168
Political science	549	438	749	987	464	299	731	544
Sociology	3,162	3,593	4,691	2,964	3,033	2,877	4,254	4,023
Other, n.e.c.	2,462	3,001	2,913	4,289	3,267	3,827	4,646	6,324
Other sciences, n.e.c.	3,142	12,545	7,256	7,365	11,443	6,507	10,181	14,536

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-19. Federally financed R&D expenditures at historically black colleges and universities, by science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total	174,561	199,335	222,262	254,256	248,633	216,513	228,087	261,903
Engineering	21,746	30,955	37,300	45,068	41,139	27,644	25,479	28,419
Aeronautical and astronautical	1,420	2,069	2,128	2,433	2,370	3,619	3,530	3,509
Bioengineering/bio-medical	--	--	--	159	183	56	568	470
Chemical	1,091	1,803	1,891	4,511	3,668	2,171	2,765	3,109
Civil	1,941	2,582	2,507	3,781	3,139	2,844	2,246	2,666
Electrical	5,707	7,467	10,302	8,492	7,730	5,579	5,342	6,862
Mechanical	6,237	8,566	9,685	15,077	14,657	7,423	6,189	6,784
Metallurgical and materials	101	1,526	1,862	3,269	2,370	302	162	0
Other, n.e.c.	5,249	6,942	8,925	7,346	7,022	5,650	4,677	5,019
All sciences	152,815	168,380	184,962	209,188	207,494	188,869	202,608	233,484
Physical sciences	32,337	36,143	35,277	43,101	41,314	43,851	36,326	39,835
Astronomy	2,518	4,095	5,730	7,246	4,371	4,209	3,874	1,940
Chemistry	11,682	12,880	13,019	14,014	18,752	21,215	12,917	13,334
Physics	17,596	18,263	16,312	21,511	17,979	17,920	19,528	23,925
Other, n.e.c.	541	905	216	330	212	507	7	636
Environmental sciences	4,377	5,517	12,488	11,134	11,926	8,182	9,318	10,781
Atmospheric	236	348	434	825	1,766	1,818	3,996	1,550
Earth sciences	37	1,094	1,348	721	1,623	1,042	1,798	3,908
Oceanography	150	286	183	91	79	383	824	1,376
Other, n.e.c.	3,954	3,789	10,523	9,497	8,458	4,939	2,700	3,947
Mathematical sciences	2,928	4,291	4,261	4,328	2,530	2,747	4,370	4,160
Computer sciences	4,217	6,997	13,428	13,855	12,445	13,780	12,796	18,576
Life sciences	97,711	94,306	104,836	121,976	123,460	109,349	122,018	135,566
Agricultural sciences	44,511	42,445	41,803	50,303	47,640	40,446	43,801	46,130
Biological sciences	39,418	39,511	44,633	49,229	53,175	42,388	44,966	55,819
Medical sciences	12,271	11,263	16,119	20,730	18,904	22,886	26,848	29,196
Other, n.e.c.	1,511	1,087	2,281	1,714	3,741	3,629	6,403	4,421
Psychology	2,930	3,665	1,729	1,025	979	1,777	1,334	4,534
Social sciences	6,477	7,195	6,393	7,069	5,451	5,242	8,137	10,049
Economics	2,595	2,904	1,014	1,258	1,063	1,171	1,121	1,955
Political science	274	173	425	457	254	134	508	405
Sociology	2,110	2,588	3,587	2,177	2,006	1,490	3,380	3,587
Other, n.e.c.	1,498	1,530	1,367	3,177	2,128	2,447	3,128	4,102
Other sciences, n.e.c.	1,838	10,266	6,550	6,700	9,389	3,941	8,309	9,983

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-20. Non-Federal R&D expenditures at historically black colleges and universities, by source of funds and science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Source and field	1994	1995	1996	1997	1998	1999	2000	2001
Total	36,878	42,099	41,246	36,113	44,557	38,312	35,232	41,630
	Source of funds							
State and local government	9,533	11,162	11,842	11,346	12,908	6,877	10,699	8,922
Industry	6,724	6,481	6,450	5,182	5,030	5,388	6,084	6,871
Institutional funds	17,187	21,050	19,697	13,962	10,696	14,681	13,163	18,837
All other sources	3,434	3,406	3,257	5,623	15,923	11,366	5,286	7,000
	Field							
Engineering	5,160	4,478	5,523	4,671	7,025	4,261	3,932	4,876
Aeronautical and astronautical	133	171	416	81	303	304	77	74
Bioengineering/bio-medical	--	--	--	5	0	0	315	449
Chemical	264	267	312	499	992	472	214	204
Civil	897	826	1,538	1,222	824	996	982	1,263
Electrical	1,135	622	804	257	461	952	794	822
Mechanical	1,201	982	1,164	1,627	3,242	763	516	590
Metallurgical and materials	89	88	350	292	148	77	5	0
Other, n.e.c.	1,441	1,522	939	688	1,055	697	1,029	1,474
All sciences	31,718	37,621	35,723	31,442	37,532	34,051	31,300	36,754
Physical sciences	7,121	5,258	4,948	4,700	5,501	5,069	4,232	3,845
Astronomy	96	200	123	23	13	358	432	463
Chemistry	2,033	1,917	2,150	2,520	3,020	1,770	1,139	966
Physics	4,946	3,034	2,623	2,122	2,227	2,880	2,605	2,366
Other, n.e.c.	46	107	52	35	241	61	56	50
Environmental sciences	1,710	10,045	4,730	3,080	2,774	3,145	1,908	2,214
Atmospheric	496	395	333	304	44	53	40	176
Earth sciences	470	662	1,161	1,032	1,335	1,401	1,052	1,815
Oceanography	503	301	116	94	94	64	116	105
Other, n.e.c.	241	8,687	3,120	1,650	1,301	1,627	700	118
Mathematical sciences	661	1,418	2,243	2,030	2,718	2,307	1,304	1,496
Computer sciences	803	1,840	3,478	1,883	1,854	2,136	1,772	1,406
Life sciences	17,032	13,466	16,193	16,377	20,139	15,225	16,925	19,899
Agricultural sciences	6,588	6,590	6,212	8,109	12,446	8,260	7,789	11,871
Biological sciences	6,059	4,006	6,539	5,510	4,677	3,193	3,398	3,547
Medical sciences	3,157	1,847	2,242	1,141	2,105	2,563	3,756	3,478
Other, n.e.c.	1,228	1,023	1,200	1,617	911	1,209	1,982	1,003
Psychology	650	282	290	110	23	498	366	331
Social sciences	2,437	3,033	3,135	2,597	2,469	3,105	2,921	3,010
Economics	146	292	161	168	93	173	306	213
Political science	275	265	324	530	210	165	223	139
Sociology	1,052	1,005	1,104	787	1,027	1,387	874	436
Other, n.e.c.	964	1,471	1,546	1,112	1,139	1,380	1,518	2,222
Other sciences, n.e.c.	1,304	2,279	706	665	2,054	2,566	1,872	4,553

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-21. R&D expenditures at universities and colleges, by geographic division and source of funds: fiscal year 2001

[Dollars in millions]

Division	Total	Federal	Non-Federal
Total	32,723	19,191	13,532
New England	2,560	1,760	800
Middle Atlantic	4,773	2,981	1,792
East North Central	4,697	2,558	2,139
West North Central	2,215	1,136	1,079
South Atlantic	6,127	3,578	2,549
East South Central	1,408	843	565
West South Central	3,072	1,574	1,498
Mountain	2,034	1,283	750
Pacific	5,767	3,427	2,340
Outlying Areas	71	50	21

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-22. R&D expenditures at doctorate-granting institutions, by geographic division, State, and source of funds: fiscal year 2001

[Dollars in thousands]

Division and State	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Total	32,213,590	18,875,815	2,267,195	2,197,971	6,496,214	2,376,395
New England	2,530,338	1,745,964	82,443	201,859	262,384	237,688
Connecticut	492,794	325,186	14,775	24,056	74,450	54,327
Maine	64,070	23,873	7,886	3,562	24,631	4,118
Massachusetts	1,558,338	1,131,468	38,025	153,438	78,317	157,090
New Hampshire	196,975	115,067	12,194	12,140	43,031	14,543
Rhode Island	142,564	101,560	5,511	2,229	29,617	3,647
Vermont	75,597	48,810	4,052	6,434	12,338	3,963
Middle Atlantic	4,700,735	2,934,476	226,586	319,510	786,016	434,147
New Jersey	607,702	269,378	52,105	33,680	172,034	80,505
New York	2,425,006	1,533,620	124,148	124,770	407,519	234,949
Pennsylvania	1,668,027	1,131,478	50,333	161,060	206,463	118,693
East North Central	4,646,390	2,540,504	313,106	270,458	1,188,458	333,864
Illinois	1,268,364	733,648	81,109	57,894	310,663	85,050
Indiana	565,487	246,179	45,428	41,554	203,641	28,685
Michigan	1,101,475	619,516	66,453	64,240	276,818	74,448
Ohio	992,336	558,751	80,080	85,868	192,722	74,915
Wisconsin	718,728	382,410	40,036	20,902	204,614	70,766
West North Central	2,197,565	1,127,981	203,401	135,743	593,374	137,066
Iowa	436,923	218,650	59,206	34,677	102,193	22,197
Kansas	266,639	114,218	44,617	12,318	74,129	21,357
Minnesota	462,220	264,378	58,053	26,458	79,800	33,531
Missouri	673,617	407,017	24,037	37,863	163,412	41,288
Nebraska	241,407	76,361	7,007	17,782	127,800	12,457
North Dakota	84,574	30,950	1,440	6,242	42,409	3,533
South Dakota	32,185	16,407	9,041	403	3,631	2,703
South Atlantic	6,031,281	3,505,971	476,686	517,835	1,223,074	307,715
Delaware	77,491	41,830	4,469	5,041	16,464	9,687
District of Columbia	223,285	188,538	2,679	12,789	3,822	15,457
Florida	979,794	454,670	112,571	90,700	275,559	46,294
Georgia	973,088	460,261	78,060	94,449	296,816	43,502
Maryland	1,638,869	1,190,690	59,492	71,874	210,915	105,898
North Carolina	1,114,275	638,693	118,200	167,621	150,890	38,871
South Carolina	350,545	161,086	29,517	22,989	130,480	6,473
Virginia	595,276	334,783	69,282	45,846	108,940	36,425
West Virginia	78,658	35,420	2,416	6,526	29,188	5,108
East South Central	1,369,501	812,682	128,052	64,771	287,339	76,657
Alabama	433,760	303,567	5,232	21,522	84,856	18,583
Kentucky	285,633	111,686	39,866	13,844	99,551	20,686
Mississippi	232,440	136,412	39,287	7,929	47,418	1,394
Tennessee	417,668	261,017	43,667	21,476	55,514	35,994
West South Central	3,003,460	1,526,571	381,867	225,810	569,520	299,692
Arkansas	133,659	59,800	36,542	7,124	21,580	8,613
Louisiana	422,009	174,409	83,867	25,503	99,118	39,112
Oklahoma	251,559	93,241	40,305	17,342	88,019	12,652
Texas	2,196,233	1,199,121	221,153	175,841	360,803	239,315

See explanatory information and SOURCE at end of table.

Table B-22. R&D expenditures at doctorate-granting institutions, by geographic division, State, and source of funds: fiscal year 2001

[Dollars in thousands]

Division and State	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Mountain	2,018,318	1,272,770	118,230	109,039	423,016	95,263
Arizona	500,548	265,716	14,269	29,924	169,472	21,167
Colorado	564,479	432,507	21,656	28,942	56,152	25,222
Idaho	82,496	34,347	18,389	6,683	21,948	1,129
Montana	103,128	54,051	18,298	8,532	20,919	1,328
Nevada	115,934	69,085	10,275	5,078	27,681	3,815
New Mexico	271,974	183,884	11,860	12,297	55,841	8,092
Utah	338,127	213,163	21,445	15,002	54,787	33,730
Wyoming	41,632	20,017	2,038	2,581	16,216	780
Pacific	5,652,247	3,363,988	333,913	350,661	1,150,506	453,179
Alaska	110,195	55,287	2,999	28,352	23,557	0
California	4,323,987	2,472,895	239,341	253,017	945,984	412,750
Hawaii	156,976	97,716	33,125	7,232	18,903	0
Oregon	363,526	254,327	41,274	14,310	35,283	18,332
Washington	697,563	483,763	17,174	47,750	126,779	22,097
Outlying Areas	63,755	44,908	2,911	2,285	12,527	1,124

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-23. R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Total	20,680,773	21,797,182	22,655,732	23,940,340	25,391,445	27,056,601	29,589,621	32,213,590
New England	1,785,924	1,804,527	1,859,407	1,976,396	2,048,610	2,147,460	2,329,915	2,530,338
Connecticut	366,948	377,225	388,134	392,668	402,671	415,182	464,524	492,794
Maine	29,393	31,901	34,684	33,144	33,106	41,452	54,821	64,070
Massachusetts	1,134,408	1,148,855	1,177,026	1,271,576	1,325,699	1,378,774	1,466,500	1,558,338
New Hampshire	101,552	93,073	98,638	107,505	117,323	127,135	150,982	196,975
Rhode Island	101,848	99,408	107,266	111,977	111,979	120,868	129,697	142,564
Vermont	51,775	54,065	53,659	59,526	57,832	64,049	63,391	75,597
Middle Atlantic	3,137,604	3,313,035	3,372,963	3,481,082	3,694,046	3,921,876	4,339,839	4,700,735
New Jersey	406,019	440,042	452,917	462,052	484,260	520,600	566,022	607,702
New York	1,655,487	1,735,458	1,732,340	1,779,991	1,881,274	2,028,668	2,241,066	2,425,006
Pennsylvania	1,076,098	1,137,535	1,187,706	1,239,039	1,328,512	1,372,608	1,532,751	1,668,027
East North Central	2,948,397	3,077,798	3,240,867	3,431,335	3,645,896	3,876,802	4,228,769	4,646,390
Illinois	793,745	812,287	862,321	926,515	1,011,054	1,086,793	1,157,321	1,268,364
Indiana	335,227	375,719	389,982	400,243	424,722	458,717	503,422	565,487
Michigan	731,211	775,260	809,218	843,684	877,819	916,028	1,001,761	1,101,475
Ohio	621,390	641,550	693,786	763,604	805,015	826,336	913,660	992,336
Wisconsin	466,824	472,982	485,560	497,289	527,286	588,928	652,605	718,728
West North Central	1,401,054	1,475,739	1,514,263	1,618,559	1,674,919	1,810,900	1,995,060	2,197,565
Iowa	314,156	320,604	330,458	340,149	356,245	369,109	414,551	436,923
Kansas	168,880	181,496	181,775	197,586	211,465	232,887	256,673	266,639
Minnesota	318,138	336,805	341,468	363,392	360,629	371,462	411,523	462,220
Missouri	374,610	397,192	404,875	459,405	478,295	544,862	609,304	673,617
Nebraska	147,881	158,633	158,398	177,373	186,200	205,363	208,334	241,407
North Dakota	55,709	59,617	71,849	56,096	56,945	61,695	67,406	84,574
South Dakota	21,680	21,392	25,440	24,558	25,140	25,522	27,269	32,185
South Atlantic	3,866,307	4,138,352	4,275,841	4,567,858	4,790,239	5,092,481	5,493,533	6,031,281
Delaware	50,734	53,161	54,154	65,095	69,896	73,521	74,711	77,491
District of Columbia	151,694	181,461	201,445	214,019	227,636	218,044	241,339	223,285
Florida	521,516	604,103	638,102	702,184	705,197	780,925	842,398	979,794
Georgia	606,212	669,507	712,188	766,346	794,691	828,886	913,704	973,088
Maryland	1,169,765	1,204,257	1,240,128	1,276,293	1,323,002	1,382,260	1,501,641	1,638,869
North Carolina	677,383	708,071	747,693	808,137	880,579	989,653	1,022,502	1,114,275
South Carolina	196,822	220,088	217,881	219,000	240,875	260,995	284,544	350,545
Virginia	432,895	444,305	409,044	453,146	485,830	494,640	540,201	595,276
West Virginia	59,286	53,399	55,206	63,638	62,533	63,557	72,493	78,658
East South Central	851,267	883,136	932,162	981,151	1,089,345	1,154,314	1,289,819	1,369,501
Alabama	304,961	327,403	342,021	368,602	402,502	405,323	417,297	433,760
Kentucky	126,026	134,784	148,376	158,238	200,682	231,085	266,916	285,633
Mississippi	114,311	112,794	124,675	124,601	145,717	153,228	207,163	232,440
Tennessee	305,969	308,155	317,090	329,710	340,444	364,678	398,443	417,668
West South Central	2,008,807	2,078,807	2,137,021	2,233,877	2,335,002	2,511,890	2,766,966	3,003,460
Arkansas	81,414	88,667	94,006	103,134	112,135	107,178	124,494	133,659
Louisiana	274,950	318,125	313,399	336,989	344,416	368,844	390,949	422,009
Oklahoma	174,585	186,371	201,626	186,702	206,627	235,286	249,357	251,559
Texas	1,477,858	1,485,644	1,527,990	1,607,052	1,671,824	1,800,582	2,002,166	2,196,233

See explanatory information and SOURCE at end of table.

Table B-23. R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Mountain	1,327,065	1,463,043	1,468,771	1,535,071	1,641,813	1,726,031	1,866,528	2,018,318
Arizona	342,792	380,216	375,881	376,818	405,999	439,286	465,777	500,548
Colorado	367,527	394,065	406,203	427,435	483,388	501,562	537,493	564,479
Idaho	57,843	61,906	68,032	66,288	72,395	71,674	73,726	82,496
Montana	53,057	66,879	71,518	70,591	72,425	79,847	94,914	103,128
Nevada	79,121	86,902	84,970	88,331	83,888	91,485	106,154	115,934
New Mexico	191,546	230,393	213,691	219,150	226,071	221,788	237,311	271,974
Utah	196,715	202,212	207,923	238,705	249,147	273,192	308,059	338,127
Wyoming	38,464	40,470	40,553	47,753	48,500	47,197	43,094	41,632
Pacific	3,302,941	3,493,109	3,781,718	4,038,564	4,383,983	4,724,304	5,204,663	5,652,247
Alaska	76,093	72,216	71,381	70,943	75,606	88,825	102,500	110,195
California	2,465,183	2,597,919	2,817,913	3,049,252	3,314,274	3,572,900	3,962,940	4,323,987
Hawaii	70,079	78,429	111,202	120,107	148,007	156,810	161,300	156,976
Oregon	242,822	258,575	276,109	290,603	312,483	326,167	343,785	363,526
Washington	448,764	485,970	505,113	507,659	533,613	579,602	634,138	697,563
Outlying Areas	51,407	69,636	72,719	76,447	87,592	90,543	74,529	63,755

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-24. Federally financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Total	12,438,537	13,104,006	13,602,735	14,049,527	14,868,567	15,809,847	17,228,972	18,875,815
New England	1,199,237	1,235,543	1,251,886	1,355,533	1,433,429	1,493,941	1,606,136	1,745,964
Connecticut	222,569	227,915	233,933	242,385	261,929	272,839	302,850	325,186
Maine	11,386	15,789	16,211	15,066	13,028	19,163	24,412	23,873
Massachusetts	794,875	827,395	830,227	917,341	978,309	1,007,015	1,055,213	1,131,468
New Hampshire	66,794	60,131	62,987	67,282	70,966	77,327	95,290	115,067
Rhode Island	69,918	71,381	77,007	79,417	77,737	81,512	88,510	101,560
Vermont	33,695	32,932	31,521	34,042	31,460	36,085	39,861	48,810
Middle Atlantic	2,003,044	2,070,936	2,121,888	2,175,103	2,288,334	2,445,094	2,721,520	2,934,476
New Jersey	190,721	207,257	215,525	224,084	227,706	239,702	256,896	269,378
New York	1,094,689	1,110,597	1,113,168	1,144,937	1,194,825	1,309,809	1,442,637	1,533,620
Pennsylvania	717,634	753,082	793,195	806,082	865,803	895,583	1,021,987	1,131,478
East North Central	1,660,033	1,728,541	1,790,242	1,894,206	2,000,013	2,128,147	2,292,897	2,540,504
Illinois	452,241	463,631	492,351	529,117	574,963	618,342	672,822	733,648
Indiana	181,226	197,910	203,390	209,071	213,288	222,787	228,073	246,179
Michigan	401,159	421,317	425,796	454,396	472,894	506,440	551,488	619,516
Ohio	357,928	375,061	390,708	417,921	442,078	471,673	495,341	558,751
Wisconsin	267,479	270,622	277,997	283,701	296,790	308,905	345,173	382,410
West North Central	694,823	734,135	759,672	804,401	823,798	891,037	1,014,497	1,127,981
Iowa	157,078	162,521	160,550	161,472	166,510	177,126	202,087	218,650
Kansas	64,115	70,026	68,823	75,116	80,214	88,634	105,363	114,218
Minnesota	181,166	194,953	199,068	200,297	204,899	207,780	230,012	264,378
Missouri	201,985	212,750	232,258	271,199	274,704	317,589	368,380	407,017
Nebraska	52,971	55,421	52,186	61,231	62,578	61,226	65,653	76,361
North Dakota	27,537	27,841	35,659	24,207	23,191	25,923	29,343	30,950
South Dakota	9,971	10,623	11,128	10,879	11,702	12,759	13,659	16,407
South Atlantic	2,406,203	2,545,918	2,620,350	2,673,652	2,840,140	2,968,026	3,147,527	3,505,971
Delaware	26,250	27,352	29,509	32,031	33,688	34,628	37,716	41,830
District of Columbia	103,677	132,770	147,212	153,846	161,698	169,373	183,321	188,538
Florida	288,429	317,081	315,555	340,541	351,088	390,756	402,168	454,670
Georgia	287,139	306,745	335,769	347,407	363,140	371,177	407,393	460,261
Maryland	899,466	912,668	928,101	940,562	1,007,296	1,053,523	1,084,937	1,190,690
North Carolina	423,693	447,226	458,736	456,265	503,205	519,896	564,377	638,693
South Carolina	90,558	109,443	120,015	102,887	107,258	106,551	124,608	161,086
Virginia	251,829	262,169	254,419	270,490	287,757	295,792	309,376	334,783
West Virginia	35,162	30,464	31,034	29,623	25,010	26,330	33,631	35,420
East South Central	493,885	504,040	536,289	567,698	605,740	627,225	703,181	812,682
Alabama	177,323	189,847	213,580	230,894	253,186	253,057	267,581	303,567
Kentucky	58,080	59,811	64,756	75,649	76,003	81,720	92,012	111,686
Mississippi	61,265	62,585	62,497	62,350	73,329	78,529	107,689	136,412
Tennessee	197,217	191,797	195,456	198,805	203,222	213,919	235,899	261,017
West South Central	923,305	981,913	1,033,867	1,097,478	1,146,331	1,231,168	1,387,937	1,526,571
Arkansas	29,506	33,427	32,917	35,146	38,165	42,467	54,407	59,800
Louisiana	103,141	134,754	127,872	131,586	136,584	147,814	163,082	174,409
Oklahoma	59,053	59,504	72,817	71,421	81,689	86,046	90,872	93,241
Texas	731,605	754,228	800,261	859,325	889,893	954,841	1,079,576	1,199,121

See explanatory information and SOURCE at end of table.

Table B-24. Federally financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Mountain	778,298	883,201	865,038	901,063	977,357	1,065,685	1,180,108	1,272,770
Arizona	182,009	210,475	199,889	198,097	210,170	239,142	244,938	265,716
Colorado	239,109	263,802	269,866	289,514	327,481	356,940	422,512	432,507
Idaho	19,527	21,307	20,410	20,476	25,444	28,116	28,888	34,347
Montana	24,413	27,382	29,258	31,261	35,730	40,858	48,942	54,051
Nevada	43,614	47,708	46,713	43,934	45,496	51,387	60,005	69,085
New Mexico	118,994	156,554	137,607	144,639	149,911	152,570	166,167	183,884
Utah	135,517	140,600	146,304	158,139	165,319	177,563	192,100	213,163
Wyoming	15,115	15,373	14,991	15,003	17,806	19,109	16,556	20,017
Pacific	2,250,169	2,380,426	2,581,293	2,537,345	2,708,150	2,908,714	3,132,366	3,363,988
Alaska	40,770	37,285	30,351	28,127	31,505	34,647	46,605	55,287
California	1,697,546	1,800,500	1,947,922	1,875,953	1,989,478	2,138,671	2,306,943	2,472,895
Hawaii	39,392	44,238	66,902	72,421	86,886	93,418	95,419	97,716
Oregon	145,737	158,076	174,616	195,030	213,480	229,256	245,336	254,327
Washington	326,724	340,327	361,502	365,814	386,801	412,722	438,063	483,763
Outlying Areas	29,540	39,353	42,210	43,048	45,275	50,810	42,803	44,908

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-25. State and local government-financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Total	1,514,040	1,645,636	1,767,188	1,861,151	1,891,932	1,948,373	2,152,528	2,267,195
New England	35,706	42,583	57,780	56,889	60,421	61,973	78,669	82,443
Connecticut	12,297	18,732	19,938	13,730	13,157	10,783	15,124	14,775
Maine	2,290	2,005	1,594	1,551	1,796	1,389	5,872	7,886
Massachusetts	12,503	13,443	25,244	29,774	31,663	33,637	40,100	38,025
New Hampshire	2,890	3,963	7,308	7,990	8,300	8,961	9,747	12,194
Rhode Island	3,154	1,986	1,172	1,161	2,857	4,485	4,564	5,511
Vermont	2,572	2,454	2,524	2,683	2,648	2,718	3,262	4,052
Middle Atlantic	145,228	173,942	163,449	159,423	161,055	178,813	189,131	226,586
New Jersey	39,167	39,535	42,834	37,274	39,773	45,013	46,015	52,105
New York	77,386	99,617	83,812	80,674	78,761	82,155	99,400	124,148
Pennsylvania	28,675	34,790	36,803	41,475	42,521	51,645	43,716	50,333
East North Central	194,988	209,683	216,354	239,790	249,080	256,228	297,135	313,106
Illinois	43,863	47,279	47,358	53,968	49,572	60,265	71,372	81,109
Indiana	19,823	22,463	23,232	23,826	25,517	27,877	34,369	45,428
Michigan	41,394	51,836	48,587	50,845	56,061	57,543	62,929	66,453
Ohio	48,287	45,556	55,084	70,078	74,406	67,991	83,373	80,080
Wisconsin	41,621	42,549	42,093	41,073	43,524	42,552	45,092	40,036
West North Central	195,911	208,006	215,434	225,871	226,345	197,719	193,300	203,401
Iowa	46,991	46,935	49,456	52,435	52,700	53,114	55,838	59,206
Kansas	35,147	39,353	40,456	45,002	46,941	50,300	43,329	44,617
Minnesota	45,786	49,543	47,842	50,539	47,118	49,082	52,346	58,053
Missouri	19,270	21,486	21,691	21,342	23,506	24,812	25,619	24,037
Nebraska	39,606	42,383	45,388	47,142	46,602	10,648	7,226	7,007
North Dakota	1,493	1,534	1,555	1,070	1,123	1,965	2,417	1,440
South Dakota	7,618	6,772	9,046	8,341	8,355	7,798	6,525	9,041
South Atlantic	335,342	345,442	400,195	431,743	423,682	448,228	478,024	476,686
Delaware	2,180	2,144	2,410	2,977	4,600	5,310	4,032	4,469
District of Columbia	1,459	814	1,446	1,267	1,593	2,582	3,328	2,679
Florida	41,240	41,466	83,234	90,076	79,258	90,393	102,392	112,571
Georgia	44,663	55,663	61,862	68,844	69,604	73,687	76,599	78,060
Maryland	88,927	79,375	84,411	82,072	62,896	76,138	82,069	59,492
North Carolina	92,613	99,209	104,164	116,549	126,980	120,894	111,600	118,200
South Carolina	15,304	17,899	20,887	20,697	27,069	26,593	31,503	29,517
Virginia	47,020	46,849	39,492	46,848	48,728	49,482	63,594	69,282
West Virginia	1,936	2,023	2,289	2,413	2,954	3,149	2,907	2,416
East South Central	66,600	75,753	82,190	79,932	86,605	90,698	104,209	128,052
Alabama	6,052	6,991	5,789	5,251	7,071	8,923	6,052	5,232
Kentucky	6,197	9,589	11,467	7,446	14,254	12,441	20,840	39,866
Mississippi	20,528	23,778	29,173	29,324	29,455	31,138	38,833	39,287
Tennessee	33,823	35,395	35,761	37,911	35,825	38,196	38,484	43,667
West South Central	268,900	281,791	304,860	315,800	324,623	333,220	372,661	381,867
Arkansas	23,342	24,233	26,073	29,690	33,089	32,499	34,621	36,542
Louisiana	65,496	71,988	72,453	75,379	78,040	79,484	74,917	83,867
Oklahoma	19,275	19,699	30,472	35,622	37,406	41,610	42,142	40,305
Texas	160,787	165,871	175,862	175,109	176,088	179,627	220,981	221,153

See explanatory information and SOURCE at end of table.

Table B-25. State and local government-financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Mountain	72,600	106,101	112,161	115,964	113,153	106,128	115,016	118,230
Arizona	7,257	8,080	8,022	10,266	11,812	11,753	15,221	14,269
Colorado	8,745	22,122	28,049	26,833	25,787	24,672	23,700	21,656
Idaho	9,559	20,671	21,699	21,266	21,760	15,718	18,545	18,389
Montana	9,268	12,914	13,433	14,368	13,784	13,719	16,763	18,298
Nevada	4,570	6,460	3,538	4,411	4,533	5,442	7,032	10,275
New Mexico	14,573	17,298	16,842	14,954	12,555	12,242	11,920	11,860
Utah	14,808	15,431	16,810	17,876	17,556	19,852	20,365	21,445
Wyoming	3,820	3,125	3,768	5,990	5,366	2,730	1,470	2,038
Pacific	189,936	183,572	193,892	213,976	224,882	251,433	310,276	333,913
Alaska	4,625	5,607	5,842	3,964	3,680	3,913	3,267	2,999
California	119,649	107,103	112,962	134,392	141,724	166,656	221,867	239,341
Hawaii	25,204	26,789	31,826	28,440	37,002	35,111	35,474	33,125
Oregon	29,042	30,312	31,906	32,335	29,728	30,534	35,400	41,274
Washington	11,416	13,761	11,356	14,845	12,748	15,219	14,268	17,174
Outlying Areas	8,829	18,763	20,873	21,763	22,086	23,933	14,107	2,911

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-26. Industry-financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Total	1,392,655	1,456,474	1,571,170	1,701,822	1,855,200	1,994,708	2,116,094	2,197,971
New England	130,979	125,519	144,849	146,530	153,393	171,277	184,248	201,859
Connecticut	18,814	20,327	23,378	25,387	25,916	25,904	28,102	24,056
Maine	4,406	4,158	4,214	5,609	7,074	2,324	2,899	3,562
Massachusetts	95,741	89,657	105,800	103,260	106,607	124,097	135,602	153,438
New Hampshire	4,309	3,919	3,886	4,880	6,209	8,939	9,197	12,140
Rhode Island	2,831	1,991	2,340	1,995	2,074	2,901	2,735	2,229
Vermont	4,878	5,467	5,231	5,399	5,513	7,112	5,713	6,434
Middle Atlantic	232,494	240,627	240,878	261,484	275,415	280,900	289,212	319,510
New Jersey	30,042	25,861	23,703	26,186	27,128	30,227	29,633	33,680
New York	90,450	94,693	94,056	96,133	93,123	97,407	101,705	124,770
Pennsylvania	112,002	120,073	123,119	139,165	155,164	153,266	157,874	161,060
East North Central	191,117	200,008	233,197	241,174	262,235	255,978	269,852	270,458
Illinois	42,948	42,519	48,582	48,587	56,246	55,164	54,352	57,894
Indiana	31,873	34,542	35,539	33,321	40,336	41,461	42,009	41,554
Michigan	47,802	51,758	59,031	57,538	59,396	60,998	66,197	64,240
Ohio	49,197	54,316	71,745	82,653	87,999	80,319	87,337	85,868
Wisconsin	19,297	16,873	18,300	19,075	18,258	18,036	19,957	20,902
West North Central	98,454	105,707	102,827	108,381	117,868	130,287	137,981	135,743
Iowa	18,410	19,376	22,269	24,211	30,997	35,706	32,455	34,677
Kansas	7,861	11,434	12,131	11,907	12,104	19,182	23,269	12,318
Minnesota	23,809	23,510	23,809	24,280	24,128	23,953	26,422	26,458
Missouri	35,140	36,639	27,107	30,047	29,589	30,301	33,439	37,863
Nebraska	10,664	10,933	12,268	13,686	16,749	17,231	17,635	17,782
North Dakota	1,989	3,346	4,505	3,439	3,806	3,608	4,400	6,242
South Dakota	581	469	738	811	495	306	361	403
South Atlantic	284,579	305,256	320,024	339,440	382,433	442,383	472,978	517,835
Delaware	4,117	3,681	2,964	3,361	3,859	4,152	3,757	5,041
District of Columbia	11,804	13,297	14,448	18,381	19,481	14,349	16,286	12,789
Florida	37,516	36,382	46,717	55,762	51,668	63,533	78,456	90,700
Georgia	53,469	55,129	63,791	73,284	85,820	89,612	92,212	94,449
Maryland	45,843	55,986	58,767	41,067	41,631	33,641	50,035	71,874
North Carolina	67,511	75,587	87,320	97,696	120,786	179,678	169,079	167,621
South Carolina	18,990	19,364	10,678	8,682	11,400	12,823	15,470	22,989
Virginia	41,271	42,670	31,731	37,488	43,241	39,063	40,173	45,846
West Virginia	4,058	3,160	3,608	3,719	4,547	5,532	7,510	6,526
East South Central	65,446	71,065	77,337	71,065	79,101	74,385	66,369	64,771
Alabama	25,170	29,164	29,706	29,685	30,279	22,287	19,581	21,522
Kentucky	15,970	16,627	19,686	14,781	18,468	21,209	17,745	13,844
Mississippi	8,885	8,929	11,122	9,169	10,399	9,570	10,973	7,929
Tennessee	15,421	16,345	16,823	17,430	19,955	21,319	18,070	21,476
West South Central	135,222	142,457	154,127	188,170	190,853	209,973	215,117	225,810
Arkansas	7,827	7,758	8,272	7,636	8,185	10,236	8,067	7,124
Louisiana	19,975	21,410	23,466	32,737	29,653	25,534	25,522	25,503
Oklahoma	10,958	11,453	11,804	14,036	13,320	14,764	16,754	17,342
Texas	96,462	101,836	110,585	133,761	139,695	159,439	164,774	175,841

See explanatory information and SOURCE at end of table.

Table B-26. Industry-financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Mountain	96,402	86,825	89,540	92,129	99,936	98,679	105,691	109,039
Arizona	21,746	23,238	17,099	18,584	22,125	22,242	28,519	29,924
Colorado	30,340	20,605	23,695	23,756	26,785	27,151	23,819	28,942
Idaho	10,437	8,134	10,333	9,164	8,059	3,962	5,338	6,683
Montana	3,965	5,825	7,000	8,470	8,437	8,326	9,997	8,532
Nevada	7,054	6,941	8,042	5,464	5,355	5,196	5,532	5,078
New Mexico	13,611	10,696	11,840	9,915	12,559	12,866	11,692	12,297
Utah	8,064	9,456	9,445	14,550	13,502	15,730	17,853	15,002
Wyoming	1,185	1,930	2,086	2,226	3,114	3,206	2,941	2,581
Pacific	156,721	177,062	206,097	250,824	288,627	327,465	369,721	350,661
Alaska	4,441	5,470	9,965	12,769	16,081	19,340	19,686	28,352
California	105,824	120,171	140,095	181,582	215,896	236,438	262,228	253,017
Hawaii	434	299	8,088	5,944	10,949	13,021	11,158	7,232
Oregon	9,672	11,693	8,620	9,647	4,173	4,189	14,665	14,310
Washington	36,350	39,429	39,329	40,882	41,528	54,477	61,984	47,750
Outlying Areas	1,241	1,948	2,294	2,625	5,339	3,381	4,925	2,285

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-27. Institutionally financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Total	3,781,781	3,999,375	4,119,658	4,642,387	4,947,552	5,348,660	5,881,943	6,496,214
New England	235,096	224,039	257,925	265,293	229,580	222,647	248,625	262,384
Connecticut	79,487	78,243	78,954	76,391	66,868	66,257	73,580	74,450
Maine	10,907	9,357	12,172	10,526	10,810	16,326	19,674	24,631
Massachusetts	96,382	91,647	119,973	125,308	96,413	81,592	91,919	78,317
New Hampshire	16,859	12,948	11,549	15,058	17,439	18,102	22,924	43,031
Rhode Island	23,965	22,325	24,617	26,545	26,130	28,474	30,289	29,617
Vermont	7,496	9,519	10,660	11,465	11,920	11,896	10,239	12,338
Middle Atlantic	479,041	516,058	548,238	570,037	630,904	668,240	728,001	786,016
New Jersey	116,838	133,955	141,839	139,540	150,482	162,464	159,774	172,034
New York	204,359	218,047	238,611	247,932	283,568	318,344	367,657	407,519
Pennsylvania	157,844	164,056	167,788	182,565	196,854	187,432	200,570	206,463
East North Central	637,779	688,718	742,417	783,925	858,096	956,336	1,062,820	1,188,458
Illinois	185,036	194,776	211,427	219,390	250,506	270,777	278,482	310,663
Indiana	83,841	101,283	108,023	113,903	126,098	149,140	178,533	203,641
Michigan	180,080	192,755	199,249	209,026	220,734	228,540	251,403	276,818
Ohio	103,365	107,789	130,000	143,733	151,197	148,629	179,333	192,722
Wisconsin	85,457	92,115	93,718	97,873	109,561	159,250	175,069	204,614
West North Central	331,820	342,721	345,537	380,506	391,582	469,139	506,265	593,374
Iowa	76,798	77,262	79,636	83,285	87,842	89,477	102,755	102,193
Kansas	53,884	52,517	52,546	56,752	56,206	58,179	69,864	74,129
Minnesota	46,551	46,255	46,759	53,751	55,541	61,591	70,348	79,800
Missouri	87,905	92,974	91,496	108,016	108,237	126,987	129,688	163,412
Nebraska	40,842	46,329	44,096	50,105	55,018	102,726	101,134	127,800
North Dakota	23,224	25,043	27,980	25,554	26,091	27,782	28,651	42,409
South Dakota	2,616	2,341	3,024	3,043	2,647	2,397	3,825	3,631
South Atlantic	653,575	741,508	722,500	881,950	898,906	991,474	1,102,295	1,223,074
Delaware	13,946	14,560	13,074	20,125	19,222	19,401	19,430	16,464
District of Columbia	19,322	19,937	21,321	24,092	25,865	12,398	15,088	3,822
Florida	123,158	180,109	160,422	181,848	183,378	197,382	219,176	275,559
Georgia	200,733	227,244	223,909	252,398	246,047	258,131	298,827	296,816
Maryland	94,134	103,679	112,671	132,608	142,660	150,988	180,970	210,915
North Carolina	65,048	63,984	66,148	107,757	94,499	142,972	146,976	150,890
South Carolina	54,049	53,994	48,596	65,914	84,576	100,824	100,941	130,480
Virginia	68,544	64,531	61,909	74,018	76,562	85,076	97,093	108,940
West Virginia	14,641	13,470	14,450	23,190	26,097	24,302	23,794	29,188
East South Central	172,309	180,071	188,310	204,284	249,450	278,165	321,013	287,339
Alabama	78,018	79,861	77,312	84,747	82,108	78,983	87,899	84,856
Kentucky	40,965	43,883	49,194	53,070	83,214	106,967	119,395	99,551
Mississippi	12,414	11,211	11,600	13,623	30,603	33,272	46,603	47,418
Tennessee	40,912	45,116	50,204	52,844	53,525	58,943	67,116	55,514
West South Central	470,365	465,220	416,102	428,907	452,965	484,724	520,156	569,520
Arkansas	17,495	19,987	21,459	24,261	25,542	14,856	20,321	21,580
Louisiana	68,255	71,436	71,771	80,368	80,576	96,134	94,887	99,118
Oklahoma	68,401	79,107	72,669	52,462	59,439	76,192	87,952	88,019
Texas	316,214	294,690	250,203	271,816	287,408	297,542	316,996	360,803

See explanatory information and SOURCE at end of table.

Table B-27. Institutionally financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Mountain	300,218	317,767	335,019	355,511	378,350	374,216	379,458	423,016
Arizona	113,476	126,380	137,834	137,165	146,586	150,366	158,810	169,472
Colorado	54,001	52,080	50,995	50,422	68,065	59,833	52,784	56,152
Idaho	17,728	10,256	15,143	14,930	16,334	16,877	17,505	21,948
Montana	14,902	20,172	21,133	15,684	13,435	15,528	15,658	20,919
Nevada	22,603	24,798	25,924	30,749	24,314	25,484	29,040	27,681
New Mexico	30,561	38,562	39,092	42,442	45,780	39,260	41,740	55,841
Utah	30,278	28,065	26,618	40,376	42,561	46,220	43,818	54,787
Wyoming	16,669	17,454	18,280	23,743	21,275	20,648	20,103	16,216
Pacific	491,060	514,853	556,925	764,804	844,901	892,142	1,001,196	1,150,506
Alaska	26,253	23,850	25,217	26,082	24,340	30,908	32,937	23,557
California	364,732	372,600	409,980	620,168	694,912	723,232	817,368	945,984
Hawaii	3,290	3,738	4,386	13,297	13,170	15,260	19,249	18,903
Oregon	37,826	37,453	40,769	35,824	37,747	45,670	32,239	35,283
Washington	58,959	77,212	76,573	69,433	74,732	77,072	99,403	126,779
Outlying Areas	10,518	8,420	6,685	7,170	12,818	11,577	12,114	12,527

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-28. All other sources of financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Total	1,553,760	1,591,691	1,594,981	1,685,453	1,828,194	1,955,013	2,210,084	2,376,395
New England	184,906	176,843	146,967	152,151	171,787	197,622	212,237	237,688
Connecticut	33,781	32,008	31,931	34,775	34,801	39,399	44,868	54,327
Maine	404	592	493	392	398	2,250	1,964	4,118
Massachusetts	134,907	126,713	95,782	95,893	112,707	132,433	143,666	157,090
New Hampshire	10,700	12,112	12,908	12,295	14,409	13,806	13,824	14,543
Rhode Island	1,980	1,725	2,130	2,859	3,181	3,496	3,599	3,647
Vermont	3,134	3,693	3,723	5,937	6,291	6,238	4,316	3,963
Middle Atlantic	277,797	311,472	298,510	315,035	338,338	348,829	411,975	434,147
New Jersey	29,251	33,434	29,016	34,968	39,171	43,194	73,704	80,505
New York	188,603	212,504	202,693	210,315	230,997	220,953	229,667	234,949
Pennsylvania	59,943	65,534	66,801	69,752	68,170	84,682	108,604	118,693
East North Central	264,480	250,848	258,657	272,240	276,472	280,113	306,065	333,864
Illinois	69,657	64,082	62,603	75,453	79,767	82,245	80,293	85,050
Indiana	18,464	19,521	19,798	20,122	19,483	17,452	20,438	28,685
Michigan	60,776	57,594	76,555	71,879	68,734	62,507	69,744	74,448
Ohio	62,613	58,828	46,249	49,219	49,335	57,724	68,276	74,915
Wisconsin	52,970	50,823	53,452	55,567	59,153	60,185	67,314	70,766
West North Central	80,046	85,170	90,793	99,400	115,326	122,718	143,017	137,066
Iowa	14,879	14,510	18,547	18,746	18,196	13,686	21,416	22,197
Kansas	7,873	8,166	7,819	8,809	16,000	16,592	14,848	21,357
Minnesota	20,826	22,544	23,990	34,525	28,943	29,056	32,395	33,531
Missouri	30,310	33,343	32,323	28,801	42,259	45,173	52,178	41,288
Nebraska	3,798	3,567	4,460	5,209	5,253	13,532	16,686	12,457
North Dakota	1,466	1,853	2,150	1,826	2,734	2,417	2,595	3,533
South Dakota	894	1,187	1,504	1,484	1,941	2,262	2,899	2,703
South Atlantic	186,608	200,228	212,772	241,073	245,078	242,370	292,709	307,715
Delaware	4,241	5,424	6,197	6,601	8,527	10,030	9,776	9,687
District of Columbia	15,432	14,643	17,018	16,433	18,999	19,342	23,316	15,457
Florida	31,173	29,065	32,174	33,957	39,805	38,861	40,206	46,294
Georgia	20,208	24,726	26,857	24,413	30,080	36,279	38,673	43,502
Maryland	41,395	52,549	56,178	79,984	68,519	67,970	103,630	105,898
North Carolina	28,518	22,065	31,325	29,870	35,109	26,213	30,470	38,871
South Carolina	17,921	19,388	17,705	20,820	10,572	14,204	12,022	6,473
Virginia	24,231	28,086	21,493	24,302	29,542	25,227	29,965	36,425
West Virginia	3,489	4,282	3,825	4,693	3,925	4,244	4,651	5,108
East South Central	53,027	52,207	48,036	58,172	68,449	83,841	95,047	76,657
Alabama	18,398	21,540	15,634	18,025	29,858	42,073	36,184	18,583
Kentucky	4,814	4,874	3,273	7,292	8,743	8,748	16,924	20,686
Mississippi	11,219	6,291	10,283	10,135	1,931	719	3,065	1,394
Tennessee	18,596	19,502	18,846	22,720	27,917	32,301	38,874	35,994
West South Central	211,015	207,426	228,065	203,522	220,230	252,805	271,095	299,692
Arkansas	3,244	3,262	5,285	6,401	7,154	7,120	7,078	8,613
Louisiana	18,083	18,537	17,837	16,919	19,563	19,878	32,541	39,112
Oklahoma	16,898	16,608	13,864	13,161	14,773	16,674	11,637	12,652
Texas	172,790	169,019	191,079	167,041	178,740	209,133	219,839	239,315

See explanatory information and SOURCE at end of table.

Table B-28. All other sources of financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1994-2001

[Dollars in thousands]

Division and State	1994	1995	1996	1997	1998	1999	2000	2001
Mountain	79,547	69,149	67,013	70,404	73,017	81,323	86,255	95,263
Arizona	18,304	12,043	13,037	12,706	15,306	15,783	18,289	21,167
Colorado	35,332	35,456	33,598	36,910	35,270	32,966	14,678	25,222
Idaho	592	1,538	447	452	798	7,001	3,450	1,129
Montana	509	586	694	808	1,039	1,416	3,554	1,328
Nevada	1,280	995	753	3,773	4,190	3,976	4,545	3,815
New Mexico	13,807	7,283	8,310	7,200	5,266	4,850	5,792	8,092
Utah	8,048	8,660	8,746	7,764	10,209	13,827	33,923	33,730
Wyoming	1,675	2,588	1,428	791	939	1,504	2,024	780
Pacific	215,055	237,196	243,511	271,615	317,423	344,550	391,104	453,179
Alaska	4	4	6	1	0	17	5	0
California	177,432	197,545	206,954	237,157	272,264	307,903	354,534	412,750
Hawaii	1,759	3,365	0	5	0	0	0	0
Oregon	20,545	21,041	20,198	17,767	27,355	16,518	16,145	18,332
Washington	15,315	15,241	16,353	16,685	17,804	20,112	20,420	22,097
Outlying Areas	1,279	1,152	657	1,841	2,074	842	580	1,124

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
United States, total	32,723,078	19,190,873	2,315,208	2,233,649	6,553,070	2,430,278
Public, total	22,340,844	11,694,962	2,079,529	1,489,479	5,541,775	1,535,099
Private, total	10,382,234	7,495,911	235,679	744,170	1,011,295	895,179
Alabama, total	445,299	312,522	5,232	21,522	85,133	20,890
Public, total	435,193	304,816	5,232	21,522	85,040	18,583
Alabama A&M University	8,982 i	7,761 i	179 i	153 i	889 i	0 i
Alabama State University	1,433e	1,249e	0e	0e	184e	0e
Auburn University	106,347	40,097	1,146	4,683	56,227	4,194
U of Alabama Birmingham	231,702	194,625	168	8,443	14,077	14,389
U of Alabama Huntsville	43,731	30,625	907	4,956	7,243	0
U of South Alabama	9,865e	8,276e	291e	1,298e	0e	0e
University of Alabama, The	33,133	22,183	2,541	1,989	6,420	0
Private, total	10,106	7,706	0	0	93	2,307
Oakwood College	567 i	447 i	0 i	0 i	93 i	27 i
Selma University	0e	0e	0e	0e	0e	0e
Talladega College	0	0	0	0	0	0
Tuskegee University	9,539	7,259	0	0	0	2,280
Alaska, total	115,601	58,129	3,212	28,778	25,129	353
Public, total	115,601	58,129	3,212	28,778	25,129	353
U of Alaska Anchorage	5,406 i	2,842 i	213 i	426 i	1,572 i	353 i
U of Alaska Fairbanks	110,195	55,287	2,999	28,352	23,557	0
Arizona, total	500,548	265,716	14,269	29,924	169,472	21,167
Public, total	500,548	265,716	14,269	29,924	169,472	21,167
Arizona State University	118,763	56,616	4,149	5,641	48,574	3,783
Northern Arizona U	14,657	9,616	1,710	1,349	1,815	167
University of Arizona	367,128	199,484	8,410	22,934	119,083	17,217
Arkansas, total	140,741	64,030	36,942	7,484	23,358	8,927
Public, total	140,741	64,030	36,942	7,484	23,358	8,927
Arkansas State University	1,347	321	821	0	205	0
Arkansas Tech Univ	526	130	80	33	283	0
U Arkansas Pine Bluff	4,151 i	2,911 i	0 i	0 i	1,214 i	26 i
U of AR at Little Rock	2,088	2,088	0	0	0	0
U of Arkansas Main	78,303	23,172	34,940	4,224	11,917	4,050
U of Arkansas Medical Sci	51,921	34,219	781	2,900	9,458	4,563
U of Central Arkansas	2,405	1,189	320	327	281	288
Private, total	0	0	0	0	0	0
Philander Smith College	0	0	0	0	0	0
California, total	4,422,032	2,527,074	255,051	262,444	954,309	423,154
Public, total	3,299,233	1,647,468	224,143	185,882	852,516	389,224
CA St Poly U Pomona	2,498	2,498	0	0	0	0
CA St U Bakersfield	3,703e	459e	798 i	399 i	563 i	1,484 i
CA St U Chico	3,904	961	2,000	943	0	0
CA St U Dominguez Hills	4,311	2,578	1,733	0	0	0
CA St U Fresno	4,531	585	1,812	534	1,600	0
CA St U Fullerton	1,935 i	1,286 i	182 i	117 i	207 i	143 i
CA St U Long Beach	3,995	2,910	148	190	521	226
CA St U Los Angeles	9,061	8,632	163	42	0	224
CA St U Monterey Bay	1,911	1,285	550	0	0	76
CA St U Northridge	6,190e	3,182e	578e	66e	1,267e	1,097e
CA St U San Bernardino	1,906	676	138	261	831	0
Cal Poly St U	12,193	6,153	2,509	1,255	821	1,455
Humboldt State University	6,282 i	2,945 i	965 i	989 i	510 i	873 i
Naval Postgrad School	40,889 i	40,121 i	255 i	344 i	0 i	169 i

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
California, continued:						
Public, continued:						
San Diego St University	58,332	23,621	8,817	1,162	19,344	5,388
San Francisco State U	5,223e	4,561e	166i	496i	0i	0i
San Jose State University	22,709	14,301	3,747	3,126	1,304	231
Sonoma State University	736	597	75	0	0	64
U CA Berkeley	446,273	208,080	29,824	26,791	128,333	53,245
U CA Davis	432,396	154,937	50,044	16,989	171,268	39,158
U CA Irvine	179,866	101,735	8,384	15,803	30,581	23,363
U CA Los Angeles	693,801	312,858	59,365	32,539	190,229	98,810
U CA Riverside	94,455	25,713	5,313	4,227	50,383	8,819
U CA San Diego	556,533	343,276	20,842	36,845	101,503	54,067
U CA San Francisco	524,975	277,489	21,902	35,759	110,652	79,173
U CA Santa Barbara	116,372	76,828	2,956	6,001	19,341	11,246
U CA Santa Cruz	64,253	29,201	877	1,004	23,258	9,913
Private, total	1,122,799	879,606	30,908	76,562	101,793	33,930
Alliant International U	0	0	0	0	0	0
Alliant University	3,062e	1,578e	67i	266i	393i	758i
Azusa Pacific U	0	0	0	0	0	0
Biola University	0	0	0	0	0	0
C R Drew U of Med & Sci	36,717	27,415	8,230	1,055	17	0
CA Inst of Integral Stu	0	0	0	0	0	0
California Inst of Tech	215,085	193,554	1,050	10,225	10,256	0
Chapman U	460	77	0	0	276	107
Claremont Graduate U	2,369	1,024	143	113	252	837
Fuller Theological Sem	87i	87i	0i	0i	0i	0i
Golden Gate University	0	0	0	0	0	0
Harvey Mudd College	6,443i	1,156i	93i	459i	566i	4,169i
Loma Linda University	26,451i	20,494i	0i	4,538i	1,296i	123i
Occidental College	1,543	812	0	650	81	0
Pepperdine University	0	0	0	0	0	0
Pitzer College	322	261	0	0	51	10
Point Loma Nazarene Col	186	95	0	0	0	91
Pomona College	1,298	679	1	90	148	380
Santa Clara University	2,723i	625i	0i	679i	1,340i	79i
Stanford University	482,906	384,468	5,433	35,012	30,920	27,073
U of Southern California	340,597	246,207	15,542	22,949	55,899	0
University San Francisco	700e	400e	200e	0e	100e	0e
University of San Diego	240	185	0	7	0	48
University of the Pacific	1,241	489	149	348	0	255
Western U of Hlth Sci	369	0	0	171	198	0
Colorado, total	572,950	438,664	21,934	29,497	57,315	25,540
Public, total	558,250	429,211	20,701	27,563	56,152	24,623
Colorado School of Mines	23,654	12,314	1,626	9,466	248	0
Colorado State University	161,144	101,308	16,102	8,850	25,637	9,247
Fort Lewis College	314	231	28	55	0	0
U of Colorado HSC	159,844	131,399	296	4,750	14,192	9,207
U of Colorado, Boulder	200,418	174,195	1,683	3,600	15,228	5,712
U of Colorado, Col Spgs	2,125	1,058	185	477	382	23
U of Colorado, Denver	3,085	1,991	504	175	0	415
U of Northern Colorado	1,265	994	27	116	128	0
U of Southern Colorado	753	707	0	0	27	19
US Air Force Academy	5,323	5,009	0	74	240	0
W State Coll Colorado	325	5	250	0	70	0
Private, total	14,700	9,453	1,233	1,934	1,163	917
Colorado College	1,548	136	0	426	826	160
Regis University	208e	69e	0e	0e	0e	139e
University of Denver	12,944	9,248	1,233	1,508	337	618

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Connecticut, total	498,745	327,983	15,167	24,282	76,044	55,269
Public, total	165,689	70,832	14,362	9,836	54,636	16,023
Central Connecticut St U	259	138	27	0	93	1
Southern Connecticut St U	596e	215e	364e	17e	0e	0e
US Coast Guard Academy	468	466	0	0	2	0
University of Connecticut	164,366	70,013	13,971	9,819	54,541	16,022
Private, total	333,056	257,151	805	14,446	21,408	39,246
Connecticut College	478 i	0 i	1 i	10 i	16 i	451 i
Fairfield University	1,648	160	0	103	1,385	0
Trinity College	1,010e	326e	0e	96e	98e	490e
University of Hartford	1,068	578	278	107	105	0
University of New Haven	1,492	1,492	0	0	0	0
Wesleyan University	5,846	3,893	3	11	1,317	622
Yale University	321,514	250,702	523	14,119	18,487	37,683
Delaware, total	79,985	44,052	4,712	5,041	16,486	9,694
Public, total	79,985	44,052	4,712	5,041	16,486	9,694
Delaware State University	2,494	2,222	243	0	22	7
University of Delaware	77,491	41,830	4,469	5,041	16,464	9,687
District of Columbia, total	228,110	192,314	3,193	12,789	4,291	15,523
Public, total	3,001	2,008	458	0	469	66
University of DC	3,001	2,008	458	0	469	66
Private, total	225,109	190,306	2,735	12,789	3,822	15,457
American University	2,565	1,999	28	19	327	192
Catholic U of America	17,539	13,308	39	585	2,741	866
Gallaudet University	1,824	1,768	56	0	0	0
George Washington U	73,805	51,757	1,815	5,081	754	14,398
Georgetown University	99,228	93,626	606	4,996	0	0
Howard University	30,148	27,848	191	2,108	0	1
Florida, total	997,048	468,099	113,939	91,795	276,809	46,406
Public, total	825,850	344,019	110,751	72,299	267,528	31,253
Florida A&M University	23,865	22,477	1,388	0	0	0
Florida Atlantic U	25,111	14,099	1,432	9,580	0	0
Florida International U	44,291	23,940	11,037	8,397	518	399
Florida State University	113,817	57,075	6,535	892	45,047	4,268
U of Central Florida	79,287	22,342	6,115	5,288	45,542	0
U of North Florida	1,222	731	293	194	4	0
U of South Florida	171,550	58,826	8,819	11,152	76,057	16,696
U of West Florida	7,395	4,785	1,075	379	1,156	0
University of Florida	359,312	139,744	74,057	36,417	99,204	9,890
Private, total	171,198	124,080	3,188	19,496	9,281	15,153
Bethune Cookman College	926	926	0	0	0	0
Embry-Riddle Aero Univ	7,711	6,987	0	522	90	112
Florida Inst of Tech	6,195	2,614	404	1,420	1,163	594
Nova Southeastern U	2,594	1,750	535	0	3	306
University of Miami	153,772	111,803	2,249	17,554	8,025	14,141
Georgia, total	988,883	472,593	78,760	96,843	297,178	43,509
Public, total	679,402	252,551	73,761	78,987	268,006	6,097
Albany State University	1,972	740	107	1,125	0	0
Fort Valley State U	2,768e	2,417e	93e	258e	0e	0e
Georgia Institute of Tech	306,533	143,836	10,771	59,691	92,235	0
Georgia Southern U	841	841	0	0	0	0

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Georgia, continued:						
Public, continued:						
Georgia State University	38,960	13,575	8,135	480	14,144	2,626
Kennesaw State Univ	298	298	0	0	0	0
Medical Col of Georgia	52,191	21,116	692	3,478	24,742	2,163
Savannah State Univ	2,181	2,181	0	0	0	0
State U of West Georgia	1,360	634	500	164	62	0
University of Georgia	272,298	66,913	53,463	13,791	136,823	1,308
Private, total	309,481	220,042	4,999	17,856	29,172	37,412
Clark Atlanta University	17,173	14,354	67	69	585	2,098
Emory University	236,997	170,317	4,001	7,950	19,857	34,872
Inst of Paper Sci & Tech	13,929	2,947	827	6,828	2,892	435
Mercer University	15,337	9,076	0	1,115	5,146	0
Morehouse College	2,853 i	1,843 i	0 i	826 i	184 i	0 i
Morehouse School of Med	19,670	18,127	104	1,047	392	0
Morris Brown College	116e	116e	0e	0e	0e	0e
Spelman College	3,406	3,262	0	21	116	7
Hawaii, total	156,976	97,716	33,125	7,232	18,903	0
Public, total	156,976	97,716	33,125	7,232	18,903	0
Univ of Hawaii at Manoa	156,976	97,716	33,125	7,232	18,903	0
Idaho, total	82,496	34,347	18,389	6,683	21,948	1,129
Public, total	82,496	34,347	18,389	6,683	21,948	1,129
Boise State University	6,153	3,962	660	989	542	0
Idaho State University	8,847	3,837	580	2,060	2,370	0
University of Idaho	67,496	26,548	17,149	3,634	19,036	1,129
Illinois, total	1,280,807	741,522	82,742	59,179	311,854	85,510
Public, total	692,841	344,536	72,436	30,309	207,633	37,927
Chicago State University	1,415	1,356	0	0	59	0
Illinois State University	3,902	1,638	985	854	425	0
Northeastern Illinois U	274	47	49	6	59	113
Northern Illinois U	9,028	4,264	357	1,356	3,051	0
S Illinois U Carbondale	43,207	10,868	10,301	5,484	12,204	4,350
S Illinois U Edwardsville	1,270	311	413	416	130	0
U of IL Chicago	233,098	125,109	9,743	10,989	70,677	16,580
U of IL Springfield	2,025	126	618	0	894	387
U of IL Urbana-Champaign	390,863	195,316	48,803	10,992	119,602	16,150
Western Illinois U	7,759	5,501	1,167	212	532	347
Private, total	587,966	396,986	10,306	28,870	104,221	47,583
Bradley University	1,197	286	4	651	256	0
DePaul University	1,628	1,142	7	379	100	0
Finch U Hlth Sci Chicago	8,037	6,256	0	6	1,516	259
Illinois Inst of Tech	14,722	10,917	1,624	1,295	886	0
Knox College	153	153	0	0	0	0
Lake Forest College	375	220	0	0	155	0
Loyola U of Chicago	37,156	26,474	383	1,202	5,736	3,361
Midwestern University	2,421	542	0	169	1,484	226
Northwestern University	257,933	158,129	3,778	14,294	59,852	21,880
Rush University	70,219	37,301	59	9,128	20,148	3,583
University of Chicago	194,125	155,566	4,451	1,746	14,088	18,274
Indiana, total	584,418	247,944	45,456	41,625	203,717	45,676
Public, total	519,391	216,378	42,432	37,923	193,973	28,685
Ball State University	3,071	1,177	242	603	1,004	45
Indiana State University	1,504	269	55	1,180	0	0
Indiana University	259,899	116,781	5,650	6,375	102,566	28,527
Purdue University	254,917	98,151	36,485	29,765	90,403	113

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Indiana, continued:						
Private, total	65,027	31,566	3,024	3,702	9,744	16,991
Rose-Hulman Inst of Tech	18,540	1,457	28	71	0	16,984
University of Notre Dame	46,096	29,801	2,996	3,631	9,668	0
Valparaiso University	391	308	0	0	76	7
Iowa, total	439,810	219,361	59,668	34,716	103,688	22,377
Public, total	436,505	217,653	59,661	34,589	102,333	22,269
Iowa State University	179,196	62,024	52,115	13,177	48,733	3,147
U of Iowa	255,348	155,249	7,084	21,394	52,571	19,050
U of Northern Iowa	1,961	380	462	18	1,029	72
Private, total	3,305	1,708	7	127	1,355	108
Des Moines U Ost Med Ctr	767	164	7	106	490	0
Drake University	366	163	0	21	126	56
Grinnell College	560	168	0 i	0 i	340 i	52 i
Maharishi U of Mgmt	1,612	1,213	0	0	399	0
Kansas, total	268,800	114,732	45,153	12,484	74,134	22,297
Public, total	268,800	114,732	45,153	12,484	74,134	22,297
Kansas State University	94,030	33,998	36,398	4,943	15,866	2,825
Pittsburg State U	2,161	514	536	166	5	940
University of Kansas	156,467	74,494	7,049	4,155	52,380	18,389
Wichita State University	16,142	5,726	1,170	3,220	5,883	143
Kentucky, total	296,895	119,648	41,129	13,993	101,439	20,686
Public, total	295,840	119,317	41,129	13,993	101,439	19,962
Eastern Kentucky U	770	235	70	13	452	0
Kentucky State University	3,996	3,655	317	24	0	0
Murray State University	2,331	778	550	62	941	0
University of Kentucky	211,721	86,239	37,904	12,933	61,008	13,637
University of Louisville	72,857	25,116	1,962	911	38,543	6,325
Western Kentucky Univ	4,165	3,294	326	50	495	0
Private, total	1,055	331	0	0	0	724
Spalding University	1,055	331	0	0	0	724
Louisiana, total	432,356	182,794	84,579	25,676	100,102	39,205
Public, total	327,133	122,260	81,412	17,022	79,284	27,155
Grambling State U	2,264e	2,200e	59e	0e	5e	0e
Louisiana St U, A&M Colle	178,271	49,167	66,114	8,016	46,182	8,792
Louisiana St U, Hlth Sci	65,193	28,261	5,189	5,775	17,187	8,781
Louisiana St U, Shrevepor	138	36	42	33	0	27
Louisiana Tech University	3,480	1,856	1,508	116	0	0
McNeese State University	471	290	0	0	181	0
Nicolls State U	687	0	344	97	246	0
Southeastern Louisiana U	645	342	127	43	133	0
Southern U A&M All Camp	9,052 i	7,059 i	259 i	118 i	1,616 i	0 i
Southern U New Orleans	680	652	0	0	15	13
U of LA Lafayette	32,073	12,130	3,168	0	8,316	8,459
U of LA at Monroe, The	8,870 i	3,106 i	1,527 i	0 i	4,237 i	0 i
University of New Orleans	25,309	17,161	3,075	2,824	1,166	1,083
Private, total	105,223	60,534	3,167	8,654	20,818	12,050
Dillard University	349	199	120	0	30	0
Tulane University	99,761	55,669	3,027	8,654	20,414	11,997
Xavier University of LA	5,113	4,666	20	0	374	53
Maine, total	68,034	25,124	8,536	3,769	25,528	5,077
Public, total	65,614	24,011	8,536	3,562	25,280	4,225
U of Maine	64,070	23,873	7,886	3,562	24,631	4,118
U of Southern Maine	1,544 i	138 i	650 i	0 i	649 i	107 i

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Maine, continued:						
Private, total	2,420	1,113	0	207	248	852
Bates College	940	827	0	4	0	109
Bowdoin College	512	140	0	199	62	111
Colby College	968	146	0	4	186	632
Maryland, total	1,644,467	1,196,085	59,552	71,874	210,933	106,023
Public, total	644,267	315,669	57,375	53,137	160,306	57,780
Bowie State University	2,207	2,022	60	0	0	125
Coppin State College	0	0	0	0	0	0
Morgan State University	2,390	2,390	0	0	0	0
St Mary's Col of MD	251	233	0	0	18	0
Towson University	2,282	694	915	276	397	0
U MD Biotechnology Inst	32,458	11,053	2,491	2,103	14,175	2,636
U MD Ctr for Environ Sci	36,635	12,105	4,912	86	15,525	4,007
U of MD Baltimore	239,007	99,091	26,603	41,226	34,323	37,764
U of MD Baltimore County	29,641	23,695	875	2,131	2,348	592
U of MD Eastern Shore	5,626	5,626	0	0	0	0
U of MD at College Park	267,383	145,515	21,519	7,315	80,378	12,656
US Naval Academy	3,140	3,140	0	0	0	0
Unif Svcs U of Hlth Sci	23,247	10,105	0	0	13,142	0
Private, total	1,000,200	880,416	2,177	18,737	50,627	48,243
Johns Hopkins U	999,246	879,741	2,177	18,737	50,348	48,243
Loyola College	954	675	0	0	279	0
Massachusetts, total	1,576,517	1,140,358	38,180	156,284	80,007	161,688
Public, total	251,384	147,763	31,120	17,072	37,310	18,119
Bridgewater State College	371	64	22	146	111	28
U of MA Amherst	97,976	49,576	3,969	6,181	29,538	8,712
U of MA Boston	11,672	2,546	1,447	0	4,663	3,016
U of MA Dartmouth	9,488	4,928	2,632	517	1,411	0
U of MA Lowell	20,656	11,196	962	6,911	1,587	0
U of MA Worcester	111,221	79,453	22,088	3,317	0	6,363
Private, total	1,325,133	992,595	7,060	139,212	42,697	143,569
Amherst College	1,802	849	0	422	531	0
Boston College	30,768	20,123	733	2,050	5,392	2,470
Boston University	172,031	150,771	933	8,450	0	11,877
Brandeis University	52,818	30,031	118	0	6,000	16,669
Clark University	3,039	2,605	87	0	0	347
College of the Holy Cross	664	446	0	69	0	149
Hampshire College	3,152	998	85	38	158	1,873
Harvard University	372,107	300,414	1,739	14,056	0	55,898
MA Col Phar Allied Hlth	417	129	0 i	288 i	0 i	0 i
MA Institute of Tech	435,495	304,319	181	97,256	6,058	27,681
Mount Holyoke College	1,734	1,004	48	0	83	599
New England Col of Opt	1,608	1,179	0	103	241	85
Northeastern University	34,467	23,532	289	5,530	5,116	0
Simmons College	710	30	0	640	40	0
Smith College	2,578	812	0	1,240	526	0
Tufts University	105,806	71,669	2,266	7,726	13,904	10,241
Wellesley College	5,498	3,446	0	188	0	1,864
Wentworth Inst of Tech	62	62	0	0	0	0
Woods Hole Oceanogr Inst	91,029	75,670	572	97	2,273	12,417
Worcester Polytech Inst	9,348	4,506	9	1,059	2,375	1,399
Michigan, total	1,107,195	621,578	66,764	65,453	278,153	75,247
Public, total	1,100,688	619,544	66,425	63,408	277,107	74,204
Central Michigan U	2,032	291	85	353	1,223	80
Eastern Michigan U	2,992	1,745	560	397	260	30
Ferris State University	64	62	0	2	0	0
Grand Valley State U	1,161	392	83	0	525	161

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Michigan, continued:						
Public, continued:						
Michigan State University	265,946	112,359	46,395	10,953	87,885	8,354
Michigan Tech University	29,613	17,620	663	4,176	6,785	369
Oakland University	7,397	5,318	183	1,370	0	526
University of Michigan	600,523	396,117	5,113	34,439	120,508	44,346
Wayne State University	175,984	79,448	12,463	10,860	55,384	17,829
Western Michigan U	14,976	6,192	880	858	4,537	2,509
Private, total	6,507	2,034	339	2,045	1,046	1,043
Andrews University	712	145	0	16	146	405
Calvin College	1,300	514	0	319	451	16
Hope College	1,417	692	0	0	166	559
Kettering University	1,161	270	23	665	140	63
Lawrence Tech Univ	681	194	205	229	53	0
U of Detroit Mercy	1,236	219	111	816	90	0
Minnesota, total	469,208	267,955	58,468	26,963	81,784	34,038
Public, total	464,950	265,560	58,467	26,940	80,329	33,654
Minnesota State, Mankato	751	165	218	231	137	0
St Cloud State Univ	2,188 i	1,106 i	196 i	255 i	435 i	196 i
University of Minnesota	462,011	264,289	58,053	26,454	79,757	33,458
Private, total	4,258	2,395	1	23	1,455	384
Augsburg College	497	497	0	0	0	0
Carleton College	1,176	693	0	19	300	164
Macalester College	1,923	713	0	0	1,112	98
St Olaf College	453	403	1	0	0	49
University of St Thomas	209	89	0	4	43	73
Mississippi, total	242,133	145,505	39,287	7,929	48,018	1,394
Public, total	241,126	145,098	39,287	7,929	47,418	1,394
Alcorn State University	7,370	7,370	0	0	0	0
Jackson State University	25,663	22,750	0	0	2,913	0
Mississippi State U	146,939	65,493	32,357	6,744	42,345	0
Mississippi Valley St U	1,316	1,316	0	0	0	0
U Mississippi, All Camp	39,552	30,108	6,222	378	1,450	1,394
U Southern Mississippi	20,286	18,061	708	807	710	0
Private, total	1,007	407	0	0	600	0
Rust College	0	0	0	0	0	0
Tougaloo College	1,007	407	0	0	600	0
Missouri, total	678,460	409,999	25,166	37,932	164,074	41,289
Public, total	237,303	95,843	18,289	9,871	104,024	9,276
Lincoln University	2,236	2,236	0	0	0	0
Southeast Missouri St U	223	108	50	50	15	0
Southwest Missouri St U	1,550	443	1,077	10	20	0
Truman State University	834 i	195 i	2 i	9 i	627 i	1 i
U of Missouri Columbia	174,782	68,435	16,154	4,654	78,842	6,697
U of Missouri Kansas City	18,795	8,176	287	1,665	8,268	399
U of Missouri Rolla	28,799	11,929	481	3,088	11,530	1,771
U of Missouri St Louis	10,084	4,321	238	395	4,722	408
U of Missouri Sys Admn	0	0	0	0	0	0
Private, total	441,157	314,156	6,877	28,061	60,050	32,013
Forest Inst of Prof Psy	0	0	0	0	0	0
Kirksville Col Osteo Med	907	731	0	0	131	45
Saint Louis University	32,442	28,117	224	3,196	633	272
U of Health Sci, The (MO)	1,166	380	134	0	652	0
Washington University	406,642	284,928	6,519	24,865	58,634	31,696

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Montana, total	107,744	56,668	19,745	9,084	20,919	1,328
Public, total	107,744	56,668	19,745	9,084	20,919	1,328
MT Tech of the U of MT	4,616	2,617	1,447	552	0	0
Montana St U Bozeman	69,593	34,857	16,502	7,041	11,193	0
Univ of Montana, The	33,535	19,194	1,796	1,491	9,726	1,328
Nebraska, total	241,638	76,507	7,007	17,782	127,825	12,517
Public, total	223,964	69,232	5,993	11,840	124,480	12,419
U of Nebraska Med Ctr	60,695	22,497	2,064	5,929	20,607	9,598
U of Nebraska at Kearney	231	146	0	0	25	60
U of Nebraska at Lincoln	157,520	43,877	3,899	5,908	101,217	2,619
U of Nebraska at Omaha	5,518	2,712	30	3	2,631	142
Private, total	17,674	7,275	1,014	5,942	3,345	98
Creighton University	17,674	7,275	1,014	5,942	3,345	98
Nevada, total	115,934	69,085	10,275	5,078	27,681	3,815
Public, total	115,934	69,085	10,275	5,078	27,681	3,815
Desert Research Institute	29,697	22,018	2,538	802	1,889	2,450
U of Nevada Las Vegas	27,008	15,681	4,045	1,938	5,344	0
U of Nevada Reno	59,229	31,386	3,692	2,338	20,448	1,365
New Hampshire, total	196,975	115,067	12,194	12,140	43,031	14,543
Public, total	87,879	45,223	8,603	7,751	19,298	7,004
U of New Hampshire	87,879	45,223	8,603	7,751	19,298	7,004
Private, total	109,096	69,844	3,591	4,389	23,733	7,539
Dartmouth College	109,096	69,844	3,591	4,389	23,733	7,539
New Jersey, total	609,470	270,121	52,159	33,725	172,716	80,749
Public, total	444,153	182,205	45,942	25,454	130,235	60,317
Montclair State U	766	465	22	28	211	40
NJ Inst of Technology	44,177	18,530	8,587	965	1,730	14,365
Rutgers the State U NJ	236,793	77,156	28,163	10,965	89,916	30,593
U Med & Dent of NJ	162,417	86,054	9,170	13,496	38,378	15,319
Private, total	165,317	87,916	6,217	8,271	42,481	20,432
Fairleigh Dickinson U	223	98	48	8	27	42
Monmouth University	118	89	29	0	0	0
Princeton University	149,411	78,620	3,102	8,246	41,983	17,460
Rider University	884	189	3	17	471	204
Seton Hall University	826	826	0	0	0	0
Stevens Inst of Tech	13,855	8,094	3,035	0	0	2,726
New Mexico, total	274,209	185,733	11,872	12,297	55,841	8,466
Public, total	274,209	185,733	11,872	12,297	55,841	8,466
NM Inst Mining & Tech	28,392	13,255	1,998	6,204	6,046	889
New Mexico Highlands U	2,235	1,849	12	0	0	374
New Mexico State Univ	86,963	61,124	7,960	4,272	12,537	1,070
University of New Mexico	156,619	109,505	1,902	1,821	37,258	6,133
New York, total	2,476,090	1,566,387	127,737	129,459	413,608	238,899
Public, total	588,235	323,067	26,745	30,519	149,158	58,746
CUNY Baruch Col	375e	87e	49e	133e	106e	0e
CUNY Brooklyn College	6,442	2,776	364	319	1,971	1,012
CUNY City College	17,099	13,022	1,903	1,602	342	230
CUNY Col Staten Island	1,635	1,128	9	245	253	0
CUNY Grad Ctr	2,906	1,489	12	0	116	1,289
CUNY H H Lehman Col	2,255	2,048	0	0	137	70
CUNY Hunter College	19,964	10,922	1,383	17	5,608	2,034
CUNY John Jay Col Cr Just	1,070	733	129	0	0	208
CUNY Medger Evers Col	756	714	0	0	42	0

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
New York, continued:						
Public, continued:						
CUNY Queens College	4,595	3,484	266	764	81	0
CUNY York College	1,117	923	150	0	26	18
SUNY Col Env Sci & Frstry	27,854	4,355	2,992	2,149	17,389	969
SUNY Col Old Westbury	1,310e	1,067e	0e	0e	243e	0e
SUNY Col at Brockport	722e	344e	283e	0e	67e	28e
SUNY Col at Buffalo	1,552	338	157	235	739	83
SUNY Col at Cortland	378	276	0	0	67	35
SUNY Col at Fredonia	224	121	46	15	11	31
SUNY Col at Geneseo	644	350	8	94	167	25
SUNY Col at Oswego	783	578	0	26	117	62
SUNY Col at Plattsburgh	1,118	712	68	37	269	32
SUNY Col of Optometry	1,435	993	0	56	180	206
SUNY Hlth Sci Ctr Brklyn	31,626e	22,860e	229e	1,787e	4,094e	2,656e
SUNY Upstate Med U	17,948	10,824	255	906	830	5,133
SUNY at Albany	70,119	46,671	7,819	1,017	7,024	7,588
SUNY at Binghamton	18,992	6,392	2,286	2,493	4,755	3,066
SUNY at Buffalo	186,829	96,595	5,220	11,598	50,091	23,325
SUNY at Stony Brook	168,487	93,265	3,117	7,026	54,433	10,646
Private, total	1,887,855	1,243,320	100,992	98,940	264,450	180,153
Adelphi University	137	101	0	5	5	26
Albany Col of Pharmacy	1,208	806	0	370	32	0
Albany Medical College	12,836	8,562	0	69	2,977	1,228
Alfred University	6,678	1,166	958	3,244	1,023	287
Barnard College	1,376	1,269	0	0	0	107
Clarkson University	8,322	4,286	762	1,566	1,708	0
Colgate U	1,694	708	0	0	697	289
Columbia U in City of NY	354,497	317,928	1,122	2,885	13,481	19,081
Cooper Union	501	27	12	355	0	107
Cornell University	443,828	240,466	62,569	22,261	80,446	38,086
Fordham University	3,639	1,980	417	0	141	1,101
Hamilton College	931	382	0	34	229	286
Hofstra University	661	402	0	106	0	153
Ithaca College	2,034	1,653	0	0	381	0
Long Island University	1,201	919	35	66	95	86
Manhattan College	509e	293e	100e	116e	0e	0e
Mt Sinai Sch Med	176,946	109,344	2,698	18,133	17,134	29,637
New School University	5,791	1,083	0	0	0	4,708
New York Inst Technology	571	166	23	36	205	141
New York Medical College	24,283	18,344	161	3,626	0	2,152
New York University	190,722	129,897	2,739	6,535	25,514	26,037
Pace University All Cmp	378	295	0	0	0	83
Polytechnic University	8,277	4,063	1,568	2,510	0	136
Rensselaer Polytech Inst	45,010	25,894	5,781	5,928	4,734	2,673
Rochester Inst of Tech	11,416	5,612	2,306	2,705	0	793
Rockefeller U, The	145,571	55,362	6,079	2,844	52,493	28,793
Skidmore College	250	68	0	130	52	0
St John's University (NY)	1,184e	938e	85e	0e	161e	0e
Syracuse University	42,476	30,036	3,693	1,420	2,223	5,104
Teachers Col, Columbia U	9,676	5,617	0	0	0	4,059
Union College (NY)	1,045	587	0	214	197	47
University of Rochester	234,261	166,945	9,839	23,782	20,092	13,603
Vassar College	1,716e	321e	45e	0e	0e	1,350e
Yeshiva University	148,230	107,800	0	0	40,430	0

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
North Carolina, total	1,137,279	655,093	120,663	167,907	152,944	40,672
Public, total	662,697	358,085	112,108	50,466	132,312	9,726
Appalachian State U	752	280	82	0	112	278
East Carolina University	10,535	5,188	1,494	3,853	0	0
Elizabeth City State U	1,248	1,248	0	0	0	0
Fayetteville State U	589	298	291	0	0	0
NC A&T State University	15,629	11,937	176	260	3,256	0
NC State University	299,259	95,875	91,794	37,858	65,966	7,766
North Carolina Central U	913 i	853 i	0 i	0 i	0 i	60 i
U of NC Asheville	1,269	386	563	54	29	237
U of NC Chapel Hill	303,576	221,615	15,914	6,971	59,076	0
U of NC Charlotte	7,905	5,145	111	773	1,668	208
U of NC Greensboro	3,895	2,803	156	513	292	131
U of NC Wilmington	10,307	7,242	1,144	102	1,600	219
Western Carolina U	763	362	6	82	313	0
Winston Salem State U	6,057	4,853	377	0	0	827
Private, total	474,582	297,008	8,555	117,441	20,632	30,946
Bennett College	811 i	583 i	0 i	48 i	0 i	180 i
Duke University	375,133	218,109	7,748	104,063	19,275	25,938
Johnson C Smith U	195	195	0	0	0	0
Shaw University	100 i	100 i	0 i	0 i	0 i	0 i
Wake Forest University	98,343	78,021	807	13,330	1,357	4,828
North Dakota, total	84,574	30,950	1,440	6,242	42,409	3,533
Public, total	84,574	30,950	1,440	6,242	42,409	3,533
North Dakota State U	64,882	15,207	1,440	3,784	41,533	2,918
U of North Dakota	19,692	15,743	0	2,458	876	615
Ohio, total	995,972	560,767	80,268	86,186	193,173	75,578
Public, total	752,932	366,505	76,035	74,778	179,314	56,300
Air Force Inst of Tech	8,311	1,671	796	1	5,843	0
Bowling Green State U	5,028	2,395	790	126	884	833
Central State University	560 i	283 i	0 i	125 i	38 i	114 i
Cleveland State U	12,986	3,986	4,965	1,447	2,248	340
Kent State University	11,316	8,158	1,289	893	976	0
Med Col of Ohio	15,276	11,362	735	259	2,223	697
Miami University (OH)	12,804	3,324	1,015	1,021	6,604	840
NE Ohio Univ Col of Med	4,532	2,072	153	156	1,553	598
Ohio State University	390,652	161,092	54,867	54,736	86,275	33,682
Ohio University	27,146	12,898	2,528	2,022	8,850	848
University of Akron	22,266	8,672	1,366	2,557	6,737	2,934
University of Cincinnati	192,895	128,049	3,619	6,028	41,092	14,107
University of Toledo	16,278	6,701	682	2,025	6,138	732
Wright State University	32,033	15,417	3,140	3,269	9,632	575
Youngstown State Univ	849	425	90	113	221	0
Private, total	243,040	194,262	4,233	11,408	13,859	19,278
Antioch University	0	0	0	0	0	0
Case Western Reserve U	198,253	158,852	3,735	6,190	11,636	17,840
College of Wooster	286	249	0	22	15	0
Denison University	384	121	0	0	40	223
John Carroll University	515	232	0	18	93	172
Oberlin College	325	285	0	40	0	0
Ohio Wesleyan University	255 i	185 i	0 i	0 i	0 i	70 i
U of Findlay	182	0	98	0	0	84
Union Institute, The	1,217e	0e	0e	0e	592e	625e
University of Dayton	41,343	34,102	400	5,138	1,439	264
Wilberforce University	280 i	236 i	0 i	0 i	44 i	0 i

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Oklahoma, total	255,217	96,349	40,615	17,382	88,219	12,652
Public, total	242,664	89,008	39,520	14,124	87,360	12,652
Langston University	2,863	2,863	0	0	0	0
Oklahoma State University	90,311	25,636	24,904	3,688	34,866	1,217
U of Central Oklahoma	795	245	310	40	200	0
University of Oklahoma	148,695	60,264	14,306	10,396	52,294	11,435
Private, total	12,553	7,341	1,095	3,258	859	0
University of Tulsa	12,553	7,341	1,095	3,258	859	0
Oregon, total	366,023	255,324	41,449	14,489	35,864	18,897
Public, total	344,629	240,252	40,575	12,565	33,350	17,887
Oregon Health & Science U	136,785	111,671	2,879	11,538	0	10,697
Oregon State University	153,925	84,854	36,649	298	27,261	4,863
Portland State University	16,838	11,341	841	574	3,197	885
Southern Oregon Univ	200	154	3	0	42	1
University of Oregon	36,881	32,232	203	155	2,850	1,441
Private, total	21,394	15,072	874	1,924	2,514	1,010
Lewis and Clark College	420	206	0	136	78	0
OGI Schl Sci & Eng OHSU	18,798	14,072	702	1,725	1,955	344
Pacific University	299	157	0	20	20	102
Reed College	814	277	0	0	187	350
University of Portland	719	291	172	10	32	214
Willamette University	344	69	0	33	242	0
Pennsylvania, total	1,687,457	1,144,586	51,467	162,823	208,810	119,771
Public, total	870,172	558,082	29,749	88,088	151,706	42,547
East Stroudsburg U of PA	962	147	113	0	696	6
Indiana U of PA All Cmp	756	453	3	196	104	0
Lincoln University (PA)	620	620	0	0	0	0
Pennsylvania State U	458,066	245,951	23,504	67,658	112,417	8,536
Temple University	60,182	41,643	961	5,400	6,290	5,888
University of Pittsburgh	348,792	268,571	5,149	14,817	32,183	28,072
West Chester U of PA	794e	697e	19e	17e	16e	45e
Private, total	817,285	586,504	21,718	74,735	57,104	77,224
Allegheny College	1,023	412	19	0	171	421
Bryn Mawr College	3,066	855	94	0	2,117	0
Bucknell University	1,791	1,106	340	345	0	0
Carnegie Mellon U	144,882	97,463	3,401	23,491	0	20,527
Dickinson College	1,528	806	117	316	289	0
Drexel University	27,698	20,159	717	251	4,307	2,264
Duquesne University	2,561	1,969	211	162	7	212
Franklin & Marshall Coll	698	599	0	0	0	99
Haverford College	1,178	989	0	0	67	122
Juniata College	171e	107e	0e	0e	0e	64e
La Salle University	294	236	56	0	2	0
Lafayette College	1,008	353	32	3	620	0
Lehigh University	29,058	13,961	6,151	5,532	3,203	211
MCP Hahnemann University	32,462	22,944	4,249	2,604	312	2,353
PA College of Optometry	800	695	0	78	16	11
Phila Col Osteopathic Med	935	395	8	35	170	327
St Joseph's Univ	1,628	1,130	243	22	104	129
Swarthmore College	966	691	45	0	82	148
Thomas Jefferson U	88,936	64,881	3,933	12,326	1,686	6,110
U of Pennsylvania	469,852	351,996	1,952	28,227	43,655	44,022
U of Sci in Philadelphia	573	200	0	361	12	0
Villanova University	5,969 i	4,520 i	150 i	982 i	284 i	33 i
Widener U All Campuses	208e	37e	0e	0e	0e	171e
Rhode Island, total	142,564	101,560	5,511	2,229	29,617	3,647
Public, total	50,835	43,161	5,437	441	1,543	253
U of Rhode Island	50,835	43,161	5,437	441	1,543	253

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Rhode Island, continued:						
Private, total	91,729	58,399	74	1,788	28,074	3,394
Brown University	91,636	58,367	74	1,777	28,024	3,394
Providence College	93 i	32 i	0 i	11 i	50 i	0 i
South Carolina, total	361,404	169,257	30,135	23,006	131,435	7,571
Public, total	357,567	165,798	30,022	23,006	131,405	7,336
Clemson University	123,885	48,560	21,190	11,582	42,096	457
Coastal Carolina U	1,038	736	141	3	152	6
College of Charleston	3,069	1,988	340	14	494	233
Med U of South Carolina	116,687	60,543	1,257	7,168	46,470	1,249
South Carolina State U	2,915e	1,988e	24e	0e	279e	624e
U of South Carolina	109,973	51,983	7,070	4,239	41,914	4,767
Private, total	3,837	3,459	113	0	30	235
Benedict College	1,044	1,014	0	0	30	0
Claflin College	2,074	1,958	113	0	0	3
Furman University	719	487	0	0	0	232
South Dakota, total	32,185	16,407	9,041	403	3,631	2,703
Public, total	32,185	16,407	9,041	403	3,631	2,703
SD Sch of Mines & Tech	6,922	4,417	407	35	1,991	72
South Dakota State U	19,717	8,456	8,363	368	1,057	1,473
U of South Dakota	5,546	3,534	271	0	583	1,158
Tennessee, total	423,264	264,897	43,812	21,503	56,888	36,164
Public, total	222,502	104,825	43,270	18,467	35,710	20,230
East Tennessee State U	8,222	3,572	1,765	0	162	2,723
Middle Tennessee State U	799	296	159	180	164	0
Tennessee State U	12,791	10,210	11	122	2,435	13
Tennessee Tech U	9,347	1,124	4,165	1,957	1,835	266
U of Tennessee	160,292	78,558	33,867	15,364	17,118	15,385
U of Tennessee Chattanoo	1,593	53	0	27	1,356	157
U of Tennessee Martin	13	0	0	0	0	13
Univ of Memphis, The	29,445	11,012	3,303	817	12,640	1,673
Private, total	200,762	160,072	542	3,036	21,178	15,934
Fisk University	2,722	2,577	145	0	0	0
Le Moyne-Owen Coll	1,268	1,250	0	0	18	0
Meharry Medical College	10,268 i	10,015 i	0 i	0 i	0 i	253 i
Vanderbilt University	186,504	146,230	397	3,036	21,160	15,681
Texas, total	2,244,117	1,231,083	227,494	176,605	368,538	240,397
Public, total	1,802,599	950,898	220,897	152,716	309,483	168,605
Lamar University	3,441	2,217	893	326	5	0
Prairie View A&M U	11,297	7,094	1,740	127	2,336	0
Sam Houston State U	2,441	1,802	151	308	180	0
Southwest Texas St Univ	8,884	3,854	3,026	33	363	1,608
Stephen F Austin St U	4,116	959	362	0	778	2,017
Sul Ross State University	779	95	591	0	0	93
TX A&M U Sys Hlth Sci Ctr	40,859	18,384	8,138	1,050	8,424	4,863
Tarleton State University	6,607	4,094	70	0	2,287	156
Texas A&M Commerce	262	83	24	0	15	140
Texas A&M Corpus Chri	5,606	2,357	1,788	210	1,202	49
Texas A&M Univ Kingsville	6,919	1,828	633	360	2,201	1,897
Texas A&M University	407,041	149,382	100,480	35,110	116,210	5,859
Texas Southern U	2,468	1,908	363	197	0	0
Texas Tech University	69,918	22,967	21,243	6,236	15,194	4,278
Texas Woman's University	2,898	1,185	1,515	69	0	129
U Houston Clear Lake	11,519	10,629	398	102	346	44
U North TX Hlth Sci Ctr	11,035	6,562	180	1,891	2,402	0
U TX Hlth Sci Ctr San Ant	115,154	71,153	6,441	9,677	20,797	7,086
U TX MD Anderson Cncr Ctr	212,746	94,053	0	26,717	58,853	33,123

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Texas, continued:						
Public, continued:						
U TX Med Br at Galveston	102,722	64,682	10,775	6,020	10,608	10,637
U TX SW Med Ctr at Dallas	222,376	131,820	9,516	13,320	5,942	61,778
U TX at Arlington	17,486	9,413	1,674	787	5,612	0
U TX at Austin	295,104	195,184	19,939	30,310	36,266	13,405
U TX at Dallas	15,684e	7,049e	3,164e	4,715e	394e	362e
U TX at El Paso	21,889	16,167	2,875	1,321	1,526	0
U TX at San Antonio	11,331	8,012	3,027	27	265	0
U of Houston Downtown	837e	660e	0e	20e	157e	0e
U of TX Pan American	2,279	1,288	42	32	708	209
UT Houston Hlth Sci Ctr	125,439	88,545	4,129	10,945	7,633	14,187
University of Houston	51,567	21,876	15,472	1,992	7,726	4,501
University of North Texas	7,380	2,915	899	777	943	1,846
West Texas A&M U	4,515	2,681	1,349	37	110	338
Private, total	441,518	280,185	6,597	23,889	59,055	71,792
Abilene Christian Univ	319	162	0	38	90	29
Baylor Col of Medicine	381,461	234,394	3,731	18,389	56,413	68,534
Baylor University	2,698	516	495	741	457	489
Jarvis Christian College	55e	55e	0e	0e	0e	0e
Rice University	42,675	35,682	1,784	3,196	0	2,013
Southern Methodist U	8,948	5,587	384	946	1,520	511
St Mary's University	362	193	0e	0e	169e	0e
Texas Christian U	3,678	2,824	203	578	73	0
Trinity University	1,241e	746e	0e	1e	330e	164e
University of Dallas	81	26	0	0	3	52
Wiley College	0	0	0	0	0	0
Utah, total	338,127	213,163	21,445	15,002	54,787	33,730
Public, total	318,956	201,504	20,190	12,618	51,977	32,667
University of Utah	197,597	127,253	2,166	6,023	35,021	27,134
Utah State University	121,359	74,251	18,024	6,595	16,956	5,533
Private, total	19,171	11,659	1,255	2,384	2,810	1,063
Brigham Young University	19,171	11,659	1,255	2,384	2,810	1,063
Vermont, total	76,882	50,095	4,052	6,434	12,338	3,963
Public, total	75,597	48,810	4,052	6,434	12,338	3,963
University of Vermont	75,597	48,810	4,052	6,434	12,338	3,963
Private, total	1,285	1,285	0	0	0	0
Middlebury College	1,285	1,285	0	0	0	0
Virginia, total	610,717	344,849	70,081	49,608	109,548	36,631
Public, total	570,196	323,731	69,849	40,144	108,293	28,179
Col of William & Mary	35,829	15,288	3,327	1,165	14,148	1,901
George Mason University	32,881	25,992	741	874	1,048	4,226
James Madison University	1,449	890	306	0	0	253
Norfolk State University	3,984	3,952	14	0	0	18
Old Dominion University	24,659	15,280	3,789	2,885	2,705	0
Radford University	665	492	93	17	18	45
University of Virginia	149,547	122,868	297	7,733	11,661	6,988
VA Polytech Inst & St U	216,323	77,384	58,232	18,355	52,534	9,818
Virginia Commonwealth U	99,180	57,315	2,358	8,522	26,091	4,894
Virginia Military Inst	613	24	1	494	58	36
Virginia State University	5,066	4,246	691	99	30	0
Private, total	40,521	21,118	232	9,464	1,255	8,452
Eastern VA Med School	26,250	11,389	232	6,264	110	8,255
Hampton University	9,158	8,377	0	48	643	90
Institute of Textile Tech	3,171	0	0	3,039	132	0
University of Richmond	1,271	815	0	113	343	0
Virginia Union University	671 i	537 i	0 i	0 i	27 i	107 i

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Washington, total	706,579	488,877	18,644	47,917	128,599	22,542
Public, total	706,110	488,555	18,644	47,917	128,452	22,542
Central Washington U	1,880	1,337	161	53	204	125
E Washington Univ	2,620	1,668	726	0	112	114
Evergreen State Coll	487	487	0	0	0	0
U of Washington	589,626	435,103	11,716	43,312	88,309	11,186
W Washington Univ	3,560	1,300	583	114	1,357	206
Washington State U	107,937	48,660	5,458	4,438	38,470	10,911
Private, total	469	322	0	0	147	0
Whitman College	469	322	0	0	147	0
West Virginia, total	79,076	35,526	2,471	6,526	29,429	5,124
Public, total	78,721	35,420	2,471	6,526	29,188	5,116
Bluefield State College	0	0	0	0	0	0
Marshall U	7,218	5,980	140	198	800	100
WV Sch of Osteo Med	129	0	0	0	127	2
West Virginia State Col	63e	0e	55e	0e	0e	8e
West Virginia University	71,311	29,440	2,276	6,328	28,261	5,006
Private, total	355	106	0	0	241	8
Salem International Univ	355	106	0	0	241	8
Wisconsin, total	728,618	386,441	40,423	22,669	206,671	72,414
Public, total	635,408	318,709	38,672	18,089	197,145	62,793
U of WI-Eau Claire	514	288	12	16	102	96
U of WI-Green Bay	602	328	31	50	145	48
U of WI-La Crosse	1,563	871	83	103	379	127
U of WI-Madison	604,143	304,009	35,317	17,237	187,924	59,656
U of WI-Milwaukee	23,492	11,089	2,972	529	7,398	1,504
U of WI-Oshkosh	670	271	38	20	151	190
U of WI-Parkside	575	352	10	4	146	63
U of WI-River Falls	288	81	45	12	77	73
U of WI-Stevens Point	1,827	270	159	8	494	896
U of WI-Stout	1,070	816	1	42	211	0
U of WI-Superior	404	79	3	68	115	139
U of WI-Whitewater	260	255	1	0	3	1
Private, total	93,210	67,732	1,751	4,580	9,526	9,621
Marquette University	7,236	3,309	1,575	1,010	618	724
Medical Col of Wisconsin	83,857	64,003	172	2,126	8,674	8,882
Milwaukee School of Eng	2,117	420	4	1,444	234	15
Wyoming, total	41,632	20,017	2,038	2,581	16,216	780
Public, total	41,632	20,017	2,038	2,581	16,216	780
University of Wyoming	41,632	20,017	2,038	2,581	16,216	780
Guam, total	3,752	3,355	397	0	0	0
Public, total	3,752	3,355	397	0	0	0
University of Guam	3,752	3,355	397	0	0	0

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institu-tional funds	All other sources
Puerto Rico, total	63,755	44,908	2,911	2,285	12,527	1,124
Public, total	52,881	34,461	2,911	2,285	12,118	1,106
U PR Mayaguez Campus	18,627	9,015	2,700	1,059	5,000	853
U PR Med Sci Campus	23,913	19,433	205	1,121	2,927	227
U PR Rio Piedras Campus	10,341	6,013	6	105	4,191	26
Private, total	10,874	10,447	0	0	409	18
Ponce School of Medicine	3,842	3,736	0 i	0 i	91 i	15 i
Pont Catholic U of PR, The	89	89	0	0	0	0
U Ctrl Del Caribe Esc Med	6,943	6,622	0	0	318	3
Virgin Islands, total	3,310	1,957	1,257	96	0	0
Public, total	3,310	1,957	1,257	96	0	0
U of the Virgin Islands	3,310 i	1,957 i	1,257 i	96 i	0 i	0 i

KEY: e = estimated
i = imputed

NOTES: Because of rounding, detail may not add to totals.

Beginning in fiscal year 1998, this table reports data for all institutions. In prior years this table reported on doctorate-granting institutions only.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-30. R&D expenditures at doctorate-granting institutions, by geographic division, State, and science and engineering field: fiscal year 2001

[Dollars in thousands]

Division and State	Total	Engineering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Total	32,213,590	4,911,861	2,721,442	1,775,577	1,264,231	19,031,379	563,284	1,399,807	546,009
New England	2,530,338	346,641	249,930	226,143	113,247	1,353,521	51,386	111,910	77,560
Connecticut	492,794	35,868	29,679	11,346	8,064	382,913	11,996	10,766	2,162
Maine	64,070	8,805	5,996	19,969	1,487	23,912	233	2,785	883
Massachusetts	1,558,338	247,298	195,824	123,006	83,564	738,923	24,913	86,000	58,810
New Hampshire	196,975	33,238	6,706	41,668	5,712	89,991	5,882	6,225	7,553
Rhode Island	142,564	19,694	10,165	29,744	12,613	51,425	7,079	5,964	5,880
Vermont	75,597	1,738	1,560	410	1,807	66,357	1,283	170	2,272
Middle Atlantic	4,700,735	671,434	368,035	151,445	195,637	2,982,607	105,331	192,892	33,354
New Jersey	607,702	119,083	64,738	36,371	26,395	296,217	12,323	49,108	3,467
New York	2,425,006	249,535	187,695	85,445	78,308	1,683,958	53,223	69,256	17,586
Pennsylvania	1,668,027	302,816	115,602	29,629	90,934	1,002,432	39,785	74,528	12,301
East North Central	4,646,390	790,915	405,297	110,115	168,421	2,680,267	100,841	314,754	75,780
Illinois	1,268,364	186,672	121,623	42,495	74,006	740,893	28,662	55,058	18,955
Indiana	565,487	92,978	69,719	8,730	18,886	275,324	15,480	55,947	28,423
Michigan	1,101,475	199,408	91,946	12,258	26,583	641,627	20,226	105,956	3,471
Ohio	992,336	222,872	67,134	13,893	33,078	562,244	12,945	56,040	24,130
Wisconsin	718,728	88,985	54,875	32,739	15,868	460,179	23,528	41,753	801
West North Central	2,197,565	246,611	120,461	53,731	53,341	1,562,743	33,618	87,217	39,843
Iowa	436,923	68,871	25,616	6,723	11,643	289,357	4,839	21,360	8,514
Kansas	266,639	43,247	17,592	11,760	6,748	165,477	3,435	9,334	9,046
Minnesota	462,220	41,669	35,096	13,528	12,738	336,121	8,201	14,838	29
Missouri	673,617	51,194	26,390	7,621	13,048	540,013	10,503	22,512	2,336
Nebraska	241,407	26,422	10,497	8,439	7,837	157,561	6,000	11,213	13,438
North Dakota	84,574	11,344	3,656	1,742	1,309	54,585	589	6,020	5,329
South Dakota	32,185	3,864	1,614	3,918	18	19,629	51	1,940	1,151
South Atlantic	6,031,281	1,127,131	479,723	355,767	275,794	3,337,429	94,552	296,306	64,579
Delaware	77,491	25,360	12,830	8,252	2,983	21,871	1,364	4,831	0
District of Columbia	223,285	15,479	24,108	149	18,484	146,665	4,021	12,976	1,403
Florida	979,794	149,088	93,073	94,042	23,756	515,199	34,271	54,569	15,796
Georgia	973,088	228,941	53,322	32,429	54,961	514,281	20,631	55,497	13,026
Maryland	1,638,869	367,582	165,793	102,127	120,514	777,808	8,644	73,848	22,553
North Carolina	1,114,275	111,779	59,176	38,369	33,127	807,160	10,143	51,229	3,292
South Carolina	350,545	75,880	24,546	17,470	7,064	193,898	3,925	21,255	6,507
Virginia	595,276	132,240	42,244	58,166	14,155	314,895	11,376	21,944	256
West Virginia	78,658	20,782	4,631	4,763	750	45,652	177	157	1,746
East South Central	1,369,501	231,078	84,074	36,508	39,867	867,900	27,957	39,820	42,297
Alabama	433,760	75,171	23,959	9,153	11,797	291,596	7,876	4,624	9,584
Kentucky	285,633	36,355	10,479	782	4,204	211,009	3,276	7,501	12,027
Mississippi	232,440	52,034	27,339	15,524	10,409	99,108	3,029	8,435	16,562
Tennessee	417,668	67,518	22,297	11,049	13,457	266,187	13,776	19,260	4,124
West South Central	3,003,460	421,936	190,166	203,505	98,031	1,958,990	30,986	77,265	22,581
Arkansas	133,659	13,352	7,358	2,382	2,076	104,648	670	3,143	30
Louisiana	422,009	61,566	23,262	35,655	9,494	262,303	1,549	15,989	12,191
Oklahoma	251,559	41,476	21,592	31,394	5,847	117,045	12,465	18,779	2,961
Texas	2,196,233	305,542	137,954	134,074	80,614	1,474,994	16,302	39,354	7,399

See explanatory information and SOURCE at end of table.

Table B-30. R&D expenditures at doctorate-granting institutions, by geographic division, State, and science and engineering field: fiscal year 2001

[Dollars in thousands]

Division and State	Total	Engineering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Mountain	2,018,318	398,103	250,918	173,396	57,768	922,550	40,988	75,017	99,578
Arizona	500,548	95,775	95,510	21,730	14,512	228,136	9,845	27,732	7,308
Colorado	564,479	79,057	88,387	69,773	10,704	272,772	15,585	16,887	11,314
Idaho	82,496	15,307	4,318	6,121	1,827	48,339	666	3,144	2,774
Montana	103,128	10,477	13,253	1,380	1,133	65,401	164	6,576	4,744
Nevada	115,934	10,728	10,169	40,942	1,799	34,208	1,443	3,870	12,775
New Mexico	271,974	91,083	14,421	13,235	7,142	85,349	7,897	7,458	45,389
Utah	338,127	92,032	21,791	13,732	20,116	168,630	4,617	7,778	9,431
Wyoming	41,632	3,644	3,069	6,483	535	19,715	771	1,572	5,843
Pacific	5,652,247	668,343	568,162	458,468	261,344	3,326,742	76,311	202,474	90,403
Alaska	110,195	7,344	13,599	30,488	16,300	16,601	0	517	25,346
California	4,323,987	564,815	475,776	261,614	216,103	2,533,207	56,206	163,792	52,474
Hawaii	156,976	8,955	26,405	47,185	737	58,455	382	4,763	10,094
Oregon	363,526	22,234	16,883	42,770	16,878	240,511	10,164	12,848	1,238
Washington	697,563	64,995	35,499	76,411	11,326	477,968	9,559	20,554	1,251
Outlying Areas	63,755	9,669	4,676	6,499	781	38,630	1,314	2,152	34

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
United States, total	32,723,078	4,999,648	2,800,364	1,826,827	1,311,067	19,189,112	581,865	1,435,540	578,655
Public, total	22,340,844	3,620,505	1,871,888	1,486,480	802,747	12,594,321	433,636	1,123,145	408,122
Private, total	10,382,234	1,379,143	928,476	340,347	508,320	6,594,791	148,229	312,395	170,533
Alabama, total	445,299	76,175	24,353	9,161	12,028	299,416	7,876	6,706	9,584
Public, total	435,193	75,171	23,959	9,153	12,007	292,757	7,876	4,686	9,584
Alabama A&M University	8,982 i	925 i	1,853 i	106 i	592 i	4,792 i	0 i	246 i	468 i
Alabama State University	1,433e	0e	0e	0e	210e	1,161e	0e	62e	0e
Auburn University	106,347	31,568	4,128	733	437	58,552	262	2,131	8,536
U of Alabama Birmingham	231,702	5,441	3,950	0	516	216,201	5,495	99	0
U of Alabama Huntsville	43,731	16,671	9,769	5,772	9,600	1,494	0	333	92
U of South Alabama	9,865e	601e	160e	762e	40e	7,836e	202e	264e	0e
University of Alabama, The	33,133	19,965	4,099	1,780	612	2,721	1,917	1,551	488
Private, total	10,106	1,004	394	8	21	6,659	0	2,020	0
Oakwood College	567 i	0 i	202 i	8 i	21 i	336 i	0 i	0 i	0 i
Selma University	0e	0e	0e	0e	0e	0e	0e	0e	0e
Talladega College	0	0	0	0	0	0	0	0	0
Tuskegee University	9,539	1,004	192	0	0	6,323	0	2,020	0
Alaska, total	115,601	7,344	13,599	30,488	16,300	16,601	0	517	30,752
Public, total	115,601	7,344	13,599	30,488	16,300	16,601	0	517	30,752
U of Alaska Anchorage	5,406 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	5,406 i
U of Alaska Fairbanks	110,195	7,344	13,599	30,488	16,300	16,601	0	517	25,346
Arizona, total	500,548	95,775	95,510	21,730	14,512	228,136	9,845	27,732	7,308
Public, total	500,548	95,775	95,510	21,730	14,512	228,136	9,845	27,732	7,308
Arizona State University	118,763	42,485	22,231	9,798	5,159	15,307	6,399	10,114	7,270
Northern Arizona U	14,657	804	1,148	1,383	290	9,510	43	1,469	10
University of Arizona	367,128	52,486	72,131	10,549	9,063	203,319	3,403	16,149	28
Arkansas, total	140,741	13,859	7,836	2,959	2,314	108,859	745	3,404	765
Public, total	140,741	13,859	7,836	2,959	2,314	108,859	745	3,404	765
Arkansas State University	1,347	198	219	13	2	886	9	20	0
Arkansas Tech Univ	526	80	10	201	1	223	0	11	0
U Arkansas Pine Bluff	4,151 i	0 i	156 i	0 i	14 i	3,279 i	0 i	86 i	616 i
U of AR at Little Rock	2,088	801	137	180	378	285	277	0	30
U of Arkansas Main	78,303	12,353	7,002	2,189	1,696	51,556	384	3,123	0
U of Arkansas Medical Sci	51,921	0	0	0	0	51,921	0	0	0
U of Central Arkansas	2,405	427 i	312 i	376 i	223 i	709 i	75 i	164 i	119 i
Private, total	0	0	0	0	0	0	0	0	0
Philander Smith College	0	0	0	0	0	0	0	0	0
California, total	4,422,032	576,123	486,093	274,956	227,632	2,564,992	63,606	169,106	59,524
Public, total	3,299,233	365,098	311,677	240,740	135,067	2,004,007	52,032	148,575	42,037
CA St Poly U Pomona	2,498	104	0	0	0	2,212	0	0	182
CA St U Bakersfield	3,703e	630 i	361 i	600 i	211 i	992 i	60 i	270 i	579 i
CA St U Chico	3,904	81	0	0	980	1,513	133	1,116	81
CA St U Dominguez Hills	4,311	0	99	714	1,529	1,679	11	279	0
CA St U Fresno	4,531	128	44	111	20	3,784	444	0	0
CA St U Fullerton	1,935 i	406 i	336 i	158 i	141 i	610 i	52 i	184 i	48 i
CA St U Long Beach	3,995	1,695	775	387	0	1,028	105	5	0
CA St U Los Angeles	9,061	1,381	1,002	27	138	4,215	0	354	1,944
CA St U Monterey Bay	1,911	191 i	153 i	192 i	94 i	299 i	20 i	115 i	847 i
CA St U Northridge	6,190e	795e	1,039e	171e	517e	3,239e	225e	204e	0e
CA St U San Bernardino	1,906	0	55	168	537	55	38	1,053	0
Cal Poly St U	12,193	1,735	332	1,465	4,618	2,792	0	69	1,182
Humboldt State University	6,282 i	912 i	21 i	531 i	422 i	3,747 i	9 i	517 i	123 i
Naval Postgrad School	40,889 i	10,876 i	2,617 i	9,854 i	8,341 i	0 i	0 i	5,561 i	3,640 i

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
California, continued:									
Public, continued:									
San Diego St University	58,332	7,843	3,744	2,952	3,071	22,063	6,714	5,142	6,803
San Francisco State U	5,223e	1,263i	790i	637i	406i	1,558i	168i	277i	124i
San Jose State University	22,709	1,776	3,146	7,968	1,605	1,007	5,714	182	1,311
Sonoma State University	736	0	430	0	24	268	0	14	0
U CA Berkeley	446,273	128,984	79,469	6,513	6,895	165,525	8,244	44,406	6,237
U CA Davis	432,396	41,928	21,329	30,580	3,931	316,573	1,378	13,247	3,430
U CA Irvine	179,866	18,035	17,693	3,982	7,821	117,618	3,768	8,539	2,410
U CA Los Angeles	693,801	46,854	68,170	14,774	17,301	493,355	10,688	35,135	7,524
U CA Riverside	94,455	11,528	7,168	3,849	1,647	60,284	1,742	5,850	2,387
U CA San Diego	556,533	50,301	33,185	119,096	61,214	274,810	5,831	10,705	1,391
U CA San Francisco	524,975	0	13,845	0	0	509,607	0	1,523	0
U CA Santa Barbara	116,372	35,393	24,757	22,963	10,721	4,334	5,912	10,531	1,761
U CA Santa Cruz	64,253	2,259	31,117	13,048	2,883	10,840	776	3,297	33
Private, total	1,122,799	211,025	174,416	34,216	92,565	560,985	11,574	20,531	17,487
Alliant International U	0	0	0	0	0	0	0	0	0
Alliant University	3,062e	171i	68i	33i	50i	999i	17i	94i	1,630i
Azusa Pacific U	0	0	0	0	0	0	0	0	0
Biola University	0	0	0	0	0	0	0	0	0
C R Drew U of Med & Sci	36,717	0	0	0	0	36,717	0	0	0
CA Inst of Integral Stu	0	0	0	0	0	0	0	0	0
California Inst of Tech	215,085	46,377	107,479	10,771	4,762	33,779	0	942	10,975
Chapman U	460	0	0	6	0	181	0	198	75
Claremont Graduate U	2,369	0	0	0	542	0	1,016	811	0
Fuller Theological Sem	87i	0i	0i	0i	0i	0i	87i	0i	0i
Golden Gate University	0	0	0	0	0	0	0	0	0
Harvey Mudd College	6,443i	1,742i	978i	66i	233i	2,782i	46i	267i	329i
Loma Linda University	26,451i	0i	0i	0i	0i	23,324i	0i	897i	2,230i
Occidental College	1,543	0	768	499	0	269	3	4	0
Pepperdine University	0	0	0	0	0	0	0	0	0
Pitzer College	322	0	0	0	0	1	261	60	0
Point Loma Nazarene Col	186	0	162	0	0	24	0	0	0
Pomona College	1,298	0	501	22	18	232	207	116	202
Santa Clara University	2,723i	1,492i	173i	0i	122i	380i	9i	547i	0i
Stanford University	482,906	111,194	54,140	8,270	20,196	275,312	4,906	8,888	0
U of Southern California	340,597	49,865	10,030	14,440	66,606	185,096	5,013	7,666	1,881
University San Francisco	700e	164i	100i	7i	36i	326i	9i	35i	23i
University of San Diego	240	11i	13i	0i	0i	70i	0i	4i	142i
University of the Pacific	1,241	9	4	102	0	1,126	0	0	0
Western U of Hlth Sci	369	0	0	0	0	367	0	2	0
Colorado, total	572,950	81,831	90,363	69,948	10,862	274,830	15,714	18,088	11,314
Public, total	558,250	80,791	87,387	68,227	10,691	273,142	12,738	14,015	11,259
Colorado School of Mines	23,654	16,288	5,693	957	564	0	0	152	0
Colorado State University	161,144	28,708	8,564	15,671	2,481	89,852	3,004	3,068	9,796
Fort Lewis College	314	0	119	0	0	192	0	3	0
U of Colorado HSC	159,844	0	0	0	0	159,844	0	0	0
U of Colorado, Boulder	200,418	31,674	70,712	51,306	6,864	20,961	9,345	8,671	885
U of Colorado, Col Spgs	2,125	383	482	20	379	509	125	227	0
U of Colorado, Denver	3,085	964	168	264	313	257	165	376	578
U of Northern Colorado	1,265	0	157	9	4	389	42	664	0
U of Southern Colorado	753	55	274	0	1	408	7	8	0
US Air Force Academy	5,323	2,719	1,198	0	85	575	50	696	0
W State Coll Colorado	325	0	20	0	0	155	0	150	0
Private, total	14,700	1,040	2,976	1,721	171	1,688	2,976	4,073	55
Colorado College	1,548	0	232	175	72	653	72	344	0
Regis University	208e	0e	133e	0e	0e	75e	0e	0e	0e
University of Denver	12,944	1,040	2,611	1,546	99	960	2,904	3,729	55

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Connecticut, total	498,745	37,518	30,241	11,385	9,773	383,534	12,335	11,779	2,180
Public, total	165,689	28,693	7,179	9,127	2,214	100,611	6,849	8,854	2,162
Central Connecticut St U	259	0	5	0	0	123	0	131	0
Southern Connecticut St U	596e	0e	0e	0e	0e	14e	241e	341e	0e
US Coast Guard Academy	468	468	0	0	0	0	0	0	0
University of Connecticut	164,366	28,225	7,174	9,127	2,214	100,474	6,608	8,382	2,162
Private, total	333,056	8,825	23,062	2,258	7,559	282,923	5,486	2,925	18
Connecticut College	478 i	114 i	110 i	4 i	27 i	181 i	2 i	22 i	18 i
Fairfield University	1,648	259	390	35	79	270	96	519	0
Trinity College	1,010e	809e	57e	0e	111e	33e	0e	0e	0e
University of Hartford	1,068	334	225	0	43	116	8	342	0
University of New Haven	1,492	0	0	0	1,492	0	0	0	0
Wesleyan University	5,846	0	2,172	178	114	2,574	660	148	0
Yale University	321,514	7,309	20,108	2,041	5,693	279,749	4,720	1,894	0
Delaware, total	79,985	25,360	13,434	8,252	3,057	23,608	1,364	4,848	62
Public, total	79,985	25,360	13,434	8,252	3,057	23,608	1,364	4,848	62
Delaware State University	2,494	0	604	0	74	1,737	0	17	62
University of Delaware	77,491	25,360	12,830	8,252	2,983	21,871	1,364	4,831	0
District of Columbia, total	228,110	15,479	24,592	293	18,484	148,264	4,151	15,374	1,473
Public, total	3,001	0	484	144	0	1,371	0	932	70
University of DC	3,001	0	484	144	0	1,371	0	932	70
Private, total	225,109	15,479	24,108	149	18,484	146,893	4,151	14,442	1,403
American University	2,565	0	809	0	366	18	402	970	0
Catholic U of America	17,539	1,882	12,790	0	0	691	790	1,381	5
Gallaudet University	1,824	0	0	0	0	228	130	1,466	0
George Washington U	73,805	11,172	2,782	149	14,654	36,149	990	6,523	1,386
Georgetown University	99,228	0	5,723	0	209	90,273	146	2,877	0
Howard University	30,148	2,425	2,004	0	3,255	19,534	1,693	1,225	12
Florida, total	997,048	155,371	93,206	95,446	29,319	517,175	34,507	55,706	16,318
Public, total	825,850	145,701	90,092	60,313	27,489	407,524	25,982	52,953	15,796
Florida A&M University	23,865	3,743	1,851	2,324	1,955	13,759	0	233	0
Florida Atlantic U	25,111	11,233	1,053	2,593	1,530	4,386	1,591	2,383	342
Florida International U	44,291	19,211	1,999	6,412	2,095	5,649	574	8,351	0
Florida State University	113,817	11,889	42,586	14,893	6,726	12,834	5,922	18,967	0
U of Central Florida	79,287	25,575	16,754	9,416	610	4,329	1,247	5,902	15,454
U of North Florida	1,222	79	81	0	71	841	16	134	0
U of South Florida	171,550	19,063	2,328	18,752	864	116,446	10,092	4,005	0
U of West Florida	7,395	0	52	45	5,319	756	220	1,003	0
University of Florida	359,312	54,908	23,388	5,878	8,319	248,524	6,320	11,975	0
Private, total	171,198	9,670	3,114	35,133	1,830	109,651	8,525	2,753	522
Bethune Cookman College	926	0	0	547	0	379	0	0	0
Embry-Riddle Aero Univ	7,711	6,204	0	812	173	0	0	0	522
Florida Inst of Tech	6,195	1,377	783	1,122	1,517	1,083	313	0	0
Nova Southeastern U	2,594	0	0	1,695	0	436	463	0	0
University of Miami	153,772	2,089	2,331	30,957	140	107,753	7,749	2,753	0
Georgia, total	988,883	229,716	55,651	35,902	55,176	520,957	21,083	56,308	14,090
Public, total	679,402	209,605	36,771	35,402	53,176	267,715	19,135	51,064	6,534
Albany State University	1,972	374	0	809	86	292	0	261	150
Fort Valley State U	2,768e	0e	0e	0e	0e	2,520e	0e	248e	0e
Georgia Institute of Tech	306,533	201,581	21,086	16,924	43,810	7,108	4,128	5,512	6,384
Georgia Southern U	841	0	184	96	5	487	0	69	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Georgia, continued:									
Public, continued:									
Georgia State University	38,960	0	4,073	800	1,353	15,962	6,586	10,186	0
Kennesaw State Univ	298	0	298	0	0	0	0	0	0
Medical Col of Georgia	52,191	0	0	0	0	52,191	0	0	0
Savannah State Univ	2,181	401	0	1,421	0	359	0	0	0
State U of West Georgia	1,360	0	260	665	15	400	0	20	0
University of Georgia	272,298	7,249	10,870	14,687	7,907	188,396	8,421	34,768	0
Private, total	309,481	20,111	18,880	500	2,000	253,242	1,948	5,244	7,556
Clark Atlanta University	17,173	2,244	4,013	0	1,038	2,606	5	625	6,642
Emory University	236,997	0	9,394	18	767	221,105	1,340	4,373	0
Inst of Paper Sci & Tech	13,929	9,611	2,925	0	0	1,393	0	0	0
Mercer University	15,337	8,256	961	0	86	5,850	151	33	0
Morehouse College	2,853 i	0 i	293 i	0 i	63 i	1,097 i	273 i	213 i	914 i
Morehouse School of Med	19,670	0	0	0	0	19,670	0	0	0
Morris Brown College	116e	0e	0e	0e	0e	0e	116e	0e	0e
Spelman College	3,406	0	1,294	482	46	1,521	63	0	0
Hawaii, total	156,976	8,955	26,405	47,185	737	58,455	382	4,763	10,094
Public, total	156,976	8,955	26,405	47,185	737	58,455	382	4,763	10,094
Univ of Hawaii at Manoa	156,976	8,955	26,405	47,185	737	58,455	382	4,763	10,094
Idaho, total	82,496	15,307	4,318	6,121	1,827	48,339	666	3,144	2,774
Public, total	82,496	15,307	4,318	6,121	1,827	48,339	666	3,144	2,774
Boise State University	6,153	2,860	93	1,485	111	800	523	102	179
Idaho State University	8,847	325	1,729	352	159	4,582	25	278	1,397
University of Idaho	67,496	12,122	2,496	4,284	1,557	42,957	118	2,764	1,198
Illinois, total	1,280,807	187,930	123,781	43,539	76,119	743,285	28,964	56,629	20,560
Public, total	692,841	135,177	63,673	38,191	67,411	312,110	17,813	41,603	16,863
Chicago State University	1,415	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1,415 i
Illinois State University	3,902	0	455	0	806	2,129	237	255	20
Northeastern Illinois U	274	0	0	138	21	31	39	8	37
Northern Illinois U	9,028	494	3,782	712	434	1,807	1,497	302	0
S Illinois U Carbondale	43,207	9,179	1,518	776	416	25,714	658	2,750	2,196
S Illinois U Edwardsville	1,270	295	76	130	116	192	29	418	14
U of IL Chicago	233,098	20,646	9,107	1,699	5,360	171,420	5,832	10,977	8,057
U of IL Springfield	2,025	0	20	105	0	61	0	1,839	0
U of IL Urbana-Champaign	390,863	104,108	47,013	33,855	58,459	109,062	9,320	23,922	5,124
Western Illinois U	7,759	455	1,702	776	1,799	1,694	201	1,132	0
Private, total	587,966	52,753	60,108	5,348	8,708	431,175	11,151	15,026	3,697
Bradley University	1,197	508	218	0	176	120	23	13	139
DePaul University	1,628	0	132	9	65	137	1,189	51	45
Finch U Hlth Sci Chicago	8,037	0	0	0	0	7,357	680	0	0
Illinois Inst of Tech	14,722	4,446	1,139	0	647	7,654	836	0	0
Knox College	153	0	34	0	1	118	0	0	0
Lake Forest College	375	0	128	0	0	237	10	0	0
Loyola U of Chicago	37,156	0	2,591	57	165	30,351	1,615	2,377	0
Midwestern University	2,421	0	0	0	0	2,421	0	0	0
Northwestern University	257,933	47,799	22,674	756	4,739	166,035	2,894	9,523	3,513
Rush University	70,219	0	0	0	0	68,935	1,284	0	0
University of Chicago	194,125	0	33,192	4,526	2,915	147,810	2,620	3,062	0
Indiana, total	584,418	106,322	72,870	8,730	21,322	275,324	15,480	55,947	28,423
Public, total	519,391	81,756	55,773	8,730	17,034	267,210	13,751	54,721	20,416
Ball State University	3,071	25	278	648	181	1,361	89	462	27
Indiana State University	1,504	0	76	144	0	290	0	994	0
Indiana University	259,899	3,170	34,958	3,927	4,528	149,353	9,652	34,401	19,910
Purdue University	254,917	78,561	20,461	4,011	12,325	116,206	4,010	18,864	479

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Indiana, continued:									
Private, total	65,027	24,566	17,097	0	4,288	8,114	1,729	1,226	8,007
Rose-Hulman Inst of Tech	18,540	13,342	2,762	0	2,436	0	0	0	0
University of Notre Dame	46,096	11,222	13,946	0	1,852	8,114	1,729	1,226	8,007
Valparaiso University	391	2	389	0	0	0	0	0	0
Iowa, total	439,810	68,871	26,125	7,033	11,735	290,912	4,886	21,734	8,514
Public, total	436,505	68,871	25,695	7,033	11,643	288,260	4,839	21,650	8,514
Iowa State University	179,196	44,099	10,536	4,370	10,026	87,087	638	14,125	8,315
U of Iowa	255,348	24,772	15,080	2,353	1,617	199,891	4,201	7,235	199
U of Northern Iowa	1,961	0	79	310	0	1,282	0	290	0
Private, total	3,305	0	430	0	92	2,652	47	84	0
Des Moines U Ost Med Ctr	767	0	0	0	0	767	0	0	0
Drake University	366	0	196	0	29	111	0	30	0
Grinnell College	560	0	234	0	63	162	47	54	0
Maharishi U of Mgmt	1,612	0	0	0	0	1,612	0	0	0
Kansas, total	268,800	45,056	17,638	11,760	6,768	165,605	3,435	9,492	9,046
Public, total	268,800	45,056	17,638	11,760	6,768	165,605	3,435	9,492	9,046
Kansas State University	94,030	15,099	9,957	774	1,705	60,229	1,151	3,530	1,585
Pittsburg State U	2,161	1,809	46	0	20	128	0	158	0
University of Kansas	156,467	15,850	6,269	10,900	4,577	104,210	1,474	5,726	7,461
Wichita State University	16,142	12,298	1,366	86	466	1,038	810	78	0
Kentucky, total	296,895	36,402	14,350	1,189	4,260	216,367	3,444	8,106	12,777
Public, total	295,840	36,402	14,350	1,189	3,500	216,346	3,170	8,106	12,777
Eastern Kentucky U	770	0	627	8	0	135	0	0	0
Kentucky State University	3,996	21	133	0	10	3,378	0	454	0
Murray State University	2,331	8	185	388	46	1,549	4	151	0
University of Kentucky	211,721	29,767	7,709	567	2,527	154,696	872	3,556	12,027
University of Louisville	72,857	6,588	2,770	215	917	56,292	2,130	3,945	0
Western Kentucky Univ	4,165	18	2,926	11	0	296	164	0	750
Private, total	1,055	0	0	0	760	21	274	0	0
Spalding University	1,055	0	0	0	760	21	274	0	0
Louisiana, total	432,356	61,943	26,120	35,945	10,725	266,335	1,846	16,102	13,340
Public, total	327,133	53,701	20,975	34,585	9,832	186,840	1,500	12,104	7,596
Grambling State U	2,264e	19e	786e	0e	1,137e	322e	0e	0e	0e
Louisiana St U, A&M Colle	178,271	31,362	11,679	31,511	3,973	94,412	348	4,531	455
Louisiana St U, Hlth Sci	65,193	0	0	0	0	65,193	0	0	0
Louisiana St U, Shrevepor	138	0	47	0	0	69	0	22	0
Louisiana Tech University	3,480	1,574	371	0	29	501	0	0	1,005
McNeese State University	471	41	5	290	88	36	0	11	0
Nicolls State U	687	0	31	0	6	275	295	80	0
Southeastern Louisiana U	645	0	104	0	0	539	2	0	0
Southern U A&M All Camp	9,052 i	1,101 i	1,554 i	691 i	224 i	5,043 i	117 i	322 i	0 i
Southern U New Orleans	680	0	16	0	0	0	0	0	664
U of LA Lafayette	32,073	6,153	742	438	3,694	18,550	197	1,090	1,209
U of LA at Monroe, The	8,870 i	0 i	135 i	530 i	46 i	738 i	0 i	3,158 i	4,263 i
University of New Orleans	25,309	13,451	5,505	1,125	635	1,162	541	2,890	0
Private, total	105,223	8,242	5,145	1,360	893	79,495	346	3,998	5,744
Dillard University	349	0	349	0	0	0	0	0	0
Tulane University	99,761	7,925	3,276	1,360	893	76,704	346	3,998	5,259
Xavier University of LA	5,113	317	1,520	0	0	2,791	0	0	485
Maine, total	68,034	8,805	6,472	20,671	1,641	25,646	255	3,661	883
Public, total	65,614	8,805	5,996	20,281	1,563	24,941	233	2,912	883
U of Maine	64,070	8,805	5,996	19,969	1,487	23,912	233	2,785	883
U of Southern Maine	1,544 i	0 i	0 i	312 i	76 i	1,029 i	0 i	127 i	0 i

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Maine, continued:									
Private, total	2,420	0	476	390	78	705	22	749	0
Bates College	940	0	248	239	45	394	14	0	0
Bowdoin College	512	0	96	82	13	159	4	158	0
Colby College	968	0	132	69	20	152	4	591	0
Maryland, total	1,644,467	369,087	166,555	102,402	123,177	777,981	8,657	73,939	22,669
Public, total	644,267	83,444	54,958	65,825	29,069	341,488	4,717	64,241	525
Bowie State University	2,207	0	0	0	2,007	84	0	0	116
Coppin State College	0	0	0	0	0	0	0	0	0
Morgan State University	2,390	321	941	0	588	540	0	0	0
St Mary's Col of MD	251	0	46	85	18	89	13	0	0
Towson University	2,282	0	230	100	910	590	0	43	409
U MD Biotechnology Inst	32,458	0	0	8,066	0	24,392	0	0	0
U MD Ctr for Environ Sci	36,635	0	0	36,635	0	0	0	0	0
U of MD Baltimore	239,007	0	0	0	0	239,007	0	0	0
U of MD Baltimore County	29,641	5,907	5,590	10,412	1,258	3,600	831	2,043	0
U of MD Eastern Shore	5,626	137	350	873	914	2,496	0	856	0
U of MD at College Park	267,383	75,574	47,085	9,464	22,736	47,443	3,873	61,208	0
US Naval Academy	3,140	1,505	716	190	638	0	0	91	0
Unif Svcs U of Hlth Sci	23,247	0	0	0	0	23,247	0	0	0
Private, total	1,000,200	285,643	111,597	36,577	94,108	436,493	3,940	9,698	22,144
Johns Hopkins U	999,246	284,936	111,414	36,577	94,056	436,484	3,940	9,698	22,141
Loyola College	954	707	183	0	52	9	0	0	3
Massachusetts, total	1,576,517	248,263	198,831	123,698	84,669	743,427	25,635	89,248	62,746
Public, total	251,384	28,477	27,402	11,379	16,488	146,948	6,933	11,851	1,906
Bridgewater State College	371	0	57	0	0	11	0	48	255
U of MA Amherst	97,976	18,811	20,876	4,537	14,700	29,894	5,360	2,916	882
U of MA Boston	11,672	52	477	1,393	167	1,959	422	7,085	117
U of MA Dartmouth	9,488	3,171	784	3,466	1,014	858	9	186	0
U of MA Lowell	20,656	6,443	5,208	1,983	607	3,005	1,142	1,616	652
U of MA Worcester	111,221	0	0	0	0	111,221	0	0	0
Private, total	1,325,133	219,786	171,429	112,319	68,181	596,479	18,702	77,397	60,840
Amherst College	1,802	0	835	56	11	709	76	115	0
Boston College	30,768	0	7,802	532	14,590	2,950	628	4,266	0
Boston University	172,031	18,219	13,499	3,106	2,976	118,512	4,879	2,074	8,766
Brandeis University	52,818	0	5,239	0	1,680	22,902	1,621	21,376	0
Clark University	3,039	0	922	0	0	213	521	1,383	0
College of the Holy Cross	664	15	374	0	76	21	116	62	0
Hampshire College	3,152	245	436	188	437	205	168	1,279	194
Harvard University	372,107	4,931	35,170	13,765	4,261	278,884	3,964	31,132	0
MA Col Phar Allied Hlth	417	0 i	0 i	0 i	0 i	417 i	0 i	0 i	0 i
MA Institute of Tech	435,495	148,795	92,608	21,390	39,664	77,062	1,431	6,152	48,393
Mount Holyoke College	1,734	0	591	217	366	381	102	77	0
New England Col of Opt	1,608	0	0	0	0	1,608	0	0	0
Northeastern University	34,467	13,845	9,696	15	1,647	6,165	1,579	1,520	0
Simmons College	710	0	0	0	0	17	0	693	0
Smith College	2,578	643	118	207	103	732	245	389	141
Tufts University	105,806	6,263	2,952	970	1,314	84,659	3,357	6,291	0
Wellesley College	5,498	0	596	24	112	820	15	585	3,346
Wentworth Inst of Tech	62	62	0	0	0	0	0	0	0
Woods Hole Oceanogr Inst	91,029	19,180	0	71,849	0	0	0	0	0
Worcester Polytech Inst	9,348	7,588	591	0	944	222	0	3	0
Michigan, total	1,107,195	201,426	92,997	13,316	27,053	642,588	20,263	106,081	3,471
Public, total	1,100,688	199,281	90,907	13,152	26,574	641,599	20,177	105,645	3,353
Central Michigan U	2,032	10	447	90	166	471	620	203	25
Eastern Michigan U	2,992	616	455	888	0	442	75	516	0
Ferris State University	64	0	0	0	0	64	0	0	0
Grand Valley State U	1,161	0	20	894	16	110	12	109	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Michigan, continued:									
Public, continued:									
Michigan State University	265,946	20,845	45,432	2,618	5,442	163,803	5,401	21,461	944
Michigan Tech University	29,613	19,688	1,916	1,132	1,083	4,844	0	391	559
Oakland University	7,397	1,260 i	655 i	0 i	339 i	4,743 i	16 i	0 i	384 i
University of Michigan	600,523	143,487	25,654	5,378	14,301	325,083	11,049	75,406	165
Wayne State University	175,984	10,963	14,516	108	1,176	140,180	2,749	5,375	917
Western Michigan U	14,976	2,412	1,812	2,044	4,051	1,859	255	2,184	359
Private, total	6,507	2,145	2,090	164	479	989	86	436	118
Andrews University	712	5	117	0	25	137	8	420	0
Calvin College	1,300	26	401	145	268	444	0	16	0
Hope College	1,417	150	630	19	186	407	25	0	0
Kettering University	1,161	1,161	0	0	0	0	0	0	0
Lawrence Tech Univ	681	681	0	0	0	0	0	0	0
U of Detroit Mercy	1,236	122	942	0	0	1	53	0	118
Minnesota, total	469,208	42,665	36,982	14,596	13,585	337,549	8,294	15,496	41
Public, total	464,950	42,655	35,471	14,065	13,071	336,384	8,201	15,091	12
Minnesota State, Mankato	751	137	61	349	40	152	0	0	12
St Cloud State Univ	2,188 i	859 i	382 i	188 i	327 i	133 i	0 i	299 i	0 i
University of Minnesota	462,011	41,659	35,028	13,528	12,704	336,099	8,201	14,792	0
Private, total	4,258	10	1,511	531	514	1,165	93	405	29
Augsburg College	497	0	0	304	193	0	0	0	0
Carleton College	1,176	0	417	157	81	456	15	50	0
Macalester College	1,923	0	835	70	206	489	78	245	0
St Olaf College	453	0	191	0	0	198	0	64	0
University of St Thomas	209	10	68	0	34	22	0	46	29
Mississippi, total	242,133	52,052	28,209	15,540	11,163	107,143	3,029	8,435	16,562
Public, total	241,126	52,052	27,932	15,540	10,942	106,634	3,029	8,435	16,562
Alcorn State University	7,370	0	0	0	0	7,370	0	0	0
Jackson State University	25,663	502	3,743	3,523	6,455	4,841	1,636	1,016	3,947
Mississippi State U	146,939	44,736	5,282	6,298	3,093	79,165	956	4,950	2,459
Mississippi Valley St U	1,316	18	593	16	533	156	0	0	0
U Mississippi, All Camp	39,552	5,786	13,400	0	582	13,676	107	2,118	3,883
U Southern Mississippi	20,286	1,010	4,914	5,703	279	1,426	330	351	6,273
Private, total	1,007	0	277	0	221	509	0	0	0
Rust College	0	0	0	0	0	0	0	0	0
Tougaloo College	1,007	0	277	0	221	509	0	0	0
Missouri, total	678,460	51,221	26,830	7,734	13,068	543,210	10,503	22,917	2,977
Public, total	237,303	44,306	13,846	2,394	4,384	144,096	8,225	18,132	1,920
Lincoln University	2,236	0	0	0	0	2,236	0	0	0
Southeast Missouri St U	223	0	126	16	0	81	0	0	0
Southwest Missouri St U	1,550	27	225	97	0	781	0	405	15
Truman State University	834 i	0 i	89 i	0 i	20 i	99 i	0 i	0 i	626 i
U of Missouri Columbia	174,782	22,637	4,956	1,204	1,667	124,701	5,274	14,072	271
U of Missouri Kansas City	18,795	32	1,021	52	1,508	13,472	1,114	853	743
U of Missouri Rolla	28,799	21,610	5,278	1,025	721	136	4	12	13
U of Missouri St Louis	10,084	0	2,151	0	468	2,590	1,833	2,790	252
U of Missouri Sys Admn	0	0	0	0	0	0	0	0	0
Private, total	441,157	6,915	12,984	5,340	8,684	399,114	2,278	4,785	1,057
Forest Inst of Prof Psy	0	0	0	0	0	0	0	0	0
Kirksville Col Osteo Med	907	0	0	0	0	907	0	0	0
Saint Louis University	32,442	0	44	725	206	31,328	53	1	85
U of Health Sci, The (MO)	1,166	0	0	0	0	1,166	0	0	0
Washington University	406,642	6,915	12,940	4,615	8,478	365,713	2,225	4,784	972

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Montana, total	107,744	11,966	13,386	4,195	1,133	65,580	164	6,576	4,744
Public, total	107,744	11,966	13,386	4,195	1,133	65,580	164	6,576	4,744
MT Tech of the U of MT	4,616	1,489	133	2,815	0	179	0	0	0
Montana St U Bozeman	69,593	10,477	11,799	530	334	42,114	0	2,334	2,005
Univ of Montana, The	33,535	0	1,454	850	799	23,287	164	4,242	2,739
Nebraska, total	241,638	26,422	10,622	8,446	7,837	157,622	6,006	11,245	13,438
Public, total	223,964	26,422	10,438	8,375	7,831	140,229	6,006	11,225	13,438
U of Nebraska Med Ctr	60,695	0	0	0	0	60,695	0	0	0
U of Nebraska at Kearney	231	0	125	7	0	61	6	32	0
U of Nebraska at Lincoln	157,520	24,584	9,965	8,347	6,546	79,194	5,802	9,662	13,420
U of Nebraska at Omaha	5,518	1,838	348	21	1,285	279	198	1,531	18
Private, total	17,674	0	184	71	6	17,393	0	20	0
Creighton University	17,674	0	184	71	6	17,393	0	20	0
Nevada, total	115,934	10,728	10,169	40,942	1,799	34,208	1,443	3,870	12,775
Public, total	115,934	10,728	10,169	40,942	1,799	34,208	1,443	3,870	12,775
Desert Research Institute	29,697	0	0	22,765	0	0	0	0	6,932
U of Nevada Las Vegas	27,008	4,732	4,532	11,713	863	2,763	226	2,176	3
U of Nevada Reno	59,229	5,996	5,637	6,464	936	31,445	1,217	1,694	5,840
New Hampshire, total	196,975	33,238	6,706	41,668	5,712	89,991	5,882	6,225	7,553
Public, total	87,879	19,101	2,872	40,098	1,004	15,501	1,197	5,733	2,373
U of New Hampshire	87,879	19,101	2,872	40,098	1,004	15,501	1,197	5,733	2,373
Private, total	109,096	14,137	3,834	1,570	4,708	74,490	4,685	492	5,180
Dartmouth College	109,096	14,137	3,834	1,570	4,708	74,490	4,685	492	5,180
New Jersey, total	609,470	119,083	65,247	36,566	26,435	296,607	12,323	49,108	4,101
Public, total	444,153	65,147	34,193	20,705	15,156	269,299	8,420	27,826	3,407
Montclair State U	766	0	394	194	40	138	0	0	0
NJ Inst of Technology	44,177	31,572	6,932	0	3,119	652	0	0	1,902
Rutgers the State U NJ	236,793	33,575	26,867	20,511	11,997	106,092	8,420	27,826	1,505
U Med & Dent of NJ	162,417	0	0	0	0	162,417	0	0	0
Private, total	165,317	53,936	31,054	15,861	11,279	27,308	3,903	21,282	694
Fairleigh Dickinson U	223	0 i	0 i	0 i	0 i	46 i	11 i	106 i	60 i
Monmouth University	118	0	89	0	0	29	0	0	0
Princeton University	149,411	46,947	29,244	13,293	10,601	26,431	3,892	19,003	0
Rider University	884	0	26	1	0	223	0	0	634
Seton Hall University	826	0 i	247 i	0 i	0 i	579 i	0 i	0 i	0 i
Stevens Inst of Tech	13,855	6,989e	1,448e	2,567e	678e	0e	0e	2,173e	0e
New Mexico, total	274,209	91,448	15,438	13,260	7,142	85,515	8,559	7,458	45,389
Public, total	274,209	91,448	15,438	13,260	7,142	85,515	8,559	7,458	45,389
NM Inst Mining & Tech	28,392	15,846	1,959	7,361	149	2,728	3	0	346
New Mexico Highlands U	2,235	365	1,017	25	0	166	662	0	0
New Mexico State Univ	86,963	50,500	5,851	3,913	3,912	20,202	726	1,278	581
University of New Mexico	156,619	24,737	6,611	1,961	3,081	62,419	7,168	6,180	44,462
New York, total	2,476,090	256,265	200,956	88,752	83,737	1,697,387	57,517	72,985	18,491
Public, total	588,235	66,408	64,693	32,898	23,879	350,580	18,634	27,260	3,883
CUNY Baruch Col	375e	0e	59e	0e	46e	14e	3e	253e	0e
CUNY Brooklyn College	6,442	0	1,413	196	1,223	988	1,745	877	0
CUNY City College	17,099	4,896	6,097	906	1,552	3,003	340	305	0
CUNY Col Staten Island	1,635	83	921	9	76	379	131	36	0
CUNY Grad Ctr	2,906	0	3	0	183	57	609	1,619	435
CUNY H H Lehman Col	2,255	0	203	47	353	1,213	411	28	0
CUNY Hunter College	19,964	0	5,584	490	171	8,232	2,899	2,397	191
CUNY John Jay Col Cr Just	1,070	0	5	3	2	22	0	414	624
CUNY Medger Evers Col	756	59	496	94	64	0	0	7	36

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
New York, continued:									
Public, continued:									
CUNY Queens College	4,595	0	918	211	172	2,927	163	204	0
CUNY York College	1,117	0	54	12	18	871	5	7	150
SUNY Col Env Sci & Frstry	27,854	9,749e	2,228e	2,785e	0e	12,813e	0e	279e	0e
SUNY Col Old Westbury	1,310e	0e	392e	0e	169e	749e	0e	0e	0e
SUNY Col at Brockport	722e	0e	38e	128e	16e	534e	0e	6e	0e
SUNY Col at Buffalo	1,552	0	64	677	0	67	107	637	0
SUNY Col at Cortland	378	0	164	73	0	35	0	106	0
SUNY Col at Fredonia	224	0	109	0	4	28	0	40	43
SUNY Col at Geneseo	644	0	325	13	96	120	67	23	0
SUNY Col at Oswego	783	0	6	77	75	0	625	0	0
SUNY Col at Plattsburgh	1,118	0	537	420	78	15	10	58	0
SUNY Col of Optometry	1,435	0	0	0	0	1,435	0	0	0
SUNY Hlth Sci Ctr Brklyn	31,626e	0e	0e	0e	0e	31,626e	0e	0e	0e
SUNY Upstate Med U	17,948	0	0	0	0	17,948	0	0	0
SUNY at Albany	70,119	0	8,541	7,226	2,272	41,335	2,213	8,532	0
SUNY at Binghamton	18,992	6,786	2,064	1,049	1,066	2,425	2,482	2,822	298
SUNY at Buffalo	186,829	29,725	9,189	1,283	8,266	127,859	3,360	5,041	2,106
SUNY at Stony Brook	168,487	15,110	25,283	17,199	7,977	95,885	3,464	3,569	0
Private, total	1,887,855	189,857	136,263	55,854	59,858	1,346,807	38,883	45,725	14,608
Adelphi University	137	0	33	0	22	81	1	0	0
Albany Col of Pharmacy	1,208	0	0	0	0	1,208	0	0	0
Albany Medical College	12,836	0	0	0	0	12,836	0	0	0
Alfred University	6,678	6,678	0	0	0	0	0	0	0
Barnard College	1,376	0	316	0	93	316	580	71	0
Clarkson University	8,322	6,642	1,373	0	162	113	32	0	0
Colgate U	1,694	0	510	292	187	367	211	127	0
Columbia U in City of NY	354,497	16,702	34,612	46,375	6,669	240,793	3,469	5,709	168
Cooper Union	501	501	0	0	0	0	0	0	0
Cornell University	443,828	53,444	61,239	3,790	19,812	284,381	6,425	14,737	0
Fordham University	3,639	0	15	52	36	1,132	1,445	959	0
Hamilton College	931	0	286	94	0	71	219	261	0
Hofstra University	661	424	5	0	0	232	0	0	0
Ithaca College	2,034	0	100	0	1,375	522	22	15	0
Long Island University	1,201	0	210	62	5	504	361	59	0
Manhattan College	509e	489e	20e	0e	0e	0e	0e	0e	0e
Mt Sinai Sch Med	176,946	0	0	0	0	176,946	0	0	0
New School University	5,791	0	0	0	0	719	46	5,026	0
New York Inst Technology	571	45	0	0	18	508	0	0	0
New York Medical College	24,283	0	0	0	0	24,283	0	0	0
New York University	190,722	0	4,743	632	14,000	152,633	11,233	7,022	459
Pace University All Cmp	378	20	0	21	0	335	0	0	2
Polytechnic University	8,277	6,854	441	0	982	0	0	0	0
Rensselaer Polytech Inst	45,010	34,069	5,519	1,774	2,766	669	0	213	0
Rochester Inst of Tech	11,416	4,950	4,171	757	144	1,355	16	19	4
Rockefeller U, The	145,571	0	4,489	0	4,669	136,413	0	0	0
Skidmore College	250	0	29	0	84	69	50	18	0
St John's University (NY)	1,184e	0e	0e	9e	5e	898e	257e	15e	0e
Syracuse University	42,476	8,941	4,890	1,047	5,430	2,417	1,254	5,509	12,988
Teachers Col, Columbia U	9,676	0	0	0	594	993	3,085	5,004	0
Union College (NY)	1,045	305	45	102	0	378	14	201	0
University of Rochester	234,261	49,396	12,860	847	2,706	156,659	10,161	697	935
Vassar College	1,716e	397i	357i	0i	99i	746i	2i	63i	52i
Yeshiva University	148,230	0	0	0	0	148,230	0	0	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
North Carolina, total	1,137,279	112,724	61,339	43,970	34,466	815,448	10,502	53,752	5,078
Public, total	662,697	95,999	46,364	35,564	29,004	406,056	6,630	38,808	4,272
Appalachian State U	752	0	102	29	50	207	11	353	0
East Carolina University	10,535	0	386	972	71	8,709	15	382	0
Elizabeth City State U	1,248	732	0	0	333	183	0	0	0
Fayetteville State U	589	0	30	0	0	438	121	0	0
NC A&T State University	15,629	9,191	344	0	350	5,244	28	472	0
NC State University	299,259	81,949	25,574	16,099	17,029	145,775	1,238	8,968	2,627
North Carolina Central U	913 i	0 i	233 i	0 i	0 i	597 i	0 i	83 i	0 i
U of NC Asheville	1,269	18	226	819	68	32	0	106	0
U of NC Chapel Hill	303,576	0	17,161	12,615	8,937	235,300	4,282	25,281	0
U of NC Charlotte	7,905	4,108	634	212	1,277	1,170	54	405	45
U of NC Greensboro	3,895	1	253	65	51	1,934	664	927	0
U of NC Wilmington	10,307	0	887	4,503	0	3,037	217	63	1,600
Western Carolina U	763	0	168	250	0	127	0	218	0
Winston Salem State U	6,057	0	366	0	838	3,303	0	1,550	0
Private, total	474,582	16,725	14,975	8,406	5,462	409,392	3,872	14,944	806
Bennett College	811 i	0 i	151 i	0 i	50 i	264 i	10 i	150 i	186 i
Duke University	375,133	16,530	13,377	8,406	5,267	312,897	3,862	14,794	0
Johnson C Smith U	195	195	0	0	0	0	0	0	0
Shaw University	100 i	0 i	0 i	0 i	0 i	100 i	0 i	0 i	0 i
Wake Forest University	98,343	0	1,447	0	145	96,131	0	0	620
North Dakota, total	84,574	11,344	3,656	1,742	1,309	54,585	589	6,020	5,329
Public, total	84,574	11,344	3,656	1,742	1,309	54,585	589	6,020	5,329
North Dakota State U	64,882	1,513	3,140	151	1,217	48,943	589	5,549	3,780
U of North Dakota	19,692	9,831	516	1,591	92	5,642	0	471	1,549
Ohio, total	995,972	223,430	68,601	14,242	33,144	563,094	13,068	56,076	24,317
Public, total	752,932	162,103	60,251	13,567	32,594	408,669	12,066	49,883	13,799
Air Force Inst of Tech	8,311	3,590	1,059	625	1,767	0	0	0	1,270
Bowling Green State U	5,028	341	1,007	175	79	1,581	431	506	908
Central State University	560 i	225 i	8 i	213 i	33 i	27 i	9 i	10 i	35 i
Cleveland State U	12,986	3,347	937	723	20	532	86	5,923	1,418
Kent State University	11,316	240	6,971	546	480	1,163	1,069	847	0
Med Col of Ohio	15,276	0	0	0	0	15,276	0	0	0
Miami University (OH)	12,804	401 i	3,252 i	309 i	2 i	2,848 i	734 i	2,325 i	2,933 i
NE Ohio Univ Col of Med	4,532	0	0	0	0	4,532	0	0	0
Ohio State University	390,652	96,297	23,906	8,746	24,739	197,406	5,719	30,546	3,293
Ohio University	27,146	11,876	4,411	770	107	7,377	1,491	469	645
University of Akron	22,266	7,175	8,178	156	598	638	132	5,389	0
University of Cincinnati	192,895	26,114	4,793	276	527	154,214	628	3,386	2,957
University of Toledo	16,278	8,359	3,321	615	0	3,533	329	68	53
Wright State University	32,033	4,085	1,902	412	4,242	19,406	1,438	413	135
Youngstown State Univ	849	53	506	1	0	136	0	1	152
Private, total	243,040	61,327	8,350	675	550	154,425	1,002	6,193	10,518
Antioch University	0	0	0	0	0	0	0	0	0
Case Western Reserve U	198,253	22,050	6,025	356	319	153,369	789	4,951	10,394
College of Wooster	286	0	234	28	0	18	6	0	0
Denison University	384	0	309	12	0	42	9	12	0
John Carroll University	515	0	260	0	27	206	13	9	0
Oberlin College	325	0	58	15	0	162	86	4	0
Ohio Wesleyan University	255 i	0 i	92 i	0 i	6 i	157 i	0 i	0 i	0 i
U of Findlay	182	0	0	80	0	102	0	0	0
Union Institute, The	1,217e	0e	0e	0e	0e	0e	0e	1,217e	0e
University of Dayton	41,343	38,997	1,372	184	198	369	99	0	124
Wilberforce University	280 i	280 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Oklahoma, total	255,217	41,511	21,782	31,394	6,140	119,985	12,465	18,779	3,161
Public, total	242,664	32,650	19,985	31,299	5,470	119,164	12,285	18,650	3,161
Langston University	2,863	0	0	0	0	2,863	0	0	0
Oklahoma State University	90,311	18,589	6,105	1,728	1,854	50,096	348	8,630	2,961
U of Central Oklahoma	795	35	190	0	293	77	0	0	200
University of Oklahoma	148,695	14,026	13,690	29,571	3,323	66,128	11,937	10,020	0
Private, total	12,553	8,861	1,797	95	670	821	180	129	0
University of Tulsa	12,553	8,861	1,797	95	670	821	180	129	0
Oregon, total	366,023	22,485	17,464	42,822	16,926	241,859	10,164	13,065	1,238
Public, total	344,629	19,377	13,266	39,299	7,833	240,621	10,159	12,856	1,218
Oregon Health & Science U	136,785	0	0	0	0	131,290	5,495	0	0
Oregon State University	153,925	17,005	4,783	36,295	2,871	89,498	120	2,220	1,133
Portland State University	16,838	2,082	540	1,318	2,146	1,896	171	8,600	85
Southern Oregon Univ	200	0	32	1	0	154	0	13	0
University of Oregon	36,881	290	7,911	1,685	2,816	17,783	4,373	2,023	0
Private, total	21,394	3,108	4,198	3,523	9,093	1,238	5	209	20
Lewis and Clark College	420	0	215	2	14	137	0	52	0
OGI Schl Sci & Eng OHSU	18,798	2,857	3,508	3,388	9,045	0	0	0	0
Pacific University	299	0	141	84	0	44	5	5	20
Reed College	814	0	186	0	34	494	0	100	0
University of Portland	719	251	13	0	0	403	0	52	0
Willamette University	344	0	135	49	0	160	0	0	0
Pennsylvania, total	1,687,457	308,068	120,285	30,756	92,051	1,006,248	40,462	75,239	14,348
Public, total	870,172	201,265	76,460	23,620	15,136	484,652	28,928	33,178	6,933
East Stroudsburg U of PA	962	0	306	0	0	47	0	187	422
Indiana U of PA All Cmp	756	14	99	137	4	167	3	307	25
Lincoln University (PA)	620	0	564	0	0	56	0	0	0
Pennsylvania State U	458,066	183,823	55,196	22,550	10,131	148,925	12,530	19,577	5,334
Temple University	60,182	1,814	6,979	242	793	36,228	11,604	2,522	0
University of Pittsburgh	348,792	15,614	13,139	597	4,176	298,753	4,791	10,570	1,152
West Chester U of PA	794e	0e	177e	94e	32e	476e	0e	15e	0e
Private, total	817,285	106,803	43,825	7,136	76,915	521,596	11,534	42,061	7,415
Allegheny College	1,023	0	146	398	0	227	122	0	130
Bryn Mawr College	3,066	0	1,068	238	501	298	315	646	0
Bucknell University	1,791	1,189	274	13	74	146	95	0	0
Carnegie Mellon U	144,882	40,635	9,311	3,373	63,592	11,757	6,460	8,827	927
Dickinson College	1,528	0	400	349	220	327	52	180	0
Drexel University	27,698	22,767	2,180	806	1,626	319	0	0	0
Duquesne University	2,561	0	681	50	38	1,665	4	123	0
Franklin & Marshall Coll	698	0	167	123	0	323	57	4	24
Haverford College	1,178	0	489	0	57	581	42	9	0
Juniata College	171e	0e	33e	4e	0e	134e	0e	0e	0e
La Salle University	294	0	2	0	140	0	126	0	26
Lafayette College	1,008	214	46	78	95	60	18	4	493
Lehigh University	29,058	23,902	3,254	847	44	932	71	8	0
MCP Hahnemann University	32,462	0	0	0	0	31,938	524	0	0
PA College of Optometry	800	0	0	0	0	800	0	0	0
Phila Col Osteopathic Med	935	0	0	0	0	935	0	0	0
St Joseph's Univ	1,628	0	112	0	29	199	69	267	952
Swarthmore College	966	68	447	0	300	101	5	45	0
Thomas Jefferson U	88,936	0	0	0	0	88,936	0	0	0
U of Pennsylvania	469,852	14,247	23,695	752	9,999	381,006	3,483	31,948	4,722
U of Sci in Philadelphia	573	0	0	0	0	573	0	0	0
Villanova University	5,969 i	3,781 i	1,520 i	68 i	170 i	339 i	91 i	0 i	0 i
Widener U All Campuses	208e	0e	0e	37e	30e	0e	0e	0e	141e
Rhode Island, total	142,564	19,694	10,165	29,744	12,613	51,425	7,079	5,964	5,880
Public, total	50,835	5,357	609	24,245	333	8,995	4,408	1,042	5,846
U of Rhode Island	50,835	5,357	609	24,245	333	8,995	4,408	1,042	5,846

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Rhode Island, continued:									
Private, total	91,729	14,337	9,556	5,499	12,280	42,430	2,671	4,922	34
Brown University	91,636	14,337	9,546	5,499	12,280	42,396	2,666	4,912	0
Providence College	93 i	0 i	10 i	0 i	0 i	34 i	5 i	10 i	34 i
South Carolina, total	361,404	76,308	27,206	20,083	8,553	195,833	4,201	22,713	6,507
Public, total	357,567	75,930	26,568	20,004	7,302	194,850	4,027	22,379	6,507
Clemson University	123,885	50,307	8,047	1,021	3,614	50,058	329	8,718	1,791
Coastal Carolina U	1,038	0	72	862	10	73	11	10	0
College of Charleston	3,069	0	552	1,672	228	239	91	287	0
Med U of South Carolina	116,687	0	0	0	0	116,687	0	0	0
South Carolina State U	2,915e	50 i	1,398 i	0 i	0 i	640 i	0 i	827 i	0 i
U of South Carolina	109,973	25,573	16,499	16,449	3,450	27,153	3,596	12,537	4,716
Private, total	3,837	378	638	79	1,251	983	174	334	0
Benedict College	1,044	0	110	0	366	234	0	334	0
Claflin College	2,074	378	221	18	804	653	0	0	0
Furman University	719	0	307	61	81	96	174	0	0
South Dakota, total	32,185	3,864	1,614	3,918	18	19,629	51	1,940	1,151
Public, total	32,185	3,864	1,614	3,918	18	19,629	51	1,940	1,151
SD Sch of Mines & Tech	6,922	2,414	175	3,182	12	0	0	0	1,139
South Dakota State U	19,717	1,450	482	632	6	16,207	0	940	0
U of South Dakota	5,546	0	957	104	0	3,422	51	1,000	12
Tennessee, total	423,264	68,480	25,136	11,049	14,498	266,312	13,777	19,868	4,144
Public, total	222,502	52,854	12,440	10,544	12,826	106,331	10,176	13,546	3,785
East Tennessee State U	8,222	181	278	32	95	5,447	35	1,433	721
Middle Tennessee State U	799	11	178	22	238	106	48	196	0
Tennessee State U	12,791	4,485	1,288	0	460	5,932	107	519	0
Tennessee Tech U	9,347	8,045	272	1	54	959	3	13	0
U of Tennessee	160,292	36,141	9,533	6,736	10,476	90,530	194	5,226	1,456
U of Tennessee Chattanoo	1,593	439	46	0	376	116	1	608	7
U of Tennessee Martin	13	0	0	0	0	0	0	0	13
Univ of Memphis, The	29,445	3,552	845	3,753	1,127	3,241	9,788	5,551	1,588
Private, total	200,762	15,626	12,696	505	1,672	159,981	3,601	6,322	359
Fisk University	2,722	0	2,713	0	0	9	0	0	0
Le Moyne-Owen Coll	1,268	523e	80	0e	665e	0e	0e	0e	0e
Meharry Medical College	10,268 i	0 i	0 i	347 i	8 i	9,913 i	0 i	0 i	0 i
Vanderbilt University	186,504	15,103	9,903	158	999	150,059	3,601	6,322	359
Texas, total	2,244,117	324,434	140,632	138,957	82,673	1,492,504	16,384	40,050	8,483
Public, total	1,802,599	311,923	123,466	135,368	70,021	1,102,505	12,884	39,094	7,338
Lamar University	3,441	671	182	2,111	9	31	4	6	427
Prairie View A&M U	11,297	2,838	614	1	708	7,001	0	135	0
Sam Houston State U	2,441	0	93	549	140	244	0	1,415	0
Southwest Texas St Univ	8,884	12	3,809	912	542	2,663	12	934	0
Stephen F Austin St U	4,116	0	64	0	443	2,965	0	489	155
Sul Ross State University	779	0	0	0	0	388	0	391	0
TX A&M U Sys Hlth Sci Ctr	40,859	125	0	5	0	40,693	32	4	0
Tarleton State University	6,607	5	0	3,945	11	2,634	0	12	0
Texas A&M Commerce	262	0	7	0	1	187	4	1	62
Texas A&M Corpus Chri	5,606	2,135	711	478	195	1,571	0	49	467
Texas A&M Univ Kingsville	6,919	572	79	409	0	5,707	0	5	147
Texas A&M University	407,041	124,227	25,848	80,789	10,199	153,264	2,898	7,543	2,273
Texas Southern U	2,468	9	306	23	28	1,936	0	0	166
Texas Tech University	69,918	15,751	6,028	11,425	1,704	31,241	126	2,891	752
Texas Woman's University	2,898	0	71	0	7	2,786	5	29	0
U Houston Clear Lake	11,519	10,214	79	238	548	297	52	2	89
U North TX Hlth Sci Ctr	11,035	0	0	0	0	11,035	0	0	0
U TX Hlth Sci Ctr San Ant	115,154	0	0	0	0	115,154	0	0	0
U TX MD Anderson Cncr Ctr	212,746	0	4,409	0	7,341	200,996	0	0	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Texas, continued:									
Public, continued:									
U TX Med Br at Galveston	102,722	1,796	0	0	0	100,926	0	0	0
U TX SW Med Ctr at Dallas	222,376	0	0	0	0	222,376	0	0	0
U TX at Arlington	17,486	9,865	3,281	165	301	1,461	157	2,256	0
U TX at Austin	295,104	110,119	58,845	24,932	39,806	41,544	4,336	13,898	1,624
U TX at Dallas	15,684e	2,816e	4,202e	1,436e	908e	3,642e	0e	1,545e	1,135e
U TX at El Paso	21,889	7,321	1,483	5,467	1,200	4,637	823	958	0
U TX at San Antonio	11,331	362	230	74	687	6,195	81	3,702	0
U of Houston Downtown	837e	54e	20e	26e	493e	244e	0e	0e	0e
U of TX Pan American	2,279	769	155	51	10	1,179	19	96	0
UT Houston Hlth Sci Ctr	125,439	0	0	0	0	125,439	0	0	0
University of Houston	51,567	19,320	9,405	1,026	4,052	11,804	3,445	2,514	1
University of North Texas	7,380	74	3,427	1,186	683	866	890	214	40
West Texas A&M U	4,515	2,868	118	120	5	1,399	0	5	0
Private, total	441,518	12,511	17,166	3,589	12,652	389,999	3,500	956	1,145
Abilene Christian Univ	319	0	215	0	0	93	11	0	0
Baylor Col of Medicine	381,461	0	0	0	0	381,461	0	0	0
Baylor University	2,698	57	1,322	304	78	252	143	47	495
Jarvis Christian College	55e	0 i	0 i	0 i	0 i	55 i	0 i	0 i	0 i
Rice University	42,675	9,972	12,701	1,101	11,295	6,282	664	660	0
Southern Methodist U	8,948	2,274	1,533	2,152	1,134	1,089	285	193	288
St Mary's University	362	0 i	0 i	0 i	0 i	0 i	0 i	0 i	362 i
Texas Christian U	3,678	208	882	31	62	52	2,397	46	0
Trinity University	1,241e	0e	460e	1e	61e	713e	0e	6e	0e
University of Dallas	81	0	53	0	22	2	0	4	0
Wiley College	0	0	0	0	0	0	0	0	0
Utah, total	338,127	92,032	21,791	13,732	20,116	168,630	4,617	7,778	9,431
Public, total	318,956	84,727	18,080	13,511	18,582	164,887	4,053	5,946	9,170
University of Utah	197,597	25,565	14,605	4,989	17,013	130,721	2,271	2,433	0
Utah State University	121,359	59,162	3,475	8,522	1,569	34,166	1,782	3,513	9,170
Private, total	19,171	7,305	3,711	221	1,534	3,743	564	1,832	261
Brigham Young University	19,171	7,305	3,711	221	1,534	3,743	564	1,832	261
Vermont, total	76,882	1,757	2,255	484	1,807	66,854	1,283	170	2,272
Public, total	75,597	1,738	1,560	410	1,807	66,357	1,283	170	2,272
University of Vermont	75,597	1,738	1,560	410	1,807	66,357	1,283	170	2,272
Private, total	1,285	19	695	74	0	497	0	0	0
Middlebury College	1,285	19 i	695 i	74 i	0 i	497 i	0 i	0 i	0 i
Virginia, total	610,717	135,584	47,789	58,371	14,773	318,914	12,274	22,234	778
Public, total	570,196	132,500	39,645	57,364	14,189	291,805	12,053	22,107	533
Col of William & Mary	35,829	0	5,728	24,956	1,139	1,925	634	1,447	0
George Mason University	32,881	9,145	308	7,399	1,733	4,448	1,871	7,977	0
James Madison University	1,449	2	526	13	122	466	57	7	256
Norfolk State University	3,984	294	3,271	0	360	55	0	4	0
Old Dominion University	24,659	13,122	1,769	3,692	1,565	3,126	702	683	0
Radford University	665	3	2	166	4	30	28	155	277
University of Virginia	149,547	25,838	11,538	5,189	4,464	98,876	3,001	641	0
VA Polytech Inst & St U	216,323	80,349	9,298	15,734	4,581	94,248	2,015	10,098	0
Virginia Commonwealth U	99,180	3,279	5,777	215	221	85,501	3,096	1,091	0
Virginia Military Inst	613	468	131	0	0	5	5	4	0
Virginia State University	5,066	0	1,297	0	0	3,125	644	0	0
Private, total	40,521	3,084	8,144	1,007	584	27,109	221	127	245
Eastern VA Med School	26,250	0	0	0	0	26,250	0	0	0
Hampton University	9,158	505	7,300	968	330	55	0	0	0
Institute of Textile Tech	3,171	2,541	425	0	205	0	0	0	0
University of Richmond	1,271	0	249	0	6	533	178	63	242
Virginia Union University	671 i	38 i	170 i	39 i	43 i	271 i	43 i	64 i	3 i

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Washington, total	706,579	65,004	36,880	78,480	11,773	480,277	10,147	22,371	1,647
Public, total	706,110	65,004	36,792	78,312	11,733	480,149	10,147	22,326	1,647
Central Washington U	1,880	0	182	825	204	151	6	189	323
E Washington Univ	2,620	8	541	50	18	464	14	1,525	0
Evergreen State Coll	487	0	7	0	24	381	0	2	73
U of Washington	589,626	49,629	29,784	73,448	10,898	406,532	9,316	10,019	0
W Washington Univ	3,560	1	563	1,026	161	1,185	568	56	0
Washington State U	107,937	15,366	5,715	2,963	428	71,436	243	10,535	1,251
Private, total	469	0	88	168	40	128	0	45	0
Whitman College	469	0	88	168	40	128	0	45	0
West Virginia, total	79,076	20,782	4,640	4,763	750	46,061	177	157	1,746
Public, total	78,721	20,782	4,639	4,763	750	45,707	177	157	1,746
Bluefield State College	0	0	0	0	0	0	0	0	0
Marshall U	7,218	3,513	584	233	154	2,143	0	90	501
WV Sch of Osteo Med	129	0	0	0	0	129	0	0	0
West Virginia State Col	63e	0e	8e	0e	0e	55e	0e	0e	0e
West Virginia University	71,311	17,269	4,047	4,530	596	43,380	177	67	1,245
Private, total	355	0	1	0	0	354	0	0	0
Salem International Univ	355	0	1	0	0	354	0	0	0
Wisconsin, total	728,618	90,828	55,499	34,344	16,221	463,149	23,681	42,763	2,133
Public, total	635,408	86,913	54,359	34,344	16,091	376,811	23,575	41,753	1,562
U of WI-Eau Claire	514	0	231	40	94	106	26	5	12
U of WI-Green Bay	602	0	0	377	0	52	0	58	115
U of WI-La Crosse	1,563	0	47	7	191	447	1	677	193
U of WI-Madison	604,143	82,652	49,127	29,040	14,371	370,813	22,838	35,284	18
U of WI-Milwaukee	23,492	4,260	4,608	3,699	1,367	3,294	584	5,468	212
U of WI-Oshkosh	670	0	73	128	0	263	60	39	107
U of WI-Parkside	575	0	41	22	0	368	53	49	42
U of WI-River Falls	288	1	36	0	0	243	1	7	0
U of WI-Stevens Point	1,827	0	35	652	0	1,022	4	114	0
U of WI-Stout	1,070	0	70	0	49	77	6	5	863
U of WI-Superior	404	0	7	379	7	7	0	4	0
U of WI-Whitewater	260	0	84	0	12	119	2	43	0
Private, total	93,210	3,915	1,140	0	130	86,338	106	1,010	571
Marquette University	7,236	2,073	1,140	0	130	2,215	106	1,001	571
Medical Col of Wisconsin	83,857	0	0	0	0	83,857	0	0	0
Milwaukee School of Eng	2,117	1,842	0	0	0	266	0	9	0
Wyoming, total	41,632	3,644	3,069	6,483	535	19,715	771	1,572	5,843
Public, total	41,632	3,644	3,069	6,483	535	19,715	771	1,572	5,843
University of Wyoming	41,632	3,644	3,069	6,483	535	19,715	771	1,572	5,843
Guam, total	3,752	0	0	744	0	2,558	0	53	397
Public, total	3,752	0	0	744	0	2,558	0	53	397
University of Guam	3,752	0	0	744	0	2,558	0	53	397

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2001

[Dollars in thousands]

State, control, and institution	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Puerto Rico, total	63,755	9,669	4,676	6,499	781	38,630	1,314	2,152	34
Public, total	52,881	9,669	4,609	6,499	781	27,823	1,314	2,152	34
U PR Mayaguez Campus	18,627	9,363	2,445	4,534	674	1,425	0	152	34
U PR Med Sci Campus	23,913	0	0	0	0	23,913	0	0	0
U PR Rio Piedras Campus	10,341	306	2,164	1,965	107	2,485	1,314	2,000	0
Private, total	10,874	0	67	0	0	10,807	0	0	0
Ponce School of Medicine	3,842	0 i	0 i	0 i	0 i	3,842 i	0 i	0 i	0 i
Pont Catholic U of PR, The	89	0	67	0	0	22	0	0	0
U Ctrl Del Caribe Esc Med	6,943	0	0	0	0	6,943	0	0	0
Virgin Islands, total	3,310	0	0	442	819	1,954	0	95	0
Public, total	3,310	0	0	442	819	1,954	0	95	0
U of the Virgin Islands	3,310 i	0 i	0 i	442 i	819 i	1,954 i	0 i	95 i	0 i

KEY: e = estimated
i = imputed

NOTES: Because of rounding, detail may not add to totals.

Beginning in fiscal year 1998, this table reports data for all institutions. In prior years this table reported on doctorate-granting institutions only.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
Total, all institutions	21,022,804	22,165,352	23,039,875	24,363,240	25,847,559	27,504,933	30,041,964	32,723,078
1 Johns Hopkins U[1]	784,043	788,687	798,468	829,241	853,620	874,518	901,156	999,246
2 U CA Los Angeles	279,869	303,668	354,645	398,865	447,367	477,620	530,826	693,801
3 U of WI-Madison	392,718	403,541	412,570	419,810	443,695	499,688	554,361	604,143
4 University of Michigan	430,778	443,070	468,876	483,485	496,761	508,619	551,556	600,523
5 U of Washington	353,945	389,160	406,472	409,959	438,191	482,659	529,342	589,626
6 U CA San Diego	331,901	357,333	371,509	376,655	418,790	461,632	518,559	556,533
7 U CA San Francisco	312,393	329,742	320,757	343,384	379,970	417,095	443,013	524,975
8 Stanford University	318,561	318,871	351,526	395,310	410,309	426,549	457,822	482,906
9 U of Pennsylvania	251,461	272,393	288,430	296,141	333,477	383,569	430,389	469,852
10 University of Minnesota	317,865	336,524	341,179	363,095	360,323	371,384	411,380	462,011
Total, 1st 10 institutions	3,773,534	3,942,989	4,114,432	4,315,945	4,582,503	4,903,333	5,328,404	5,983,616
11 Pennsylvania State U	302,997	330,881	337,938	339,955	362,643	379,402	427,575	458,066
12 U CA Berkeley[2]	289,632	291,200	316,320	377,376	420,426	451,539	518,514	446,273
13 Cornell University[2]	312,683	343,786	339,534	351,030	363,511	395,552	410,393	443,828
14 MA Institute of Tech[2]	374,768	370,800	380,612	410,930	413,098	420,306	426,299	435,495
15 U CA Davis	230,147	244,116	254,604	267,341	288,796	307,950	364,789	432,396
16 Texas A&M University	355,750	362,539	366,983	366,798	393,720	402,203	397,268	407,041
17 Washington University	192,378	209,100	218,640	262,426	269,550	315,606	362,216	406,642
18 U of IL Urbana-Champaign	245,407	246,174	268,995	286,470	329,266	358,247	373,024	390,863
19 Ohio State University	230,515	246,287	262,147	289,100	301,518	322,810	361,399	390,652
20 Baylor Col of Medicine	186,865	190,375	184,613	192,744	216,528	272,198	334,175	381,461
Total, 1st 20 institutions	6,494,676	6,778,247	7,044,818	7,460,115	7,941,559	8,529,146	9,304,056	10,176,333
21 Duke University	220,220	218,703	242,235	251,536	282,388	348,274	356,625	375,133
22 Harvard University	278,459e	276,422	282,443	299,961	306,100	326,193	341,810	372,107
23 University of Arizona	269,939	292,351	279,656	285,278	302,328	320,245	345,090	367,128
24 University of Colorado	234,267	243,932	251,301	269,816	311,203	318,618	353,908	365,472
25 University of Florida	148,592	199,216	255,099	272,373	274,862	304,447	313,692	359,312
26 Columbia U in City of NY	236,417	244,991	236,403	244,337	267,007	279,587	319,693	354,497
27 University of Pittsburgh	185,377	186,457	189,826	202,533	213,842	249,477	294,809	348,792
28 U of Southern California	207,275	222,159	244,258	259,246	268,806	280,741	300,445	340,597
29 Yale University	224,939	231,819	234,901	245,536	262,680	274,050	296,706	321,514
30 Georgia Institute of Tech	193,630	211,875	225,633	240,237	259,233	263,725	304,511	306,533
Total, 1st 30 institutions	8,693,791	9,106,172	9,486,573	10,030,968	10,690,008	11,494,503	12,531,345	13,687,418
31 U of NC Chapel Hill	201,622	209,118	208,529	221,380	235,296	252,767	269,072	303,576
32 NC State University	173,407	180,191	190,748	229,292	254,254	270,621	277,946	299,259
33 U TX at Austin	260,602	228,676	241,606	239,021	244,843	258,122	272,811	295,104
34 University of Georgia	187,849	206,256	209,357	225,457	217,945	237,493	258,476	272,298
35 Louisiana State U System	165,857	186,723	196,328	205,441	208,928	225,808	251,233	268,911
36 U of MD at College Park	198,348	209,945	216,957	215,927	223,190	257,628	252,429	267,383
37 Michigan State University	163,285	182,009	182,589	190,178	193,611	207,912	238,436	265,946
38 Indiana University	136,617	145,512	154,260	165,198	171,754	194,790	227,737	259,899
39 Northwestern University	169,949	173,731	187,262	200,943	223,235	233,809	245,774	257,933
40 U of Iowa	157,036	164,893	178,228	184,414	199,063	207,135	236,944	255,348
Total, 1st 40 institutions	10,508,363	10,993,226	11,452,437	12,108,219	12,862,127	13,840,588	15,062,203	16,433,075
41 Purdue University	172,733	203,419	206,951	206,588	216,479	226,411	234,536	254,917
42 U of MD Baltimore	110,866	107,874	122,207	134,808	143,321	140,903	224,346	239,007
43 Emory University	136,186	148,178	149,168	163,619	172,884	189,170	206,070	236,997
44 Rutgers the State U NJ	173,211	192,263	185,103	183,038	197,053	213,838	225,268	236,793
45 University of Rochester[2]	167,485	158,539	144,914	155,311	174,617	177,126	197,335	234,261
46 U of IL Chicago	113,741	119,381	121,540	139,296	151,739	175,093	195,839	233,098
47 U of Alabama Birmingham	141,735	158,779	170,193	203,758	227,720	232,115	233,461	231,702
48 U TX SW Med Ctr at Dallas	118,398	125,301	130,162	140,589	153,711	165,520	189,216	222,376
49 VA Polytech Inst & St U	148,313	148,501	143,815	169,808	167,118	169,250	192,672	216,323
50 California Inst of Tech[2]	127,946	138,016	157,005	177,888	185,066	212,216	222,666	215,085
Total, 1st 50 institutions	11,918,977	12,493,477	12,983,495	13,782,922	14,651,835	15,742,230	17,183,612	18,753,634

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
51 U TX MD Anderson Cncr Ctr	122,357	122,181	120,964	129,578	141,260	155,126	182,196	212,746
52 University of Kentucky	105,539	111,934	118,721	124,804	161,346	174,034	202,392	211,721
53 Case Western Reserve U	133,272	141,089	143,435	161,825	176,330	182,332	193,057	198,253
54 University of Utah	103,771	105,642	114,423	135,911	142,956	153,843	187,661	197,597
55 University of Chicago[2]	121,902	126,261	135,693	150,531	151,635	162,805	170,678	194,125
56 University of Cincinnati	93,599	91,159	127,733	141,604	159,695	153,002	171,906	192,895
57 New York University	139,202	148,935	145,874	153,288	156,452	167,179	182,205	190,722
58 SUNY at Buffalo	141,092	143,768	137,701	135,663	151,650	166,823	187,692	186,829
59 Vanderbilt University	110,105	111,224	117,003	122,598	135,214	149,675	171,926	186,504
60 U CA Irvine	104,778	109,908	119,647	119,669	130,415	141,842	158,437	179,866
Total, 1st 60 institutions	13,094,594	13,705,578	14,264,689	15,158,393	16,158,788	17,348,891	18,991,762	20,704,892
61 Iowa State University[2]	155,982	154,932	151,914	155,433	156,766	161,301	175,558	179,196
62 Mt Sinai Sch Med	86,179	92,008	92,405	94,776	109,448	127,765	149,846	176,946
63 Wayne State University	94,632	106,140	112,151	124,383	138,456	146,832	156,814	175,984
64 U of Missouri Columbia	121,256	122,870	119,079	128,178	136,061	149,002	158,861	174,782
65 Boston University	90,504	103,709	110,266	120,392	130,054	141,102	154,029	172,031
66 U of South Florida	86,186	92,758	94,157	99,649	104,325	123,961	145,397	171,550
67 SUNY at Stony Brook	113,251	122,611	126,377	136,624	141,766	148,982	163,307	168,487
68 University of Connecticut	136,740	139,956	147,522	140,840	134,448	134,986	161,084	164,366
69 U Med & Dent of NJ	86,866	96,365	98,535	110,383	114,491	126,277	140,951	162,417
70 U of Tennessee System	153,340	151,316	149,331	154,230	150,694	158,930	163,690	161,898
Total, 1st 70 institutions	14,219,530	14,888,243	15,466,426	16,423,281	17,475,297	18,768,029	20,561,299	22,412,549
71 Colorado State University	112,457	122,172	126,701	128,580	140,179	150,281	152,279	161,144
72 U of Nebraska at Lincoln	102,746	107,721	102,460	117,100	118,857e	131,046	136,023	157,520
73 Univ of Hawaii at Manoa	70,079	78,429	111,202	120,107	148,007	156,810	161,300	156,976
74 University of New Mexico	90,315	129,354	116,618	116,152	125,910	115,850	133,980	156,619
75 University of Kansas	95,701	100,702	100,649	108,893	117,115	132,752	148,670	156,467
76 Oregon State University	119,772	123,402	131,334	131,467	138,240	139,285	140,751	153,925
77 University of Miami	121,475	128,736	130,056	135,888	136,972	139,608	145,795	153,772
78 University of Virginia	129,504	136,679	97,334	114,085	139,135	131,138	140,416	149,547
79 Princeton University[2]	99,287	104,157	112,380	114,549	115,996	124,237	134,875	149,411
80 University of Oklahoma	95,747	102,337	109,071	114,387	126,861	142,085	150,902	148,695
Total, 1st 80 institutions	15,256,613	16,021,932	16,604,231	17,624,489	18,782,569	20,131,121	22,006,290	23,956,625
81 Yeshiva University	92,881	94,739e	91,430	96,819	99,000	111,771	139,618	148,230
82 Mississippi State U	76,201	72,145	84,124	84,157	100,410	110,896	132,503	146,939
83 Rockefeller U, The	74,458	99,348	105,595	109,999	115,494	121,519	124,138	145,571
84 Carnegie Mellon U[2]	122,580	125,659	136,514	134,954	137,450	142,174	137,980	144,882
85 Oregon Health & Science U	63,875	74,726	80,333	98,319	109,374 i	120,429 i	131,486	136,785
86 UT Houston Hlth Sci Ctr	66,432	74,664	82,803	95,638	101,993	105,307	119,587	125,439
87 Clemson University	76,572	82,883	84,836	84,034	90,150	99,341	114,903	123,885
88 Utah State University	79,085	82,468	81,709	91,292	94,228	95,364	103,161	121,359
89 Arizona State University	62,563	77,009	84,653	80,740	92,019	107,184	108,117	118,763
90 Med U of South Carolina	46,249	57,495	54,426	57,111	57,940	55,819	65,243	116,687
Total, 1st 90 institutions	16,017,509	16,863,068	17,490,654	18,557,552	19,780,627	21,200,925	23,183,026	25,285,165
91 U CA Santa Barbara	73,619	78,737	91,284	91,149	96,034	104,561	118,154	116,372
92 U TX Hlth Sci Ctr San Ant	83,535	87,336	83,028	86,019	82,357	87,804	103,824	115,154
93 Florida State University	76,588	86,060	78,125	95,908	94,463	97,673	105,095	113,817
94 U of MA Worcester	61,790	62,441	63,341	71,346	82,950	83,040	97,587	111,221
95 U of Alaska Fairbanks	76,093	72,216	71,381	70,943	75,606	88,825	102,500	110,195
96 U of South Carolina	74,001	79,710	78,619	77,855	92,785	105,835	104,398	109,973
97 Dartmouth College	57,845	50,525	52,945	61,619	64,964	69,522	78,874	109,096
98 Washington State U	94,819	96,810	98,641	97,700	95,422	96,943	104,796	107,937
99 Auburn University	84,769	85,566	87,358	85,460	87,768	80,544	92,612	106,347
100 Tufts University	73,749	77,093	79,356	83,568	92,130	100,872	105,783	105,806
Total, 1st 100 institutions	16,774,317	17,639,562	18,274,732	19,379,119	20,645,106	22,116,544	24,196,649	26,391,083

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
101 U TX Med Br at Galveston	72,773	72,569	73,759	77,683	86,488	93,580	97,896	102,722
102 Tulane University	83,885	100,231	83,660	86,427	87,858	87,324	89,785	99,761
103 Georgetown University	82,661	102,421	112,582	119,114	116,611	111,426	133,211	99,228
104 Virginia Commonwealth U	76,597	76,529	79,018	78,948	80,538	79,785	88,220	99,180
105 Wake Forest University	52,581	68,388	75,331	75,290	76,893	82,827	86,840	98,343
106 U of MA Amherst	65,344	66,082	73,678	85,811	89,970	86,576	96,907	97,976
107 U CA Riverside	60,995	62,539	71,495	75,486	79,775	75,821	83,580	94,455
108 Kansas State University	65,696	71,103	71,222	76,896	81,233	85,580	91,790	94,030
109 Brown University	55,146	56,269	67,621	71,411	73,977	76,330	81,476	91,636
110 Woods Hole Oceanogr Inst	81,345	80,235	73,015	77,407	75,011	71,722	81,547	91,029
Total, 1st 110 institutions	17,471,340	18,395,928	19,056,113	20,203,592	21,493,460	22,967,515	25,127,901	27,359,443
111 Oklahoma State University	70,808	75,906	82,960	62,480	71,466	83,108	88,285	90,311
112 Thomas Jefferson U	56,932	65,705	69,154	69,228	69,460	78,410	89,626	88,936
113 U of New Hampshire	43,707	42,548	45,693	45,886	52,359	57,613	72,108	87,879
114 New Mexico State Univ	80,286	81,455	76,493	81,024	77,370	79,877	79,695	86,963
115 Medical Col of Wisconsin	49,604	44,169	47,365	51,629	56,021	61,446	70,581	83,857
116 U of Central Florida	33,599	37,147	21,488	38,592	35,530	42,466	47,646	79,287
117 U of Arkansas Main	57,815	59,410	59,753	64,868	71,686	61,585	70,817	78,303
118 University of Delaware	50,734	53,161	54,154	65,095	69,896	73,521	74,711	77,491
119 University of Vermont	51,775	54,065	53,659	59,526	57,832	64,049	63,391	75,597
120 George Washington U	38,429	43,488	49,263	55,158	74,481	66,757	69,300	73,805
Total, 1st 120 institutions	18,005,029	18,952,982	19,616,095	20,797,078	22,129,561	23,636,347	25,854,061	28,181,872
121 University of Louisville	20,475	22,835	29,655	33,434	39,147	57,051	64,062	72,857
122 West Virginia University	58,604	53,072	54,844	63,312	62,362	63,392	66,130	71,311
123 Rush University	39,736	44,322	48,772	49,969	55,277	60,957	68,189	70,219
124 SUNY at Albany	43,353	38,771	66,247	57,415	50,568	64,278	82,792	70,119
125 Texas Tech University	39,455	40,824	43,000	46,645	53,126	58,488	66,263	69,918
126 Montana St U Bozeman	36,149	47,998	50,097	49,440	52,292	55,475	65,324	69,593
127 University of Idaho	49,338	52,529	56,198	57,582 i	58,967	62,531	61,347	67,496
128 North Dakota State U	36,977	40,677	43,661	35,197	40,007	44,696	50,063	64,882
129 U CA Santa Cruz	42,457	44,294	51,062	49,428	56,533	52,902	56,212	64,253
130 U of Maine	29,393	31,901	34,684	33,144	33,106	41,452	54,821	64,070
Total, 1st 130 institutions	18,400,966	19,370,205	20,094,315	21,272,644	22,630,946	24,197,569	26,489,264	28,866,590
131 U of Nebraska Med Ctr	33,997	38,287	42,612	45,365	50,453	54,205	51,547	60,695
132 Temple University	56,308	54,742	56,533	54,500	63,024	53,940	52,466	60,182
133 U of Nevada Reno	42,176	46,783	47,977	52,703	45,476	47,939	56,248	59,229
134 San Diego St University	29,309	35,287	43,201	40,586	41,915	45,579	55,002	58,332
135 Brandeis University	34,835	36,451	36,760	40,145	44,589	48,305	47,658	52,818
136 Medical Col of Georgia	28,020	31,369	35,971	38,725	39,806	41,103	45,596	52,191
137 U of Arkansas Medical Sci	22,762	28,389	33,354	37,336	39,487	44,066	49,074	51,921
138 University of Houston	43,131	44,993	49,178	45,916	42,297	43,370	48,902	51,567
139 U of Rhode Island	46,631	43,103 i	39,575	40,522	37,940	44,452	48,135	50,835
140 University of Notre Dame	22,833	23,332	24,556	24,116	28,873	30,483	34,524	46,096
Total, 1st 140 institutions	18,760,968	19,752,941	20,504,032	21,692,558	23,064,806	24,651,011	26,978,416	29,410,456
141 Rensselaer Polytech Inst	37,191	37,247	37,917	38,803e	38,560	39,034	40,762	45,010
142 Florida International U	13,520	16,375	16,856	17,359	17,880	25,061	34,649	44,291
143 NJ Inst of Technology	29,983	30,940	39,110	38,728	40,982	40,982	47,895	44,177
144 U of Alabama Huntsville	31,482	36,736	38,176	32,817	36,946	40,203	41,274	43,731
145 S Illinois U Carbondale	30,497	29,631	28,578	30,043	30,490	33,169	36,354	43,207
146 Rice University	33,309	34,446	39,696	43,601	41,067	41,069	41,840	42,675
147 Syracuse University	38,650	33,939	34,322	34,642	37,322	39,640	40,063	42,476
148 University of Wyoming	38,464	40,470	40,553	47,753	48,500	47,197	43,094	41,632
149 University of Dayton	47,768	46,084	43,188	45,437	45,000	36,937	39,345	41,343
150 Naval Postgrad School	26,538	27,510	30,706	32,333	34,095	34,095e	37,502 i	40,889 i
Total, 1st 150 institutions	19,088,370	20,086,319	20,853,134	22,054,074	23,435,648	25,028,398	27,381,194	29,839,887

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
151 TX A&M U Sys Hlth Sci Ctr	--	--	--	--	--	--	25,736	40,859
152 U Mississippi, All Camp	25,000	26,862	26,215	26,231	28,079	17,298	44,927	39,552
153 Georgia State University	17,100	17,867	18,114	27,069	31,153	36,523	36,600	38,960
154 Loyola U of Chicago	36,830	33,098 i	29,365	30,994	34,241	29,001	30,034	37,156
155 University of Oregon	31,170	30,386	33,654	31,487	33,315	32,695	35,934	36,881
156 C R Drew U of Med & Sci	9,347	12,500	16,386	17,205e	17,205e	24,484	31,045	36,717
157 U MD Ctr for Environ Sci	19,817	21,100	21,448	21,377	24,038	26,816	31,605	36,635
158 Col of William & Mary	20,443	20,597	25,183	24,051	25,966	31,322	33,299	35,829
159 Northeastern University	19,104	19,850	17,980	19,822	26,385	30,209	35,340	34,467
160 Univ of Montana, The	16,908	18,881	21,421	21,151	20,133	24,372	29,590	33,535
Total, 1st 160 institutions	19,284,089	20,287,460	21,062,900	22,273,461	23,676,163	25,281,118	27,715,304	30,210,478
161 University of Alabama, The	21,960	23,479	21,806	23,671	23,935	28,909	31,847	33,133
162 George Mason University	18,871	22,221	23,230	19,126	22,543	26,766	26,793	32,881
163 MCP Hahnemann U	45,218	41,237	48,790	85,748	95,984	27,516	41,670	32,462
164 U MD Biotechnology Inst	14,839	18,062	22,933	29,117	31,861	31,172	29,946	32,458
165 Saint Louis University	20,844	22,686	25,099	26,517	26,943	27,817	31,002	32,442
166 U of LA Lafayette	11,099	13,416	13,429	22,381	24,768	30,735	32,692	32,073
167 Wright State University	19,388	18,661	17,381	17,291	19,676	23,131	29,092	32,033
168 SUNY Hlth Sci Ctr Brklyn	27,773	30,781	30,254 i	29,727	27,517	28,840	31,626	31,626e
169 Boston College	10,724	13,298	14,504	14,746	17,774	21,726	27,767	30,768
170 Howard University	19,836	24,819	28,894	27,873	23,673	23,557	27,254	30,148
Total, 1st 170 institutions	19,494,641	20,516,120	21,309,220	22,569,658	23,990,837	25,551,287	28,024,993	30,530,502
171 Desert Research Institute	21,459	22,851	20,100	20,000	21,500	23,376	25,691	29,697
172 U of MD Baltimore County	8,117	11,868	14,304	19,799	18,155	21,854	26,044	29,641
173 Michigan Tech University	21,786	22,798	23,882	24,140	26,522	28,074	27,204	29,613
174 Univ of Memphis, The	13,305	14,642	18,429	21,271	22,486	24,280	27,381	29,445
175 Lehigh University	29,188	35,117	34,780	26,451	26,115	27,902	25,506	29,058
176 U of Missouri Rolla	19,706	21,220	20,235	20,895	21,740	25,893	25,968	28,799
177 NM Inst Mining & Tech	20,945	19,584	20,580	21,974	22,791	26,061	23,636	28,392
178 SUNY Col Env Sci & Frstry	21,839	21,904 i	21,969	20,540	22,036	25,385	26,663	27,854
179 Drexel University	20,886	19,389	19,322	19,267	19,603	22,397	24,876	27,698
180 Ohio University	16,425	19,713	18,329	21,008	21,469	21,437	23,767	27,146
Total, 1st 180 institutions	19,688,297	20,725,206	21,521,150	22,785,003	24,213,254	25,797,946	28,281,729	30,817,845
181 U of Nevada Las Vegas	15,486	17,268	16,893	15,628	16,912	20,170	24,215	27,008
182 Loma Linda University	9,204	9,270	10,837	13,396	12,788	18,818	24,369	26,451 i
183 Eastern VA Med School	17,873	17,823	17,730	19,109	21,672	24,096	23,299	26,250
184 Jackson State University	4,697	4,960 i	5,224	5,135	6,111	8,823	12,027	25,663
185 Florida Atlantic U	11,236	13,776	10,576	10,521	14,265	17,151	19,535	25,111
186 Old Dominion University	14,911	14,439	17,577	18,583	20,150	23,030	25,058	24,659
187 New York Medical College	18,725	18,424	16,372	16,890	19,159	20,436	23,348	24,283
188 U PR Med Sci Campus	17,765	17,354	15,005	15,575	19,830	17,114	21,373	23,913
189 Florida A&M University	24,691	20,797	22,474	25,415	19,066	21,622	21,612	23,865
190 Colorado School of Mines	13,880	16,585 i	19,291	19,221	20,681	21,715	21,795	23,654
Total, 1st 190 institutions	19,836,765	20,875,902	21,673,129	22,944,476	24,383,888	25,990,921	28,498,360	31,068,702
191 U of WI-Milwaukee	19,180	19,684	19,679	19,995	20,807	21,325	20,010	23,492
192 Unif Svcs U of Hlth Sci	27,334	39,612	36,851	18,812	20,309	22,898	23,987	23,247
193 San Jose State University	21,005 i	21,005 i	21,005 i	21,005 i	21,005e	21,005e	21,005e	22,709
194 University of Akron	16,783	15,589	15,507	17,999	16,326	16,279	19,495	22,266
195 U TX at El Paso	12,062	12,705	13,548	15,850	14,092	21,961	20,877	21,889
196 U of MA Lowell	15,155	15,505	18,515	18,695	19,372	19,413	19,334	20,656
197 U Southern Mississippi	8,413	8,827	9,112	9,078	11,117	16,211	17,706	20,286
198 CUNY Hunter College	12,264	12,421	15,021	14,037	13,497	15,934	15,047	19,964
199 South Dakota State U	14,083	13,448	14,925	15,671	15,631	15,599	16,784	19,717
200 U of North Dakota	18,732	18,940	28,188	20,899	16,938	16,999	17,343	19,692
Total, 1st 200 institutions	20,001,776	21,053,638	21,865,480	23,116,517	24,552,982	26,178,545	28,689,948	31,282,620

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
201 Morehouse School of Med	7,522	7,896	13,206	13,218	13,614	13,622	16,889	19,670
202 Brigham Young University	13,859	14,102	11,791e	11,502e	11,963	23,985	17,237	19,171
203 SUNY at Binghamton	15,803	17,106	18,500	19,310	20,754	17,998	18,661	18,992
204 OGI Schl Sci & Eng OHSU	20,859	22,141	21,412	20,045	21,047e	19,818	18,856	18,798
205 U of Missouri Kansas City	11,420	11,727	12,597	11,734	12,875	14,331	19,647	18,795
206 U PR Mayaguez Campus	22,967	40,393	44,502	48,857	51,181	55,648	34,683	18,627
207 Rose-Hulman Inst of Tech	667 i	759 i	851 i	943 i	1,035 i	1,132	4,994	18,540
208 SUNY Upstate Med U	11,751	13,177	14,093	14,914	14,089	15,099	17,095	17,948
209 Creighton University	9,645	11,036	11,641	13,127	15,011	16,015	15,841	17,674
210 Catholic U of America	7,542	7,670	7,427	8,845	9,418	13,317	9,329	17,539
Total, 1st 210 institutions	20,123,811	21,199,645	22,021,500	23,279,012	24,723,969	26,369,510	28,863,180	31,468,374
211 U TX at Arlington	17,453	21,135	24,010	37,509	19,075	11,450	10,723	17,486
212 Clark Atlanta University	12,709	25,245	34,566	28,893	29,637	19,467	16,891	17,173
213 CUNY City College	18,831	22,695	22,166	22,526	21,147	15,888	17,059	17,099
214 Portland State University	7,146	7,920	9,376	9,285	10,507	13,940	16,494	16,838
215 University of Toledo	8,043	7,436	8,180e	8,729	11,512	11,819	13,694	16,278
216 Wichita State University	7,483	9,691	9,904	11,797	13,117	14,555	16,213	16,142
217 U TX at Dallas	14,492	14,027 i	13,562	14,561	15,211	16,028	15,684	15,684e
218 NC A&T State University	13,637	15,774	15,991	15,817	14,816	14,741	13,400	15,629
219 Mercer University	14,201	11,181	13,641	13,704	14,995	17,250	18,138	15,337
220 Med Col of Ohio	12,471	13,008	13,367	13,469	11,425	12,467	13,747	15,276
Total, 1st 220 institutions	20,250,277	21,347,757	22,186,263	23,455,302	24,885,411	26,517,115	29,015,223	31,631,316
221 Western Michigan U	9,145	9,033	9,606	10,035	11,532	13,727	14,230	14,976
222 Illinois Inst of Tech	8,853	11,923	16,000	16,182	14,013	13,438	13,734	14,722
223 Northern Arizona U	10,290	10,856	11,572	10,800	11,652	11,857	12,570	14,657
224 Inst of Paper Sci & Tech	8,995	9,640	12,532 i	15,424e	15,424e	10,533e	10,533e	13,929
225 Stevens Inst of Tech	13,460	13,766	15,249	12,179	12,944	13,794	15,879	13,855
226 Cleveland State U	10,570	10,496	10,690 i	10,884e	11,211e	11,893e	10,214	12,986
227 University of Denver	6,671	11,091	8,349	9,019	10,589	10,247	8,383	12,944
228 Albany Medical College	10,324	14,981	7,888	6,965	8,236	10,377	11,522	12,836
229 Miami University (OH)	6,731	7,137	8,847	9,644	6,738	10,964	10,674	12,804
230 Tennessee State U	6,916	7,431	9,137	8,629	9,329	10,762	11,285	12,791
Total, 1st 230 institutions	20,342,232	21,454,111	22,296,133	23,565,063	24,997,079	26,634,707	29,134,247	31,767,816
231 University of Tulsa	7,945	8,107	9,565	9,776	8,235	10,040	10,054	12,553
232 Cal Poly St U	4,676 i	5,000 i	5,324 i	5,648 i	5,972	11,892	12,133	12,193
233 U of MA Boston	10,962	9,146	10,898	11,194	11,491	11,132	12,058	11,672
234 U Houston Clear Lake	4,979 i	4,157 i	3,335 i	2,513 i	1,691	5,963	7,091	11,519
235 Rochester Inst of Tech	11,528	6,370	8,118	8,398	8,133e	9,340e	4,755	11,416
236 U TX at San Antonio	3,982	4,760 i	5,538	15,890	7,220	7,780	10,292	11,331
237 Kent State University	11,312	10,802	11,497	11,439	12,690	11,083	10,817	11,316
238 Prairie View A&M U	8,306	8,019	10,621	9,768	9,952	10,157	9,464	11,297
239 U North TX Hlth Sci Ctr	5,475	5,381	6,499	7,258	8,921	9,689	10,131	11,035
240 East Carolina University	8,245	7,772	6,817	6,600	7,644	9,014	8,461	10,535
Total, 1st 240 institutions	20,419,642	21,523,625	22,374,345	23,653,547	25,079,028	26,730,797	29,229,503	31,882,683
241 U PR Rio Piedras Campus	5,434	5,554	6,116	6,671	9,959	9,885	9,308	10,341
242 U of NC Wilmington	6,002 i	6,303 i	6,604 i	6,905 i	7,208	7,647	7,859	10,307
243 Meharry Medical College	10,336	10,738	11,212	11,212e	11,212e	9,460	9,460e	10,268 i
244 U of Missouri St Louis	6,664	7,503	7,600	8,150	9,462	10,294	9,898	10,084
245 U of South Alabama	13,917	13,426	14,873	13,083	11,990	11,990e	9,865	9,865e
246 Teachers Col, Columbia U	468	736 i	1,005	1,381	6,775	7,206	8,561	9,676
247 Tuskegee University	7,121	7,446	9,061	33,046	37,354	9,223	8,893	9,539
248 U of MA Dartmouth	3,134	3,709	4,092	4,197	4,902	5,820	6,905	9,488
249 Worcester Polytech Inst	11,602	11,611	9,407	10,710	9,637	9,618	10,315	9,348
250 Tennessee Tech U	9,357	10,184	9,188	9,053	9,661	9,204	8,878	9,347
Total, 1st 250 institutions	20,493,677	21,600,835	22,453,503	23,757,955	25,197,188	26,821,144	29,319,445	31,980,946

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
251 Hampton University	5,342	6,344	3,854	8,002	7,140	7,472	9,323	9,158
252 CA St U Los Angeles	3,025 i	2,527 i	2,029 i	1,531 i	1,033 i	535	9,062	9,061
253 Southern U A&M All Camp	6,512	9,639	10,748	10,249	9,063	9,296	8,302	9,052 i
254 Northern Illinois U	11,445	12,600	11,674	7,466	6,725	6,455	7,431	9,028
255 Alabama A&M University	11,098	9,417	9,615 i	9,813e	14,143	11,562	8,238	8,982 i
256 Southern Methodist U	8,277	7,595	9,050	8,220	7,964	9,401	9,713	8,948
257 Southwest Texas St Univ	3,450 i	3,413 i	3,376 i	3,339 i	3,299	3,597	4,507	8,884
258 U of LA at Monroe, The	5,282	5,409	6,134	7,112	6,140	8,135	8,135e	8,870 i
259 Idaho State University	6,052	6,092	8,732	5,495	10,016	5,642	8,899	8,847
260 Clarkson University	10,412	9,314	8,264	6,964	6,345	6,989	7,751	8,322
Total, 1st 260 institutions	20,564,572	21,673,185	22,526,979	23,826,146	25,269,056	26,890,228	29,400,806	32,070,098
261 Air Force Inst of Tech	7,057	5,960	5,877	7,619	4,240	4,316	7,771	8,311
262 Polytechnic University	11,869	10,897	10,964	8,452	6,373	9,050	15,500	8,277
263 East Tennessee State U	2,283	2,205	2,255	2,252	3,152	3,351	6,494	8,222
264 Finch U Hlth Sci Chicago	7,057	6,692	7,022	6,672	6,672e	6,764	7,587	8,037
265 U of NC Charlotte	5,362 i	5,688 i	6,014 i	6,340 i	6,669	9,041	7,790	7,905
266 Western Illinois U	13,780	14,009	13,517	14,152	15,882	10,049	8,489	7,759
267 Embry-Riddle Aero Univ	2,228 i	2,332 i	2,436 i	2,540 i	2,647	2,647e	2,700e	7,711
268 Oakland University	6,285	7,168	6,832	6,598	7,272	6,422	6,422e	7,397
269 U of West Florida	1,850 i	2,461 i	3,072 i	3,683 i	4,294	4,588	6,248	7,395
270 University of North Texas	10,110	10,616	11,250	10,678	8,813	7,487	9,108	7,380
Total, 1st 270 institutions	20,632,453	21,741,213	22,596,218	23,895,132	25,335,070	26,953,943	29,478,915	32,148,492
271 Alcorn State University	3,099	3,233 i	3,368	4,243 i	5,119	5,223	8,034	7,370
272 Marquette University	5,322	5,588	5,946	5,855	6,763	6,469	7,653	7,236
273 Marshall U	540	206	234	180	25	66	6,231	7,218
274 U Ctrl Del Caribe Esc Med	2,139	2,897	2,626	2,456	3,558 i	4,660	5,677	6,943
275 SD Sch of Mines & Tech	4,718	4,795	5,015	4,301	4,550	4,161	5,743	6,922
276 Texas A&M Univ Kingsville	4,553 i	5,243 i	5,933 i	6,623 i	7,317	6,397	7,404	6,919
277 Alfred University	4,712	4,667	4,217	3,694	5,275	5,857	6,442	6,678
278 Tarleton State University	2,760	2,535	2,987	2,695	3,954	3,905	3,872	6,607
279 Harvey Mudd College	2,569 i	3,194 i	3,819 i	4,444 i	5,069 i	5,699e	5,699e	6,443 i
280 CUNY Brooklyn College	1,783	2,436	2,800	2,969	3,132e	5,293	6,342	6,442
Total, 1st 280 institutions	20,664,648	21,776,007	22,633,163	23,932,592	25,379,832	27,001,673	29,542,012	32,217,270
281 Humboldt State University	3,461 i	3,699 i	3,937 i	4,175 i	4,417	5,557	5,557e	6,282 i
282 Florida Inst of Tech	4,384	7,973	8,013	5,077	5,848	5,830	6,058	6,195
283 CA St U Northridge	5,702 i	4,821 i	3,940 i	3,059 i	2,175	3,230	6,190	6,190e
284 Boise State University	2,453	3,285	3,102	3,211	3,412	3,501	3,480	6,153
285 Winston Salem State U	940	1,123	1,406	2,034	2,468	1,712	3,447	6,057
286 Villanova University	1,848	1,996	2,040	2,141	4,714	3,950	5,280	5,969 i
287 Wesleyan University	5,112	5,093	5,245	5,927	5,146	5,373	5,673	5,846
288 New School University	4,383	4,592 i	4,801 i	5,011	3,705	5,230	5,209	5,791
289 U of MD Eastern Shore	1,128	1,880	1,980	2,187	2,265	2,508	3,895	5,626
290 Texas A&M Corpus Chri	--	--	--	--	--	--	5,999	5,606
Total, 1st 290 institutions	20,694,059	21,810,469	22,667,627	23,965,414	25,413,982	27,038,564	29,592,800	32,276,985
291 U of South Dakota	2,879	3,149	5,500	4,586	4,959	5,762	4,742	5,546
292 U of Nebraska at Omaha	1,493 i	1,589 i	1,685 i	1,781 i	1,879	4,097	4,923	5,518
293 Wellesley College	1,747	1,782	4,944	4,943	4,943e	5,128 i	5,313 i	5,498
294 U of Alaska Anchorage	0 i	0 i	0 i	0 i	0e	4,782	4,782e	5,406 i
295 U.S. Air Force Academy	2,397 i	2,838 i	3,279 i	3,720 i	4,163	3,761	4,551	5,323
296 San Francisco State U	5,383 i	5,307 i	5,231 i	5,155 i	5,079 i	5,000e	5,223e	5,223e
297 Xavier University of LA	4,176	10,048	5,188	5,527	5,388	3,294	3,425	5,113
298 Virginia State University	4,569	3,134	3,270	3,988	3,338	2,611	4,422	5,066
299 Bowling Green State U	3,874	3,700	3,942	3,542	3,392	3,454	3,454e	5,028
300 MT Tech of the U of MT	2,718 i	3,096 i	3,474 i	3,852 i	4,230 i	4,613	4,155	4,616
Total, 1st 300 institutions	20,723,295	21,845,112	22,704,140	24,002,508	25,451,353	27,081,066	29,637,790	32,329,322

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
301 CUNY Queens College	2,705	3,397	2,980	2,686	3,353	3,083	3,827	4,595
302 NE Ohio Univ Col of Med	2,446	3,193	2,493	2,990	2,918	3,389	4,011	4,532
303 CA St U Fresno	5,072 i	6,309 i	7,546 i	8,785	10,345	11,450	11,598	4,531
304 West Texas A&M U	871 i	1,291 i	1,711 i	2,131 i	2,551	2,267	1,751	4,515
305 CA St U Dominguez Hills	1,903 i	3,225 i	4,547 i	5,869 i	7,191 i	8,517	998	4,311
306 Western Kentucky Univ	1,982 i	3,071 i	4,160 i	5,249 i	6,342	3,287	3,770	4,165
307 U Arkansas Pine Bluff	3,446	4,780	3,424	3,974	4,151	4,151e	4,151 i	4,151 i
308 Stephen F Austin St U	2,820	3,392	3,990	5,083	4,213	4,892	5,289	4,116
309 Kentucky State University	2,665	2,920	2,773	2,139	713	713e	2,354 i	3,996
310 CA St U Long Beach	5,509 i	5,676 i	5,843	5,843	18,563 i	31,283	32,551	3,995
Total, 1st 310 institutions	20,752,714	21,882,366	22,743,607	24,047,257	25,511,693	27,154,098	29,708,090	32,372,229
311 Norfolk State University	671	1,273	2,239	1,401	2,524	2,995	3,408	3,984
312 CA St U Chico	2,158	3,413	1,629	3,558	3,376	3,106	2,390	3,904
313 Illinois State University	5,071	5,166	4,608	4,596	4,688e	4,326	4,434	3,902
314 U of NC Greensboro	2,309	2,437	2,028	1,882	2,619	2,368	2,368e	3,895
315 Ponce School of Medicine	3,102	3,418	4,450	2,802	2,953 i	3,105	3,403	3,842
316 University of Guam	2,765 i	2,777 i	2,789 i	2,801 i	2,819	2,829	4,130	3,752
317 CA St U Bakersfield	562 i	490 i	418 i	346 i	274 i	200e	3,703	3,703e
318 Texas Christian U	3,110	2,783	2,787	3,175	3,125	4,061	3,050	3,678
319 Fordham University	2,241	2,067	2,712	3,663	2,247	3,134	3,584	3,639
320 W Washington Univ	2,785 i	3,017 i	3,249 i	3,481 i	3,716	3,894	3,433	3,560
Total, 1st 320 institutions	20,777,488	21,909,207	22,770,516	24,074,962	25,540,034	27,184,116	29,741,993	32,410,088
321 Louisiana Tech University	2,315	2,707 i	3,100	5,379 i	7,659	7,659e	928	3,480
322 Lamar University	3,052	2,189	2,407	1,988	3,051	3,739	3,204	3,441
323 Spelman College	1,089	1,435	1,084	2,553	1,744	2,007	2,082	3,406
324 U of the Virgin Islands	2,794	3,811 i	4,828	4,828e	4,828e	3,310	3,310e	3,310 i
325 Institute of Textile Tech	2,297	2,642	2,781	2,813	2,776	2,346	2,638	3,171
326 Hampshire College	1,978	2,380 i	2,782 i	3,185	2,972	2,900	2,658	3,152
327 US Naval Academy	5,107 i	4,494 i	3,881 i	3,268 i	2,651	2,316	2,786	3,140
328 Ball State University	2,002	2,248	2,667	3,076	2,361	2,056	2,429	3,071
329 College of Charleston	1,445 i	1,581 i	1,717 i	1,853 i	1,989	2,100	3,047	3,069
330 Bryn Mawr College	2,559	2,403	3,432	7,016	4,231	3,929	2,791	3,066
Total, 1st 330 institutions	20,802,126	21,935,097	22,799,195	24,110,921	25,574,296	27,216,478	29,767,866	32,442,394
331 Alliant University	--	--	--	--	--	--	--	3,062e
332 Clark University	2,711	2,228	1,954	2,417	2,147	2,651	2,908	3,039
333 University of DC	3,211	3,227 i	3,244	3,244e	3,074	3,394	2,737	3,001
334 Eastern Michigan U	1,192 i	1,255 i	1,318 i	1,381 i	1,444 i	1,512	4,118	2,992
335 South Carolina State U	5,181	4,091 i	3,000	2,855	2,885	2,900	2,915	2,915e
336 CUNY Grad Ctr	2,674	3,449 i	4,224 i	4,999	5,109	1,098	739	2,906
337 Texas Woman's University	1,458	1,712	1,818	2,224	2,359	2,179	3,005	2,898
338 Langston University	2,046	3,187	2,521	1,828	2,031	2,340	2,553	2,863
339 Morehouse College	992	1,074	592	592e	592e	2,853	2,853e	2,853 i
340 Fort Valley State U	2,648	3,009	2,474	2,863	2,989	2,937	2,768	2,768e
Total, 1st 340 institutions	20,824,239	21,958,329	22,820,340	24,133,324	25,596,926	27,238,342	29,792,462	32,471,691
341 Santa Clara University	1,815e	1,895 i	1,954 i	2,077 i	2,189 i	2,326 i	2,509 i	2,723 i
342 Fisk University	1,631	1,800 i	1,969	1,969e	2,909	4,034	3,401	2,722
343 Baylor University	1,179	1,471	1,251	2,233	2,032	2,032e	3,307	2,698
344 E Washington Univ	2,445 i	2,445 i	2,445 i	2,445 i	2,445e	2,356	2,108	2,620
345 Nova Southeastern U	1,245	1,265	1,258	1,402	1,986	3,106	2,919	2,594
346 Smith College	1,920	1,728 i	1,536 i	1,344	1,295	1,107	2,582	2,578
347 American University	3,226	3,063	3,279	3,029	3,453	2,987	2,245	2,565
348 Duquesne University	1,115	1,440	861	1,396	1,297	2,025	2,662	2,561
349 CA St Poly U Pomona	2,363 i	2,105 i	1,847 i	1,589 i	1,331 i	1,069	1,703	2,498
350 Delaware State University	3,987	1,036	2,071	1,947	2,883	2,765	3,415	2,494
Total, 1st 350 institutions	20,845,165	21,976,577	22,838,811	24,152,755	25,618,746	27,262,149	29,819,313	32,497,744

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
351 Texas Southern U	2,612	4,173	3,820	3,867	2,690	2,507	2,182	2,468
352 Sam Houston State U	2,321	3,905 i	5,490	5,849	4,532	3,892	3,053	2,441
353 Midwestern University	1,928	2,126	1,512	2,250	1,840	1,701	2,470	2,421
354 U of Central Arkansas	--	--	--	--	--	--	1,758	2,405
355 Morgan State University	3,558	3,663 i	3,768 i	3,873 i	3,981	1,066	4,371	2,390
356 Claremont Graduate U	1,229	1,017	1,100	902	401	1,870	2,416	2,369
357 Murray State University	976	1,235	1,059	1,490	2,043	1,966	2,084	2,331
358 Towson University	146	180	189	247	959	1,452	2,138	2,282
359 U of TX Pan American	1,208 i	1,321 i	1,434 i	1,547 i	1,664	1,684	1,688	2,279
360 Grambling State U	209	204	1,455	2,634	1,997	1,997e	2,264	2,264e
Total, 1st 360 institutions	20,859,352	21,994,401	22,858,638	24,175,414	25,638,853	27,280,284	29,843,737	32,521,394
361 CUNY H H Lehman Col	1,454	1,327 i	1,199	1,247e	1,308 i	1,370	1,632	2,255
362 Lincoln University	3,121	2,934	2,970	2,899	3,313	2,686	2,502	2,236
363 New Mexico Highlands U	1,485	2,035 i	2,585	2,627 i	2,669 i	2,712	6,511	2,235
364 Bowie State University	937	173	49	2,672	4,511	2,675	2,675e	2,207
365 St Cloud State Univ	669 i	985 i	1,301 i	1,617 i	1,935	1,935e	1,935e	2,188 i
366 Savannah State Univ	128	214	317	316	331	513	905	2,181
367 Pittsburg State U	281	281	546	361	1,631	1,614	1,663	2,161
368 Milwaukee School of Eng	969 i	1,152 i	1,335 i	1,518 i	1,704	1,776	2,020	2,117
369 U of AR at Little Rock	--	--	--	--	--	--	3,400e	2,088
370 Claflin College	103	540	764	1,254	1,403	555	555e	2,074
Total, 1st 370 institutions	20,868,499	22,004,042	22,869,704	24,189,925	25,657,658	27,296,120	29,867,535	32,543,136
371 Ithaca College	527 i	770 i	1,013 i	1,256 i	1,499	2,066	2,565	2,034
372 Central Michigan U	1,334	558e	1,043	843e	0	755	755e	2,032
373 U of IL Springfield	--	--	--	--	--	--	910	2,025
374 Albany State University	3,687e	3,687 i	3,687e	3,687e	1,019	1,019e	1,393	1,972
375 U of Northern Iowa	1,404	2,165	1,944	1,623	1,682	1,542	1,744	1,961
376 CA St U Fullerton	1,749 i	1,749 i	1,749 i	1,749 i	1,749e	1,749 i	1,712 i	1,935 i
377 Macalester College	369 i	590 i	811 i	1,032 i	1,253 i	1,474 i	1,695 i	1,923
378 CA St U Monterey Bay	--	--	--	--	--	--	--	1,911
379 CA St U San Bernardino	202 i	248 i	294 i	340 i	390	3,301	1,797	1,906
380 Central Washington U	911 i	1,074 i	1,237 i	1,400 i	1,563 i	1,731	2,006	1,880
Total, 1st 380 institutions	20,878,682	22,014,883	22,881,482	24,201,855	25,666,813	27,309,757	29,882,112	32,562,715
381 U of WI-Stevens Point	1,649	1,871	1,649	1,324	1,112	1,302	1,227	1,827
382 Gallaudet University	3,271 i	3,007 i	2,743 i	2,479 i	2,212	2,348	1,752	1,824
383 Amherst College	1,694 i	1,664 i	1,634 i	1,604 i	1,573	1,498	1,859	1,802
384 Bucknell University	773 i	885 i	997 i	1,109 i	1,221 i	1,335	1,835	1,791
385 Mount Holyoke College	848 i	892 i	936 i	980 i	1,033	1,721	1,835	1,734
386 Vassar College	596 i	596 i	596 i	596 i	596e	1,156 i	1,716	1,716e
387 Colgate U	--	--	--	--	--	--	1,664	1,694
388 Fairfield University	413 i	521 i	629 i	737 i	845 i	953 i	1,061	1,648
389 CUNY Col Staten Island	7,045	954	901	794	1,014	979	1,208	1,635
390 DePaul University	1,329	1,182	1,300	1,103	1,233	1,028	863	1,628
Total, 1st 390 institutions	20,896,300	22,026,455	22,892,867	24,212,581	25,677,652	27,322,077	29,897,132	32,580,014
391 St Joseph's Univ	231 i	322 i	413 i	504 i	595	311	975	1,628
392 Maharishi U of Mgmt	776	699	0	0	0	0	1,632	1,612
393 New England Col of Opt	289	144	723	1,111	1,734	1,643	1,228	1,608
394 U of WI-La Crosse	712	1,133	1,310	1,045	1,185	1,113	1,404	1,563
395 SUNY Col at Buffalo	1,460	1,604	2,570	2,448	1,157	1,689	1,683	1,552
396 Southwest Missouri St U	2,292 i	2,169 i	2,046 i	1,923 i	1,797	1,324	1,324e	1,550
397 Colorado College	301 i	279 i	257 i	235 i	211	877	1,213	1,548
398 U of Southern Maine	436 i	480 i	524 i	568 i	614	1,366	1,366e	1,544 i
399 Occidental College	2,220 i	2,220 i	2,220 i	2,220 i	2,220e	862	826	1,543
400 Dickinson College	--	--	--	--	1,789	948	739	1,528
Total, 1st 400 institutions	20,905,017	22,035,505	22,902,930	24,222,635	25,688,954	27,332,210	29,909,522	32,595,690

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
401 Indiana State University	1,042	1,208	1,548	1,265	5,255	4,977	4,196	1,504
402 University of New Haven	504	505 i	507	558e	558e	198	198e	1,492
403 James Madison University	1,041 i	1,172 i	1,303 i	1,434 i	1,568	1,781	1,121	1,449
404 SUNY Col of Optometry	680	537	641	499	668	1,135	1,001	1,435
405 Alabama State University	1,055	1,000	1,000	818	1,177	1,365	1,365e	1,433e
406 Hope College	891 i	920 i	949 i	978 i	1,007 i	1,039	922	1,417
407 Chicago State University	1,248	740	757	759	713	1,266	1,263	1,415
408 Barnard College	1,306	1,246	934	943e	1,172	1,181	1,347	1,376
409 State U of West Georgia	407 i	614 i	821 i	1,028 i	1,235 i	1,442 i	1,655	1,360
410 Arkansas State University	837 i	868 i	899 i	930 i	962	1,527	1,203	1,347
Total, 1st 410 institutions	20,914,028	22,044,315	22,912,289	24,231,847	25,703,269	27,348,121	29,923,793	32,609,918
411 Mississippi Valley St U	319	471	586	563	350	495	834	1,316
412 SUNY Col Old Westbury	505	610	640	991	777	691	1,310	1,310e
413 Calvin College	583 i	673 i	763 i	853 i	943 i	1,033	1,191	1,300
414 Pomona College	1,316 i	1,240 i	1,164 i	1,088 i	1,010	1,619	1,791	1,298
415 Middlebury College	781 i	774 i	767 i	760 i	753 i	742	1,371	1,285
416 University of Richmond	1,080	454	807	937	1,035	1,099	1,178	1,271
417 S Illinois U Edwardsville	1,743 i	1,549 i	1,355 i	1,161 i	966	1,316	1,344	1,270
418 U of NC Asheville	566 i	601 i	636 i	671 i	706 i	742	861	1,269
419 Le Moyne-Owen Coll	--	--	--	--	1,451	1,053	1,700	1,268
420 U of Northern Colorado	252	285	561	799	736e	701	1,128	1,265
Total, 1st 420 institutions	20,921,173	22,050,972	22,919,568	24,239,670	25,711,996	27,357,612	29,936,501	32,622,770
421 Elizabeth City State U	418	758 i	1,098	1,379	684	1,040	1,558	1,248
422 Trinity University	1,383 i	1,280 i	1,177 i	1,074 i	971 i	867	1,241	1,241e
423 University of the Pacific	60	970	860	2,601	886	999	1,020	1,241
424 U of Detroit Mercy	2,527	2,950	2,555	2,260	1,853	1,870	1,767	1,236
425 U of North Florida	--	--	--	--	--	--	--	1,222
426 Union Institute, The	1,008	1,155	1,173	1,024 i	875	1,023	1,217	1,217e
427 Albany Col of Pharmacy	--	--	--	--	--	--	1,360	1,208
428 Long Island University	267	238	155	902	1,221	1,406	1,267	1,201
429 Bradley University	685 i	887 i	1,089 i	1,291 i	1,493	1,341	1,371	1,197
430 St John's University (NY)	1,103	1,068	1,903	2,216	1,572	1,617	1,184	1,184e
Total, 1st 430 institutions	20,928,624	22,060,278	22,929,578	24,252,417	25,721,551	27,367,775	29,948,486	32,634,965
431 Haverford College	920	631	1,077	1,304	1,303	1,104	1,191	1,178
432 Carleton College	938 i	936 i	934 i	932 i	930 i	927	1,245	1,176
433 U of Health Sci, The (MO)	718	963	677	652	885	885e	677	1,166
434 Grand Valley State U	736	727	1,810	1,247	892	992	1,138	1,161
435 Kettering University	362 i	379 i	396 i	413 i	433	647	625	1,161
436 SUNY Col at Plattsburgh	1,108	1,520	1,207	951	1,133	793	996	1,118
437 CUNY York College	840	900	952	1,311	1,526	1,392	1,341	1,117
438 CUNY John Jay Col Cr Just	181	248	686	688	1,325	1,442	1,274	1,070
439 U of WI-Stout	1,500	1,305	1,523	1,306	1,386	976	1,236	1,070
440 University of Hartford	157	357	466	365	397	773	1,061	1,068
Total, 1st 440 institutions	20,936,084	22,068,244	22,939,306	24,261,586	25,731,761	27,377,706	29,959,270	32,646,250
441 Spalding University	12	15	0	0	189	0	462	1,055
442 Union College (NY)	1,054	988	1,016	687	694	1,043	1,002	1,045
443 Benedict College	1,062	850	634	634e	800 i	966 i	1,143	1,044
444 Coastal Carolina U	--	--	--	--	--	--	1,277	1,038
445 Allegheny College	557 i	592 i	627 i	662 i	697 i	734	318	1,023
446 Trinity College	762 i	919 i	1,076 i	1,233 i	1,390 i	1,552	1,010	1,010e
447 Lafayette College	525 i	550 i	575 i	600 i	625	600	665	1,008
448 Tougaloo College	1,502	1,606 i	1,710 i	1,815	1,180	1,227	895	1,007
449 Colby College	314 i	332 i	350 i	368 i	389	355	392	968
450 Swarthmore College	1,401	875	871	869	996	996e	996e	966
Total, 1st 450 institutions	20,943,273	22,074,971	22,946,165	24,268,454	25,738,721	27,385,179	29,967,430	32,656,414

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
451 East Stroudsburg U of PA	298 i	415 i	532 i	649 i	766 i	887e	642	962
452 Loyola College	1,569	1,386	1,023	905	1,303	1,445	1,724	954
453 Bates College	159	340	588	402	682	754	598	940
454 Phila Col Osteopathic Med	469	882	869	688	516	1,050	930	935
455 Hamilton College	475 i	475 i	475 i	475 i	475e	751 i	1,027	931
456 Bethune Cookman College	507	0	451	606	566	583	586	926
457 North Carolina Central U	409	835	852 i	869e	869	825e	808 i	913 i
458 Kirksville Col Osteo Med	836	910	747	644	509	743	816	907
459 Rider University	--	--	--	--	--	--	891	884
460 Youngstown State Univ	317 i	462 i	607 i	752 i	898	468	532	849
Total, 1st 460 institutions	20,948,312	22,080,676	22,952,309	24,274,444	25,745,305	27,392,685	29,975,984	32,665,615
461 Georgia Southern U	1,125 i	1,067 i	1,009 i	951 i	893 i	833	944	841
462 U of Houston Downtown	932 i	964 i	996 i	1,028 i	1,060 i	1,096	837	837e
463 Truman State University	743e	684 i	624	764	754	754e	738 i	834 i
464 Seton Hall University	3,072	2,411e	2,400e	2,400e	2,400	1,116	996	826
465 Reed College	601 i	561 i	521 i	481 i	441 i	400e	716	814
466 Bennett College	112	112	93	93e	811	811e	811 i	811 i
467 PA College of Optometry	734 i	649 i	564 i	479 i	394 i	307	581	800
468 Middle Tennessee State U	327	415	535	465	297	618	733	799
469 U of Central Oklahoma	148 i	164 i	180 i	196 i	215	1,173	509	795
470 West Chester U of PA	1,113	1,919	462	506	672	769	794	794e
Total, 1st 470 institutions	20,957,219	22,089,622	22,959,693	24,281,807	25,753,242	27,400,562	29,983,643	32,673,766
471 SUNY Col at Oswego	1,192	1,056 i	920	803	716	542	744	783
472 Sul Ross State University	143	176	316	320	602	630	796	779
473 Eastern Kentucky U	6,498 i	12,539 i	18,580 i	24,621 i	30,662 i	36,708	640	770
474 Des Moines U Ost Med Ctr	362	80	316	302	416	673	417	767
475 Montclair State U	112 i	159 i	206 i	253 i	300 i	347 i	396	766
476 Western Carolina U	263	228	228	332	442	501	580	763
477 CUNY Medger Evers Col	--	--	--	--	--	--	291	756
478 Indiana U of PA All Cmp	374	349	562	512	512e	389	731	756
479 U of Southern Colorado	1,251	1,464	1,183	884	824	979	724	753
480 Appalachian State U	494	549	511	511	558	621	694	752
Total, 1st 480 institutions	20,967,908	22,106,222	22,982,515	24,310,345	25,788,274	27,441,952	29,989,656	32,681,411
481 Minnesota State, Mankato	1,115 i	1,320 i	1,525 i	1,730 i	1,939	564	607	751
482 Sonoma State University	--	--	--	--	194	134	150	736
483 SUNY Col at Brockport	458	460e	532	591	609	676	722	722e
484 Furman University	283	577	728	665	522	365	793	719
485 University of Portland	257	333	447	306	282	387	552	719
486 Andrews University	247	279	366	381	290	290e	444	712
487 Simmons College	462 i	556 i	650 i	744 i	838 i	937	912	710
488 University San Francisco	771 i	717 i	663 i	609 i	555 i	500e	700	700e
489 Franklin & Marshall Coll	956 i	1,006 i	1,056 i	1,106 i	1,158	1,424	1,188	698
490 Nicolls State U	--	--	--	--	--	--	504	687
Total, 1st 490 institutions	20,972,457	22,111,470	22,988,482	24,316,477	25,794,661	27,447,229	29,996,228	32,688,565
491 Lawrence Tech Univ	171 i	155 i	139 i	123 i	104	344	821	681
492 Southern U New Orleans	--	--	--	--	--	--	183	680
493 Virginia Union University	--	--	--	--	671	671e	671 i	671 i
494 U of WI-Oshkosh	380	330	396	574	636	603	585	670
495 Radford University	--	--	--	--	273	181	624	665
496 College of the Holy Cross	431	564	1,419	437	430	252	371	664
497 Hofstra University	1,786	2,218	726	717	717	716	787	661
498 Southeastern Louisiana U	487 i	584 i	681 i	778 i	875 i	976	1,057	645
499 SUNY Col at Geneseo	518	316	651	461	475	543	686	644
500 Lincoln University (PA)	502	818 i	1,135	1,032	1,364	972	709	620
Total, 1st 500 institutions	20,976,732	22,116,455	22,993,629	24,320,599	25,800,206	27,452,487	30,002,722	32,695,166

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
501 Virginia Military Inst	394	508	508	429	334	394	470	613
502 U of WI-Green Bay	350	390	590	533	491	478	543	602
503 Southern Connecticut St U	281 i	263 i	245 i	227 i	209 i	188	596	596e
504 Fayetteville State U	437	470 i	503	139	485	265	507	589
505 U of WI-Parkside	373	319	338	339	187	158	362	575
506 U of Sci in Philadelphia	634	881	695	650	358	358e	532	573
507 New York Inst Technology	346	183	278	325	295	370	390	571
508 Oakwood College	161	300	371	718	845	567	567e	567 i
509 Central State University	1,791	1,789 i	1,786	1,786e	1,497	1,497e	560e	560 i
510 Grinnell College	332 i	332 i	332 i	332 i	332e	4,300	1,500	560
Total, 1st 510 institutions	20,981,831	22,121,890	22,999,275	24,326,077	25,805,239	27,461,062	30,008,749	32,700,972
511 Arkansas Tech Univ	506 i	485 i	464 i	443 i	419	598	419	526
512 John Carroll University	631 i	719 i	807 i	895 i	983 i	1,072	1,072e	515
513 U of WI-Eau Claire	666	377	386	479	613	604	684	514
514 Bowdoin College	481	459	909	425	474	510	576	512
515 Manhattan College	1,064 i	939 i	814 i	689 i	563	485	509	509e
516 Cooper Union	1,515 i	1,515 i	1,515 i	1,515 i	1,515e	144	284	501
517 Augsburg College	616 i	554 i	492 i	430 i	368 i	303	337	497
518 Evergreen State Coll	358 i	426 i	494 i	562 i	630 i	698 i	766	487
519 Connecticut College	432 i	432 i	432 i	432 i	432e	432 i	423 i	478 i
520 McNeese State University	0	131	131e	25	410	699	639	471
Total, 1st 520 institutions	20,988,100	22,127,927	23,005,719	24,331,972	25,811,646	27,466,607	30,014,458	32,705,982
521 Whitman College	596 i	559 i	522 i	485 i	444	492	483	469
522 US Coast Guard Academy	308 i	306 i	304 i	302 i	300	570	405	468
523 Chapman U	157 i	193 i	229 i	265 i	301 i	337 i	373	460
524 St Olaf College	321 i	358 i	395 i	432 i	469 i	506	544	453
525 Lewis and Clark College	308 i	347 i	386 i	425 i	468	600	529	420
526 MA Col Phar Allied Hlth	222	275	205	235	89	89e	253 i	417
527 U of WI-Superior	1,705	1,611	951	494	383	505	380	404
528 Valparaiso University	556	556e	426e	443	571	569	725	391
529 Denison University	401 i	384 i	367 i	350 i	333 i	314	328	384
530 Pace University All Cmp	0e	0	0	0	596	571	289	378
Total, 1st 530 institutions	20,992,674	22,132,516	23,009,504	24,335,403	25,815,600	27,471,160	30,018,767	32,710,226
531 SUNY Col at Cortland	295	244	373	357	55	82	362	378
532 CUNY Baruch Col	383	243	154	113	319 i	526	375	375e
533 Lake Forest College	20 i	40 i	60 i	80 i	103	190	399	375
534 Bridgewater State College	590 i	525 i	460 i	395 i	330 i	260	585	371
535 Western U of Hlth Sci	168	152	206	58	295	295e	332 i	369
536 Drake University	374 i	369 i	364 i	359 i	354 i	349	468	366
537 St Mary's University	466 i	350 i	234 i	118 i	0	0	287	362
538 Salem International Univ	--	--	--	--	752	704	762	355
539 Dillard University	110	145	314	175	175e	175	264	349
540 Willamette University	--	--	--	--	340	58	266	344
Total, 1st 540 institutions	20,995,080	22,134,584	23,011,669	24,337,058	25,818,323	27,473,799	30,022,867	32,713,870
541 Oberlin College	342 i	399 i	456 i	513 i	570 i	627 i	691	325
542 W State Coll Colorado	130 i	126 i	122 i	118 i	110	158	204	325
543 Pitzer College	665	544 i	423	240	260	297	383	322
544 Abilene Christian Univ	441 i	414 i	387 i	360 i	330	272	252	319
545 Fort Lewis College	462	438	235	447	599	243	191	314
546 Pacific University	0	0	0	0	0	0	264	299
547 Kennesaw State Univ	164	89	132	158	132	142	249	298
548 La Salle University	3	166 i	329	215	157	244	126	294
549 U of WI-River Falls	175	115	146	262	242	231	152	288
550 College of Wooster	220	279	293e	219	323	379	593	286
Total, 1st 550 institutions	20,997,682	22,137,154	23,014,192	24,339,590	25,821,046	27,476,392	30,025,972	32,716,940

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
551 Wilberforce University	505	384	323	280	280e	280 i	280 i	280 i
552 Northeastern Illinois U	294	1,513	282	530	186	101	184	274
553 Texas A&M Commerce	213	282	263	290	361	168	327	262
554 U of WI-Whitewater	201	287	356	395	282	148	272	260
555 Central Connecticut St U	209 i	210 i	211 i	212 i	213 i	214 i	218	259
556 Ohio Wesleyan University	450	319	508	619	197	255	255e	255 i
557 St Mary's Col of MD	--	--	--	--	--	--	447	251
558 Skidmore College	230 i	211 i	192 i	173 i	151	236	314	250
559 University of San Diego	641	701	252	248	484	343	545	240
560 U of Nebraska at Kearney	72 i	84 i	96 i	108 i	120 i	132 i	146	231
Total, 1st 560 institutions	21,000,497	22,141,145	23,016,675	24,342,445	25,823,320	27,478,269	30,028,960	32,719,502
561 SUNY Col at Fredonia	319	382	204	154	118	92	194	224
562 Fairleigh Dickinson U	140e	140e	140	775	394	356	158	223
563 Southeast Missouri St U	699 i	610 i	521 i	432 i	343 i	250e	233	223
564 University of St Thomas	273 i	281 i	289 i	297 i	306	78	143 i	209
565 Regis University	99 i	105 i	111 i	117 i	124	93	208	208e
566 Widener U All Campuses	0	0	0	0	0	70	208	208e
567 Southern Oregon Univ	208 i	243 i	278 i	315	341	320	301	200
568 Johnson C Smith U	2,083	1,307	1,307	1,546	4,299	8,659	287	195
569 Point Loma Nazarene Col	162 i	162 i	162 i	162 i	162 i	162 i	165	186
570 U of Findlay	--	--	--	--	--	--	350	182
Total, 1st 570 institutions	21,004,480	22,144,375	23,019,687	24,346,243	25,829,407	27,488,349	30,031,207	32,721,560
571 Juniata College	212 i	203 i	194 i	185 i	176 i	164	168	171e
572 Knox College	584 i	529 i	474 i	419 i	364 i	309 i	254	153
573 Adelphi University	243e	319	317	433	252	254	169	137
574 WV Sch of Osteo Med	142	121	128	146	146	99	132	129
575 Monmouth University	722	776	630	708	382	357	357e	118
576 Morris Brown College	1,010	3,796	3,652	525	525e	321 i	116	116e
577 Shaw University	56	56	115	147	110	100	100e	100 i
578 Providence College	71	36	70	44	62	86	86e	93 i
579 Pont Catholic U of PR, The	0	20	20e	86	111	131	85	89
580 Fuller Theological Sem	35	14	11	27	27e	80	80e	87 i
Total, 1st 580 institutions	21,007,555	22,150,245	23,025,298	24,348,963	25,831,562	27,490,250	30,032,754	32,722,753
581 University of Dallas	0	0	63	67	490	194	60	81
582 Ferris State University	--	--	--	--	78	15	15e	64
583 West Virginia State Col	241	40	10	256	119	55	55e	63e
584 Wentworth Inst of Tech	1,504	1,155	1,234	773	1,146	817	452	62
585 Jarvis Christian College	219	219	102	83	55	56	55	55e
586 Alliant International U	0	0	0	0	0	0	0	0
587 Antioch University	128	81	0	0	0	0	0	0
588 Azusa Pacific U	--	--	--	--	--	--	0e	0
589 Biola University	0	0	0	0	0	0	0	0
590 Bluefield State College	--	--	--	--	15	0	0	0
Total, 1st 590 institutions	21,009,647	22,151,740	23,026,707	24,350,142	25,833,465	27,491,387	30,033,391	32,723,078
591 CA Inst of Integral Stu	0	0	0	0	0	0	0	0
592 Coppin State College	218	208	116	15	6	11	0	0
593 Forest Inst of Prof Psy	48	8	5	0	0	0	0	0
594 Golden Gate University	0	0	0	0	0	0	0	0
595 Pepperdine University	0	0	0	0	0	0	0	0
596 Philander Smith College	157	145	73	73	73e	72	72e	0
597 Rust College	389	332	0	0	317	114	138	0
598 Selma University	740	495 i	250	210	210e	116	0	0e
599 Talladega College	0	0	0	0	0e	0	0	0
600 U of Missouri Sys Admn	740	205	196	209	270	291	219	0
Total, 1st 600 institutions	21,011,939	22,153,133	23,027,347	24,350,649	25,834,341	27,491,991	30,033,820	32,723,078

See explanatory information and SOURCE at end of table.

Table B-32. Total R&D expenditures at universities and colleges, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
601 Wiley College	--	--	--	--	0	0	0	0
Total, 1st 601 institutions	21,011,939	22,153,133	23,027,347	24,350,649	25,834,341	27,491,991	30,033,820	32,723,078
Total, all other sampled institutions	10,865	12,219	12,528	12,591	13,218	12,942	8,144	0

1 Johns Hopkins University includes the Applied Physics Laboratory, with $482 million in total R&D expenditures.

2 These data do not include R&D expenditures at university-associated federally funded research and development centers. See tables B-73 and B-74.

KEY: -- = not available
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
Total, all institutions	12,646,128	13,328,036	13,835,880	14,309,340	15,144,829	16,070,661	17,508,301	19,190,873
1 Johns Hopkins U[1]	711,692	706,049	710,119	724,526	752,983	770,580	793,266	879,741
2 U of Washington	281,033	291,284	312,695	320,784	342,291	368,112	389,622	435,103
3 University of Michigan	264,722	275,956	281,062	296,028	311,450	334,226	364,033	396,117
4 Stanford University	268,559	273,157	295,373	332,272	342,426	353,947	367,083	384,468
5 U of Pennsylvania	186,409	200,895	216,167	217,125	247,914	279,013	312,434	351,996
6 U CA San Diego	266,166	284,445	291,917	238,569	263,103	292,007	326,037	343,276
7 Columbia U in City of NY	203,101	206,495	195,652	212,180	229,723	240,158	283,163	317,928
8 U CA Los Angeles	190,202	201,773	236,635	215,937	234,005	251,999	274,162	312,858
9 University of Colorado	158,163	169,666	177,517	192,201	228,342	244,686	300,667	308,643
10 MA Institute of Tech[2]	270,718	273,543	271,544	311,396	310,741	308,921	306,668	304,319
Total, 1st 10 institutions	2,800,765	2,883,263	2,988,681	3,061,018	3,262,978	3,443,649	3,717,135	4,034,449
11 U of WI-Madison	225,403	229,381	233,174	233,760	240,513	249,212	278,629	304,009
12 Harvard University	190,183	203,965	203,047	222,612	251,876	266,019	281,699	300,414
13 Washington University	138,299	146,921	155,197	186,993	187,173	218,598	254,148	284,928
14 U CA San Francisco	213,252	224,271	221,864	206,749	219,630	233,181	248,878	277,489
15 University of Pittsburgh	148,989	144,487	149,960	160,833	168,511	194,618	228,155	268,571
16 University of Minnesota	181,039	194,819	198,927	200,149	204,741	207,761	229,958	264,289
17 Yale University	171,425	174,868	176,994	189,124	205,046	213,404	232,019	250,702
18 U of Southern California	149,735	163,606	179,281	191,809	190,547	199,619	210,872	246,207
19 Pennsylvania State U	168,679	187,481	190,688	185,206	186,274	199,105	226,074	245,951
20 Cornell University[2]	193,981	207,391	203,082	205,521	204,187	234,792	229,872	240,466
Total, 1st 20 institutions	4,581,750	4,760,453	4,900,895	5,043,774	5,321,476	5,659,958	6,137,439	6,717,475
21 Baylor Col of Medicine	92,404	94,197	92,294	97,829	110,610	141,111	193,249	234,394
22 U of NC Chapel Hill	149,047	156,626	157,034	153,985	171,505	182,935	194,794	221,615
23 Duke University	148,350	148,526	149,631	155,894	172,532	186,757	204,180	218,109
24 U CA Berkeley[2]	152,528	157,826	168,171	159,275	171,747	191,025	208,338	208,080
25 University of Arizona	145,696	168,791	154,004	152,221	161,999	178,126	187,161	199,484
26 U of IL Urbana-Champaign	138,734	139,078	145,514	156,366	171,250	185,767	193,490	195,316
27 U TX at Austin	149,586	143,939	147,808	151,954	165,082	164,913	178,889	195,184
28 U of Alabama Birmingham	98,719	107,440	125,804	150,501	166,830	165,223	175,309	194,625
29 California Inst of Tech[2]	112,502	120,723	142,474	164,225	177,748	195,303	196,877	193,554
30 Emory University	88,735	92,724	95,237	108,522	118,045	132,816	144,914	170,317
Total, 1st 30 institutions	5,858,051	6,090,323	6,278,866	6,494,546	6,908,824	7,383,934	8,014,640	8,748,153
31 University of Rochester[2]	135,863	125,897	112,933	118,477	130,773	132,852	150,593	166,945
32 Ohio State University	113,186	122,660	118,811	122,582	124,177	135,216	132,219	161,092
33 Case Western Reserve U	97,302	107,192	109,901	120,992	132,274	140,178	150,586	158,852
34 Northwestern University	83,684	90,387	100,810	108,292	127,911	132,647	150,238	158,129
35 University of Chicago[2]	102,530	104,587	114,123	121,683	125,982	135,720	140,872	155,566
36 U of Iowa	99,536	103,115	105,646	108,534	115,312	122,638	140,764	155,249
37 U CA Davis	112,718	122,645	130,188	104,943	114,018	124,463	141,740	154,937
38 Boston University	72,551	83,473	87,946	97,522	104,428	123,390	133,730	150,771
39 Texas A&M University	136,942	136,734	148,675	145,066	144,938	149,151	149,639	149,382
40 Vanderbilt University	92,439	92,185	95,684	98,744	106,325	116,887	129,986	146,230
Total, 1st 40 institutions	6,904,802	7,179,198	7,403,583	7,641,381	8,134,962	8,697,076	9,435,007	10,305,306
41 U of MD at College Park	86,051	94,071	99,688	102,928	129,198	145,081	136,605	145,515
42 Georgia Institute of Tech	97,075	104,892	116,155	112,544	113,643	112,861	126,164	143,836
43 University of Florida	79,630	79,361	86,973	94,328	106,510	122,296	120,374	139,744
44 U TX SW Med Ctr at Dallas	71,468	78,892	81,468	89,357	97,200	101,996	109,165	131,820
45 New York University	89,013	93,759	90,010	94,117	101,426	111,124	117,163	129,897
46 University of Cincinnati	56,361	55,107	72,543	78,292	90,307	100,325	110,296	128,049
47 University of Utah	81,263	83,554	93,788	99,322	100,722	111,716	124,344	127,253
48 U of IL Chicago	57,074	57,528	58,991	70,739	73,797	86,406	101,943	125,109
49 University of Virginia	83,670	85,244	75,256	82,488	99,173	107,856	115,684	122,868
50 Indiana University	81,657	86,041	90,881	95,931	95,840	102,262	107,577	116,781
Total, 1st 50 institutions	7,688,064	7,997,647	8,269,336	8,561,427	9,142,778	9,798,999	10,604,322	11,616,178

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
51 Michigan State University	73,855	77,499	77,243	82,977	81,146	89,835	97,112	112,359
52 University of Miami	91,563	97,111	96,716	101,516	101,492	101,883	106,633	111,803
53 Oregon Health & Science U	43,629	49,429	51,338	68,637	82,146 i	95,655 i	109,165	111,671
54 University of New Mexico	51,780	90,897	76,850	76,978	84,365	84,976	100,442	109,505
55 Mt Sinai Sch Med	55,188	58,991	61,599	60,914	69,995	84,624	98,188	109,344
56 Yeshiva University	70,718	72,132e	73,396	77,936	80,000	89,680	101,631	107,800
57 U CA Irvine	67,245	69,655	72,994	64,293	66,602	75,505	88,274	101,735
58 Colorado State University	66,464	75,216	74,930	79,393	80,451	91,943	101,429	101,308
59 U of MD Baltimore	59,727	59,596	65,211	72,100	78,037	84,516	91,212	99,091
60 Purdue University	82,148	93,256	91,632	91,969	92,844	95,708	92,010	98,151
Total, 1st 60 institutions	8,350,381	8,741,429	9,011,245	9,338,140	9,959,856	10,693,324	11,590,418	12,678,945
61 Univ of Hawaii at Manoa	39,392	44,238	66,902	72,421	86,886	93,418	95,419	97,716
62 Carnegie Mellon U[2]	87,790	84,758	91,830	91,527	95,046	90,408	91,191	97,463
63 SUNY at Buffalo	81,814	75,713	87,813	78,092	76,037	85,490	96,410	96,595
64 NC State University	69,608	68,675	74,485	69,473	79,533	66,310	77,328	95,875
65 Louisiana State U System	52,064	61,456	64,524	65,257	67,090	75,831	89,007	94,625
66 U TX MD Anderson Cncr Ctr	42,416	44,711	42,794	49,702	63,074	69,413	81,872	94,053
67 Georgetown University	54,992	74,328	81,704	84,198	84,801	83,972	98,836	93,626
68 SUNY at Stony Brook	72,673	76,505	79,570	86,568	91,531	93,937	96,641	93,265
69 UT Houston Hlth Sci Ctr	46,821	54,762	61,456	67,205	70,446	71,288	79,665	88,545
70 University of Kentucky	48,801	50,014	51,450	62,128	60,760	66,184	73,858	86,239
Total, 1st 70 institutions	8,946,752	9,376,589	9,713,773	10,064,711	10,735,060	11,489,575	12,470,645	13,616,947
71 U Med & Dent of NJ	40,687	45,734	47,505	57,471	59,828	61,730	75,318	86,054
72 Oregon State University	65,069	68,687	79,977	80,131	82,416	81,649	80,398	84,854
73 U of MA Worcester	34,923	36,970	40,198	43,350	53,766	55,516	64,212	79,453
74 Wayne State University	43,354	46,246	46,264	53,707	57,646	57,610	64,320	79,448
75 Princeton University[2]	58,544	63,903	69,386	69,667	69,005	72,974	74,681	78,620
76 U of Tennessee System	82,288	76,294	73,724	74,049	69,793	70,187	72,059	78,611
77 Wake Forest University	36,722	50,719	55,845	54,287	56,705	60,293	65,585	78,021
78 VA Polytech Inst & St U	73,490	79,074	80,319	87,657	82,734	75,386	71,127	77,384
79 Rutgers the State U NJ	68,149	72,567	67,588	68,225	69,829	75,664	79,711	77,156
80 U CA Santa Barbara	59,336	63,443	73,400	64,915	68,680	74,026	80,754	76,828
Total, 1st 80 institutions	9,509,314	9,980,226	10,347,979	10,718,170	11,405,462	12,174,610	13,198,810	14,413,376
81 Woods Hole Oceanogr Inst	74,219	72,759	61,820	66,386	64,765	59,534	67,036	75,670
82 University of Kansas	40,816	42,209	41,858	46,733	50,567	57,272	68,950	74,494
83 Utah State University	46,128	48,431	43,764	49,594	54,903	54,433	57,378	74,251
84 Tufts University	49,672	50,481	53,508	55,421	61,167	62,836	64,677	71,669
85 U TX Hlth Sci Ctr San Ant	51,671	54,433	51,203	53,478	51,954	56,904	65,251	71,153
86 University of Connecticut	48,286	50,096	53,009	49,503	53,189	55,496	66,144	70,013
87 Dartmouth College	41,762	39,059	39,682	43,154	45,053	46,741	56,369	69,844
88 U of Missouri Columbia	31,299	32,420	38,938	43,335	45,448	53,875	65,420	68,435
89 University of Georgia	55,005	57,509	56,254	54,364	54,712	56,080	62,678	66,913
90 Mississippi State U	33,918	33,158	34,637	34,928	42,004	46,528	53,808	65,493
Total, 1st 90 institutions	9,982,090	10,460,781	10,822,652	11,215,066	11,929,224	12,724,309	13,826,521	15,121,311
91 Thomas Jefferson U	43,215	49,335	51,475	49,091	51,728	56,369	67,448	64,881
92 U TX Med Br at Galveston	32,775	33,204	38,323	42,006	48,588	55,061	61,357	64,682
93 Medical Col of Wisconsin	31,459	31,098	34,527	39,364	43,831	47,087	55,034	64,003
94 Iowa State University[2]	56,439	58,766	54,904	52,938	51,196	54,179	59,976	62,024
95 New Mexico State Univ	59,632	57,210	53,552	57,165	56,587	56,875	57,073	61,124
96 Med U of South Carolina	28,507	36,417	40,637	37,790	36,473	30,997	41,432	60,543
97 University of Oklahoma	35,266	37,112	42,679	45,756	54,451	57,589	60,542	60,264
98 U of South Florida	19,910	29,558	29,751	31,068	35,930	42,005	50,557	58,826
99 Brown University	36,864	37,432	42,139	43,664	44,412	45,276	49,943	58,367
100 Virginia Commonwealth U	47,923	46,694	45,454	44,982	48,167	48,175	52,137	57,315
Total, 1st 100 institutions	10,374,080	10,877,607	11,256,093	11,658,890	12,400,587	13,217,922	14,382,020	15,733,340

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
101 Florida State University	39,775	45,947	39,527	52,945	50,451	55,666	56,830	57,075
102 Arizona State University	30,699	35,215	38,947	37,700	41,359	53,905	49,935	56,616
103 Tulane University	42,354	60,837	49,720	49,708	52,924	50,779	52,080	55,669
104 Rockefeller U, The	39,990	38,993	37,369	43,979	43,845	45,010	45,211	55,362
105 U of Alaska Fairbanks	40,770	37,285	30,351	28,127	31,505	34,647	46,605	55,287
106 U of South Carolina	37,918	44,292	51,269	37,005	42,586	48,490	51,872	51,983
107 George Washington U	24,379	28,031	30,490	34,182	45,072	49,944	49,627	51,757
108 U of MA Amherst	32,730	32,126	37,969	40,925	43,196	39,877	44,712	49,576
109 University of Vermont	33,695	32,932	31,521	34,042	31,460	36,085	39,861	48,810
110 Washington State U	45,691	49,043	48,807	45,030	44,510	44,610	48,441	48,660
Total, 1st 110 institutions	10,742,081	11,282,308	11,652,063	12,062,533	12,827,495	13,676,935	14,867,194	16,264,135
111 Clemson University	24,133	28,734	28,109	28,092	28,199	27,064	31,304	48,560
112 SUNY at Albany	23,607	24,468	48,395	41,190	33,894	46,242	62,059	46,671
113 U of New Hampshire	25,032	21,072	23,305	24,128	25,913	30,586	38,921	45,223
114 U of Nebraska at Lincoln	35,471	36,897	32,352	41,269	41,888e	36,977	37,831	43,877
115 U of Rhode Island	33,025	33,927 i	34,829 i	35,733	33,308	36,207	38,538	43,161
116 University of Delaware	26,250	27,352	29,509	32,031	33,688	34,628	37,716	41,830
117 Temple University	27,140	28,303	28,720	26,374	28,793	29,734	38,213	41,643
118 Naval Postgrad School	26,225	27,155	29,873	31,618	33,308	33,308e	36,476 i	40,121 i
119 Auburn University	27,747	27,544	31,401	27,412	27,706	27,058	31,515	40,097
120 Rush University	14,831	18,124	22,480	24,382	28,444	31,119	32,573	37,301
Total, 1st 120 institutions	11,005,542	11,555,884	11,961,036	12,374,762	13,142,636	14,009,858	15,252,340	16,692,619
121 Rice University	25,672	26,429	33,238	37,935	34,772	35,012	35,144	35,682
122 Montana St U Bozeman	15,738	17,233	17,667	19,707	23,982	26,231	30,564	34,857
123 U of Arkansas Medical Sci	13,410	16,117	16,796	19,249	21,857	26,392	29,962	34,219
124 University of Dayton	39,994	37,842	34,413	36,196	36,329	30,755	31,717	34,102
125 Kansas State University	21,547	25,266	24,769	25,781	27,001	28,102	31,185	33,998
126 University of Oregon	22,204	23,789	26,411	26,020	27,041	27,336	30,793	32,232
127 U of Nevada Reno	18,799	21,377	20,971	20,813	20,383	24,587	26,267	31,386
128 U of Alabama Huntsville	21,583	25,417	26,141	21,731	23,772	25,166	25,939	30,625
129 U Mississippi, All Camp	15,836	17,466	15,571	15,696	16,463	9,952	28,107	30,108
130 Syracuse University	19,309	19,341	18,361	23,780 i	29,200	30,050	29,620	30,036
Total, 1st 130 institutions	11,219,634	11,786,161	12,195,374	12,621,670	13,403,436	14,273,441	15,551,638	17,019,864
131 Brandeis University	21,585	22,741	23,233	25,233	28,098	29,423	26,444	30,031
132 University of Notre Dame	16,358	17,424	18,886	19,173	23,053	23,614	27,362	29,801
133 West Virginia University	34,622	30,258	30,800	29,443	24,985	26,264	28,013	29,440
134 U CA Santa Cruz	23,802	26,043	31,727	24,005	29,881	25,084	25,959	29,201
135 Saint Louis University	18,120	19,351	21,483	23,218	23,341	23,722	26,453	28,117
136 Howard University	15,196	21,137	26,253	25,884	21,501	21,658	25,292	27,848
137 C R Drew U of Med & Sci	7,674	10,500	15,288	16,052e	16,052e	22,212	21,969	27,415
138 University of Idaho	16,586	18,239	16,481	17,416 i	18,352	24,263	23,014	26,548
139 Loyola U of Chicago	23,587	20,209 i	16,831	14,771	17,685	17,588	20,695	26,474
140 George Mason University	12,679	14,939	16,430	14,652	17,268	19,492	20,669	25,992
Total, 1st 140 institutions	11,409,843	11,987,002	12,412,786	12,831,517	13,623,652	14,506,761	15,797,508	17,300,731
141 Rensselaer Polytech Inst	22,090	24,250	24,748	22,785	21,774	22,803	25,555	25,894
142 U CA Riverside	23,743	25,127	27,727	24,006	22,999	19,994	21,085	25,713
143 Oklahoma State University	20,440	18,951	25,034	21,455	23,220	23,179	24,770	25,636
144 University of Louisville	9,274	9,782	13,306	13,521	15,067	15,536	17,713	25,116
145 Florida International U	10,936	13,030	13,415	13,828	14,243	15,757	20,296	23,940
146 U of Maine	11,386	15,789	16,211	15,066	13,028	19,163	24,412	23,873
147 U of MD Baltimore County	6,080	7,131	8,135	9,816	12,618	15,624	20,244	23,695
148 San Diego St University	12,268	16,436	17,181	20,237	19,721	19,724	22,802	23,621
149 Northeastern University	16,037	17,113	14,706	16,321	21,454	22,776	26,916	23,532
150 U of Arkansas Main	16,040	17,231	16,019	15,772	16,156	15,851	20,778	23,172
Total, 1st 150 institutions	11,558,137	12,151,842	12,589,268	13,004,324	13,803,932	14,697,168	16,022,079	17,544,923

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
151 Texas Tech University	11,360	11,450	13,013	14,901	17,481	20,242	21,480	22,967
152 MCP Hahnemann U	26,324	23,905	27,723	48,062	61,102	17,281	27,379	22,944
153 SUNY Hlth Sci Ctr Brklyn	16,695	18,374	18,685 i	18,996	18,318	21,053	22,860	22,860e
154 Jackson State University	4,220	4,461 i	4,702	3,960	5,326	7,925	10,690	22,750
155 U of Nebraska Med Ctr	12,256	13,375	14,029	13,990	15,663	17,167	19,878	22,497
156 Florida A&M University	20,730	19,430	20,118	22,547	15,726	20,693	16,278	22,477
157 U of Central Florida	16,549	20,077	18,714	13,361	13,502	16,048	13,801	22,342
158 University of Alabama, The	11,482	12,236	12,238	13,118	14,909	17,601	19,486	22,183
159 Desert Research Institute	15,272	15,867	14,600	13,900	15,400	16,552	19,923	22,018
160 University of Houston	22,830	22,633	25,448	21,695	22,018	20,443	21,365	21,876
Total, 1st 160 institutions	11,715,855	12,313,650	12,758,538	13,188,854	14,003,377	14,872,173	16,215,219	17,769,837
161 Medical Col of Georgia	9,121	11,007	11,338	11,904	13,127	13,991	15,210	21,116
162 Loma Linda University	5,082	5,416	5,878	8,061	7,834	12,217	18,811	20,494 i
163 Drexel University	11,006	9,444	11,613	10,545	10,929	12,914	14,292	20,159
164 Boston College	7,938	9,990	11,137	11,207	12,778	14,492	16,673	20,123
165 University of Wyoming	15,115	15,373	14,991	15,003	17,806	19,109	16,556	20,017
166 U PR Med Sci Campus	11,973	12,433	12,191	12,978	11,843	13,971	16,657	19,433
167 Univ of Montana, The	8,675	10,149	11,591	11,554	11,748	14,627	18,378	19,194
168 NJ Inst of Technology	12,572	15,109	20,561	21,287	21,127	21,127	17,381	18,530
169 TX A&M U Sys Hlth Sci Ctr	--	--	--	--	--	--	14,321	18,384
170 New York Medical College	14,913	13,778	11,657	11,866	13,639	14,029	17,975	18,344
Total, 1st 170 institutions	11,812,250	12,416,349	12,869,495	13,303,259	14,124,208	15,008,650	16,381,473	17,965,631
171 Morehouse School of Med	6,663	6,996	11,747	12,099	12,461	12,948	15,419	18,127
172 U Southern Mississippi	7,291	7,500	7,587	7,766	9,536	14,124	15,084	18,061
173 Michigan Tech University	10,984	12,807	12,603	12,941	13,938	16,107	16,650	17,620
174 U TX at El Paso	9,085	9,511	10,471	12,873	10,758	18,292	16,416	16,167
175 U of North Dakota	16,660	16,157	23,976	17,775	13,404	13,615	13,880	15,743
176 U of Nevada Las Vegas	9,543	10,464	11,142	9,221	9,713	10,248	13,815	15,681
177 Wright State University	9,624	9,619	9,502	10,001	10,832	12,365	12,543	15,417
178 Col of William & Mary	10,426	11,731	13,020	10,911	11,097	11,892	13,031	15,288
179 Old Dominion University	7,888	7,968	9,266	10,736	12,346	13,706	14,908	15,280
180 North Dakota State U	10,877	11,684	11,683	6,432	9,787	12,308	15,463	15,207
Total, 1st 180 institutions	11,911,291	12,520,786	12,990,492	13,414,014	14,238,080	15,144,255	16,528,682	18,128,222
181 Clark Atlanta University	11,025	15,821	25,345	25,943	24,079	12,116	16,170	14,354
182 San Jose State University	11,825 i	11,825 i	11,825 i	11,825 i	11,825e	11,825e	11,825e	14,301
183 Florida Atlantic U	6,797	9,643	6,500	7,653	9,582	11,036	12,359	14,099
184 OGI Schl Sci & Eng OHSU	10,458	11,512	11,215	14,282	14,996e	15,303	13,743	14,072
185 Lehigh University	15,363	21,410	22,409	14,882	13,019	13,161	12,726	13,961
186 Georgia State University	6,771	6,277	5,818	7,544	11,284	14,310	12,090	13,575
187 Catholic U of America	6,058	6,467	5,901	6,910	7,161	11,064	7,680	13,308
188 NM Inst Mining & Tech	7,582	8,447	7,205	10,496	8,959	10,719	8,652	13,255
189 CUNY City College	13,585	15,512	16,169	15,221	14,437	12,393	13,059	13,022
190 Ohio University	5,836	7,587	8,046	9,790	10,323	10,544	11,695	12,898
Total, 1st 190 institutions	12,006,591	12,635,287	13,110,925	13,538,560	14,363,745	15,266,726	16,648,681	18,265,067
191 Colorado School of Mines	8,161	8,847 i	9,534	9,330	8,694	10,704	11,995	12,314
192 U of LA Lafayette	1,998	2,307	2,936	4,699	5,834	9,430	12,164	12,130
193 U MD Ctr for Environ Sci	5,452	5,952	5,998	6,240	7,440	8,116	10,805	12,105
194 NC A&T State University	10,132	12,501	12,521	13,362	12,924	12,454	11,187	11,937
195 U of Missouri Rolla	6,472	5,834	7,542	8,080	7,934	8,731	9,804	11,929
196 Brigham Young University	8,126	8,615	8,752e	9,223 i	9,694	11,414	10,378	11,659
197 Eastern VA Med School	10,162	9,824	10,203	10,618	9,449	11,354	12,114	11,389
198 Med Col of Ohio	8,726	9,243	9,559	9,766	8,107	9,219	9,944	11,362
199 Portland State University	4,377	4,659	5,675	5,960	6,881	9,313	11,217	11,341
200 U of MA Lowell	7,281	8,097	10,257	11,560	12,259	10,354	9,905	11,196
Total, 1st 200 institutions	12,077,478	12,711,166	13,193,902	13,627,398	14,452,961	15,367,815	16,758,194	18,382,429

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
201 U of WI-Milwaukee	7,977	7,749	8,026	8,156	8,936	9,190	8,425	11,089
202 U MD Biotechnology Inst	6,079	7,037	7,529	8,719	11,789	13,911	11,157	11,053
203 Univ of Memphis, The	4,027	4,565	4,954	5,413	5,849	6,364	11,177	11,012
204 CUNY Hunter College	7,156	6,152	6,083	6,895	6,414	7,526	8,650	10,922
205 Illinois Inst of Tech	6,738	9,119	11,183	11,668	9,946	9,777	10,926	10,917
206 S Illinois U Carbondale	9,931	10,100	8,836	8,632	7,801	7,660	10,130	10,868
207 SUNY Upstate Med U	6,555	6,854	6,764	7,188	6,487	7,889	8,461	10,824
208 U Houston Clear Lake	4,582 i	3,753 i	2,924 i	2,095 i	1,266	5,387	6,383	10,629
209 Tennessee State U	6,031	6,478	7,983	7,569	7,978	8,522	8,873	10,210
210 Unif Svcs U of Hlth Sci	18,124	25,858	24,621	9,218	7,547	9,696	11,023	10,105
Total, 1st 210 institutions	12,154,678	12,798,831	13,282,805	13,702,951	14,526,974	15,453,737	16,853,399	18,490,058
211 Meharry Medical College	10,154	10,208	11,004	11,004e	11,004e	9,192	9,192e	10,015 i
212 Northern Arizona U	5,614	6,469	6,938	8,176	6,812	7,111	7,842	9,616
213 U TX at Arlington	4,637	8,692	14,804	26,829	11,294	6,089	5,106	9,413
214 University of Denver	6,144	9,877	7,415	7,888	9,385	9,081	7,439	9,248
215 Mercer University	11,115	9,178	10,832	10,741	12,043	12,657	11,350	9,076
216 U PR Mayaguez Campus	9,369	18,048	19,568	21,052	21,903	23,784	11,837	9,015
217 University of Akron	4,016	4,231	4,793	5,146	4,042	7,140	7,081	8,672
218 CA St U Los Angeles	2,700 i	2,253 i	1,806 i	1,359 i	912 i	463	8,344	8,632
219 Albany Medical College	8,344	8,686	6,691	5,632	6,545	7,437	7,691	8,562
220 South Dakota State U	5,711	5,622	5,500	5,650	5,812	6,086	7,448	8,456
Total, 1st 220 institutions	12,222,482	12,882,095	13,372,156	13,806,428	14,616,726	15,542,777	16,936,729	18,580,763
221 Hampton University	5,078	6,130	3,854	7,777	6,801	7,168	8,994	8,377
222 U of South Alabama	8,838	9,135	9,747	9,709	9,451	9,451e	8,276	8,276e
223 U of Missouri Kansas City	4,758	4,506	5,087	5,380	6,199	7,206	7,490	8,176
224 Kent State University	6,005	6,506	7,729	7,577	8,251	8,212	7,736	8,158
225 Stevens Inst of Tech	7,644	8,677	9,222	6,174	6,667	7,084	8,785	8,094
226 U TX at San Antonio	2,685	3,398 i	4,111	11,553	5,112	5,463	7,441	8,012
227 Alabama A&M University	8,954	8,075	8,249 i	8,423e	10,518	8,558	7,056	7,761 i
228 Alcorn State University	3,039	3,202 i	3,365	4,242 i	5,119	5,223	8,034	7,370
229 University of Tulsa	3,319	3,441	5,104	4,190	4,002	5,272	5,498	7,341
230 Creighton University	4,653	4,474	5,046	5,129	4,096	4,929	5,541	7,275
Total, 1st 230 institutions	12,277,455	12,939,639	13,433,670	13,876,582	14,682,942	15,611,343	17,011,580	18,659,603
231 Tuskegee University	6,694	7,200	8,231	29,930	26,894	6,942	6,694	7,259
232 U of NC Wilmington	4,554 i	4,440 i	4,326 i	4,212 i	4,098	4,431	5,336	7,242
233 Prairie View A&M U	5,693	6,284	10,325	9,315	9,612	8,675	7,679	7,094
234 Southern U A&M All Camp	4,620	7,480	7,724	7,774	6,983	6,689	6,418	7,059 i
235 U TX at Dallas	7,224	6,404 i	5,583	6,719	8,115	7,700	7,049	7,049e
236 Embry-Riddle Aero Univ	1,578 i	1,542 i	1,506 i	1,470 i	1,432	1,432e	1,551e	6,987
237 University of Toledo	3,505	3,187	3,506e	2,937	5,366	5,682	6,312	6,701
238 U Ctrl Del Caribe Esc Med	1,664	2,387	2,353	2,072	3,208 i	4,345	5,347	6,622
239 U North TX Hlth Sci Ctr	4,045	3,985	4,847	5,273	5,645	5,370	5,799	6,562
240 SUNY at Binghamton	5,100	5,659	5,661	6,218	6,205	5,761	6,319	6,392
Total, 1st 240 institutions	12,322,132	12,988,207	13,487,732	13,952,502	14,760,500	15,668,370	17,070,084	18,728,570
241 Finch U Hlth Sci Chicago	5,214	4,789	5,209	5,022	5,022e	4,860	5,117	6,256
242 Western Michigan U	2,699	2,753	3,336	3,618	4,023	4,165	4,584	6,192
243 Cal Poly St U	1,372 i	2,015 i	2,658 i	3,301 i	3,948	7,673	7,605	6,153
244 U PR Rio Piedras Campus	3,660	3,315	3,866	4,275	5,460	5,654	5,620	6,013
245 Marshall U	540	206	234	180	25	66	5,618	5,980
246 Wichita State University	1,752	2,551	2,196	2,602	2,646	3,260	5,228	5,726
247 U of MD Eastern Shore	1,128	1,880	1,980	2,187	2,265	2,508	3,895	5,626
248 Teachers Col, Columbia U	190	226 i	262	560	2,900	4,119	5,613	5,617
249 Rochester Inst of Tech	2,478	1,731	2,545	2,523	2,339e	2,690	2,664	5,612
250 Southern Methodist U	4,984	4,352	6,007	4,543	4,836	6,387	6,302	5,587
Total, 1st 250 institutions	12,346,149	13,012,025	13,516,025	13,981,313	14,793,964	15,709,752	17,122,330	18,787,332

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
251 Western Illinois U	8,983	9,045	9,016	8,804	10,867	6,595	6,112	5,501
252 Oakland University	3,202	3,860	3,222	3,303	3,218	3,033	3,033e	5,318
253 East Carolina University	5,188	4,964	4,079	3,904	4,027	4,832	4,388	5,188
254 U of NC Charlotte	2,675 i	3,043 i	3,411 i	3,779 i	4,150	4,780	5,380	5,145
255 US Air Force Academy	2,371 i	2,786 i	3,201 i	3,616 i	4,033	3,699	4,505	5,009
256 U of MA Dartmouth	2,771	3,221	3,433	2,884	3,731	3,983	3,228	4,928
257 Winston Salem State U	780	797	1,246	1,874	1,898	1,619	3,216	4,853
258 U of West Florida	1,012 i	1,460 i	1,908 i	2,356 i	2,806	3,624	4,521	4,785
259 Xavier University of LA	4,176	8,979	5,106	5,473	5,355	3,240	3,174	4,666
260 San Francisco State U	3,909 i	3,854 i	3,799 i	3,744 i	3,689 i	3,630e	4,561e	4,561e
Total, 1st 260 institutions	12,381,216	13,054,034	13,554,446	14,021,050	14,837,738	15,748,787	17,164,448	18,837,286
261 Villanova University	1,061	1,362	1,390	1,471	2,470 i	3,470	4,035	4,520 i
262 Worcester Polytech Inst	9,584	8,552	6,967	7,315	5,230	4,292	4,219	4,506
263 SD Sch of Mines & Tech	2,903	3,369	3,278	2,990	3,221	3,300	4,127	4,417
264 SUNY Col Env Sci & Frstry	3,351	3,186 i	3,021	2,690	2,715	3,874	4,332	4,355
265 U of Missouri St Louis	2,559	2,840	3,349	3,650	3,975	4,841	4,523	4,321
266 Clarkson University	6,115	4,793	3,794	3,368	3,010	3,694	3,837	4,286
267 Northern Illinois U	6,238	5,764	4,809	3,460	3,344	3,727	3,603	4,264
268 Virginia State University	4,529	2,599	2,735	3,453	2,792	2,061	3,602	4,246
269 Tarleton State University	572	672	911	1,177	1,483	1,623	1,426	4,094
270 Polytechnic University	6,872	6,863	6,329	3,485	2,843	4,595	8,200	4,063
Total, 1st 270 institutions	12,425,000	13,094,034	13,591,029	14,054,109	14,868,821	15,784,264	17,206,352	18,880,358
271 Cleveland State U	4,620	3,457	3,522 i	3,588e	3,696e	3,655e	3,318	3,986
272 Boise State University	1,452	1,597	1,875	1,932	1,892	2,595	2,151	3,962
273 Norfolk State University	671	1,256	2,187	1,388	2,442	2,970	3,273	3,952
274 Wesleyan University	2,710	2,651	3,889	3,731	3,570	3,640	4,058	3,893
275 Southwest Texas St Univ	1,944 i	1,737 i	1,530 i	1,323 i	1,116	1,871	3,519	3,854
276 Idaho State University	1,489	1,471	2,054	1,128	5,200	1,258	3,723	3,837
277 Ponce School of Medicine	2,874	3,150	4,212	2,607	2,783 i	2,960	3,257	3,736
278 Kentucky State University	2,665	2,920	2,761	2,139	703	703e	2,179 i	3,655
279 East Tennessee State U	1,026	830	738	714	1,368	1,400	2,768	3,572
280 U of South Dakota	1,357	1,632	2,350	2,239	2,669	3,373	2,084	3,534
Total, 1st 280 institutions	12,445,808	13,114,735	13,616,147	14,074,898	14,894,260	15,808,689	17,236,682	18,918,339
281 CUNY Queens College	1,663	2,023	1,365	1,637	2,323	1,884	2,604	3,484
282 Wellesley College	1,537	1,568	2,533	2,304	2,304e	2,684 i	3,064 i	3,446
283 University of Guam	1,946 i	2,011 i	2,076 i	2,141 i	2,206	2,242	3,165	3,355
284 Miami University (OH)	2,789	2,314	2,633	2,876	2,687	3,302	2,674	3,324
285 Marquette University	2,640	2,394	2,270	2,421	3,510	3,416	3,085	3,309
286 Western Kentucky Univ	1,037 i	1,560 i	2,083 i	2,606 i	3,130	2,287	2,711	3,294
287 Spelman College	954	1,277	988	1,282	1,700	1,832	1,978	3,262
288 CA St U Northridge	1,569 i	1,504 i	1,439 i	1,374 i	1,309	2,324	3,182	3,182e
289 US Naval Academy	5,019 i	4,398 i	3,777 i	3,156 i	2,534	2,234	2,770	3,140
290 U of LA at Monroe, The	1,600	1,724	1,573	2,308	1,466	2,824	2,824e	3,106 i
Total, 1st 290 institutions	12,466,562	13,135,508	13,636,884	14,097,003	14,917,429	15,833,718	17,264,739	18,951,241
291 Inst of Paper Sci & Tech	1,629	2,341	3,043 i	3,746e	3,746e	3,398e	3,398e	2,947
292 Humboldt State University	1,460 i	1,641 i	1,822 i	2,003 i	2,185	2,629	2,629e	2,945 i
293 University of North Texas	2,858	3,696	3,492	3,703	2,621	2,617	3,618	2,915
294 U Arkansas Pine Bluff	2,341	3,661	2,747	2,838	2,911	2,911e	2,911 i	2,911 i
295 CA St U Long Beach	4,712 i	4,859 i	5,013	5,013e	8,471 i	11,929	12,964	2,910
296 Langston University	1,929	2,661	2,521	1,828	2,031	2,340	2,553	2,863
297 U of Alaska Anchorage	0 i	0 i	0 i	0 i	0e	2,537	2,537e	2,842 i
298 Texas Christian U	2,600	1,972	2,159	2,541	2,493	3,257	2,441	2,824
299 U of NC Greensboro	1,971	2,172	1,730	1,581	1,829	1,535	1,535e	2,803
300 CUNY Brooklyn College	1,138	1,666	1,408	1,492	1,574e	2,228	2,866	2,776
Total, 1st 300 institutions	12,487,200	13,160,177	13,660,819	14,121,748	14,945,290	15,869,099	17,302,191	18,979,977

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
301 U of Nebraska at Omaha	591 i	675 i	759 i	843 i	931	2,153	2,403	2,712
302 West Texas A&M U	42 i	59 i	76 i	93 i	114	93	140	2,681
303 MT Tech of the U of MT	1,783 i	2,029 i	2,275 i	2,521 i	2,767 i	3,014	2,744	2,617
304 Florida Inst of Tech	1,654	2,213	2,980	2,292	2,152	2,735	2,980	2,614
305 Clark University	2,301	1,910	1,756	2,134	1,660	2,651	1,652	2,605
306 CA St U Dominguez Hills	1,090 i	1,658 i	2,226 i	2,794 i	3,362 i	3,932	909	2,578
307 Fisk University	1,514	1,741 i	1,969	1,969e	2,909	2,846	2,652	2,577
308 U of MA Boston	2,382	2,454	2,706	3,075	3,160	2,951	3,378	2,546
309 CA St Poly U Pomona	943 i	968 i	993 i	1,018 i	1,043 i	1,069	1,703	2,498
310 Fort Valley State U	2,591	2,936	2,338	2,471	2,359	2,318	2,417	2,417e
Total, 1st 310 institutions	12,502,091	13,176,820	13,678,897	14,140,958	14,965,747	15,892,861	17,323,169	19,005,822
311 Bowling Green State U	2,317	2,347	2,391 i	2,436	2,029	1,847	1,847e	2,395
312 Morgan State University	3,423	3,557 i	3,691 i	3,825 i	3,960	1,066	4,371	2,390
313 Texas A&M Corpus Chri	--	--	--	--	--	--	1,363	2,357
314 Lincoln University	2,869	2,702	2,681	2,584	2,635 i	2,686	2,502	2,236
315 Delaware State University	3,686	999	1,787	1,833	2,734	2,055	3,052	2,222
316 Lamar University	2,320	1,549	1,451	1,169	2,307	2,914	2,330	2,217
317 Grambling State U	155	145	1,450	2,630	1,936	1,936e	2,200	2,200e
318 Savannah State Univ	128	214	317	316	331 i	513	905	2,181
319 U of AR at Little Rock	--	--	--	--	--	--	3,400e	2,088
320 NE Ohio Univ Col of Med	1,136	1,459	1,068	1,530	1,430	1,693	2,002	2,072
Total, 1st 320 institutions	12,518,125	13,189,792	13,693,733	14,157,281	14,983,109	15,907,571	17,347,141	19,028,180
321 CUNY H H Lehman Col	1,130	1,011 i	891	927e	1,071 i	1,216	1,444	2,048
322 Bowie State University	937	93	49	2,672	4,403	2,360	2,360e	2,022
323 University of DC	1,811e	1,784 i	1,756	1,756e	1,898	1,829	1,629	2,008
324 American University	3,052	2,807	2,864	2,672	3,163	2,735	1,886	1,999
325 College of Charleston	758 i	999 i	1,240 i	1,481 i	1,724	1,553	1,607	1,988
326 South Carolina State U	2,739	2,325 i	1,910	1,948	1,968	1,978	1,988	1,988e
327 Fordham University	1,304	1,327	1,421	1,472	769	1,725	2,101	1,980
328 Duquesne University	712	832	618	711	867	1,531	1,902	1,969
329 Claflin College	103	290	474	1,074	1,028	250	250e	1,958
330 U of the Virgin Islands	1,653	2,040 i	2,428	2,428e	2,428e	1,957	1,957e	1,957 i
Total, 1st 330 institutions	12,532,324	13,203,300	13,707,384	14,174,422	15,002,428	15,924,705	17,364,265	19,048,097
331 Texas Southern U	2,353	3,474	3,474	3,707	2,504	2,292	1,844	1,908
332 Louisiana Tech University	505	950 i	1,395 i	1,840 i	2,287	2,287e	631	1,856
333 New Mexico Highlands U	1,459	1,902 i	2,345	2,446 i	2,547 i	2,648	3,747	1,849
334 Morehouse College	730	793	591	591e	591e	1,843	1,843e	1,843 i
335 Texas A&M Univ Kingsville	1,190 i	1,361 i	1,532 i	1,703 i	1,874	1,771	2,179	1,828
336 Sam Houston State U	1,694	3,094 i	4,495	4,974	2,527	3,225	2,128	1,802
337 Gallaudet University	2,779 i	2,614 i	2,449 i	2,284 i	2,119	2,264	1,682	1,768
338 Nova Southeastern U	885	711	861	1,003	1,500	2,637	2,060	1,750
339 Eastern Michigan U	489 i	570 i	651 i	732 i	813 i	895	1,213	1,745
340 Air Force Inst of Tech	2,426	2,229	2,291	4,212	2,228	1,540	5,371	1,671
Total, 1st 340 institutions	12,546,834	13,220,998	13,727,468	14,197,914	15,021,418	15,946,107	17,386,963	19,066,117
341 E Washington Univ	804 i	804 i	804 i	804 i	804e	1,244	1,366	1,668
342 Ithaca College	315 i	504 i	693 i	882 i	1,075	1,607	2,131	1,653
343 Illinois State University	2,347	2,632	2,110	2,420	2,468e	2,057	2,108	1,638
344 Alliant University	--	--	--	--	--	--	--	1,578e
345 University of New Haven	134	203 i	272	188 i	104 i	19	19e	1,492
346 CUNY Grad Ctr	2,341	2,709 i	3,077 i	3,445	3,573	515	532	1,489
347 Rose-Hulman Inst of Tech	234 i	336 i	438 i	540 i	642 i	748	420	1,457
348 Chicago State University	1,237	717	739	738	696	1,254	1,248	1,356
349 Central Washington U	571 i	692 i	813 i	934 i	1,055 i	1,179	1,426	1,337
350 Mississippi Valley St U	319	471	586	563	350	495	834	1,316
Total, 1st 350 institutions	12,555,136	13,230,066	13,737,000	14,208,428	15,032,185	15,955,225	17,397,047	19,081,101

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
351 W Washington Univ	1,293 i	1,456 i	1,619 i	1,782 i	1,954	2,004	1,548	1,300
352 U of TX Pan American	1,011 i	1,066 i	1,121 i	1,176 i	1,233	1,068	1,135	1,288
353 CA St U Fullerton	1,028 i	1,028 i	1,028 i	1,028 i	1,028e	1,028 i	1,148 i	1,286 i
354 CA St U Monterey Bay	--	--	--	--	--	--	--	1,285
355 Middlebury College	580 i	601 i	622 i	643 i	664 i	688	1,371	1,285
356 Barnard College	1,031	813	678	685e	1,038	1,008	1,198	1,269
357 Le Moyne-Owen Coll	--	--	--	--	1,404	1,031	1,700	1,250
358 Alabama State University	1,026	970	970	787	1,133	1,190	1,190e	1,249e
359 Elizabeth City State U	241	497 i	753	1,146	575	1,040	1,558	1,248
360 Maharishi U of Mgmt	776	640	0	0	0	0	1,213	1,213
Total, 1st 360 institutions	12,562,122	13,237,137	13,743,791	14,215,675	15,041,214	15,964,282	17,409,108	19,093,774
361 U of Central Arkansas	--	--	--	--	--	--	820	1,189
362 Texas Woman's University	714	882	1,006	1,304	1,485	1,306	1,440	1,185
363 New England Col of Opt	120	0	437	715	1,020	1,118	950	1,179
364 Ball State University	696	820	1,459	1,329	959	835	873	1,177
365 Alfred University	859	1,004	600	445	1,348	1,491	1,227	1,166
366 Harvey Mudd College	465 i	578 i	691 i	804 i	917 i	1,032	1,032e	1,156 i
367 DePaul University	868	856	842	926	822	571	478	1,142
368 St Joseph's Univ	200 i	265 i	330 i	395 i	462	185	797	1,130
369 CUNY Col Staten Island	652	503	557	559	739	595	858	1,128
370 Tennessee Tech U	1,208	1,182	1,250	1,205	1,065	1,222	1,452	1,124
Total, 1st 370 institutions	12,567,904	13,243,227	13,750,963	14,223,357	15,050,031	15,972,637	17,419,035	19,105,350
371 Bucknell University	355 i	419 i	483 i	547 i	611 i	679	754	1,106
372 St Cloud State Univ	353 i	511 i	669 i	827 i	987	987e	987e	1,106 i
373 New School University	616	682 i	748 i	814	773	1,069	873	1,083
374 SUNY Col Old Westbury	412	517	510	743	767	485	1,067	1,067e
375 Claremont Graduate U	293	201	256	259	123	384	798	1,024
376 Benedict College	925	740 i	552 i	552 i	745 i	938 i	1,143	1,014
377 Mount Holyoke College	597 i	630 i	663 i	696 i	733	975	1,135	1,004
378 Hampshire College	586	775 i	964 i	1,155	1,264	662	872	998
379 U of Northern Colorado	177	196	470	702	609e	526	982	994
380 SUNY Col of Optometry	258	130	327	268	386	755	698	993
Total, 1st 380 institutions	12,572,476	13,248,028	13,756,605	14,229,920	15,057,029	15,980,097	17,428,344	19,115,739
381 Haverford College	584	496	635	933	820	937	1,000	989
382 CA St U Chico	270	295	107	1,090	1,497	850	450	961
383 Stephen F Austin St U	441	985	1,684	2,285	1,125	776	521	959
384 St John's University (NY)	862	941	1,227	1,230	916	1,177	938	938e
385 Bethune Cookman College	358	0	333	472	566	583	586	926
386 CUNY York College	819	882	903	1,271	1,480	1,372	1,317	923
387 Long Island University	145	77	14	700	1,197	1,116	1,044	919
388 James Madison University	513 i	565 i	617 i	669 i	722	763	712	890
389 U of WI-La Crosse	141	601	748	510	562	686	1,001	871
390 Bryn Mawr College	1,294	1,411	1,039	871	910	764	978	855
Total, 1st 390 institutions	12,577,903	13,254,281	13,763,912	14,239,951	15,066,824	15,989,121	17,436,891	19,124,970
391 North Carolina Central U	409	813	804 i	795 i	786 i	777e	761 i	853 i
392 Amherst College	1,004 i	969 i	934 i	899 i	861	726	999	849
393 Georgia Southern U	787 i	796 i	805 i	814 i	823 i	833	944	841
394 Bates College	101	285	387	306	411	576	463	827
395 Seton Hall University	3,072	1,214e	1,228 i	1,243e	1,243	1,116	996	826
396 U of WI-Stout	835	741	881	774	986	782	880	816
397 University of Richmond	718	288	464	588	781	812	849	815
398 Occidental College	1,513 i	1,513 i	1,513 i	1,513 i	1,513e	297	545	812
399 Smith College	627	661 i	695 i	730	634	240	774	812
400 Albany Col of Pharmacy	--	--	--	--	--	--	839	806
Total, 1st 400 institutions	12,586,969	13,261,561	13,771,623	14,247,613	15,074,862	15,995,280	17,444,941	19,133,227

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
401 Dickinson College	--	--	--	--	1,168	653	390	806
402 Murray State University	309	284	362	422	554	388	629	778
403 Trinity University	831 i	804 i	777 i	750 i	723 i	692	746	746e
404 Albany State University	675	675 i	675e	675e	1,019	1,019e	840	740
405 Coastal Carolina U	--	--	--	--	--	--	1,051	736
406 CUNY John Jay Col Cr Just	164	141	579	565	912	951	779	733
407 Kirksville Col Osteo Med	478	715	482	381	329	311	542	731
408 U of North Florida	--	--	--	--	--	--	--	731
409 CUNY Medger Evers Col	--	--	--	--	--	--	258	714
410 Macalester College	198 i	271 i	344 i	417 i	490 i	563 i	636 i	713
Total, 1st 410 institutions	12,589,624	13,264,451	13,774,842	14,250,823	15,080,057	15,999,857	17,450,812	19,140,655
411 SUNY Col at Plattsburgh	629	625	740	692	802	432	610	712
412 Colgate U	--	--	--	--	--	--	917	708
413 U of Southern Colorado	1,131	1,264	959	616	538	642	370	707
414 West Chester U of PA	945	1,017	271	148	462	547	697	697e
415 PA College of Optometry	447 i	415 i	383 i	351 i	319 i	283	525	695
416 Towson University	146	178	148	170	268	1,028	846	694
417 Carleton College	346 i	356 i	366 i	376 i	386 i	398	760	693
418 Hope College	579 i	638 i	697 i	756 i	815 i	879	602	692
419 Swarthmore College	582	538	661	511	586	586e	586e	691
420 Pomona College	440 i	425 i	410 i	395 i	376	654	678	679
Total, 1st 420 institutions	12,594,869	13,269,907	13,779,477	14,254,838	15,084,609	16,005,306	17,457,403	19,147,623
421 CA St U San Bernardino	138 i	168 i	198 i	228 i	258	697	880	676
422 Loyola College	1,564	1,359	981	833	1,191	1,397	1,513	675
423 U of Houston Downtown	890 i	880 i	870 i	860 i	850 i	838	660	660e
424 Southern U New Orleans	--	--	--	--	--	--	60e	652
425 State U of West Georgia	162 i	285 i	408 i	531 i	654 i	777 i	900	634
426 Santa Clara University	422e	439 i	450 i	479 i	506 i	533 i	574 i	625 i
427 Lincoln University (PA)	502	818 i	1,135	949	1,364	972	709	620
428 Franklin & Marshall Coll	573 i	610 i	647 i	684 i	723	348	604	599
429 Sonoma State University	--	--	--	--	145	16	33	597
430 Union College (NY)	194	538	610	343	126	608	553	587
Total, 1st 430 institutions	12,599,314	13,275,004	13,784,776	14,259,745	15,090,426	16,011,492	17,463,889	19,153,948
431 CA St U Fresno	833 i	1,016 i	1,199 i	1,382 i	1,565 i	1,749e	1,823	585
432 Bennett College	105	111	93 i	93e	583	583e	583 i	583 i
433 SUNY Col at Oswego	638	595 i	551	459	480	478	587	578
434 University of Hartford	148	300	41	27	124	299	629	578
435 Midwestern University	465	458	613	756	491	443	467	542
436 Virginia Union University	--	--	--	--	537	537e	537 i	537 i
437 Baylor University	368	502	433	615	522	522e	353	516
438 Calvin College	269 i	276 i	283 i	290 i	297 i	306	270	514
439 Pittsburg State U	0	0	30	69	229	94	247	514
440 Augsburg College	616 i	554 i	492 i	430 i	368 i	303	337	497
Total, 1st 440 institutions	12,602,756	13,278,816	13,788,511	14,263,866	15,095,622	16,016,806	17,469,722	19,159,392
441 Radford University	--	--	--	--	103	115	444	492
442 University of the Pacific	60	970	860	1,755	254	844	546	489
443 Evergreen State Coll	323 i	358 i	393 i	428 i	463 i	498 i	537	487
444 Furman University	200	480	475	533	315	208	524	487
445 US Coast Guard Academy	308 i	306 i	304 i	302 i	300	300	405	466
446 Montclair State U	76 i	87 i	98 i	109 i	120 i	131 i	146	465
447 CA St U Bakersfield	258 i	225 i	192 i	159 i	126 i	92e	459	459e
448 Indiana U of PA All Cmp	159	283	520	491	491e	354	544	453
449 Oakwood College	161	300	371	716	690	447	447e	447 i
450 College of the Holy Cross	307	379	1,245	265	251	151	142	446
Total, 1st 450 institutions	12,604,608	13,282,204	13,792,969	14,268,624	15,098,735	16,019,946	17,473,916	19,164,083

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
451 Southwest Missouri St U	368 i	425 i	482 i	539 i	596	484	484e	443
452 Youngstown State Univ	173 i	256 i	339 i	422 i	508	144	191	425
453 Milwaukee School of Eng	50 i	90 i	130 i	170 i	211	269	306	420
454 Allegheny College	257 i	256 i	255 i	254 i	253 i	252	88	412
455 Tougaloo College	745	806 i	867 i	929	657	767	473	407
456 St Olaf College	219 i	259 i	299 i	339 i	379 i	424	530	403
457 Hofstra University	1,786	2,218	192	319	319	659	649	402
458 University San Francisco	437 i	390 i	343 i	296 i	249 i	200e	400	400e
459 Phila Col Osteopathic Med	304	238	91	95	57	99	392	395
460 Grand Valley State U	10	0	30	42	92	309	368	392
Total, 1st 460 institutions	12,608,957	13,287,142	13,795,997	14,272,029	15,102,056	16,023,553	17,477,797	19,168,182
461 U of NC Asheville	274 i	262 i	250 i	238 i	226 i	213	227	386
462 Hamilton College	359 i	359 i	359 i	359 i	359e	414 i	469	382
463 U of Health Sci, The (MO)	0	163	180	162	305	305e	0	380
464 U of Northern Iowa	565	1,099	712	588	496	344	378	380
465 Western Carolina U	114	116	95	218	277	300	354	362
466 Lafayette College	285 i	287 i	289 i	291 i	295	354	331	353
467 U of WI-Parkside	220	174	112	132	119	108	212	352
468 SUNY Col at Geneseo	194	101	251	218	229	183	389	350
469 SUNY Col at Brockport	234	231e	288	264	349	308	344	344e
470 Southeastern Louisiana U	155 i	233 i	311 i	389 i	467 i	550	629	342
Total, 1st 470 institutions	12,611,357	13,290,167	13,798,844	14,274,888	15,105,178	16,026,632	17,481,130	19,171,813
471 SUNY Col at Buffalo	1,095	1,029	1,786	1,207	1,054	1,167	577	338
472 Spalding University	5	15	0	0	176	0	441	331
473 U of WI-Green Bay	143	218	215	238	238	240	267	328
474 Trinity College	331 i	370 i	409 i	448 i	487 i	529	326	326e
475 Whitman College	156 i	132 i	108 i	84 i	58	181	283	322
476 Arkansas State University	56 i	79 i	102 i	125 i	152	224	267	321
477 Vassar College	517 i	517 i	517 i	517 i	517e	419 i	321	321e
478 S Illinois U Edwardsville	303 i	289 i	275 i	261 i	244	147	200	311
479 Valparaiso University	293	262 i	231 i	200	259	500	275	308
480 Fayetteville State U	437	470 i	503 i	139	378	265	507	298
Total, 1st 480 institutions	12,614,693	13,293,548	13,802,990	14,278,107	15,108,741	16,030,304	17,484,594	19,175,017
481 Kennesaw State Univ	148	71	111	141	132	142	249	298
482 Middle Tennessee State U	44	55	119	107	127	319	478	296
483 Pace University All Cmp	0e	0	0	0	555	435	236	295
484 Manhattan College	709 i	614 i	519 i	424 i	327	70	293	293e
485 Central Michigan U	406	310 i	213	107 i	0	142	142e	291
486 University of Portland	59	92	119	127	55	105	235	291
487 McNeese State University	0	131	131e	25	256	611	512	290
488 U of WI-Eau Claire	396	224	242	325	395	338	219	288
489 Bradley University	183 i	295 i	407 i	519 i	632	218	146	286
490 Oberlin College	342 i	399 i	456 i	513 i	570 i	627 i	691	285
Total, 1st 490 institutions	12,616,980	13,295,739	13,805,307	14,280,395	15,111,790	16,033,311	17,487,795	19,177,930
491 Central State University	1,180	1,171 i	1,162 i	1,153 i	1,144	1,144e	283e	283 i
492 Appalachian State U	412	440	303	244	247	219	128	280
493 Reed College	371 i	357 i	343 i	329 i	315 i	300e	391	277
494 SUNY Col at Cortland	236	168	246	235	26	30	233	276
495 U of WI-Oshkosh	207	172	119	199	268	307	248	271
496 Kettering University	134 i	148 i	162 i	176 i	192	89	270	270
497 U of WI-Stevens Point	701	860	629	413	306	257	193	270
498 Indiana State University	367	369	532	669	592	368	251	269
499 Pitzer College	197	190 i	182	164	197	246	299	261
500 U of WI-Whitewater	92	197	233	171	145	106	223	255
Total, 1st 500 institutions	12,620,877	13,299,811	13,809,218	14,284,148	15,115,222	16,036,377	17,490,314	19,180,642

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
501 College of Wooster	179	191	172 i	153	244	318	276	249
502 U of Central Oklahoma	66 i	66 i	66 i	66 i	65	121	9	245
503 La Salle University	0	151 i	302	192	136	229	0	236
504 Wilberforce University	505	384	323	236	236e	236 i	236 i	236 i
505 Eastern Kentucky U	1,549 i	2,719 i	3,889 i	5,059 i	6,229 i	7,403	192	235
506 St Mary's Col of MD	--	--	--	--	--	--	378	233
507 John Carroll University	455 i	578 i	701 i	824 i	947 i	1,072	1,072e	232
508 Fort Lewis College	460	332	204	323	149	157	139	231
509 Lake Forest College	5 i	10 i	15 i	20 i	28	74	200	220
510 U of Detroit Mercy	1,339	1,213	950	877	494	310	314	219
Total, 1st 510 institutions	12,625,435	13,305,455	13,815,840	14,291,898	15,123,750	16,046,297	17,493,130	19,182,978
511 Southern Connecticut St U	240 i	212 i	184 i	156 i	128 i	100	215	215e
512 Lewis and Clark College	160 i	197 i	234 i	271 i	309	394	392	206
513 U of Sci in Philadelphia	250	300	342	269	162	162e	222	200
514 Dillard University	110	145	314	164	164e	164	182	199
515 Johnson C Smith U	1,803	1,083	1,083	1,546	4,299	8,659	250	195
516 Truman State University	58e	91 i	125	223	156	156e	174 i	195 i
517 Lawrence Tech Univ	46 i	47 i	48 i	49 i	51	57	121	194
518 St Mary's University	212 i	160 i	108 i	56 i	0	0	62	193
519 Rider University	--	--	--	--	--	--	225	189
520 Ohio Wesleyan University	260	250	444	340	106	185	185e	185 i
Total, 1st 520 institutions	12,628,574	13,307,940	13,818,722	14,294,972	15,129,125	16,056,174	17,495,158	19,184,949
521 University of San Diego	502	574	167	157	334	282	422	185
522 Grinnell College	117 i	117 i	117 i	117 i	117e	210	774	168
523 New York Inst Technology	174	41	30	28	38	92	114	166
524 Minnesota State, Mankato	224 i	261 i	298 i	335 i	372	164	175	165
525 Des Moines U Ost Med Ctr	327	0	0	0	2	309	134	164
526 Drake University	187 i	183 i	179 i	175 i	171 i	167	198	163
527 Abilene Christian Univ	206 i	196 i	186 i	176 i	162	114	165	162
528 Fairfield University	119 i	133 i	147 i	161 i	175 i	189 i	203	160
529 Pacific University	0	0	0	0	0	0	20	157
530 Southern Oregon Univ	122 i	161 i	200 i	241	230	205	253	154
Total, 1st 530 institutions	12,630,552	13,309,606	13,820,046	14,296,362	15,130,726	16,057,906	17,497,616	19,186,593
531 Knox College	393 i	370 i	347 i	324 i	301 i	278 i	254	153
532 East Stroudsburg U of PA	163 i	226 i	289 i	352 i	415 i	480	271	147
533 Colby College	84 i	86 i	88 i	90 i	93	121	83	146
534 U of Nebraska at Kearney	7 i	14 i	21 i	28 i	35 i	42 i	49	146
535 Andrews University	109	103	252	106	117	117e	87	145
536 Bowdoin College	325	290	388	137	213	154	228	140
537 Central Connecticut St U	77 i	86 i	95 i	104 i	113 i	122 i	137	138
538 U of Southern Maine	361 i	330 i	299 i	268 i	236	123	123e	138 i
539 Colorado College	86 i	91 i	96 i	101 i	106	47	145	136
540 Arkansas Tech Univ	45 i	47 i	49 i	51 i	55	137	92	130
Total, 1st 540 institutions	12,632,202	13,311,249	13,821,970	14,297,923	15,132,410	16,059,527	17,499,085	19,188,012
541 MA Col Phar Allied Hlth	0	0	0	0	0	0e	64 i	129
542 U of IL Springfield	--	--	--	--	--	--	182	126
543 Denison University	153 i	166 i	179 i	192 i	205 i	221	238	121
544 SUNY Col at Fredonia	55	148	144	100	93	52	120	121
545 Morris Brown College	927	3,796	2,422	525	525e	321 i	116	116e
546 Southeast Missouri St U	112 i	129 i	146 i	163 i	180 i	200e	173	108
547 Juniata College	41 i	59 i	77 i	95 i	113 i	135	105	107e
548 Salem International Univ	--	--	--	--	271	247	239	106
549 Adelphi University	98e	220	221	329	80	130	73	101
550 Shaw University	56	56	115	122	110	100	100e	100 i
Total, 1st 550 institutions	12,633,644	13,315,823	13,825,274	14,299,449	15,133,987	16,060,933	17,500,495	19,189,147

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
551 Fairleigh Dickinson U	53e	53e	35 i	17	7	7	24	98
552 Point Loma Nazarene Col	48 i	53 i	58 i	63 i	68 i	73 i	83	95
553 Sul Ross State University	9	21	137	148	156	74	228	95
554 Monmouth University	694	739	614	635	248	178	178e	89
555 Pont Catholic U of PR, The	0	20	20e	64	78	96	85	89
556 University of St Thomas	127 i	134 i	141 i	148 i	158	19	54 i	89
557 CUNY Baruch Col	259	142	41	15	83 i	151	87	87e
558 Fuller Theological Sem	0	0 i	0	21	21e	80	80e	87 i
559 Texas A&M Commerce	41	42	80	55	122	109	157	83
560 U of WI-River Falls	70	19	55	71	69	69	24	81
Total, 1st 560 institutions	12,634,945	13,317,046	13,826,455	14,300,686	15,134,997	16,061,789	17,501,495	19,190,040
561 U of WI-Superior	1,411	1,274	619	169	96	97	33	79
562 Chapman U	10 i	20 i	30 i	40 i	50 i	60 i	73	77
563 Regis University	86 i	79 i	72 i	65 i	58	93	69	69e
564 Willamette University	--	--	--	--	137	29	77	69
565 Skidmore College	14 i	28 i	42 i	56 i	74	61	67	68
566 Bridgewater State College	419 i	359 i	299 i	239 i	179 i	114	287	64
567 Ferris State University	--	--	--	--	49	0	0e	62
568 Wentworth Inst of Tech	1,434	1,155	1,023	591	933	669	452	62
569 Jarvis Christian College	219	219	102	83	55	56	55	55e
570 Northeastern Illinois U	0	16	62	110	68	18	24	47
Total, 1st 570 institutions	12,638,538	13,320,196	13,828,704	14,302,039	15,136,696	16,062,986	17,502,632	19,190,692
571 Widener U All Campuses	0	0	0	0	0	70	37	37e
572 Providence College	29	22	39	20	17	29	29e	32 i
573 Simmons College	311 i	272 i	233 i	194 i	155 i	112	74	30
574 Cooper Union	50 i	50 i	50 i	50 i	50e	34	94	27
575 University of Dallas	0	0	34	36	441	157	0	26
576 Virginia Military Inst	240	217	240	175	67	92	50	24
577 W State Coll Colorado	49 i	47 i	45 i	43 i	37	20	28	5
578 Alliant International U	0	0	0	0	0	0	0	0
579 Antioch University	85	81	0	0	0	0	0	0
580 Azusa Pacific U	--	--	--	--	--	--	0e	0
Total, 1st 580 institutions	12,639,302	13,320,885	13,829,345	14,302,557	15,137,463	16,063,500	17,502,944	19,190,873
581 Biola University	0	0	0	0	0	0	0	0
582 Bluefield State College	--	--	--	--	0	0	0	0
583 CA Inst of Integral Stu	0	0	0	0	0	0	0	0
584 Connecticut College	127 i	96 i	65 i	34 i	0e	0 i	0 i	0 i
585 Coppin State College	218	208	116	15	6	11	0	0
586 Forest Inst of Prof Psy	0	0	0	0	0	0	0	0
587 Golden Gate University	0	0	0	0	0	0	0	0
588 Institute of Textile Tech	0	0	0	0	0	0	0	0
589 Nicolls State U	--	--	--	--	--	--	14	0
590 Pepperdine University	0	0	0	0	0	0	0	0
Total, 1st 590 institutions	12,639,647	13,321,189	13,829,526	14,302,606	15,137,469	16,063,511	17,502,958	19,190,873
591 Philander Smith College	137	145	73	73	73e	72	72e	0
592 Rust College	389	332	0	0	317	114	138	0
593 Selma University	740	495 i	250	210	210e	116	0	0e
594 Talladega College	0	0	0	0	0 i	0	0	0
595 U of Findlay	--	--	--	--	--	--	275	0
596 U of Missouri Sys Admn	0	0	0	0	0	0	0	0
597 Union Institute, The	0	0	0	0 i	0	0	0	0e
598 WV Sch of Osteo Med	0	0	0	0	0	0	0	0
599 West Virginia State Col	195	40	10	196	0	0	0e	0e
600 Western U of Hlth Sci	68	67	115	40	253	253e	127 i	0
Total, 1st 600 institutions	12,641,176	13,322,268	13,829,974	14,303,125	15,138,322	16,064,066	17,503,570	19,190,873

See explanatory information and SOURCE at end of table.

Table B-33. Federally financed R&D expenditures at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
601 Wiley College	--	--	--	--	0	0	0	0
Total, 1st 601 institutions	12,641,176	13,322,268	13,829,974	14,303,125	15,138,322	16,064,066	17,503,570	19,190,873
Total, all other sampled institutions	4,952	5,768	5,906	6,215	6,507	6,595	4,731	0

1 Johns Hopkins University includes the Applied Physics Laboratory, with $463 million in federally financed R&D expenditures.

2 These data do not include R&D expenditures at university-associated federally funded research and development centers. See tables B-73 and B-74.

KEY: -- = not available
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-34. Non-Federal R&D expenditures at universities and colleges, ranked by fiscal year 2001 non-Federal R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
Total, all institutions	8,376,676	8,837,316	9,203,995	10,053,900	10,702,730	11,434,272	12,533,663	13,532,205
1 U CA Los Angeles	89,667	101,895	118,010	182,928	213,362	225,621	256,664	380,943
2 U of WI-Madison	167,315	174,160	179,396	186,050	203,182	250,476	275,732	300,134
3 U CA Davis	117,429	121,471	124,416	162,398	174,778	183,487	223,049	277,459
4 Texas A&M University	218,808	225,805	218,308	221,732	248,782	253,052	247,629	257,659
5 U CA San Francisco	99,141	105,471	98,893	136,635	160,340	183,914	194,135	247,486
6 U CA Berkeley	137,104	133,374	148,149	218,101	248,679	260,514	310,176	238,193
7 Ohio State University	117,329	123,627	143,336	166,518	177,341	187,594	229,180	229,560
8 University of Florida	68,962	119,855	168,126	178,045	168,352	182,151	193,318	219,568
9 U CA San Diego	65,735	72,888	79,592	138,086	155,687	169,625	192,522	213,257
10 Pennsylvania State U	134,318	143,400	147,250	154,749	176,369	180,297	201,501	212,115
Total, 1st 10 institutions	1,215,808	1,321,946	1,425,476	1,745,242	1,926,872	2,076,731	2,323,906	2,576,374
11 University of Georgia	132,844	148,747	153,103	171,093	163,233	181,413	195,798	205,385
12 University of Michigan	166,056	167,114	187,814	187,457	185,311	174,393	187,523	204,406
13 NC State University	103,799	111,516	116,263	159,819	174,721	204,311	200,618	203,384
14 Cornell University	118,702	136,395	136,452	145,509	159,324	160,760	180,521	203,362
15 University of Minnesota	136,826	141,705	142,252	162,946	155,582	163,623	181,422	197,722
16 U of IL Urbana-Champaign	106,673	107,096	123,481	130,104	158,016	172,480	179,534	195,547
17 Louisiana State U System	113,793	125,267	131,804	140,184	141,838	149,977	162,226	174,286
18 University of Arizona	124,243	123,560	125,652	133,057	140,329	142,119	157,929	167,644
19 Georgia Institute of Tech	96,555	106,983	109,478	127,693	145,590	150,864	178,347	162,697
20 Rutgers the State U NJ	105,062	119,696	117,515	114,813	127,224	138,174	145,557	159,637
Total, 1st 20 institutions	2,420,361	2,610,025	2,769,290	3,217,917	3,478,040	3,714,845	4,093,381	4,450,444
21 Duke University	71,870	70,177	92,604	95,642	109,856	161,517	152,445	157,024
22 Purdue University	90,585	110,163	115,319	114,619	123,635	130,703	142,526	156,766
23 U of Washington	72,912	97,876	93,777	89,175	95,900	114,547	139,720	154,523
24 Michigan State University	89,430	104,510	105,346	107,201	112,465	118,077	141,324	153,587
25 Baylor Col of Medicine	94,461	96,178	92,319	94,915	105,918	131,087	140,926	147,067
26 Indiana University	54,960	59,471	63,379	69,267	75,914	92,528	120,160	143,118
27 U of MD Baltimore	51,139	48,278	56,996	62,708	65,284	56,387	133,134	139,916
28 VA Polytech Inst & St U	74,823	69,427	63,496	82,151	84,384	93,864	121,545	138,939
29 MA Institute of Tech	104,050	97,257	109,068	99,534	102,357	111,385	119,631	131,176
30 University of Kentucky	56,738	61,920	67,271	62,676	100,586	107,850	128,534	125,482
Total, 1st 30 institutions	3,181,329	3,425,282	3,628,865	4,095,805	4,454,339	4,832,790	5,433,326	5,898,042
31 U of MD at College Park	112,297	115,874	117,269	112,999	93,992	112,547	115,824	121,868
32 Washington University	54,079	62,179	63,443	75,433	82,377	97,008	108,068	121,714
33 Johns Hopkins U	72,351	82,638	88,349	104,715	100,637	103,938	107,890	119,505
34 U TX MD Anderson Cncr Ctr	79,941	77,470	78,170	79,876	78,186	85,713	100,324	118,693
35 U of Pennsylvania	65,052	71,498	72,263	79,016	85,563	104,556	117,955	117,856
36 Iowa State University	99,543	96,166	97,010	102,495	105,570	107,122	115,582	117,172
37 U of Nebraska at Lincoln	67,275	70,824	70,108	75,831	76,969e	94,069	98,192	113,643
38 U of South Florida	66,276	63,200	64,406	68,581	68,395	81,956	94,840	112,724
39 U of IL Chicago	56,667	61,853	62,549	68,557	77,942	88,687	93,896	107,989
40 U of Missouri Columbia	89,957	90,450	80,141	84,843	90,613	95,127	93,441	106,347
Total, 1st 40 institutions	3,944,767	4,217,434	4,422,573	4,948,151	5,314,583	5,803,513	6,479,338	7,055,553
41 U of Iowa	57,500	61,778	72,582	75,880	83,751	84,497	96,180	100,099
42 U TX at Austin	111,016	84,737	93,798	87,067	79,761	93,209	93,922	99,920
43 Northwestern University	86,265	83,344	86,452	92,651	95,324	101,162	95,536	99,804
44 Stanford University	50,002	45,714	56,153	63,038	67,883	72,602	90,739	98,438
45 Wayne State University	51,278	59,894	65,887	70,676	80,810	89,222	92,494	96,536
46 U of Southern California	57,540	58,553	64,977	67,437	78,259	81,122	89,573	94,390
47 University of Connecticut	88,454	89,860	94,513	91,337	81,259	79,490	94,940	94,353
48 U TX SW Med Ctr at Dallas	46,930	46,409	48,694	51,232	56,511	63,524	80,051	90,556
49 SUNY at Buffalo	59,278	68,055	49,888	57,571	75,613	81,333	91,282	90,234
50 Rockefeller U, The	34,468	60,355	68,226	66,020	71,649	76,509	78,927	90,209
Total, 1st 50 institutions	4,587,498	4,876,133	5,123,743	5,671,060	6,085,403	6,626,183	7,382,982	8,010,092

See explanatory information and SOURCE at end of table.

Table B-34. Non-Federal R&D expenditures at universities and colleges, ranked by fiscal year 2001 non-Federal R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
51 University of Oklahoma	60,481	65,225	66,392	68,631	72,410	84,496	90,360	88,431
52 U of Tennessee System	71,052	75,022	75,607	80,181	80,901	88,743	91,631	83,287
53 University of Kansas	54,885	58,493	58,791	62,160	66,548	75,480	79,720	81,973
54 U of NC Chapel Hill	52,575	52,492	51,495	67,395	63,791	69,832	74,278	81,961
55 Mississippi State U	42,283	38,987	49,487	49,229	58,406	64,368	78,695	81,446
56 University of Pittsburgh	36,388	41,970	39,866	41,700	45,331	54,859	66,654	80,221
57 U CA Irvine	37,533	40,253	46,653	55,376	63,813	66,337	70,163	78,131
58 U Med & Dent of NJ	46,179	50,631	51,030	52,912	54,663	64,547	65,633	76,363
59 Clemson University	52,439	54,149	56,727	55,942	61,951	72,277	83,599	75,325
60 SUNY at Stony Brook	40,578	46,106	46,807	50,056	50,235	55,045	66,666	75,222
Total, 1st 60 institutions	5,081,891	5,399,461	5,666,598	6,254,642	6,703,452	7,322,167	8,150,381	8,812,452
61 Harvard University	88,276e	72,457	79,396	77,349	54,224	60,174	60,111	71,693
62 Yale University	53,514	56,951	57,907	56,412	57,634	60,646	64,687	70,812
63 Princeton University	40,743	40,254	42,994	44,882	46,991	51,263	60,194	70,791
64 University of Utah	22,508	22,088	20,635	36,589	42,234	42,127	63,317	70,344
65 Oregon State University	54,703	54,715	51,357	51,336	55,824	57,636	60,353	69,071
66 U CA Riverside	37,252	37,412	43,768	51,480	56,776	55,827	62,495	68,742
67 Mt Sinai Sch Med	30,991	33,017	30,806	33,862	39,453	43,141	51,658	67,602
68 University of Rochester	31,622	32,642	31,981	36,834	43,844	44,274	46,742	67,316
69 Emory University	47,451	55,454	53,931	55,097	54,839	56,354	61,156	66,680
70 Auburn University	57,022	58,022	55,957	58,048	60,062	53,486	61,097	66,250
Total, 1st 70 institutions	5,545,973	5,862,473	6,135,330	6,756,531	7,215,333	7,847,095	8,742,191	9,501,753
71 University of Cincinnati	37,238	36,052	55,190	63,312	69,388	52,677	61,610	64,846
72 Oklahoma State University	50,368	56,955	57,926	41,025	48,246	59,929	63,515	64,675
73 Arizona State University	31,864	41,794	45,706	43,040	50,660	53,279	58,182	62,147
74 New York University	50,189	55,176	55,864	59,171	55,026	56,055	65,042	60,825
75 Kansas State University	44,149	45,837	46,453	51,115	54,232	57,478	60,605	60,032
76 Colorado State University	45,993	46,956	51,771	49,187	59,728	58,338	50,850	59,836
77 Washington State U	49,128	47,767	49,834	52,670	50,912	52,333	56,355	59,277
78 Univ of Hawaii at Manoa	30,687	34,191	44,300	47,686	61,121	63,392	65,881	59,260
79 U of South Carolina	36,083	35,418	27,350	40,850	50,199	57,345	52,526	57,990
80 U of Central Florida	17,050	17,070	2,774	25,231	22,028	26,418	33,845	56,945
Total, 1st 80 institutions	5,938,722	6,279,689	6,572,498	7,229,818	7,736,873	8,384,339	9,310,602	10,107,586
81 University of Colorado	76,104	74,266	73,784	77,615	82,861	73,932	53,241	56,829
82 Florida State University	36,813	40,113	38,598	42,963	44,012	42,007	48,265	56,742
83 Med U of South Carolina	17,742	21,078	13,789	19,321	21,467	24,822	23,811	56,144
84 U of Arkansas Main	41,775	42,179	43,734	49,096	55,530	45,734	50,039	55,131
85 U of Alaska Fairbanks	35,323	34,931	41,030	42,816	44,101	54,178	55,895	54,908
86 North Dakota State U	26,100	28,993	31,978	28,765	30,220	32,388	34,600	49,675
87 U of MA Amherst	32,614	33,956	35,709	44,886	46,774	46,699	52,195	48,400
88 University of Louisville	11,201	13,053	16,349	19,913	24,080	41,515	46,349	47,741
89 Carnegie Mellon U	34,790	40,901	44,684	43,427	42,404	51,766	46,789	47,419
90 University of New Mexico	38,535	38,457	39,768	39,174	41,545	30,874	33,538	47,114
Total, 1st 90 institutions	6,289,719	6,647,616	6,951,921	7,637,794	8,169,867	8,828,254	9,755,324	10,627,689
91 Utah State University	32,957	34,037	37,945	41,698	39,325	40,931	45,783	47,108
92 Texas Tech University	28,095	29,374	29,987	31,744	35,645	38,246	44,783	46,951
93 Tulane University	41,531	39,394	33,940	36,719	34,934	36,545	37,705	44,092
94 U TX Hlth Sci Ctr San Ant	31,864	32,903	31,825	32,541	30,403	30,900	38,573	44,001
95 U of New Hampshire	18,675	21,476	22,388	21,758	26,446	27,027	33,187	42,656
96 University of Miami	29,912	31,625	33,340	34,372	35,480	37,725	39,162	41,969
97 West Virginia University	23,982	22,814	24,044	33,869	37,377	37,128	38,117	41,871
98 Virginia Commonwealth U	28,674	29,835	33,564	33,966	32,371	31,610	36,083	41,865
99 University of Idaho	32,752	34,290	39,717	40,166 i	40,615	38,268	38,333	40,948
100 Yeshiva University	22,163	22,607e	18,034	18,883	19,000	22,091	37,987	40,430
Total, 1st 100 institutions	6,580,324	6,945,971	7,256,705	7,963,510	8,501,463	9,168,725	10,145,037	11,059,580

See explanatory information and SOURCE at end of table.

Table B-34. Non-Federal R&D expenditures at universities and colleges, ranked by fiscal year 2001 non-Federal R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
101 Vanderbilt University	17,666	19,039	21,319	23,854	28,889	32,788	41,940	40,274
102 U of Maine	18,007	16,112	18,473	18,078	20,078	22,289	30,409	40,197
103 U CA Santa Barbara	14,283	15,294	17,884	26,234	27,354	30,535	37,400	39,544
104 Case Western Reserve U	35,970	33,897	33,534	40,833	44,056	42,154	42,471	39,401
105 Dartmouth College	16,083	11,466	13,263	18,465	19,911	22,781	22,505	39,252
106 University of Chicago	19,372	21,674	21,570	28,848	25,653	27,085	29,806	38,559
107 U of Nebraska Med Ctr	21,741	24,912	28,583	31,375	34,790	37,038	31,669	38,198
108 U TX Med Br at Galveston	39,998	39,365	35,436	35,677	37,900	38,519	36,539	38,040
109 U of Alabama Birmingham	43,016	51,339	44,389	53,257	60,890	66,892	58,152	37,077
110 UT Houston Hlth Sci Ctr	19,611	19,902	21,347	28,433	31,547	34,019	39,922	36,894
Total, 1st 110 institutions	6,826,071	7,198,971	7,512,503	8,268,564	8,832,531	9,522,825	10,515,850	11,447,016
111 Columbia U in City of NY	33,316	38,496	40,751	32,157	37,284	39,429	36,530	36,569
112 University of Delaware	24,484	25,809	24,645	33,064	36,208	38,893	36,995	35,661
113 U CA Santa Cruz	18,655	18,251	19,335	25,423	26,652	27,818	30,253	35,052
114 Montana St U Bozeman	20,411	30,765	32,430	29,733	28,310	29,244	34,760	34,736
115 San Diego St University	17,041	18,851	26,020	20,349	22,194	25,855	32,200	34,711
116 Tufts University	24,077	26,612	25,848	28,147	30,963	38,036	41,106	34,137
117 Brown University	18,282	18,837	25,482	27,747	29,565	31,054	31,533	33,269
118 Rush University	24,905	26,198	26,292	25,587	26,833	29,838	35,616	32,918
119 S Illinois U Carbondale	20,566	19,531	19,742	21,411	22,689	25,509	26,224	32,339
120 U of MA Worcester	26,867	25,471	23,143	27,996	29,184	27,524	33,375	31,768
Total, 1st 120 institutions	7,054,675	7,447,792	7,776,191	8,540,178	9,122,413	9,836,025	10,854,442	11,788,176
121 Medical Col of Georgia	18,899	20,362	24,633	26,821	26,679	27,112	30,386	31,075
122 University of Houston	20,301	22,360	23,730	24,221	20,279	22,927	27,537	29,691
123 U of Nevada Reno	23,377	25,406	27,006	31,890	25,093	23,352	29,981	27,843
124 University of Vermont	18,080	21,133	22,138	25,484	26,372	27,964	23,530	26,787
125 University of Virginia	45,834	51,435	22,078	31,597	39,962	23,282	24,732	26,679
126 New Mexico State Univ	20,654	24,245	22,941	23,859	20,783	23,002	22,622	25,839
127 NJ Inst of Technology	17,411	15,831	18,549	17,441	19,855	19,855	30,514	25,647
128 Georgia State University	10,329	11,590	12,296	19,525	19,869	22,213	24,510	25,385
129 Oregon Health & Science U	20,246	25,297	28,995	29,682	27,228 i	24,774 i	22,321	25,114
130 U MD Ctr for Environ Sci	14,365	15,148	15,450	15,137	16,598	18,700	20,800	24,530
Total, 1st 130 institutions	7,264,171	7,680,599	7,994,007	8,785,835	9,365,131	10,069,206	11,111,375	12,056,766
131 Thomas Jefferson U	13,717	16,370	17,679	20,137	17,732	22,041	22,178	24,055
132 SUNY Col Env Sci & Frstry	18,488	18,718 i	18,948	17,850	19,321	21,511	22,331	23,499
133 SUNY at Albany	19,746	14,303	17,852	16,225	16,674	18,036	20,733	23,448
134 Brandeis University	13,250	13,710	13,527	14,912	16,491	18,882	21,214	22,787
135 TX A&M U Sys Hlth Sci Ctr	--	--	--	--	--	--	11,415	22,475
136 George Washington U	14,050	15,457	18,773	20,976	29,409	16,813	19,673	22,048
137 University of Wyoming	23,349	25,097	25,562	32,750	30,694	28,088	26,538	21,615
138 California Inst of Tech	15,444	17,293	14,531	13,663	7,318	16,913	25,789	21,531
139 U MD Biotechnology Inst	8,760	11,025	15,404	20,398	20,072	17,261	18,789	21,405
140 Boston University	17,953	20,236	22,320	22,870	25,626	17,712	20,299	21,260
Total, 1st 140 institutions	7,408,928	7,832,808	8,158,603	8,965,616	9,548,468	10,246,463	11,320,334	12,280,889
141 Col of William & Mary	10,017	8,866	12,163	13,140	14,869	19,430	20,268	20,541
142 Florida International U	2,584	3,345	3,441	3,531	3,637	9,304	14,353	20,351
143 Wake Forest University	15,859	17,669	19,486	21,003	20,188	22,534	21,255	20,322
144 U of LA Lafayette	9,101	11,109	10,493	17,682	18,934	21,305	20,528	19,943
145 Medical Col of Wisconsin	18,145	13,071	12,838	12,265	12,190	14,359	15,547	19,854
146 Rensselaer Polytech Inst	15,101	12,997	13,169	16,018	16,786	16,231	15,207	19,116
147 Temple University	29,168	26,439	27,813	28,126	34,231	24,206	14,253	18,539
148 Univ of Memphis, The	9,278	10,077	13,475	15,858	16,637	17,916	16,204	18,433
149 U of Arkansas Medical Sci	9,352	12,272	16,558	18,087	17,630	17,674	19,112	17,702
150 Rose-Hulman Inst of Tech	433 i	423 i	413 i	403 i	393 i	384	4,574	17,083
Total, 1st 150 institutions	7,527,966	7,949,076	8,288,452	9,111,729	9,703,963	10,409,806	11,481,635	12,472,773

See explanatory information and SOURCE at end of table.

Table B-34. Non-Federal R&D expenditures at universities and colleges, ranked by fiscal year 2001 non-Federal R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
151 U of Missouri Rolla	13,234	15,386	12,693	12,815	13,806	17,162	16,164	16,870
152 Wright State University	9,764	9,042	7,879	7,290	8,844	10,766	16,549	16,616
153 University of Notre Dame	6,475	5,908	5,670	4,943	5,820	6,869	7,162	16,295
154 Woods Hole Oceanogr Inst	7,126	7,476	11,195	11,021	10,246	12,188	14,511	15,359
155 NM Inst Mining & Tech	13,363	11,137	13,375	11,478	13,832	15,342	14,984	15,137
156 Lehigh University	13,825	13,707	12,371	11,569	13,096	14,741	12,780	15,097
157 Eastern VA Med School	7,711	7,999	7,527	8,491	12,223	12,742	11,185	14,861
158 Univ of Montana, The	8,233	8,732	9,830	9,597	8,385	9,745	11,212	14,341
159 Ohio University	10,589	12,126	10,283	11,218	11,146	10,893	12,072	14,248
160 University of Akron	12,767	11,358	10,714	12,853	12,284	9,139	12,414	13,594
Total, 1st 160 institutions	7,631,053	8,051,947	8,389,989	9,213,004	9,813,645	10,529,393	11,610,668	12,625,191
161 Unif Svcs U of Hlth Sci	9,210	13,754	12,230	9,594	12,762	13,202	12,964	13,142
162 U of Alabama Huntsville	9,899	11,319	12,035	11,086	13,174	15,037	15,335	13,106
163 SUNY at Binghamton	10,703	11,447	12,839	13,092	14,549	12,237	12,342	12,600
164 Syracuse University	19,341	14,598	15,961	10,862	8,122	9,590	10,443	12,440
165 U of WI-Milwaukee	11,203	11,935	11,653	11,839	11,871	12,135	11,585	12,403
166 Michigan Tech University	10,802	9,991	11,279	11,199	12,584	11,967	10,554	11,993
167 Colorado School of Mines	5,719	7,738 i	9,757	9,891	11,987	11,011	9,800	11,340
168 U of Nevada Las Vegas	5,943	6,804	5,751	6,407	7,199	9,922	10,400	11,327
169 South Dakota State U	8,372	7,826	9,425	10,021	9,819	9,513	9,336	11,261
170 Florida Atlantic U	4,439	4,133	4,076	2,868	4,683	6,115	7,176	11,012
Total, 1st 170 institutions	7,726,684	8,151,492	8,494,995	9,309,863	9,920,395	10,640,122	11,720,603	12,745,815
171 Inst of Paper Sci & Tech	7,366	7,299	9,489 i	11,678e	11,678e	7,135e	7,135e	10,982
172 University of Alabama, The	10,478	11,243	9,568	10,553	9,026	11,308	12,361	10,950
173 Northeastern University	3,067	2,737	3,274	3,501	4,931	7,433	8,424	10,935
174 Loyola U of Chicago	13,243	12,889 i	12,534	16,223	16,556	11,413	9,339	10,682
175 Boston College	2,786	3,308	3,367	3,539	4,996	7,234	11,094	10,645
176 U of Missouri Kansas City	6,662	7,221	7,510	6,354	6,676	7,125	12,157	10,619
177 Wichita State University	5,731	7,140	7,708	9,195	10,471	11,295	10,985	10,416
178 Creighton University	4,992	6,562	6,595	7,998	10,915	11,086	10,300	10,399
179 U PR Mayaguez Campus	13,598	22,345	24,934	27,805	29,278	31,864	22,846	9,612
180 University of Toledo	4,538	4,249	4,674e	5,792	6,146	6,137	7,382	9,577
Total, 1st 180 institutions	7,799,145	8,236,485	8,584,648	9,412,501	10,031,068	10,752,152	11,832,626	12,850,632
181 MCP Hahnemann U	18,894	17,332	21,067	37,686	34,882	10,235	14,291	9,518
182 Miami University (OH)	3,942	4,823	6,214	6,768	4,051	7,662	8,000	9,480
183 U of MA Lowell	7,874	7,408	8,258	7,135	7,113	9,059	9,429	9,460
184 U Mississippi, All Camp	9,164	9,396	10,644	10,535	11,616	7,346	16,820	9,444
185 Old Dominion University	7,023	6,471	8,311	7,847	7,804	9,324	10,150	9,379
186 C R Drew U of Med & Sci	1,673	2,000	1,098	1,153e	1,153e	2,272	9,076	9,302
187 U of MA Boston	8,580	6,692	8,192	8,119	8,331	8,181	8,680	9,126
188 CUNY Hunter College	5,108	6,269	8,938	7,142	7,083	8,408	6,397	9,042
189 Cleveland State U	5,950	7,039	7,168 i	7,296e	7,515e	8,238e	6,896	9,000
190 Western Michigan U	6,446	6,280	6,270	6,417	7,509	9,562	9,646	8,784
Total, 1st 190 institutions	7,873,799	8,310,195	8,670,808	9,512,599	10,128,125	10,832,439	11,932,011	12,943,167

See explanatory information and SOURCE at end of table.

Table B-34. Non-Federal R&D expenditures at universities and colleges, ranked by fiscal year 2001 non-Federal R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
191 SUNY Hlth Sci Ctr Brklyn	11,078	12,407	11,569 i	10,731	9,199	7,787	8,766	8,766e
192 U TX at Dallas	7,268	7,623 i	7,979	7,842	7,096	8,328	8,635	8,635e
193 San Jose State University	9,180 i	9,180 i	9,180 i	9,180 i	9,180e	9,180e	9,180e	8,408
194 Tennessee Tech U	8,149	9,002	7,938	7,848	8,596	7,982	7,426	8,223
195 U TX at Arlington	12,816	12,443	9,206	10,680	7,781	5,361	5,617	8,073
196 Desert Research Institute	6,187	6,984	5,500	6,100	6,100	6,824	5,768	7,679
197 U of Rhode Island	13,606	9,176 i	4,746	4,789	4,632	8,245	9,597	7,674
198 Drexel University	9,880	9,945	7,709	8,722	8,674	9,483	10,584	7,539
199 Brigham Young University	5,733	5,487	3,039e	2,279e	2,269	12,571	6,859	7,512
200 University of Dayton	7,774	8,242	8,775	9,241	8,671	6,182	7,628	7,241
Total, 1st 200 institutions	7,965,470	8,400,684	8,746,449	9,590,011	10,200,323	10,914,382	12,012,071	13,022,917
Total, all other sampled institutions	411,206	436,632	457,546	463,889	502,407	519,890	521,592	509,288

KEY: -- = not available
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-35. R&D expenditures at universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
Total, all institutions	32,723,078	19,190,873	2,315,208	2,233,649	6,553,070	2,430,278
1 Johns Hopkins U[1]	999,246	879,741	2,177	18,737	50,348	48,243
2 U CA Los Angeles	693,801	312,858	59,365	32,539	190,229	98,810
3 U of WI-Madison	604,143	304,009	35,317	17,237	187,924	59,656
4 University of Michigan	600,523	396,117	5,113	34,439	120,508	44,346
5 U of Washington	589,626	435,103	11,716	43,312	88,309	11,186
6 U CA San Diego	556,533	343,276	20,842	36,845	101,503	54,067
7 U CA San Francisco	524,975	277,489	21,902	35,759	110,652	79,173
8 Stanford University	482,906	384,468	5,433	35,012	30,920	27,073
9 U of Pennsylvania	469,852	351,996	1,952	28,227	43,655	44,022
10 University of Minnesota	462,011	264,289	58,053	26,454	79,757	33,458
Total, 1st 10 institutions	5,983,616	3,949,346	221,870	308,561	1,003,805	500,034
11 Pennsylvania State U	458,066	245,951	23,504	67,658	112,417	8,536
12 U CA Berkeley	446,273	208,080	29,824	26,791	128,333	53,245
13 Cornell University	443,828	240,466	62,569	22,261	80,446	38,086
14 MA Institute of Tech	435,495	304,319	181	97,256	6,058	27,681
15 U CA Davis	432,396	154,937	50,044	16,989	171,268	39,158
16 Texas A&M University	407,041	149,382	100,480	35,110	116,210	5,859
17 Washington University	406,642	284,928	6,519	24,865	58,634	31,696
18 U of IL Urbana-Champaign	390,863	195,316	48,803	10,992	119,602	16,150
19 Ohio State University	390,652	161,092	54,867	54,736	86,275	33,682
20 Baylor Col of Medicine	381,461	234,394	3,731	18,389	56,413	68,534
Total, 1st 20 institutions	10,176,333	6,128,211	602,392	683,608	1,939,461	822,661
21 Duke University	375,133	218,109	7,748	104,063	19,275	25,938
22 Harvard University	372,107	300,414	1,739	14,056	0	55,898
23 University of Arizona	367,128	199,484	8,410	22,934	119,083	17,217
24 University of Colorado	365,472	308,643	2,668	9,002	29,802	15,357
25 University of Florida	359,312	139,744	74,057	36,417	99,204	9,890
26 Columbia U in City of NY	354,497	317,928	1,122	2,885	13,481	19,081
27 University of Pittsburgh	348,792	268,571	5,149	14,817	32,183	28,072
28 U of Southern California	340,597	246,207	15,542	22,949	55,899	0
29 Yale University	321,514	250,702	523	14,119	18,487	37,683
30 Georgia Institute of Tech	306,533	143,836	10,771	59,691	92,235	0
Total, 1st 30 institutions	13,687,418	8,521,849	730,121	984,541	2,419,110	1,031,797
31 U of NC Chapel Hill	303,576	221,615	15,914	6,971	59,076	0
32 NC State University	299,259	95,875	91,794	37,858	65,966	7,766
33 U TX at Austin	295,104	195,184	19,939	30,310	36,266	13,405
34 University of Georgia	272,298	66,913	53,463	13,791	136,823	1,308
35 Louisiana State U System	268,911	94,625	74,420	16,648	64,535	18,683
36 U of MD at College Park	267,383	145,515	21,519	7,315	80,378	12,656
37 Michigan State University	265,946	112,359	46,395	10,953	87,885	8,354
38 Indiana University	259,899	116,781	5,650	6,375	102,566	28,527
39 Northwestern University	257,933	158,129	3,778	14,294	59,852	21,880
40 U of Iowa	255,348	155,249	7,084	21,394	52,571	19,050
Total, 1st 40 institutions	16,433,075	9,884,094	1,070,077	1,150,450	3,165,028	1,163,426
41 Purdue University	254,917	98,151	36,485	29,765	90,403	113
42 U of MD Baltimore	239,007	99,091	26,603	41,226	34,323	37,764
43 Emory University	236,997	170,317	4,001	7,950	19,857	34,872
44 Rutgers the State U NJ	236,793	77,156	28,163	10,965	89,916	30,593
45 University of Rochester	234,261	166,945	9,839	23,782	20,092	13,603
46 U of IL Chicago	233,098	125,109	9,743	10,989	70,677	16,580
47 U of Alabama Birmingham	231,702	194,625	168	8,443	14,077	14,389
48 U TX SW Med Ctr at Dallas	222,376	131,820	9,516	13,320	5,942	61,778
49 VA Polytech Inst & St U	216,323	77,384	58,232	18,355	52,534	9,818
50 California Inst of Tech	215,085	193,554	1,050	10,225	10,256	0
Total, 1st 50 institutions	18,753,634	11,218,246	1,253,877	1,325,470	3,573,105	1,382,936

See explanatory information and SOURCE at end of table.

Table B-35. R&D expenditures at universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
51 U TX MD Anderson Cncr Ctr	212,746	94,053	0	26,717	58,853	33,123
52 University of Kentucky	211,721	86,239	37,904	12,933	61,008	13,637
53 Case Western Reserve U	198,253	158,852	3,735	6,190	11,636	17,840
54 University of Utah	197,597	127,253	2,166	6,023	35,021	27,134
55 University of Chicago	194,125	155,566	4,451	1,746	14,088	18,274
56 University of Cincinnati	192,895	128,049	3,619	6,028	41,092	14,107
57 New York University	190,722	129,897	2,739	6,535	25,514	26,037
58 SUNY at Buffalo	186,829	96,595	5,220	11,598	50,091	23,325
59 Vanderbilt University	186,504	146,230	397	3,036	21,160	15,681
60 U CA Irvine	179,866	101,735	8,384	15,803	30,581	23,363
Total, 1st 60 institutions	20,704,892	12,442,715	1,322,492	1,422,079	3,922,149	1,595,457
61 Iowa State University	179,196	62,024	52,115	13,177	48,733	3,147
62 Mt Sinai Sch Med	176,946	109,344	2,698	18,133	17,134	29,637
63 Wayne State University	175,984	79,448	12,463	10,860	55,384	17,829
64 U of Missouri Columbia	174,782	68,435	16,154	4,654	78,842	6,697
65 Boston University	172,031	150,771	933	8,450	0	11,877
66 U of South Florida	171,550	58,826	8,819	11,152	76,057	16,696
67 SUNY at Stony Brook	168,487	93,265	3,117	7,026	54,433	10,646
68 University of Connecticut	164,366	70,013	13,971	9,819	54,541	16,022
69 U Med & Dent of NJ	162,417	86,054	9,170	13,496	38,378	15,319
70 U of Tennessee System	161,898	78,611	33,867	15,391	18,474	15,555
Total, 1st 70 institutions	22,412,549	13,299,506	1,475,799	1,534,237	4,364,125	1,738,882
71 Colorado State University	161,144	101,308	16,102	8,850	25,637	9,247
72 U of Nebraska at Lincoln	157,520	43,877	3,899	5,908	101,217	2,619
73 Univ of Hawaii at Manoa	156,976	97,716	33,125	7,232	18,903	0
74 University of New Mexico	156,619	109,505	1,902	1,821	37,258	6,133
75 University of Kansas	156,467	74,494	7,049	4,155	52,380	18,389
76 Oregon State University	153,925	84,854	36,649	298	27,261	4,863
77 University of Miami	153,772	111,803	2,249	17,554	8,025	14,141
78 University of Virginia	149,547	122,868	297	7,733	11,661	6,988
79 Princeton University	149,411	78,620	3,102	8,246	41,983	17,460
80 University of Oklahoma	148,695	60,264	14,306	10,396	52,294	11,435
Total, 1st 80 institutions	23,956,625	14,184,815	1,594,479	1,606,430	4,740,744	1,830,157
81 Yeshiva University	148,230	107,800	0	0	40,430	0
82 Mississippi State U	146,939	65,493	32,357	6,744	42,345	0
83 Rockefeller U, The	145,571	55,362	6,079	2,844	52,493	28,793
84 Carnegie Mellon U	144,882	97,463	3,401	23,491	0	20,527
85 Oregon Health & Science U	136,785	111,671	2,879	11,538	0	10,697
86 UT Houston Hlth Sci Ctr	125,439	88,545	4,129	10,945	7,633	14,187
87 Clemson University	123,885	48,560	21,190	11,582	42,096	457
88 Utah State University	121,359	74,251	18,024	6,595	16,956	5,533
89 Arizona State University	118,763	56,616	4,149	5,641	48,574	3,783
90 Med U of South Carolina	116,687	60,543	1,257	7,168	46,470	1,249
Total, 1st 90 institutions	25,285,165	14,951,119	1,687,944	1,692,978	5,037,741	1,915,383
91 U CA Santa Barbara	116,372	76,828	2,956	6,001	19,341	11,246
92 U TX Hlth Sci Ctr San Ant	115,154	71,153	6,441	9,677	20,797	7,086
93 Florida State University	113,817	57,075	6,535	892	45,047	4,268
94 U of MA Worcester	111,221	79,453	22,088	3,317	0	6,363
95 U of Alaska Fairbanks	110,195	55,287	2,999	28,352	23,557	0
96 U of South Carolina	109,973	51,983	7,070	4,239	41,914	4,767
97 Dartmouth College	109,096	69,844	3,591	4,389	23,733	7,539
98 Washington State U	107,937	48,660	5,458	4,438	38,470	10,911
99 Auburn University	106,347	40,097	1,146	4,683	56,227	4,194
100 Tufts University	105,806	71,669	2,266	7,726	13,904	10,241
Total, 1st 100 institutions	26,391,083	15,573,168	1,748,494	1,766,692	5,320,731	1,981,998

See explanatory information and SOURCE at end of table.

Table B-35. R&D expenditures at universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
101 U TX Med Br at Galveston	102,722	64,682	10,775	6,020	10,608	10,637
102 Tulane University	99,761	55,669	3,027	8,654	20,414	11,997
103 Georgetown University	99,228	93,626	606	4,996	0	0
104 Virginia Commonwealth U	99,180	57,315	2,358	8,522	26,091	4,894
105 Wake Forest University	98,343	78,021	807	13,330	1,357	4,828
106 U of MA Amherst	97,976	49,576	3,969	6,181	29,538	8,712
107 U CA Riverside	94,455	25,713	5,313	4,227	50,383	8,819
108 Kansas State University	94,030	33,998	36,398	4,943	15,866	2,825
109 Brown University	91,636	58,367	74	1,777	28,024	3,394
110 Woods Hole Oceanogr Inst	91,029	75,670	572	97	2,273	12,417
Total, 1st 110 institutions	27,359,443	16,165,805	1,812,393	1,825,439	5,505,285	2,050,521
111 Oklahoma State University	90,311	25,636	24,904	3,688	34,866	1,217
112 Thomas Jefferson U	88,936	64,881	3,933	12,326	1,686	6,110
113 U of New Hampshire	87,879	45,223	8,603	7,751	19,298	7,004
114 New Mexico State Univ	86,963	61,124	7,960	4,272	12,537	1,070
115 Medical Col of Wisconsin	83,857	64,003	172	2,126	8,674	8,882
116 U of Central Florida	79,287	22,342	6,115	5,288	45,542	0
117 U of Arkansas Main	78,303	23,172	34,940	4,224	11,917	4,050
118 University of Delaware	77,491	41,830	4,469	5,041	16,464	9,687
119 University of Vermont	75,597	48,810	4,052	6,434	12,338	3,963
120 George Washington U	73,805	51,757	1,815	5,081	754	14,398
Total, 1st 120 institutions	28,181,872	16,614,583	1,909,356	1,881,670	5,669,361	2,106,902
121 University of Louisville	72,857	25,116	1,962	911	38,543	6,325
122 West Virginia University	71,311	29,440	2,276	6,328	28,261	5,006
123 Rush University	70,219	37,301	59	9,128	20,148	3,583
124 SUNY at Albany	70,119	46,671	7,819	1,017	7,024	7,588
125 Texas Tech University	69,918	22,967	21,243	6,236	15,194	4,278
126 Montana St U Bozeman	69,593	34,857	16,502	7,041	11,193	0
127 University of Idaho	67,496	26,548	17,149	3,634	19,036	1,129
128 North Dakota State U	64,882	15,207	1,440	3,784	41,533	2,918
129 U CA Santa Cruz	64,253	29,201	877	1,004	23,258	9,913
130 U of Maine	64,070	23,873	7,886	3,562	24,631	4,118
Total, 1st 130 institutions	28,866,590	16,905,764	1,986,569	1,924,315	5,898,182	2,151,760
131 U of Nebraska Med Ctr	60,695	22,497	2,064	5,929	20,607	9,598
132 Temple University	60,182	41,643	961	5,400	6,290	5,888
133 U of Nevada Reno	59,229	31,386	3,692	2,338	20,448	1,365
134 San Diego St University	58,332	23,621	8,817	1,162	19,344	5,388
135 Brandeis University	52,818	30,031	118	0	6,000	16,669
136 Medical Col of Georgia	52,191	21,116	692	3,478	24,742	2,163
137 U of Arkansas Medical Sci	51,921	34,219	781	2,900	9,458	4,563
138 University of Houston	51,567	21,876	15,472	1,992	7,726	4,501
139 U of Rhode Island	50,835	43,161	5,437	441	1,543	253
140 University of Notre Dame	46,096	29,801	2,996	3,631	9,668	0
Total, 1st 140 institutions	29,410,456	17,205,115	2,027,599	1,951,586	6,024,008	2,202,148
141 Rensselaer Polytech Inst	45,010	25,894	5,781	5,928	4,734	2,673
142 Florida International U	44,291	23,940	11,037	8,397	518	399
143 NJ Inst of Technology	44,177	18,530	8,587	965	1,730	14,365
144 U of Alabama Huntsville	43,731	30,625	907	4,956	7,243	0
145 S Illinois U Carbondale	43,207	10,868	10,301	5,484	12,204	4,350
146 Rice University	42,675	35,682	1,784	3,196	0	2,013
147 Syracuse University	42,476	30,036	3,693	1,420	2,223	5,104
148 University of Wyoming	41,632	20,017	2,038	2,581	16,216	780
149 University of Dayton	41,343	34,102	400	5,138	1,439	264
150 Naval Postgrad School	40,889 i	40,121 i	255 i	344 i	0 i	169 i
Total, 1st 150 institutions	29,839,887	17,474,930	2,072,382	1,989,995	6,070,315	2,232,265

See explanatory information and SOURCE at end of table.

Table B-35. R&D expenditures at universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
151 TX A&M U Sys Hlth Sci Ctr	40,859	18,384	8,138	1,050	8,424	4,863
152 U Mississippi, All Camp	39,552	30,108	6,222	378	1,450	1,394
153 Georgia State University	38,960	13,575	8,135	480	14,144	2,626
154 Loyola U of Chicago	37,156	26,474	383	1,202	5,736	3,361
155 University of Oregon	36,881	32,232	203	155	2,850	1,441
156 C R Drew U of Med & Sci	36,717	27,415	8,230	1,055	17	0
157 U MD Ctr for Environ Sci	36,635	12,105	4,912	86	15,525	4,007
158 Col of William & Mary	35,829	15,288	3,327	1,165	14,148	1,901
159 Northeastern University	34,467	23,532	289	5,530	5,116	0
160 Univ of Montana, The	33,535	19,194	1,796	1,491	9,726	1,328
Total, 1st 160 institutions	30,210,478	17,693,237	2,114,017	2,002,587	6,147,451	2,253,186
161 University of Alabama, The	33,133	22,183	2,541	1,989	6,420	0
162 George Mason University	32,881	25,992	741	874	1,048	4,226
163 MCP Hahnemann U	32,462	22,944	4,249	2,604	312	2,353
164 U MD Biotechnology Inst	32,458	11,053	2,491	2,103	14,175	2,636
165 Saint Louis University	32,442	28,117	224	3,196	633	272
166 U of LA Lafayette	32,073	12,130	3,168	0	8,316	8,459
167 Wright State University	32,033	15,417	3,140	3,269	9,632	575
168 SUNY Hlth Sci Ctr Brklyn	31,626e	22,860e	229e	1,787e	4,094e	2,656e
169 Boston College	30,768	20,123	733	2,050	5,392	2,470
170 Howard University	30,148	27,848	191	2,108	0	1
Total, 1st 170 institutions	30,530,502	17,901,904	2,131,724	2,022,567	6,197,473	2,276,834
171 Desert Research Institute	29,697	22,018	2,538	802	1,889	2,450
172 U of MD Baltimore County	29,641	23,695	875	2,131	2,348	592
173 Michigan Tech University	29,613	17,620	663	4,176	6,785	369
174 Univ of Memphis, The	29,445	11,012	3,303	817	12,640	1,673
175 Lehigh University	29,058	13,961	6,151	5,532	3,203	211
176 U of Missouri Rolla	28,799	11,929	481	3,088	11,530	1,771
177 NM Inst Mining & Tech	28,392	13,255	1,998	6,204	6,046	889
178 SUNY Col Env Sci & Frstry	27,854	4,355	2,992	2,149	17,389	969
179 Drexel University	27,698	20,159	717	251	4,307	2,264
180 Ohio University	27,146	12,898	2,528	2,022	8,850	848
Total, 1st 180 institutions	30,817,845	18,052,806	2,153,970	2,049,739	6,272,460	2,288,870
181 U of Nevada Las Vegas	27,008	15,681	4,045	1,938	5,344	0
182 Loma Linda University	26,451 i	20,494 i	0 i	4,538 i	1,296 i	123 i
183 Eastern VA Med School	26,250	11,389	232	6,264	110	8,255
184 Jackson State University	25,663	22,750	0	0	2,913	0
185 Florida Atlantic U	25,111	14,099	1,432	9,580	0	0
186 Old Dominion University	24,659	15,280	3,789	2,885	2,705	0
187 New York Medical College	24,283	18,344	161	3,626	0	2,152
188 U PR Med Sci Campus	23,913	19,433	205	1,121	2,927	227
189 Florida A&M University	23,865	22,477	1,388	0	0	0
190 Colorado School of Mines	23,654	12,314	1,626	9,466	248	0
Total, 1st 190 institutions	31,068,702	18,225,067	2,166,848	2,089,157	6,288,003	2,299,627

See explanatory information and SOURCE at end of table.

Table B-35. R&D expenditures at universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
191 U of WI-Milwaukee	23,492	11,089	2,972	529	7,398	1,504
192 Unif Svcs U of Hlth Sci	23,247	10,105	0	0	13,142	0
193 San Jose State University	22,709	14,301	3,747	3,126	1,304	231
194 University of Akron	22,266	8,672	1,366	2,557	6,737	2,934
195 U TX at El Paso	21,889	16,167	2,875	1,321	1,526	0
196 U of MA Lowell	20,656	11,196	962	6,911	1,587	0
197 U Southern Mississippi	20,286	18,061	708	807	710	0
198 CUNY Hunter College	19,964	10,922	1,383	17	5,608	2,034
199 South Dakota State U	19,717	8,456	8,363	368	1,057	1,473
200 U of North Dakota	19,692	15,743	0	2,458	876	615
Total, 1st 200 institutions	31,282,620	18,349,779	2,189,224	2,107,251	6,327,948	2,308,418
Total, all other sampled institutions	1,440,458	841,094	125,984	126,398	225,122	121,860

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-36. R&D expenditures at public universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
Total, all institutions	22,340,844	11,694,962	2,079,529	1,489,479	5,541,775	1,535,099
1 U CA Los Angeles	693,801	312,858	59,365	32,539	190,229	98,810
2 U of WI-Madison	604,143	304,009	35,317	17,237	187,924	59,656
3 University of Michigan	600,523	396,117	5,113	34,439	120,508	44,346
4 U of Washington	589,626	435,103	11,716	43,312	88,309	11,186
5 U CA San Diego	556,533	343,276	20,842	36,845	101,503	54,067
6 U CA San Francisco	524,975	277,489	21,902	35,759	110,652	79,173
7 University of Minnesota	462,011	264,289	58,053	26,454	79,757	33,458
8 Pennsylvania State U	458,066	245,951	23,504	67,658	112,417	8,536
9 U CA Berkeley	446,273	208,080	29,824	26,791	128,333	53,245
10 U CA Davis	432,396	154,937	50,044	16,989	171,268	39,158
Total, 1st 10 institutions	5,368,347	2,942,109	315,680	338,023	1,290,900	481,635
11 Texas A&M University	407,041	149,382	100,480	35,110	116,210	5,859
12 U of IL Urbana-Champaign	390,863	195,316	48,803	10,992	119,602	16,150
13 Ohio State University	390,652	161,092	54,867	54,736	86,275	33,682
14 University of Arizona	367,128	199,484	8,410	22,934	119,083	17,217
15 University of Colorado	365,472	308,643	2,668	9,002	29,802	15,357
16 University of Florida	359,312	139,744	74,057	36,417	99,204	9,890
17 University of Pittsburgh	348,792	268,571	5,149	14,817	32,183	28,072
18 Georgia Institute of Tech	306,533	143,836	10,771	59,691	92,235	0
19 U of NC Chapel Hill	303,576	221,615	15,914	6,971	59,076	0
20 NC State University	299,259	95,875	91,794	37,858	65,966	7,766
Total, 1st 20 institutions	8,906,975	4,825,667	728,593	626,551	2,110,536	615,628
21 U TX at Austin	295,104	195,184	19,939	30,310	36,266	13,405
22 University of Georgia	272,298	66,913	53,463	13,791	136,823	1,308
23 Louisiana State U System	268,911	94,625	74,420	16,648	64,535	18,683
24 U of MD at College Park	267,383	145,515	21,519	7,315	80,378	12,656
25 Michigan State University	265,946	112,359	46,395	10,953	87,885	8,354
26 Indiana University	259,899	116,781	5,650	6,375	102,566	28,527
27 U of Iowa	255,348	155,249	7,084	21,394	52,571	19,050
28 Purdue University	254,917	98,151	36,485	29,765	90,403	113
29 U of MD Baltimore	239,007	99,091	26,603	41,226	34,323	37,764
30 Rutgers the State U NJ	236,793	77,156	28,163	10,965	89,916	30,593
Total, 1st 30 institutions	11,522,581	5,986,691	1,048,314	815,293	2,886,202	786,081
31 U of IL Chicago	233,098	125,109	9,743	10,989	70,677	16,580
32 U of Alabama Birmingham	231,702	194,625	168	8,443	14,077	14,389
33 U TX SW Med Ctr at Dallas	222,376	131,820	9,516	13,320	5,942	61,778
34 VA Polytech Inst & St U	216,323	77,384	58,232	18,355	52,534	9,818
35 U TX MD Anderson Cncr Ctr	212,746	94,053	0	26,717	58,853	33,123
36 University of Kentucky	211,721	86,239	37,904	12,933	61,008	13,637
37 University of Utah	197,597	127,253	2,166	6,023	35,021	27,134
38 University of Cincinnati	192,895	128,049	3,619	6,028	41,092	14,107
39 SUNY at Buffalo	186,829	96,595	5,220	11,598	50,091	23,325
40 U CA Irvine	179,866	101,735	8,384	15,803	30,581	23,363
Total, 1st 40 institutions	13,607,734	7,149,553	1,183,266	945,502	3,306,078	1,023,335
41 Iowa State University	179,196	62,024	52,115	13,177	48,733	3,147
42 Wayne State University	175,984	79,448	12,463	10,860	55,384	17,829
43 U of Missouri Columbia	174,782	68,435	16,154	4,654	78,842	6,697
44 U of South Florida	171,550	58,826	8,819	11,152	76,057	16,696
45 SUNY at Stony Brook	168,487	93,265	3,117	7,026	54,433	10,646
46 University of Connecticut	164,366	70,013	13,971	9,819	54,541	16,022
47 U Med & Dent of NJ	162,417	86,054	9,170	13,496	38,378	15,319
48 U of Tennessee System	161,898	78,611	33,867	15,391	18,474	15,555
49 Colorado State University	161,144	101,308	16,102	8,850	25,637	9,247
50 U of Nebraska at Lincoln	157,520	43,877	3,899	5,908	101,217	2,619
Total, 1st 50 institutions	15,285,078	7,891,414	1,352,943	1,045,835	3,857,774	1,137,112

See explanatory information and SOURCE at end of table.

Table B-36. R&D expenditures at public universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
51 Univ of Hawaii at Manoa	156,976	97,716	33,125	7,232	18,903	0
52 University of New Mexico	156,619	109,505	1,902	1,821	37,258	6,133
53 University of Kansas	156,467	74,494	7,049	4,155	52,380	18,389
54 Oregon State University	153,925	84,854	36,649	298	27,261	4,863
55 University of Virginia	149,547	122,868	297	7,733	11,661	6,988
56 University of Oklahoma	148,695	60,264	14,306	10,396	52,294	11,435
57 Mississippi State U	146,939	65,493	32,357	6,744	42,345	0
58 Oregon Health & Science U	136,785	111,671	2,879	11,538	0	10,697
59 UT Houston Hlth Sci Ctr	125,439	88,545	4,129	10,945	7,633	14,187
60 Clemson University	123,885	48,560	21,190	11,582	42,096	457
Total, 1st 60 institutions	16,740,355	8,755,384	1,506,826	1,118,279	4,149,605	1,210,261
61 Utah State University	121,359	74,251	18,024	6,595	16,956	5,533
62 Arizona State University	118,763	56,616	4,149	5,641	48,574	3,783
63 Med U of South Carolina	116,687	60,543	1,257	7,168	46,470	1,249
64 U CA Santa Barbara	116,372	76,828	2,956	6,001	19,341	11,246
65 U TX Hlth Sci Ctr San Ant	115,154	71,153	6,441	9,677	20,797	7,086
66 Florida State University	113,817	57,075	6,535	892	45,047	4,268
67 U of MA Worcester	111,221	79,453	22,088	3,317	0	6,363
68 U of Alaska Fairbanks	110,195	55,287	2,999	28,352	23,557	0
69 U of South Carolina	109,973	51,983	7,070	4,239	41,914	4,767
70 Washington State U	107,937	48,660	5,458	4,438	38,470	10,911
Total, 1st 70 institutions	17,881,833	9,387,233	1,583,803	1,194,599	4,450,731	1,265,467
71 Auburn University	106,347	40,097	1,146	4,683	56,227	4,194
72 U TX Med Br at Galveston	102,722	64,682	10,775	6,020	10,608	10,637
73 Virginia Commonwealth U	99,180	57,315	2,358	8,522	26,091	4,894
74 U of MA Amherst	97,976	49,576	3,969	6,181	29,538	8,712
75 U CA Riverside	94,455	25,713	5,313	4,227	50,383	8,819
76 Kansas State University	94,030	33,998	36,398	4,943	15,866	2,825
77 Oklahoma State University	90,311	25,636	24,904	3,688	34,866	1,217
78 U of New Hampshire	87,879	45,223	8,603	7,751	19,298	7,004
79 New Mexico State Univ	86,963	61,124	7,960	4,272	12,537	1,070
80 U of Central Florida	79,287	22,342	6,115	5,288	45,542	0
Total, 1st 80 institutions	18,820,983	9,812,939	1,691,344	1,250,174	4,751,687	1,314,839
81 U of Arkansas Main	78,303	23,172	34,940	4,224	11,917	4,050
82 University of Delaware	77,491	41,830	4,469	5,041	16,464	9,687
83 University of Vermont	75,597	48,810	4,052	6,434	12,338	3,963
84 University of Louisville	72,857	25,116	1,962	911	38,543	6,325
85 West Virginia University	71,311	29,440	2,276	6,328	28,261	5,006
86 SUNY at Albany	70,119	46,671	7,819	1,017	7,024	7,588
87 Texas Tech University	69,918	22,967	21,243	6,236	15,194	4,278
88 Montana St U Bozeman	69,593	34,857	16,502	7,041	11,193	0
89 University of Idaho	67,496	26,548	17,149	3,634	19,036	1,129
90 North Dakota State U	64,882	15,207	1,440	3,784	41,533	2,918
Total, 1st 90 institutions	19,538,550	10,127,557	1,803,196	1,294,824	4,953,190	1,359,783
91 U CA Santa Cruz	64,253	29,201	877	1,004	23,258	9,913
92 U of Maine	64,070	23,873	7,886	3,562	24,631	4,118
93 U of Nebraska Med Ctr	60,695	22,497	2,064	5,929	20,607	9,598
94 Temple University	60,182	41,643	961	5,400	6,290	5,888
95 U of Nevada Reno	59,229	31,386	3,692	2,338	20,448	1,365
96 San Diego St University	58,332	23,621	8,817	1,162	19,344	5,388
97 Medical Col of Georgia	52,191	21,116	692	3,478	24,742	2,163
98 U of Arkansas Medical Sci	51,921	34,219	781	2,900	9,458	4,563
99 University of Houston	51,567	21,876	15,472	1,992	7,726	4,501
100 U of Rhode Island	50,835	43,161	5,437	441	1,543	253
Total, 1st 100 institutions	20,111,825	10,420,150	1,849,875	1,323,030	5,111,237	1,407,533

See explanatory information and SOURCE at end of table.

Table B-36. R&D expenditures at public universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
101 Florida International U	44,291	23,940	11,037	8,397	518	399
102 NJ Inst of Technology	44,177	18,530	8,587	965	1,730	14,365
103 U of Alabama Huntsville	43,731	30,625	907	4,956	7,243	0
104 S Illinois U Carbondale	43,207	10,868	10,301	5,484	12,204	4,350
105 University of Wyoming	41,632	20,017	2,038	2,581	16,216	780
106 Naval Postgrad School	40,889 i	40,121 i	255 i	344 i	0 i	169 i
107 TX A&M U Sys Hlth Sci Ctr	40,859	18,384	8,138	1,050	8,424	4,863
108 U Mississippi, All Camp	39,552	30,108	6,222	378	1,450	1,394
109 Georgia State University	38,960	13,575	8,135	480	14,144	2,626
110 University of Oregon	36,881	32,232	203	155	2,850	1,441
Total, 1st 110 institutions	20,526,004	10,658,550	1,905,698	1,347,820	5,176,016	1,437,920
111 U MD Ctr for Environ Sci	36,635	12,105	4,912	86	15,525	4,007
112 Col of William & Mary	35,829	15,288	3,327	1,165	14,148	1,901
113 Univ of Montana, The	33,535	19,194	1,796	1,491	9,726	1,328
114 University of Alabama, The	33,133	22,183	2,541	1,989	6,420	0
115 George Mason University	32,881	25,992	741	874	1,048	4,226
116 U MD Biotechnology Inst	32,458	11,053	2,491	2,103	14,175	2,636
117 U of LA Lafayette	32,073	12,130	3,168	0	8,316	8,459
118 Wright State University	32,033	15,417	3,140	3,269	9,632	575
119 SUNY Hlth Sci Ctr Brklyn	31,626e	22,860e	229e	1,787e	4,094e	2,656e
120 Desert Research Institute	29,697	22,018	2,538	802	1,889	2,450
Total, 1st 120 institutions	20,855,904	10,836,790	1,930,581	1,361,386	5,260,989	1,466,158
121 U of MD Baltimore County	29,641	23,695	875	2,131	2,348	592
122 Michigan Tech University	29,613	17,620	663	4,176	6,785	369
123 Univ of Memphis, The	29,445	11,012	3,303	817	12,640	1,673
124 U of Missouri Rolla	28,799	11,929	481	3,088	11,530	1,771
125 NM Inst Mining & Tech	28,392	13,255	1,998	6,204	6,046	889
126 SUNY Col Env Sci & Frstry	27,854	4,355	2,992	2,149	17,389	969
127 Ohio University	27,146	12,898	2,528	2,022	8,850	848
128 U of Nevada Las Vegas	27,008	15,681	4,045	1,938	5,344	0
129 Jackson State University	25,663	22,750	0	0	2,913	0
130 Florida Atlantic U	25,111	14,099	1,432	9,580	0	0
Total, 1st 130 institutions	21,134,576	10,984,084	1,948,898	1,393,491	5,334,834	1,473,269
131 Old Dominion University	24,659	15,280	3,789	2,885	2,705	0
132 U PR Med Sci Campus	23,913	19,433	205	1,121	2,927	227
133 Florida A&M University	23,865	22,477	1,388	0	0	0
134 Colorado School of Mines	23,654	12,314	1,626	9,466	248	0
135 U of WI-Milwaukee	23,492	11,089	2,972	529	7,398	1,504
136 Unif Svcs U of Hlth Sci	23,247	10,105	0	0	13,142	0
137 San Jose State University	22,709	14,301	3,747	3,126	1,304	231
138 University of Akron	22,266	8,672	1,366	2,557	6,737	2,934
139 U TX at El Paso	21,889	16,167	2,875	1,321	1,526	0
140 U of MA Lowell	20,656	11,196	962	6,911	1,587	0
Total, 1st 140 institutions	21,364,926	11,125,118	1,967,828	1,421,407	5,372,408	1,478,165

See explanatory information and SOURCE at end of table.

Table B-36. R&D expenditures at public universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
141 U Southern Mississippi	20,286	18,061	708	807	710	0
142 CUNY Hunter College	19,964	10,922	1,383	17	5,608	2,034
143 South Dakota State U	19,717	8,456	8,363	368	1,057	1,473
144 U of North Dakota	19,692	15,743	0	2,458	876	615
145 SUNY at Binghamton	18,992	6,392	2,286	2,493	4,755	3,066
146 U of Missouri Kansas City	18,795	8,176	287	1,665	8,268	399
147 U PR Mayaguez Campus	18,627	9,015	2,700	1,059	5,000	853
148 SUNY Upstate Med U	17,948	10,824	255	906	830	5,133
149 U TX at Arlington	17,486	9,413	1,674	787	5,612	0
150 CUNY City College	17,099	13,022	1,903	1,602	342	230
Total, 1st 150 institutions	21,553,532	11,235,142	1,987,387	1,433,569	5,405,466	1,491,968
Total, all other sampled institutions	787,312	459,820	92,142	55,910	136,309	43,131

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-37. R&D expenditures at private universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
Total, all institutions	10,382,234	7,495,911	235,679	744,170	1,011,295	895,179
1 Johns Hopkins U[1]	999,246	879,741	2,177	18,737	50,348	48,243
2 Stanford University	482,906	384,468	5,433	35,012	30,920	27,073
3 U of Pennsylvania	469,852	351,996	1,952	28,227	43,655	44,022
4 Cornell University	443,828	240,466	62,569	22,261	80,446	38,086
5 MA Institute of Tech	435,495	304,319	181	97,256	6,058	27,681
6 Washington University	406,642	284,928	6,519	24,865	58,634	31,696
7 Baylor Col of Medicine	381,461	234,394	3,731	18,389	56,413	68,534
8 Duke University	375,133	218,109	7,748	104,063	19,275	25,938
9 Harvard University	372,107	300,414	1,739	14,056	0	55,898
10 Columbia U in City of NY	354,497	317,928	1,122	2,885	13,481	19,081
Total, 1st 10 institutions	4,721,167	3,516,763	93,171	365,751	359,230	386,252
11 U of Southern California	340,597	246,207	15,542	22,949	55,899	0
12 Yale University	321,514	250,702	523	14,119	18,487	37,683
13 Northwestern University	257,933	158,129	3,778	14,294	59,852	21,880
14 Emory University	236,997	170,317	4,001	7,950	19,857	34,872
15 University of Rochester	234,261	166,945	9,839	23,782	20,092	13,603
16 California Inst of Tech	215,085	193,554	1,050	10,225	10,256	0
17 Case Western Reserve U	198,253	158,852	3,735	6,190	11,636	17,840
18 University of Chicago	194,125	155,566	4,451	1,746	14,088	18,274
19 New York University	190,722	129,897	2,739	6,535	25,514	26,037
20 Vanderbilt University	186,504	146,230	397	3,036	21,160	15,681
Total, 1st 20 institutions	7,097,158	5,293,162	139,226	476,577	616,071	572,122
21 Mt Sinai Sch Med	176,946	109,344	2,698	18,133	17,134	29,637
22 Boston University	172,031	150,771	933	8,450	0	11,877
23 University of Miami	153,772	111,803	2,249	17,554	8,025	14,141
24 Princeton University	149,411	78,620	3,102	8,246	41,983	17,460
25 Yeshiva University	148,230	107,800	0	0	40,430	0
26 Rockefeller U, The	145,571	55,362	6,079	2,844	52,493	28,793
27 Carnegie Mellon U	144,882	97,463	3,401	23,491	0	20,527
28 Dartmouth College	109,096	69,844	3,591	4,389	23,733	7,539
29 Tufts University	105,806	71,669	2,266	7,726	13,904	10,241
30 Tulane University	99,761	55,669	3,027	8,654	20,414	11,997
Total, 1st 30 institutions	8,502,664	6,201,507	166,572	576,064	834,187	724,334
31 Georgetown University	99,228	93,626	606	4,996	0	0
32 Wake Forest University	98,343	78,021	807	13,330	1,357	4,828
33 Brown University	91,636	58,367	74	1,777	28,024	3,394
34 Woods Hole Oceanogr Inst	91,029	75,670	572	97	2,273	12,417
35 Thomas Jefferson U	88,936	64,881	3,933	12,326	1,686	6,110
36 Medical Col of Wisconsin	83,857	64,003	172	2,126	8,674	8,882
37 George Washington U	73,805	51,757	1,815	5,081	754	14,398
38 Rush University	70,219	37,301	59	9,128	20,148	3,583
39 Brandeis University	52,818	30,031	118	0	6,000	16,669
40 University of Notre Dame	46,096	29,801	2,996	3,631	9,668	0
Total, 1st 40 institutions	9,298,631	6,784,965	177,724	628,556	912,771	794,615
41 Rensselaer Polytech Inst	45,010	25,894	5,781	5,928	4,734	2,673
42 Rice University	42,675	35,682	1,784	3,196	0	2,013
43 Syracuse University	42,476	30,036	3,693	1,420	2,223	5,104
44 University of Dayton	41,343	34,102	400	5,138	1,439	264
45 Loyola U of Chicago	37,156	26,474	383	1,202	5,736	3,361
46 C R Drew U of Med & Sci	36,717	27,415	8,230	1,055	17	0
47 Northeastern University	34,467	23,532	289	5,530	5,116	0
48 MCP Hahnemann U	32,462	22,944	4,249	2,604	312	2,353
49 Saint Louis University	32,442	28,117	224	3,196	633	272
50 Boston College	30,768	20,123	733	2,050	5,392	2,470
Total, 1st 50 institutions	9,674,147	7,059,284	203,490	659,875	938,373	813,125

See explanatory information and SOURCE at end of table.

Table B-37. R&D expenditures at private universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
51 Howard University	30,148	27,848	191	2,108	0	1
52 Lehigh University	29,058	13,961	6,151	5,532	3,203	211
53 Drexel University	27,698	20,159	717	251	4,307	2,264
54 Loma Linda University	26,451 i	20,494 i	0 i	4,538 i	1,296 i	123 i
55 Eastern VA Med School	26,250	11,389	232	6,264	110	8,255
56 New York Medical College	24,283	18,344	161	3,626	0	2,152
57 Morehouse School of Med	19,670	18,127	104	1,047	392	0
58 Brigham Young University	19,171	11,659	1,255	2,384	2,810	1,063
59 OGI Schl Sci & Eng OHSU	18,798	14,072	702	1,725	1,955	344
60 Rose-Hulman Inst of Tech	18,540	1,457	28	71	0	16,984
Total, 1st 60 institutions	9,914,214	7,216,794	213,031	687,421	952,446	844,522
61 Creighton University	17,674	7,275	1,014	5,942	3,345	98
62 Catholic U of America	17,539	13,308	39	585	2,741	866
63 Clark Atlanta University	17,173	14,354	67	69	585	2,098
64 Mercer University	15,337	9,076	0	1,115	5,146	0
65 Illinois Inst of Tech	14,722	10,917	1,624	1,295	886	0
66 Inst of Paper Sci & Tech	13,929	2,947	827	6,828	2,892	435
67 Stevens Inst of Tech	13,855	8,094	3,035	0	0	2,726
68 University of Denver	12,944	9,248	1,233	1,508	337	618
69 Albany Medical College	12,836	8,562	0	69	2,977	1,228
70 University of Tulsa	12,553	7,341	1,095	3,258	859	0
Total, 1st 70 institutions	10,062,776	7,307,916	221,965	708,090	972,214	852,591
71 Rochester Inst of Tech	11,416	5,612	2,306	2,705	0	793
72 Meharry Medical College	10,268 i	10,015 i	0 i	0 i	0 i	253 i
73 Teachers Col, Columbia U	9,676	5,617	0	0	0	4,059
74 Tuskegee University	9,539	7,259	0	0	0	2,280
75 Worcester Polytech Inst	9,348	4,506	9	1,059	2,375	1,399
76 Hampton University	9,158	8,377	0	48	643	90
77 Southern Methodist U	8,948	5,587	384	946	1,520	511
78 Clarkson University	8,322	4,286	762	1,566	1,708	0
79 Polytechnic University	8,277	4,063	1,568	2,510	0	136
80 Finch U Hlth Sci Chicago	8,037	6,256	0	6	1,516	259
Total, 1st 80 institutions	10,155,765	7,369,494	226,994	716,930	979,976	862,371
81 Embry-Riddle Aero Univ	7,711	6,987	0	522	90	112
82 Marquette University	7,236	3,309	1,575	1,010	618	724
83 U Ctrl Del Caribe Esc Med	6,943	6,622	0	0	318	3
84 Alfred University	6,678	1,166	958	3,244	1,023	287
85 Harvey Mudd College	6,443 i	1,156 i	93 i	459 i	566 i	4,169 i
86 Florida Inst of Tech	6,195	2,614	404	1,420	1,163	594
87 Villanova University	5,969 i	4,520 i	150 i	982 i	284 i	33 i
88 Wesleyan University	5,846	3,893	3	11	1,317	622
89 New School University	5,791	1,083	0	0	0	4,708
90 Wellesley College	5,498	3,446	0	188	0	1,864
Total, 1st 90 institutions	10,220,075	7,404,290	230,177	724,766	985,355	875,487

See explanatory information and SOURCE at end of table.

Table B-37. R&D expenditures at private universities and colleges, by source of funds: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institu-tional funds	Other
91 Xavier University of LA	5,113	4,666	20	0	374	53
92 Ponce School of Medicine	3,842	3,736	0 i	0 i	91 i	15 i
93 Texas Christian U	3,678	2,824	203	578	73	0
94 Fordham University	3,639	1,980	417	0	141	1,101
95 Spelman College	3,406	3,262	0	21	116	7
96 Institute of Textile Tech	3,171	0	0	3,039	132	0
97 Hampshire College	3,152	998	85	38	158	1,873
98 Bryn Mawr College	3,066	855	94	0	2,117	0
99 Alliant University	3,062e	1,578e	67 i	266 i	393 i	758 i
100 Clark University	3,039	2,605	87	0	0	347
Total, 1st 100 institutions	10,255,243	7,426,794	231,150	728,708	988,950	879,641
Total, all other sampled institutions	126,991	69,117	4,529	15,462	22,345	15,538

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-38. Industry-sponsored R&D expenditures at universities and colleges, ranked by fiscal year 2001 industry-sponsored R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
Total, all institutions	1,422,170	1,488,895	1,605,258	1,736,668	1,888,171	2,027,937	2,152,389	2,233,649
1 Duke University	30,241	32,560	42,797	48,178	65,114	121,630	109,791	104,063
2 MA Institute of Tech	55,500	52,757	62,699	59,204	60,538	75,444	83,082	97,256
3 Pennsylvania State U	45,408	50,225	52,771	56,666	63,319	65,698	64,393	67,658
4 Georgia Institute of Tech	27,832	26,104	39,136	48,094	58,377	62,752	64,508	59,691
5 Ohio State University	14,883	21,827	30,870	36,685	40,401	52,034	57,075	54,736
6 U of Washington	33,199	36,892	36,180	37,744	38,370	51,319	57,405	43,312
7 U of MD Baltimore	15,411	17,797	19,450	18,581	20,783	11,572	29,892	41,226
8 NC State University	22,101	26,264	26,067	26,834	31,429	31,478	32,804	37,858
9 U CA San Diego	9,764	11,363	15,130	23,725	27,010	31,356	34,541	36,845
10 University of Florida	10,858	10,611	23,532	25,217	21,393	28,183	34,879	36,417
Total, 1st 10 institutions	265,197	286,400	348,632	380,928	426,734	531,466	568,370	579,062
11 U CA San Francisco	10,977	13,890	16,989	26,931	34,369	36,830	34,964	35,759
12 Texas A&M University	28,576	31,452	26,947	31,816	33,674	34,722	31,084	35,110
13 Stanford University	14,714	16,446	19,167	23,839	27,404	31,516	41,013	35,012
14 University of Michigan	26,732	28,987	34,975	31,411	33,029	34,432	35,515	34,439
15 U CA Los Angeles	13,394	14,892	15,788	23,144	28,310	34,404	33,427	32,539
16 U TX at Austin	4,268	3,257 i	15,029	29,887	31,326	39,729	24,740	30,310
17 Purdue University	21,639	25,147	25,720	26,090	26,988	28,856	29,997	29,765
18 U of Alaska Fairbanks	4,441	5,470	9,965	12,769	16,081	19,340	19,686	28,352
19 U of Pennsylvania	12,107	11,900	9,445	18,964	25,593	30,269	32,632	28,227
20 U CA Berkeley	12,547	13,842	15,128	21,253	20,902	21,928	27,851	26,791
Total, 1st 20 institutions	414,592	451,683	537,785	627,032	704,410	843,492	879,279	895,366
21 U TX MD Anderson Cncr Ctr	0	0	0	0	0	0	20,271	26,717
22 University of Minnesota	23,726	23,427	23,726	24,196	24,094	23,933	26,392	26,454
23 Washington University	20,629	21,977	18,700	21,205	19,869	19,964	22,691	24,865
24 University of Rochester	10,261	12,810	11,605	14,147	17,653	18,226	17,595	23,782
25 Carnegie Mellon U	14,112	17,763	21,521	18,016	19,136	17,761	21,136	23,491
26 U of Southern California	14,502	17,668	21,592	21,606	24,125	23,111	25,298	22,949
27 University of Arizona	15,053	15,300	13,106	14,964	16,392	16,660	22,412	22,934
28 Cornell University	17,199	17,752	14,915	8,215	11,253	12,053	12,697	22,261
29 U of Iowa	10,205	11,359	14,862	15,712	17,262	20,778	17,262	21,394
30 Johns Hopkins U	10,418	10,652	12,388	13,917	14,761	15,317	15,751	18,737
Total, 1st 30 institutions	550,697	600,391	690,200	779,010	868,955	1,011,295	1,080,784	1,128,950
31 Baylor Col of Medicine	11,919	12,217	13,655	14,420	16,588	19,400	17,578	18,389
32 VA Polytech Inst & St U	12,580	11,500	11,365	11,385	12,132	13,287	14,869	18,355
33 Mt Sinai Sch Med	5,934	5,571	3,288	6,994	7,588	9,257	12,141	18,133
34 University of Miami	11,140	11,831	12,321	12,200	13,338	15,752	17,028	17,554
35 U of WI-Madison	13,729	12,948	13,871	14,832	14,371	14,172	16,127	17,237
36 U CA Davis	7,423	8,053	9,387	10,731	14,238	16,242	17,891	16,989
37 Louisiana State U System	9,037	10,432	11,298	13,331	12,157	13,187	15,108	16,648
38 U CA Irvine	6,243	9,139	10,391	12,712	15,981	16,539	18,615	15,803
39 U of Tennessee System	10,699	11,077	11,759	12,675	12,551	15,093	12,740	15,391
40 University of Pittsburgh	7,561	8,208	7,880	9,753	10,436	12,990	14,676	14,817
Total, 1st 40 institutions	646,962	701,367	795,415	898,043	998,335	1,157,214	1,237,557	1,298,266
41 Northwestern University	9,203	7,257	9,378	10,498	13,292	14,168	12,860	14,294
42 Yale University	11,145	13,623	15,322	16,629	15,829	15,242	14,355	14,119
43 Harvard University	10,228	8,395 i	12,522	11,588	10,361	11,790	12,189	14,056
44 University of Georgia	8,773	10,595	9,861	10,283	10,534	11,034	12,276	13,791
45 U Med & Dent of NJ	8,984	8,164	7,741	8,519	8,841	10,736	10,001	13,496
46 Wake Forest University	9,064	11,144	12,697	16,246	15,546	16,320	15,125	13,330
47 U TX SW Med Ctr at Dallas	13,092	14,986	13,801	12,737	13,926	16,197	14,861	13,320
48 Iowa State University	8,185	8,017	7,407	8,499	13,717	14,905	15,075	13,177
49 University of Kentucky	11,790	12,011	13,374	11,259	13,668	15,109	11,213	12,933
50 Thomas Jefferson U	7,455	8,105	9,553	9,851	10,155	12,081	12,324	12,326
Total, 1st 50 institutions	744,881	803,664	907,071	1,014,152	1,124,204	1,294,796	1,367,836	1,433,108

See explanatory information and SOURCE at end of table.

Table B-38. Industry-sponsored R&D expenditures at universities and colleges, ranked by fiscal year 2001 industry-sponsored R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
51 SUNY at Buffalo	8,143	13,390	13,186	14,480	3,021	5,485	5,590	11,598
52 Clemson University	5,410	5,469	5,887	5,253	6,641	8,445	9,768	11,582
53 Oregon Health & Science U	945	4,685	4,597	7,036	1,757 i	1,599 i	12,430	11,538
54 U of South Florida	6,338	4,782	3,282	3,747	5,397	6,236	10,873	11,152
55 U of IL Urbana-Champaign	13,527	11,832	12,365	11,761	13,636	12,864	12,693	10,992
56 U of IL Chicago	5,061	6,174	6,746	6,947	9,424	9,683	11,010	10,989
57 Rutgers the State U NJ	7,796	7,797	7,079	8,848	9,038	9,833	8,843	10,965
58 Michigan State University	6,271	7,853	6,818	6,973	7,250	7,647	11,230	10,953
59 UT Houston Hlth Sci Ctr	6,313	6,212	7,403	9,780	11,106	12,872	13,029	10,945
60 Wayne State University	7,988	7,973	8,977	10,959	11,207	10,660	10,932	10,860
Total, 1st 60 institutions	812,673	879,831	983,411	1,099,936	1,202,681	1,380,120	1,474,234	1,544,682
61 University of Oklahoma	4,887	5,630	6,650	6,871	7,661	7,756	9,499	10,396
62 California Inst of Tech	4,947	5,105	4,447	3,789	2,001	6,332	8,919	10,225
63 University of Connecticut	7,651	6,640	8,026	8,572	9,905	10,355	13,540	9,819
64 U TX Hlth Sci Ctr San Ant	7,300	8,922	9,021	9,051	10,845	10,777	10,707	9,677
65 Florida Atlantic U	1,909	1,777	1,776	1,922	3,981	5,681	6,387	9,580
66 Colorado School of Mines	5,087	6,601 i	8,114	8,038	9,877	9,292	7,870	9,466
67 Rush University	4,993	4,970	5,872	7,232	8,911	8,154	8,762	9,128
68 University of Colorado	13,312	7,607	8,902	9,403	9,963	9,867	9,356	9,002
69 Colorado State University	11,793	5,736	6,320	5,712	6,155	7,213	6,519	8,850
70 Tulane University	10,018	10,115	11,276	12,913	10,734	11,914	10,340	8,654
Total, 1st 70 institutions	884,570	942,934	1,053,815	1,173,439	1,282,714	1,467,461	1,566,133	1,639,479
71 Virginia Commonwealth U	7,089	6,074	7,435	9,172	8,478	8,062	7,495	8,522
72 Boston University	8,695	8,804	8,726	8,916	9,461	7,601	8,574	8,450
73 U of Alabama Birmingham	14,772	19,219	17,354	16,233	16,842	10,181	7,752	8,443
74 Florida International U	413	512	527	543	559	729	1,843	8,397
75 Princeton University	8,089	6,335	4,483	4,441	5,242	5,965	6,881	8,246
76 Emory University	8,966	11,473	6,383	6,700	7,670	7,794	7,513	7,950
77 U of New Hampshire	1,476	1,723	1,315	1,600	3,635	4,395	4,923	7,751
78 University of Virginia	14,826	15,442	4,552	7,627	12,428	4,891	6,954	7,733
79 Tufts University	5,131	4,687e	4,970	5,344	5,560	7,027	8,118	7,726
80 U of MD at College Park	18,433	25,431	24,044	5,009	2,127	3,053	1,028	7,315
Total, 1st 80 institutions	972,460	1,042,634	1,133,604	1,239,024	1,354,716	1,527,159	1,627,214	1,720,012
81 Univ of Hawaii at Manoa	434	299	8,088	5,944	10,949	13,021	11,158	7,232
82 Med U of South Carolina	5,534	6,026	1,134	1,371	2,737	2,202	2,880	7,168
83 Montana St U Bozeman	3,139	5,143	5,489	6,976	7,378 i	7,079	8,523	7,041
84 SUNY at Stony Brook	5,012	5,850	5,848	7,119	6,908	7,416	7,567	7,026
85 U of NC Chapel Hill	2,379	2,403	2,592	3,311	4,860	5,886	6,835	6,971
86 U of MA Lowell	3,695	3,599	5,779	4,920	5,099	6,234	7,204	6,911
87 Inst of Paper Sci & Tech	1,971	1,235	1,606 i	1,976e	1,976e	1,250 i	1,250 i	6,828
88 Mississippi State U	5,913	6,165	7,599	5,469	7,470	7,892	7,955	6,744
89 Utah State University	2,265	3,322	4,614	3,356	2,744	3,998	7,885	6,595
90 New York University	5,929	6,461	10,461	8,502	8,391	7,502	7,767	6,535
Total, 1st 90 institutions	1,008,731	1,083,137	1,186,814	1,287,968	1,413,228	1,589,639	1,696,238	1,789,063
91 University of Vermont	4,878	5,467	5,231	5,399	5,513	7,112	5,713	6,434
92 Indiana University	5,689	5,815	5,357	4,242	6,333	4,820	5,384	6,375
93 West Virginia University	4,058	3,160	3,608	3,719	4,547	5,532	7,185	6,328
94 Eastern VA Med School	4,064	5,975	5,039	5,762	7,448	8,561	6,044	6,264
95 Texas Tech University	5,474	5,441	5,634	5,650	5,549	5,682	5,946	6,236
96 NM Inst Mining & Tech	6,057	5,165	6,895	4,723	6,385	7,034	6,373	6,204
97 Case Western Reserve U	5,708	5,427	5,784	5,662	6,984	6,157	5,890	6,190
98 U of MA Amherst	4,868	4,760	5,738	5,778	6,236	5,796	5,535	6,181
99 University of Cincinnati	10,405	8,630	16,697	22,907	24,388	5,989	5,166	6,028
100 University of Utah	4,087	4,319	3,825	10,374	10,007	8,951	7,940	6,023
Total, 1st 100 institutions	1,064,019	1,137,296	1,250,622	1,362,184	1,496,618	1,655,273	1,757,414	1,851,326

See explanatory information and SOURCE at end of table.

Table B-38. Industry-sponsored R&D expenditures at universities and colleges, ranked by fiscal year 2001 industry-sponsored R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
101 U TX Med Br at Galveston	6,115	5,991	6,008	7,301	5,319	6,366	6,146	6,020
102 U CA Santa Barbara	2,711	2,576	2,988	3,106	3,809	4,742	5,499	6,001
103 Creighton University	3,467	3,885	4,517	5,094	6,475	6,242	6,084	5,942
104 U of Nebraska Med Ctr	3,639	3,903	4,286	3,941	5,471	5,445	5,486	5,929
105 Rensselaer Polytech Inst	5,925	6,135	6,210	9,340	10,974	10,084	6,581	5,928
106 U of Nebraska at Lincoln	3,558	3,145	3,465	4,651	4,721e	5,466	5,991	5,908
107 Arizona State University	5,780	7,169	2,758	3,376	4,609	4,267	4,700	5,641
108 Lehigh University	7,303	6,767	6,832	6,790	6,074	6,669	5,636	5,532
109 Northeastern University	2,002	2,334	2,072	2,827	3,530	2,981	3,567	5,530
110 S Illinois U Carbondale	2,347	2,325	2,033	1,954	2,306	2,462	2,355	5,484
Total, 1st 110 institutions	1,106,866	1,181,526	1,291,791	1,410,564	1,549,906	1,709,997	1,809,459	1,909,241
111 Temple University	6,011	5,458	5,173	4,690	8,855	1,284	188	5,400
112 U of Central Florida	2,272	2,272	1,207	9,800	4,019	4,873	5,833	5,288
113 University of Dayton	5,313	5,834	6,160	5,541	6,285	4,454	5,598	5,138
114 George Washington U	2,676	4,314	5,704	7,865	7,575	4,001	4,220	5,081
115 University of Delaware	4,117	3,681	2,964	3,361	3,859	4,152	3,757	5,041
116 Georgetown University	6,773	6,148	6,737	8,421	9,383	7,939	9,795	4,996
117 U of Alabama Huntsville	2,948	3,390	4,752	5,110	5,883	5,071	4,532	4,956
118 Kansas State University	3,111	2,701	2,243	2,943	3,445	3,746	4,057	4,943
119 U TX at Dallas	1,220	1,166 i	1,113	1,275	981	1,336	4,715	4,715e
120 Auburn University	3,055	3,243	4,212	4,644	4,452	3,649	3,917	4,683
Total, 1st 120 institutions	1,144,362	1,219,733	1,332,056	1,464,214	1,604,643	1,750,502	1,856,071	1,959,482
121 U of Missouri Columbia	10,299	10,114	3,158	3,777	4,348	3,832	4,007	4,654
122 Loma Linda University	2,514	2,499	3,273	3,291	3,192	4,310	4,181	4,538 i
123 Washington State U	3,151	2,537	3,149	3,138	3,158	3,158	4,579	4,438
124 Dartmouth College	2,833	2,196	2,571	3,280	2,574	4,544	4,274	4,389
125 New Mexico State Univ	3,516	2,444	2,556	2,393	2,843	2,892	3,466	4,272
126 U of South Carolina	8,046	7,869	3,657	2,058	2,022	2,176	2,822	4,239
127 U CA Riverside	1,103	1,109	1,702	1,905	1,929	3,893	3,345	4,227
128 U of Arkansas Main	5,605	4,809	4,474	4,130	5,145	6,198	4,746	4,224
129 Michigan Tech University	2,885	2,840	3,636	3,819	3,747	3,578	3,834	4,176
130 University of Kansas	4,320	8,149	9,356	8,201	8,281	14,393	15,712	4,155
Total, 1st 130 institutions	1,188,634	1,264,299	1,369,588	1,500,206	1,641,882	1,799,476	1,907,037	2,002,794
131 East Carolina University	1,952	1,624	1,441	1,476	1,996	2,627	3,158	3,853
132 North Dakota State U	1,261	1,532	1,534	1,273	1,449	1,300	2,044	3,784
133 Oklahoma State University	3,381	2,902	2,334	3,252	2,887	3,447	4,076	3,688
134 University of Idaho	7,495	5,977	6,478	6,551 i	6,496	1,903	2,764	3,634
135 University of Notre Dame	3,710	2,665	3,511	1,979	2,020	2,920	2,279	3,631
136 New York Medical College	1,807	1,792	1,532	1,810	2,461	3,742	3,294	3,626
137 U of Maine	4,406	4,158	4,214	5,609	7,074	2,324	2,899	3,562
138 Medical Col of Georgia	3,575	3,484	2,995	2,578	3,072	3,603	3,609	3,478
139 U of MA Worcester	3,776	2,492	1,146	2,129	2,631	4,265	3,467	3,317
140 Wright State University	1,429	1,641	1,250	1,409	1,325	1,717	2,968	3,269
Total, 1st 140 institutions	1,221,426	1,292,566	1,396,023	1,528,272	1,673,293	1,827,324	1,937,595	2,038,636
141 University of Tulsa	2,652	2,921	2,820	3,913	2,772	3,561	3,179	3,258
142 Alfred University	2,012	1,967	1,755	1,633	1,946	2,414	3,066	3,244
143 Wichita State University	430	584	532	763	378	1,043	3,500	3,220
144 Rice University	3,837	2,726	1,898	1,779	1,435	1,645	2,858	3,196
145 Saint Louis University	1,545	2,087	2,483	2,618	2,733	3,113	3,018	3,196
146 San Jose State University	4,324 i	4,324 i	4,324 i	4,324 i	4,324e	4,324e	4,324e	3,126
147 U of Missouri Rolla	1,122	1,316	2,364	1,575	1,361	2,079	2,543	3,088
148 Institute of Textile Tech	2,239	2,586	2,742	2,792	2,650	2,161	2,357	3,039
149 Vanderbilt University	3,033	3,124	3,097	2,583	4,036	3,730	4,063	3,036
150 U of Arkansas Medical Sci	2,158	2,884	3,733	3,440	3,040	3,889	3,321	2,900
Total, 1st 150 institutions	1,244,778	1,317,085	1,421,771	1,553,692	1,697,968	1,855,283	1,969,824	2,069,939

See explanatory information and SOURCE at end of table.

Table B-38. Industry-sponsored R&D expenditures at universities and colleges, ranked by fiscal year 2001 industry-sponsored R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
151 Columbia U in City of NY	1,632	1,478	2,559	1,637	3,018	2,630	3,362	2,885
152 Old Dominion University	1,061	1,771	2,233	2,357	1,974	2,787	3,533	2,885
153 Rockefeller U, The	4,031	2,660	2,800	2,577	2,641	2,707	2,775	2,844
154 Rochester Inst of Tech	1,420	1,122	1,246	1,395	1,462e	769	917	2,705
155 MCP Hahnemann U	5,556	4,675	5,060	8,525	6,835	1,552	2,967	2,604
156 University of Wyoming	1,185	1,930	2,086	2,226	3,114	3,206	2,941	2,581
157 University of Akron	3,822	3,542	3,313	3,411	2,767	2,150	3,090	2,557
158 Polytechnic University	2,589	1,566	2,857	3,074	2,093	2,135	2,100	2,510
159 SUNY at Binghamton	1,502	2,074	1,799	1,516	2,726	3,584	3,327	2,493
160 U of North Dakota	728	1,814	2,971	2,166	2,357	2,308	2,356	2,458
Total, 1st 160 institutions	1,268,304	1,339,717	1,448,695	1,582,576	1,726,955	1,879,111	1,997,192	2,096,461
161 Brigham Young University	1,712	1,815	1,006 i	820 i	751	2,781	2,028	2,384
162 U of Nevada Reno	1,674	1,756	1,399	1,806	1,394	1,374	2,557	2,338
163 SUNY Col Env Sci & Frstry	2,044	1,772 i	1,500	1,831	1,768	2,037	1,914	2,149
164 U of MD Baltimore County	537	1,231	1,803	2,484	2,858	2,649	2,159	2,131
165 Medical Col of Wisconsin	4,164	2,222	3,019	2,757	1,692	2,151	1,931	2,126
166 Howard University	1,741	2,342	1,057	1,059	1,519	1,774	1,874	2,108
167 U MD Biotechnology Inst	925	781	870	927	986	848	915	2,103
168 Idaho State University	2,546	1,431	3,479	2,332	1,055	1,915	2,256	2,060
169 Boston College	406	404	280	205	577	934	1,487	2,050
170 University of Toledo	1,694	1,467	1,613 i	1,241	934	1,245	2,013	2,025
Total, 1st 170 institutions	1,285,747	1,354,938	1,464,721	1,598,038	1,740,489	1,896,819	2,016,326	2,117,935
171 Ohio University	2,690	2,526	2,322	2,132	1,948	2,843	1,591	2,022
172 University of Houston	1,183	1,600	1,341	1,815	1,707	1,762	1,689	1,992
173 University of Alabama, The	2,332	1,920	1,407	1,345	1,301	1,577	1,941	1,989
174 Tennessee Tech U	1,235	1,488	1,367	1,252	2,492	1,715	690	1,957
175 U of Nevada Las Vegas	1,582	1,828	1,443	2,058	2,461	2,596	2,131	1,938
176 U North TX Hlth Sci Ctr	573	343	384	258	553	2,389	2,105	1,891
177 University of New Mexico	4,038	3,087	2,389	2,799	3,331	2,940	1,853	1,821
178 SUNY Hlth Sci Ctr Brklyn	4,306	5,232	4,808 i	4,385	3,045	2,261	1,787	1,787e
179 Brown University	1,467	1,057	1,716	1,506	1,603	1,795	1,530	1,777
180 University of Chicago	1,324	1,679	1,306	1,634	1,684	1,621	1,462	1,746
Total, 1st 180 institutions	1,306,477	1,375,698	1,483,204	1,617,222	1,760,614	1,918,318	2,033,105	2,136,855
181 OGI Schl Sci & Eng OHSU	2,973	3,042	2,757	1,253	1,316e	1,429	1,315	1,725
182 U of Missouri Kansas City	834	636	154	348	505	427	660	1,665
183 CUNY City College	1,211	1,322	1,039	2,668	950	1,531	1,659	1,602
184 Clarkson University	1,658	1,698	1,779	1,512	1,500	1,226	1,447	1,566
185 University of Denver	136	648	311	581	776	664	67	1,508
186 Univ of Montana, The	826	682	1,511	1,494	1,059	1,247	1,474	1,491
187 Cleveland State U	701	1,246	1,184 i	1,291 i	1,330e	1,448 i	969	1,447
188 Milwaukee School of Eng	884 i	1,021 i	1,159 i	1,296 i	1,463	1,434	1,472	1,444
189 Florida Inst of Tech	947	1,999 i	2,354	1,040	1,822	1,091	920	1,420
190 Syracuse University	4,522	2,321	2,550	1,910 i	1,418	1,470	6,329	1,420
Total, 1st 190 institutions	1,321,169	1,390,313	1,498,002	1,630,615	1,772,753	1,930,285	2,049,417	2,152,143

See explanatory information and SOURCE at end of table.

Table B-38. Industry-sponsored R&D expenditures at universities and colleges, ranked by fiscal year 2001 industry-sponsored R&D expenditures: fiscal years 1994-2001

[Dollars in thousands]

Institution and ranking	1994	1995	1996	1997	1998	1999	2000	2001
191 Oakland University	914	868	1,068	1,002	889	1,002	1,002e	1,370
192 Northern Illinois U	988	2,127	2,222	1,201	837	709	1,050	1,356
193 Northern Arizona U	913	769	1,235	244	1,124	1,315	1,407	1,349
194 U TX at El Paso	140	247	428	522	776	697	941	1,321
195 U of South Alabama	2,063	1,392	1,981	2,353	1,779	1,779e	1,298	1,298e
196 Illinois Inst of Tech	1,254	1,634	4,000	3,524	2,469	2,451	1,549	1,295
197 Cal Poly St U	657 i	594 i	530 i	468 i	272	664	894	1,255
198 Smith College	0	0 i	0 i	0	26	0	1,747	1,240
199 Loyola U of Chicago	3,795	3,461 i	4,271	3,211	3,024	1,922	1,484	1,202
200 Indiana State University	250	388	477	556	4,611	4,591	3,928	1,180
Total, 1st 200 institutions	1,332,143	1,401,793	1,514,214	1,643,696	1,788,560	1,945,415	2,064,717	2,165,009
Total, all other sampled institutions	90,027	87,102	91,044	92,972	99,611	82,522	87,672	68,640

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-39. R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	32,723,078	4,999,648	2,800,364	1,826,827	1,311,067	19,189,112	581,865	1,435,540	578,655
1 Johns Hopkins U[1]	999,246	284,936	111,414	36,577	94,056	436,484	3,940	9,698	22,141
2 U CA Los Angeles	693,801	46,854	68,170	14,774	17,301	493,355	10,688	35,135	7,524
3 U of WI-Madison	604,143	82,652	49,127	29,040	14,371	370,813	22,838	35,284	18
4 University of Michigan	600,523	143,487	25,654	5,378	14,301	325,083	11,049	75,406	165
5 U of Washington	589,626	49,629	29,784	73,448	10,898	406,532	9,316	10,019	0
6 U CA San Diego	556,533	50,301	33,185	119,096	61,214	274,810	5,831	10,705	1,391
7 U CA San Francisco	524,975	0	13,845	0	0	509,607	0	1,523	0
8 Stanford University	482,906	111,194	54,140	8,270	20,196	275,312	4,906	8,888	0
9 U of Pennsylvania	469,852	14,247	23,695	752	9,999	381,006	3,483	31,948	4,722
10 University of Minnesota	462,011	41,659	35,028	13,528	12,704	336,099	8,201	14,792	0
Total, 1st 10 institutions	5,983,616	824,959	444,042	300,863	255,040	3,809,101	80,252	233,398	35,961
11 Pennsylvania State U	458,066	183,823	55,196	22,550	10,131	148,925	12,530	19,577	5,334
12 U CA Berkeley	446,273	128,984	79,469	6,513	6,895	165,525	8,244	44,406	6,237
13 Cornell University	443,828	53,444	61,239	3,790	19,812	284,381	6,425	14,737	0
14 MA Institute of Tech	435,495	148,795	92,608	21,390	39,664	77,062	1,431	6,152	48,393
15 U CA Davis	432,396	41,928	21,329	30,580	3,931	316,573	1,378	13,247	3,430
16 Texas A&M University	407,041	124,227	25,848	80,789	10,199	153,264	2,898	7,543	2,273
17 Washington University	406,642	6,915	12,940	4,615	8,478	365,713	2,225	4,784	972
18 U of IL Urbana-Champaign	390,863	104,108	47,013	33,855	58,459	109,062	9,320	23,922	5,124
19 Ohio State University	390,652	96,297	23,906	8,746	24,739	197,406	5,719	30,546	3,293
20 Baylor Col of Medicine	381,461	0	0	0	0	381,461	0	0	0
Total, 1st 20 institutions	10,176,333	1,713,480	863,590	513,691	437,348	6,008,473	130,422	398,312	111,017
21 Duke University	375,133	16,530	13,377	8,406	5,267	312,897	3,862	14,794	0
22 Harvard University	372,107	4,931	35,170	13,765	4,261	278,884	3,964	31,132	0
23 University of Arizona	367,128	52,486	72,131	10,549	9,063	203,319	3,403	16,149	28
24 University of Colorado	365,472	33,021	71,362	51,590	7,556	181,571	9,635	9,274	1,463
25 University of Florida	359,312	54,908	23,388	5,878	8,319	248,524	6,320	11,975	0
26 Columbia U in City of NY	354,497	16,702	34,612	46,375	6,669	240,793	3,469	5,709	168
27 University of Pittsburgh	348,792	15,614	13,139	597	4,176	298,753	4,791	10,570	1,152
28 U of Southern California	340,597	49,865	10,030	14,440	66,606	185,096	5,013	7,666	1,881
29 Yale University	321,514	7,309	20,108	2,041	5,693	279,749	4,720	1,894	0
30 Georgia Institute of Tech	306,533	201,581	21,086	16,924	43,810	7,108	4,128	5,512	6,384
Total, 1st 30 institutions	13,687,418	2,166,427	1,177,993	684,256	598,768	8,245,167	179,727	512,987	122,093
31 U of NC Chapel Hill	303,576	0	17,161	12,615	8,937	235,300	4,282	25,281	0
32 NC State University	299,259	81,949	25,574	16,099	17,029	145,775	1,238	8,968	2,627
33 U TX at Austin	295,104	110,119	58,845	24,932	39,806	41,544	4,336	13,898	1,624
34 University of Georgia	272,298	7,249	10,870	14,687	7,907	188,396	8,421	34,768	0
35 Louisiana State U System	268,911	44,813	17,231	32,636	4,608	160,836	889	7,443	455
36 U of MD at College Park	267,383	75,574	47,085	9,464	22,736	47,443	3,873	61,208	0
37 Michigan State University	265,946	20,845	45,432	2,618	5,442	163,803	5,401	21,461	944
38 Indiana University	259,899	3,170	34,958	3,927	4,528	149,353	9,652	34,401	19,910
39 Northwestern University	257,933	47,799	22,674	756	4,739	166,035	2,894	9,523	3,513
40 U of Iowa	255,348	24,772	15,080	2,353	1,617	199,891	4,201	7,235	199
Total, 1st 40 institutions	16,433,075	2,582,717	1,472,903	804,343	716,117	9,743,543	224,914	737,173	151,365
41 Purdue University	254,917	78,561	20,461	4,011	12,325	116,206	4,010	18,864	479
42 U of MD Baltimore	239,007	0	0	0	0	239,007	0	0	0
43 Emory University	236,997	0	9,394	18	767	221,105	1,340	4,373	0
44 Rutgers the State U NJ	236,793	33,575	26,867	20,511	11,997	106,092	8,420	27,826	1,505
45 University of Rochester	234,261	49,396	12,860	847	2,706	156,659	10,161	697	935
46 U of IL Chicago	233,098	20,646	9,107	1,699	5,360	171,420	5,832	10,977	8,057
47 U of Alabama Birmingham	231,702	5,441	3,950	0	516	216,201	5,495	99	0
48 U TX SW Med Ctr at Dallas	222,376	0	0	0	0	222,376	0	0	0
49 VA Polytech Inst & St U	216,323	80,349	9,298	15,734	4,581	94,248	2,015	10,098	0
50 California Inst of Tech	215,085	46,377	107,479	10,771	4,762	33,779	0	942	10,975
Total, 1st 50 institutions	18,753,634	2,897,062	1,672,319	857,934	759,131	11,320,636	262,187	811,049	173,316

See explanatory information and SOURCE at end of table.

Table B-39. R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 U TX MD Anderson Cncr Ctr	212,746	0	4,409	0	7,341	200,996	0	0	0
52 University of Kentucky	211,721	29,767	7,709	567	2,527	154,696	872	3,556	12,027
53 Case Western Reserve U	198,253	22,050	6,025	356	319	153,369	789	4,951	10,394
54 University of Utah	197,597	25,565	14,605	4,989	17,013	130,721	2,271	2,433	0
55 University of Chicago	194,125	0	33,192	4,526	2,915	147,810	2,620	3,062	0
56 University of Cincinnati	192,895	26,114	4,793	276	527	154,214	628	3,386	2,957
57 New York University	190,722	0	4,743	632	14,000	152,633	11,233	7,022	459
58 SUNY at Buffalo	186,829	29,725	9,189	1,283	8,266	127,859	3,360	5,041	2,106
59 Vanderbilt University	186,504	15,103	9,903	158	999	150,059	3,601	6,322	359
60 U CA Irvine	179,866	18,035	17,693	3,982	7,821	117,618	3,768	8,539	2,410
Total, 1st 60 institutions	20,704,892	3,063,421	1,784,580	874,703	820,859	12,810,611	291,329	855,361	204,028
61 Iowa State University	179,196	44,099	10,536	4,370	10,026	87,087	638	14,125	8,315
62 Mt Sinai Sch Med	176,946	0	0	0	0	176,946	0	0	0
63 Wayne State University	175,984	10,963	14,516	108	1,176	140,180	2,749	5,375	917
64 U of Missouri Columbia	174,782	22,637	4,956	1,204	1,667	124,701	5,274	14,072	271
65 Boston University	172,031	18,219	13,499	3,106	2,976	118,512	4,879	2,074	8,766
66 U of South Florida	171,550	19,063	2,328	18,752	864	116,446	10,092	4,005	0
67 SUNY at Stony Brook	168,487	15,110	25,283	17,199	7,977	95,885	3,464	3,569	0
68 University of Connecticut	164,366	28,225	7,174	9,127	2,214	100,474	6,608	8,382	2,162
69 U Med & Dent of NJ	162,417	0	0	0	0	162,417	0	0	0
70 U of Tennessee System	161,898	36,580	9,579	6,736	10,852	90,646	195	5,834	1,476
Total, 1st 70 institutions	22,412,549	3,258,317	1,872,451	935,305	858,611	14,023,905	325,228	912,797	225,935
71 Colorado State University	161,144	28,708	8,564	15,671	2,481	89,852	3,004	3,068	9,796
72 U of Nebraska at Lincoln	157,520	24,584	9,965	8,347	6,546	79,194	5,802	9,662	13,420
73 Univ of Hawaii at Manoa	156,976	8,955	26,405	47,185	737	58,455	382	4,763	10,094
74 University of New Mexico	156,619	24,737	6,611	1,961	3,081	62,419	7,168	6,180	44,462
75 University of Kansas	156,467	15,850	6,269	10,900	4,577	104,210	1,474	5,726	7,461
76 Oregon State University	153,925	17,005	4,783	36,295	2,871	89,498	120	2,220	1,133
77 University of Miami	153,772	2,089	2,331	30,957	140	107,753	7,749	2,753	0
78 University of Virginia	149,547	25,838	11,538	5,189	4,464	98,876	3,001	641	0
79 Princeton University	149,411	46,947	29,244	13,293	10,601	26,431	3,892	19,003	0
80 University of Oklahoma	148,695	14,026	13,690	29,571	3,323	66,128	11,937	10,020	0
Total, 1st 80 institutions	23,956,625	3,467,056	1,991,851	1,134,674	897,432	14,806,721	369,757	976,833	312,301
81 Yeshiva University	148,230	0	0	0	0	148,230	0	0	0
82 Mississippi State U	146,939	44,736	5,282	6,298	3,093	79,165	956	4,950	2,459
83 Rockefeller U, The	145,571	0	4,489	0	4,669	136,413	0	0	0
84 Carnegie Mellon U	144,882	40,635	9,311	3,373	63,592	11,757	6,460	8,827	927
85 Oregon Health & Science U	136,785	0	0	0	0	131,290	5,495	0	0
86 UT Houston Hlth Sci Ctr	125,439	0	0	0	0	125,439	0	0	0
87 Clemson University	123,885	50,307	8,047	1,021	3,614	50,058	329	8,718	1,791
88 Utah State University	121,359	59,162	3,475	8,522	1,569	34,166	1,782	3,513	9,170
89 Arizona State University	118,763	42,485	22,231	9,798	5,159	15,307	6,399	10,114	7,270
90 Med U of South Carolina	116,687	0	0	0	0	116,687	0	0	0
Total, 1st 90 institutions	25,285,165	3,704,381	2,044,686	1,163,686	979,128	15,655,233	391,178	1,012,955	333,918
91 U CA Santa Barbara	116,372	35,393	24,757	22,963	10,721	4,334	5,912	10,531	1,761
92 U TX Hlth Sci Ctr San Ant	115,154	0	0	0	0	115,154	0	0	0
93 Florida State University	113,817	11,889	42,586	14,893	6,726	12,834	5,922	18,967	0
94 U of MA Worcester	111,221	0	0	0	0	111,221	0	0	0
95 U of Alaska Fairbanks	110,195	7,344	13,599	30,488	16,300	16,601	0	517	25,346
96 U of South Carolina	109,973	25,573	16,499	16,449	3,450	27,153	3,596	12,537	4,716
97 Dartmouth College	109,096	14,137	3,834	1,570	4,708	74,490	4,685	492	5,180
98 Washington State U	107,937	15,366	5,715	2,963	428	71,436	243	10,535	1,251
99 Auburn University	106,347	31,568	4,128	733	437	58,552	262	2,131	8,536
100 Tufts University	105,806	6,263	2,952	970	1,314	84,659	3,357	6,291	0
Total, 1st 100 institutions	26,391,083	3,851,914	2,158,756	1,254,715	1,023,212	16,231,667	415,155	1,074,956	380,708

See explanatory information and SOURCE at end of table.

Table B-39. R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
101 U TX Med Br at Galveston	102,722	1,796	0	0	0	100,926	0	0	0
102 Tulane University	99,761	7,925	3,276	1,360	893	76,704	346	3,998	5,259
103 Georgetown University	99,228	0	5,723	0	209	90,273	146	2,877	0
104 Virginia Commonwealth U	99,180	3,279	5,777	215	221	85,501	3,096	1,091	0
105 Wake Forest University	98,343	0	1,447	0	145	96,131	0	0	620
106 U of MA Amherst	97,976	18,811	20,876	4,537	14,700	29,894	5,360	2,916	882
107 U CA Riverside	94,455	11,528	7,168	3,849	1,647	60,284	1,742	5,850	2,387
108 Kansas State University	94,030	15,099	9,957	774	1,705	60,229	1,151	3,530	1,585
109 Brown University	91,636	14,337	9,546	5,499	12,280	42,396	2,666	4,912	0
110 Woods Hole Oceanogr Inst	91,029	19,180	0	71,849	0	0	0	0	0
Total, 1st 110 institutions	27,359,443	3,943,869	2,222,526	1,342,798	1,055,012	16,874,005	429,662	1,100,130	391,441
111 Oklahoma State University	90,311	18,589	6,105	1,728	1,854	50,096	348	8,630	2,961
112 Thomas Jefferson U	88,936	0	0	0	0	88,936	0	0	0
113 U of New Hampshire	87,879	19,101	2,872	40,098	1,004	15,501	1,197	5,733	2,373
114 New Mexico State Univ	86,963	50,500	5,851	3,913	3,912	20,202	726	1,278	581
115 Medical Col of Wisconsin	83,857	0	0	0	0	83,857	0	0	0
116 U of Central Florida	79,287	25,575	16,754	9,416	610	4,329	1,247	5,902	15,454
117 U of Arkansas Main	78,303	12,353	7,002	2,189	1,696	51,556	384	3,123	0
118 University of Delaware	77,491	25,360	12,830	8,252	2,983	21,871	1,364	4,831	0
119 University of Vermont	75,597	1,738	1,560	410	1,807	66,357	1,283	170	2,272
120 George Washington U	73,805	11,172	2,782	149	14,654	36,149	990	6,523	1,386
Total, 1st 120 institutions	28,181,872	4,108,257	2,278,282	1,408,953	1,083,532	17,312,859	437,201	1,136,320	416,468
121 University of Louisville	72,857	6,588	2,770	215	917	56,292	2,130	3,945	0
122 West Virginia University	71,311	17,269	4,047	4,530	596	43,380	177	67	1,245
123 Rush University	70,219	0	0	0	0	68,935	1,284	0	0
124 SUNY at Albany	70,119	0	8,541	7,226	2,272	41,335	2,213	8,532	0
125 Texas Tech University	69,918	15,751	6,028	11,425	1,704	31,241	126	2,891	752
126 Montana St U Bozeman	69,593	10,477	11,799	530	334	42,114	0	2,334	2,005
127 University of Idaho	67,496	12,122	2,496	4,284	1,557	42,957	118	2,764	1,198
128 North Dakota State U	64,882	1,513	3,140	151	1,217	48,943	589	5,549	3,780
129 U CA Santa Cruz	64,253	2,259	31,117	13,048	2,883	10,840	776	3,297	33
130 U of Maine	64,070	8,805	5,996	19,969	1,487	23,912	233	2,785	883
Total, 1st 130 institutions	28,866,590	4,183,041	2,354,216	1,470,331	1,096,499	17,722,808	444,847	1,168,484	426,364
131 U of Nebraska Med Ctr	60,695	0	0	0	0	60,695	0	0	0
132 Temple University	60,182	1,814	6,979	242	793	36,228	11,604	2,522	0
133 U of Nevada Reno	59,229	5,996	5,637	6,464	936	31,445	1,217	1,694	5,840
134 San Diego St University	58,332	7,843	3,744	2,952	3,071	22,063	6,714	5,142	6,803
135 Brandeis University	52,818	0	5,239	0	1,680	22,902	1,621	21,376	0
136 Medical Col of Georgia	52,191	0	0	0	0	52,191	0	0	0
137 U of Arkansas Medical Sci	51,921	0	0	0	0	51,921	0	0	0
138 University of Houston	51,567	19,320	9,405	1,026	4,052	11,804	3,445	2,514	1
139 U of Rhode Island	50,835	5,357	609	24,245	333	8,995	4,408	1,042	5,846
140 University of Notre Dame	46,096	11,222	13,946	0	1,852	8,114	1,729	1,226	8,007
Total, 1st 140 institutions	29,410,456	4,234,593	2,399,775	1,505,260	1,109,216	18,029,166	475,585	1,204,000	452,861
141 Rensselaer Polytech Inst	45,010	34,069	5,519	1,774	2,766	669	0	213	0
142 Florida International U	44,291	19,211	1,999	6,412	2,095	5,649	574	8,351	0
143 NJ Inst of Technology	44,177	31,572	6,932	0	3,119	652	0	0	1,902
144 U of Alabama Huntsville	43,731	16,671	9,769	5,772	9,600	1,494	0	333	92
145 S Illinois U Carbondale	43,207	9,179	1,518	776	416	25,714	658	2,750	2,196
146 Rice University	42,675	9,972	12,701	1,101	11,295	6,282	664	660	0
147 Syracuse University	42,476	8,941	4,890	1,047	5,430	2,417	1,254	5,509	12,988
148 University of Wyoming	41,632	3,644	3,069	6,483	535	19,715	771	1,572	5,843
149 University of Dayton	41,343	38,997	1,372	184	198	369	99	0	124
150 Naval Postgrad School	40,889 i	10,876 i	2,617 i	9,854 i	8,341 i	0 i	0 i	5,561 i	3,640 i
Total, 1st 150 institutions	29,839,887	4,417,725	2,450,161	1,538,663	1,153,011	18,092,127	479,605	1,228,949	479,646

See explanatory information and SOURCE at end of table.

Table B-39. R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
151 TX A&M U Sys Hlth Sci Ctr	40,859	125	0	5	0	40,693	32	4	0
152 U Mississippi, All Camp	39,552	5,786	13,400	0	582	13,676	107	2,118	3,883
153 Georgia State University	38,960	0	4,073	800	1,353	15,962	6,586	10,186	0
154 Loyola U of Chicago	37,156	0	2,591	57	165	30,351	1,615	2,377	0
155 University of Oregon	36,881	290	7,911	1,685	2,816	17,783	4,373	2,023	0
156 C R Drew U of Med & Sci	36,717	0	0	0	0	36,717	0	0	0
157 U MD Ctr for Environ Sci	36,635	0	0	36,635	0	0	0	0	0
158 Col of William & Mary	35,829	0	5,728	24,956	1,139	1,925	634	1,447	0
159 Northeastern University	34,467	13,845	9,696	15	1,647	6,165	1,579	1,520	0
160 Univ of Montana, The	33,535	0	1,454	850	799	23,287	164	4,242	2,739
Total, 1st 160 institutions	30,210,478	4,437,771	2,495,014	1,603,666	1,161,512	18,278,686	494,695	1,252,866	486,268
161 University of Alabama, The	33,133	19,965	4,099	1,780	612	2,721	1,917	1,551	488
162 George Mason University	32,881	9,145	308	7,399	1,733	4,448	1,871	7,977	0
163 MCP Hahnemann U	32,462	0	0	0	0	31,938	524	0	0
164 U MD Biotechnology Inst	32,458	0	0	8,066	0	24,392	0	0	0
165 Saint Louis University	32,442	0	44	725	206	31,328	53	1	85
166 U of LA Lafayette	32,073	6,153	742	438	3,694	18,550	197	1,090	1,209
167 Wright State University	32,033	4,085	1,902	412	4,242	19,406	1,438	413	135
168 SUNY Hlth Sci Ctr Brklyn	31,626e	0e	0e	0e	0e	31,626e	0e	0e	0e
169 Boston College	30,768	0	7,802	532	14,590	2,950	628	4,266	0
170 Howard University	30,148	2,425	2,004	0	3,255	19,534	1,693	1,225	12
Total, 1st 170 institutions	30,530,502	4,479,544	2,511,915	1,623,018	1,189,844	18,465,579	503,016	1,269,389	488,197
171 Desert Research Institute	29,697	0	0	22,765	0	0	0	0	6,932
172 U of MD Baltimore County	29,641	5,907	5,590	10,412	1,258	3,600	831	2,043	0
173 Michigan Tech University	29,613	19,688	1,916	1,132	1,083	4,844	0	391	559
174 Univ of Memphis, The	29,445	3,552	845	3,753	1,127	3,241	9,788	5,551	1,588
175 Lehigh University	29,058	23,902	3,254	847	44	932	71	8	0
176 U of Missouri Rolla	28,799	21,610	5,278	1,025	721	136	4	12	13
177 NM Inst Mining & Tech	28,392	15,846	1,959	7,361	149	2,728	3	0	346
178 SUNY Col Env Sci & Frstry	27,854	9,749e	2,228e	2,785e	0e	12,813e	0e	279e	0e
179 Drexel University	27,698	22,767	2,180	806	1,626	319	0	0	0
180 Ohio University	27,146	11,876	4,411	770	107	7,377	1,491	469	645
Total, 1st 180 institutions	30,817,845	4,614,441	2,539,576	1,674,674	1,195,959	18,501,569	515,204	1,278,142	498,280
181 U of Nevada Las Vegas	27,008	4,732	4,532	11,713	863	2,763	226	2,176	3
182 Loma Linda University	26,451 i	0 i	0 i	0 i	0 i	23,324 i	0 i	897 i	2,230 i
183 Eastern VA Med School	26,250	0	0	0	0	26,250	0	0	0
184 Jackson State University	25,663	502	3,743	3,523	6,455	4,841	1,636	1,016	3,947
185 Florida Atlantic U	25,111	11,233	1,053	2,593	1,530	4,386	1,591	2,383	342
186 Old Dominion University	24,659	13,122	1,769	3,692	1,565	3,126	702	683	0
187 New York Medical College	24,283	0	0	0	0	24,283	0	0	0
188 U PR Med Sci Campus	23,913	0	0	0	0	23,913	0	0	0
189 Florida A&M University	23,865	3,743	1,851	2,324	1,955	13,759	0	233	0
190 Colorado School of Mines	23,654	16,288	5,693	957	564	0	0	152	0
Total, 1st 190 institutions	31,068,702	4,664,061	2,558,217	1,699,476	1,208,891	18,628,214	519,359	1,285,682	504,802

See explanatory information and SOURCE at end of table.

Table B-39. R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
191 U of WI-Milwaukee	23,492	4,260	4,608	3,699	1,367	3,294	584	5,468	212
192 Unif Svcs U of Hlth Sci	23,247	0	0	0	0	23,247	0	0	0
193 San Jose State University	22,709	1,776	3,146	7,968	1,605	1,007	5,714	182	1,311
194 University of Akron	22,266	7,175	8,178	156	598	638	132	5,389	0
195 U TX at El Paso	21,889	7,321	1,483	5,467	1,200	4,637	823	958	0
196 U of MA Lowell	20,656	6,443	5,208	1,983	607	3,005	1,142	1,616	652
197 U Southern Mississippi	20,286	1,010	4,914	5,703	279	1,426	330	351	6,273
198 CUNY Hunter College	19,964	0	5,584	490	171	8,232	2,899	2,397	191
199 South Dakota State U	19,717	1,450	482	632	6	16,207	0	940	0
200 U of North Dakota	19,692	9,831	516	1,591	92	5,642	0	471	1,549
Total, 1st 200 institutions	31,282,620	4,703,327	2,592,336	1,727,165	1,214,816	18,695,549	530,983	1,303,454	514,990
Total, all other sampled institutions	1,440,458	296,321	208,028	99,662	96,251	493,563	50,882	132,086	63,665

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-40. Federally financed R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	19,190,873	2,843,770	1,971,510	1,182,649	884,555	11,178,689	398,103	544,467	187,130
1 Johns Hopkins U[1]	879,741	278,116	109,309	34,923	92,941	347,565	3,691	6,613	6,583
2 U of Washington	435,103	30,547	20,482	66,244	9,238	299,001	7,998	1,593	0
3 University of Michigan	396,117	91,611	20,839	3,232	8,793	212,732	5,701	53,209	0
4 Stanford University	384,468	92,036	48,502	5,926	17,145	214,486	3,880	2,493	0
5 U of Pennsylvania	351,996	10,666	21,681	164	8,672	296,706	3,050	8,997	2,060
6 U CA San Diego	343,276	24,190	25,428	71,006	50,008	163,951	4,931	3,762	0
7 Columbia U in City of NY	317,928	13,852	33,143	44,889	6,062	212,271	3,268	4,312	131
8 U CA Los Angeles	312,858	28,438	31,178	8,561	9,636	223,320	7,251	4,451	23
9 University of Colorado	308,643	24,704	64,575	47,056	6,624	149,083	8,097	7,140	1,364
10 MA Institute of Tech	304,319	102,226	89,881	18,652	27,496	59,054	1,326	1,840	3,844
Total, 1st 10 institutions	4,034,449	696,386	465,018	300,653	236,615	2,178,169	49,193	94,410	14,005
11 U of WI-Madison	304,009	50,565	32,878	21,731	9,004	158,022	16,715	15,094	0
12 Harvard University	300,414	4,156	31,346	12,415	3,399	232,400	3,648	13,050	0
13 Washington University	284,928	4,247	9,644	2,508	6,822	256,345	1,864	3,498	0
14 U CA San Francisco	277,489	0	11,198	0	0	265,865	0	426	0
15 University of Pittsburgh	268,571	7,823	11,341	486	3,045	234,847	4,540	5,402	1,087
16 University of Minnesota	264,289	25,585	26,233	6,566	9,967	187,638	5,269	3,031	0
17 Yale University	250,702	5,887	17,867	1,836	5,091	215,209	3,978	834	0
18 U of Southern California	246,207	37,144	6,910	10,499	63,695	120,682	3,895	2,996	386
19 Pennsylvania State U	245,951	110,576	36,777	10,656	5,440	67,800	6,864	6,220	1,618
20 Cornell University	240,466	29,776	44,655	1,722	13,967	144,510	1,942	3,894	0
Total, 1st 20 institutions	6,717,475	972,145	693,867	369,072	357,045	4,061,487	97,908	148,855	17,096
21 Baylor Col of Medicine	234,394	0	0	0	0	234,394	0	0	0
22 U of NC Chapel Hill	221,615	0	13,755	7,640	5,501	172,779	3,871	18,069	0
23 Duke University	218,109	12,075	10,799	4,719	4,495	171,792	3,184	11,045	0
24 U CA Berkeley	208,080	54,554	52,604	3,515	5,207	82,235	4,239	5,706	20
25 University of Arizona	199,484	31,493	40,321	6,523	6,577	105,356	1,705	7,509	0
26 U of IL Urbana-Champaign	195,316	60,525	30,747	11,765	39,467	39,942	5,754	4,127	2,989
27 U TX at Austin	195,184	72,061	42,500	10,355	31,753	27,681	3,735	6,710	389
28 U of Alabama Birmingham	194,625	3,532	2,838	0	411	182,745	5,091	8	0
29 California Inst of Tech	193,554	41,810	103,362	10,319	4,687	31,553	0	726	1,097
30 Emory University	170,317	0	6,350	0	397	162,073	1,027	470	0
Total, 1st 30 institutions	8,748,153	1,248,195	997,143	423,908	455,540	5,272,037	126,514	203,225	21,591
31 University of Rochester	166,945	41,036	11,298	725	2,464	104,254	6,508	660	0
32 Ohio State University	161,092	25,802	13,936	5,287	2,913	94,278	4,068	14,489	319
33 Case Western Reserve U	158,852	16,639	5,361	340	222	133,371	651	2,268	0
34 Northwestern University	158,129	28,746	15,507	601	2,815	104,710	2,305	3,402	43
35 University of Chicago	155,566	0	27,664	4,148	2,487	115,766	2,588	2,913	0
36 U of Iowa	155,249	9,489	12,700	897	1,123	125,891	3,423	1,706	20
37 U CA Davis	154,937	14,571	14,233	12,924	2,022	106,675	965	2,539	1,008
38 Boston University	150,771	16,275	12,961	2,960	2,941	100,993	4,773	1,504	8,364
39 Texas A&M University	149,382	31,514	11,292	55,728	6,678	40,985	1,761	1,320	104
40 Vanderbilt University	146,230	11,750	8,305	143	908	117,681	2,643	4,468	332
Total, 1st 40 institutions	10,305,306	1,444,017	1,130,400	507,661	480,113	6,316,641	156,199	238,494	31,781
41 U of MD at College Park	145,515	39,841	32,982	7,068	13,336	16,447	2,677	33,164	0
42 Georgia Institute of Tech	143,836	94,589	9,894	7,941	20,557	3,335	1,937	2,587	2,996
43 University of Florida	139,744	25,759	14,446	2,905	5,188	85,415	4,233	1,798	0
44 U TX SW Med Ctr at Dallas	131,820	0	0	0	0	131,820	0	0	0
45 New York University	129,897	0	4,165	26	11,326	101,365	9,219	3,610	186
46 University of Cincinnati	128,049	12,244	1,929	98	127	112,087	94	1,435	35
47 University of Utah	127,253	15,283	10,502	3,761	11,839	83,618	1,618	632	0
48 U of IL Chicago	125,109	10,384	5,972	451	3,784	96,837	3,475	2,694	1,512
49 University of Virginia	122,868	19,932	9,901	4,382	3,540	81,774	2,759	580	0
50 Indiana University	116,781	602	17,231	1,174	2,248	82,786	6,380	5,838	522
Total, 1st 50 institutions	11,616,178	1,662,651	1,237,422	535,467	552,058	7,112,125	188,591	290,832	37,032

See explanatory information and SOURCE at end of table.

Table B-40. Federally financed R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 Michigan State University	112,359	6,970	28,919	645	2,874	59,016	3,853	9,979	103
52 University of Miami	111,803	1,463	2,217	27,240	140	70,619	7,625	2,499	0
53 Oregon Health & Science U	111,671	0	0	0	0	106,328	5,343	0	0
54 University of New Mexico	109,505	20,384	5,570	1,825	2,675	41,371	5,050	1,942	30,688
55 Mt Sinai Sch Med	109,344	0	0	0	0	109,344	0	0	0
56 Yeshiva University	107,800	0	0	0	0	107,800	0	0	0
57 U CA Irvine	101,735	7,433	12,331	2,660	4,893	67,873	3,115	2,780	650
58 Colorado State University	101,308	19,973	6,900	13,143	1,624	48,151	2,839	1,736	6,942
59 U of MD Baltimore	99,091	0	0	0	0	99,091	0	0	0
60 Purdue University	98,151	30,109	13,134	2,683	4,865	41,501	2,262	3,439	158
Total, 1st 60 institutions	12,678,945	1,748,983	1,306,493	583,663	569,129	7,863,219	218,678	313,207	75,573
61 Univ of Hawaii at Manoa	97,716	5,825	13,645	30,569	704	36,896	237	3,074	6,766
62 Carnegie Mellon U	97,463	25,672	7,251	314	44,379	8,271	4,336	6,779	461
63 SUNY at Buffalo	96,595	17,080	4,109	665	2,694	67,588	1,463	2,234	762
64 NC State University	95,875	32,403	12,176	5,239	7,955	34,246	597	2,352	907
65 Louisiana State U System	94,625	19,823	10,861	10,665	812	50,635	469	1,314	46
66 U TX MD Anderson Cncr Ctr	94,053	0	3,172	0	2,058	88,823	0	0	0
67 Georgetown University	93,626	0	5,324	0	200	85,315	145	2,642	0
68 SUNY at Stony Brook	93,265	7,084	16,748	10,408	4,839	50,667	2,653	866	0
69 UT Houston Hlth Sci Ctr	88,545	0	0	0	0	88,545	0	0	0
70 University of Kentucky	86,239	13,318	5,307	373	1,954	60,341	749	1,134	3,063
Total, 1st 70 institutions	13,616,947	1,870,188	1,385,086	641,896	634,724	8,434,546	229,327	333,602	87,578
71 U Med & Dent of NJ	86,054	0	0	0	0	86,054	0	0	0
72 Oregon State University	84,854	10,654	3,908	30,081	2,197	36,364	2	575	1,073
73 U of MA Worcester	79,453	0	0	0	0	79,453	0	0	0
74 Wayne State University	79,448	4,225	7,453	54	575	64,031	1,805	1,305	0
75 Princeton University	78,620	23,363	18,987	7,812	5,979	17,546	2,195	2,738	0
76 U of Tennessee System	78,611	14,608	7,486	4,865	6,091	44,255	119	1,052	135
77 Wake Forest University	78,021	0	866	0	145	76,951	0	0	59
78 VA Polytech Inst & St U	77,384	32,817	4,135	12,693	2,756	22,598	1,210	1,175	0
79 Rutgers the State U NJ	77,156	12,271	13,166	8,734	4,945	30,684	3,029	4,241	86
80 U CA Santa Barbara	76,828	23,566	19,170	13,227	7,528	3,127	4,221	5,518	471
Total, 1st 80 institutions	14,413,376	1,991,692	1,460,257	719,362	664,940	8,895,609	241,908	350,206	89,402
81 Woods Hole Oceanogr Inst	75,670	15,368	0	60,302	0	0	0	0	0
82 University of Kansas	74,494	7,895	2,736	2,383	567	54,887	1,205	1,877	2,944
83 Utah State University	74,251	48,154	2,658	3,048	1,155	14,796	1,131	1,804	1,505
84 Tufts University	71,669	4,217	2,384	216	1,031	61,006	1,935	880	0
85 U TX Hlth Sci Ctr San Ant	71,153	0	0	0	0	71,153	0	0	0
86 University of Connecticut	70,013	5,640	3,653	5,052	752	48,914	3,910	2,092	0
87 Dartmouth College	69,844	10,294	2,434	782	3,673	47,443	3,473	268	1,477
88 U of Missouri Columbia	68,435	8,446	2,151	624	940	48,950	3,000	4,324	0
89 University of Georgia	66,913	1,065	3,377	5,628	1,300	49,294	3,585	2,664	0
90 Mississippi State U	65,493	30,887	1,611	5,185	939	22,869	183	2,431	1,388
Total, 1st 90 institutions	15,121,311	2,123,658	1,481,261	802,582	675,297	9,314,921	260,330	366,546	96,716
91 Thomas Jefferson U	64,881	0	0	0	0	64,881	0	0	0
92 U TX Med Br at Galveston	64,682	765	0	0	0	63,917	0	0	0
93 Medical Col of Wisconsin	64,003	0	0	0	0	64,003	0	0	0
94 Iowa State University	62,024	16,995	5,811	2,640	3,044	25,448	87	7,415	584
95 New Mexico State Univ	61,124	39,664	5,255	2,972	3,100	8,211	655	1,018	249
96 Med U of South Carolina	60,543	0	0	0	0	60,543	0	0	0
97 University of Oklahoma	60,264	3,661	7,654	13,597	277	28,057	4,426	2,592	0
98 U of South Florida	58,826	6,494	704	11,178	168	35,731	3,817	734	0
99 Brown University	58,367	9,239	5,136	3,756	7,769	29,599	1,868	1,000	0
100 Virginia Commonwealth U	57,315	1,797	3,856	57	58	48,836	2,166	545	0
Total, 1st 100 institutions	15,733,340	2,202,273	1,509,677	836,782	689,713	9,744,147	273,349	379,850	97,549

See explanatory information and SOURCE at end of table.

Table B-40. Federally financed R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
101 Florida State University	57,075	7,099	19,716	10,675	3,017	6,016	3,907	6,645	0
102 Arizona State University	56,616	18,454	9,700	8,657	3,102	8,385	4,251	1,814	2,253
103 Tulane University	55,669	3,531	1,805	715	747	41,666	60	3,345	3,800
104 Rockefeller U, The	55,362	0	2,594	0	1,451	51,317	0	0	0
105 U of Alaska Fairbanks	55,287	5,095	6,590	27,109	105	14,575	0	486	1,327
106 U of South Carolina	51,983	15,061	8,495	5,827	1,679	14,110	2,416	4,020	375
107 George Washington U	51,757	8,371	2,399	134	13,644	23,062	949	2,383	815
108 U of MA Amherst	49,576	6,605	11,495	2,426	9,948	14,740	3,884	478	0
109 University of Vermont	48,810	904	920	299	1,253	43,959	494	71	910
110 Washington State U	48,660	8,622	4,589	2,612	406	29,223	218	2,425	565
Total, 1st 110 institutions	16,264,135	2,276,015	1,577,980	895,236	725,065	9,991,200	289,528	401,517	107,594
111 Clemson University	48,560	23,994	4,363	571	689	15,698	295	2,926	24
112 SUNY at Albany	46,671	0	1,036	3,362	923	35,658	1,438	4,254	0
113 U of New Hampshire	45,223	7,377	1,908	25,935	576	5,574	993	2,615	245
114 U of Nebraska at Lincoln	43,877	5,783	6,021	3,875	1,167	20,905	3,666	1,556	904
115 U of Rhode Island	43,161	4,935	559	22,999	196	7,705	3,809	578	2,380
116 University of Delaware	41,830	13,213	9,118	5,955	1,786	7,151	1,113	3,494	0
117 Temple University	41,643	1,391	6,384	198	622	25,133	7,230	685	0
118 Naval Postgrad School	40,121 i	10,672 i	2,528 i	9,669 i	8,341 i	0 i	0 i	5,497 i	3,414 i
119 Auburn University	40,097	15,112	2,947	274	114	15,444	186	1,129	4,891
120 Rush University	37,301	0	0	0	0	36,405	896	0	0
Total, 1st 120 institutions	16,692,619	2,358,492	1,612,844	968,074	739,479	10,160,873	309,154	424,251	119,452
121 Rice University	35,682	7,007	10,359	1,101	10,836	5,105	654	620	0
122 Montana St U Bozeman	34,857	6,353	9,532	263	250	16,155	0	982	1,322
123 U of Arkansas Medical Sci	34,219	0	0	0	0	34,219	0	0	0
124 University of Dayton	34,102	32,310	1,267	172	137	207	9	0	0
125 Kansas State University	33,998	5,500	8,358	272	946	16,563	577	1,015	767
126 University of Oregon	32,232	137	6,766	1,461	2,548	16,016	4,048	1,256	0
127 U of Nevada Reno	31,386	3,710	4,344	4,122	836	16,950	868	539	17
128 U of Alabama Huntsville	30,625	13,049	7,157	4,650	4,630	875	0	228	36
129 U Mississippi, All Camp	30,108	4,930	11,879	0	582	8,331	99	1,861	2,426
130 Syracuse University	30,036	5,848	4,548	844	3,242	2,163	1,250	3,418	8,723
Total, 1st 130 institutions	17,019,864	2,437,336	1,677,054	980,959	763,486	10,277,457	316,659	434,170	132,743
131 Brandeis University	30,031	0	3,721	0	1,631	17,263	1,474	5,942	0
132 University of Notre Dame	29,801	7,549	12,814	0	1,703	5,446	1,337	620	332
133 West Virginia University	29,440	7,567	2,518	2,629	349	15,671	63	20	623
134 U CA Santa Cruz	29,201	1,457	11,894	6,209	2,041	6,176	436	981	7
135 Saint Louis University	28,117	0	33	603	206	27,229	46	0	0
136 Howard University	27,848	1,981	1,878	0	2,878	18,240	1,693	1,171	7
137 C R Drew U of Med & Sci	27,415	0	0	0	0	27,415	0	0	0
138 University of Idaho	26,548	6,210	1,426	2,171	1,210	14,206	75	774	476
139 Loyola U of Chicago	26,474	0	1,913	44	163	21,694	1,415	1,245	0
140 George Mason University	25,992	7,668	260	7,352	1,476	2,910	1,728	4,598	0
Total, 1st 140 institutions	17,300,731	2,469,768	1,713,511	999,967	775,143	10,433,707	324,926	449,521	134,188
141 Rensselaer Polytech Inst	25,894	18,391	3,522	1,218	2,206	520	0	37	0
142 U CA Riverside	25,713	3,090	5,088	1,153	646	12,700	1,534	1,502	0
143 Oklahoma State University	25,636	7,051	2,092	392	764	11,395	30	2,281	1,631
144 University of Louisville	25,116	2,240	1,182	35	36	19,988	1,153	482	0
145 Florida International U	23,940	10,384	1,080	3,466	1,132	3,053	310	4,515	0
146 U of Maine	23,873	2,099	4,739	8,796	562	6,827	165	685	0
147 U of MD Baltimore County	23,695	3,488	4,990	9,072	1,016	3,365	463	1,301	0
148 San Diego St University	23,621	1,840	2,275	1,783	1,433	11,931	3,715	587	57
149 Northeastern University	23,532	8,842	7,318	15	1,262	4,690	1,162	243	0
150 U of Arkansas Main	23,172	6,250	4,702	797	135	10,704	41	543	0
Total, 1st 150 institutions	17,544,923	2,533,443	1,750,499	1,026,694	784,335	10,518,880	333,499	461,697	135,876

See explanatory information and SOURCE at end of table.

Table B-40. Federally financed R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
151 Texas Tech University	22,967	5,249	1,864	5,897	872	8,865	31	189	0
152 MCP Hahnemann U	22,944	0	0	0	0	22,599	345	0	0
153 SUNY Hlth Sci Ctr Brklyn	22,860e	0e	0e	0e	0e	22,860e	0e	0e	0e
154 Jackson State University	22,750	445	3,318	3,123	5,722	4,292	1,450	901	3,499
155 U of Nebraska Med Ctr	22,497	0	0	0	0	22,497	0	0	0
156 Florida A&M University	22,477	2,465	1,754	2,324	1,955	13,759	0	220	0
157 U of Central Florida	22,342	3,799	5,363	2,803	325	2,669	1,146	2,701	3,536
158 University of Alabama, The	22,183	12,955	2,585	1,350	258	1,737	1,877	1,136	285
159 Desert Research Institute	22,018	0	0	16,435	0	0	0	0	5,583
160 University of Houston	21,876	5,316	4,831	131	2,740	6,830	1,733	294	1
Total, 1st 160 institutions	17,769,837	2,563,672	1,770,214	1,058,757	796,207	10,624,988	340,081	467,138	148,780
161 Medical Col of Georgia	21,116	0	0	0	0	21,116	0	0	0
162 Loma Linda University	20,494 i	0 i	0 i	0 i	0 i	17,367 i	0 i	897 i	2,230 i
163 Drexel University	20,159	16,665	1,630	407	1,138	319	0	0	0
164 Boston College	20,123	0	5,725	459	9,695	1,059	456	2,729	0
165 University of Wyoming	20,017	2,201	2,180	3,984	397	8,870	602	684	1,099
166 U PR Med Sci Campus	19,433	0	0	0	0	19,433	0	0	0
167 Univ of Montana, The	19,194	0	1,042	355	587	14,417	51	2,742	0
168 NJ Inst of Technology	18,530	12,729	4,342	0	1,168	98	0	0	193
169 TX A&M U Sys Hlth Sci Ctr	18,384	12	0	5	0	18,335	32	0	0
170 New York Medical College	18,344	0	0	0	0	18,344	0	0	0
Total, 1st 170 institutions	17,965,631	2,595,279	1,785,133	1,063,967	809,192	10,744,346	341,222	474,190	152,302
171 Morehouse School of Med	18,127	0	0	0	0	18,127	0	0	0
172 U Southern Mississippi	18,061	1,009	3,620	5,318	279	1,332	167	280	6,056
173 Michigan Tech University	17,620	11,300	1,507	710	957	2,849	0	297	0
174 U TX at El Paso	16,167	4,803	1,273	4,894	1,167	2,699	647	684	0
175 U of North Dakota	15,743	7,616	508	1,573	90	4,954	0	338	664
176 U of Nevada Las Vegas	15,681	2,110	1,297	9,180	853	1,871	0	370	0
177 Wright State University	15,417	1,682	1,179	169	1,415	10,229	696	5	42
178 Col of William & Mary	15,288	0	3,380	9,213	1,003	950	282	460	0
179 Old Dominion University	15,280	9,440	1,013	2,416	883	734	561	233	0
180 North Dakota State U	15,207	596	2,177	100	781	6,177	434	3,361	1,581
Total, 1st 180 institutions	18,128,222	2,633,835	1,801,087	1,097,540	816,620	10,794,268	344,009	480,218	160,645
181 Clark Atlanta University	14,354	2,062	3,943	0	992	2,606	5	543	4,203
182 San Jose State University	14,301	751	1,954	4,283	643	876	5,694	93	7
183 Florida Atlantic U	14,099	8,174	748	58	645	1,865	1,436	1,009	164
184 OGI Schl Sci & Eng OHSU	14,072	918	3,205	2,719	7,230	0	0	0	0
185 Lehigh University	13,961	9,968	2,526	681	25	688	68	5	0
186 Georgia State University	13,575	0	1,265	316	479	6,300	3,456	1,759	0
187 Catholic U of America	13,308	1,444	10,453	0	0	583	778	45	5
188 NM Inst Mining & Tech	13,255	7,839	847	1,920	80	2,425	0	0	144
189 CUNY City College	13,022	2,786	4,955	612	1,539	2,700	336	94	0
190 Ohio University	12,898	6,219	2,686	268	71	2,434	929	176	115
Total, 1st 190 institutions	18,265,067	2,673,996	1,833,669	1,108,397	828,324	10,814,745	356,711	483,942	165,283

See explanatory information and SOURCE at end of table.

Table B-40. Federally financed R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
191 Colorado School of Mines	12,314	6,169	5,026	542	425	0	0	152	0
192 U of LA Lafayette	12,130	2,347	101	137	963	8,311	0	217	54
193 U MD Ctr for Environ Sci	12,105	0	0	12,105	0	0	0	0	0
194 NC A&T State University	11,937	8,256	330	0	315	2,660	26	350	0
195 U of Missouri Rolla	11,929	8,963	2,678	228	58	1	0	0	1
196 Brigham Young University	11,659	4,941	2,454	121	974	2,101	266	602	200
197 Eastern VA Med School	11,389	0	0	0	0	11,389	0	0	0
198 Med Col of Ohio	11,362	0	0	0	0	11,362	0	0	0
199 Portland State University	11,341	1,212	292	963	1,534	1,435	146	5,759	0
200 U of MA Lowell	11,196	2,409	4,066	1,533	73	1,683	903	529	0
Total, 1st 200 institutions	18,382,429	2,708,293	1,848,616	1,124,026	832,666	10,853,687	358,052	491,551	165,538
Total, all other sampled institutions	808,444	135,477	122,894	58,623	51,889	325,002	40,051	52,916	21,592

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-41. Non-Federal R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	13,532,205	2,155,878	828,854	644,178	426,512	8,010,423	183,762	891,073	391,525
1 U CA Los Angeles	380,943	18,416	36,992	6,213	7,665	270,035	3,437	30,684	7,501
2 U of WI-Madison	300,134	32,087	16,249	7,309	5,367	212,791	6,123	20,190	18
3 U CA Davis	277,459	27,357	7,096	17,656	1,909	209,898	413	10,708	2,422
4 Texas A&M University	257,659	92,713	14,556	25,061	3,521	112,279	1,137	6,223	2,169
5 U CA San Francisco	247,486	0	2,647	0	0	243,742	0	1,097	0
6 U CA Berkeley	238,193	74,430	26,865	2,998	1,688	83,290	4,005	38,700	6,217
7 Ohio State University	229,560	70,495	9,970	3,459	21,826	103,128	1,651	16,057	2,974
8 University of Florida	219,568	29,149	8,942	2,973	3,131	163,109	2,087	10,177	0
9 U CA San Diego	213,257	26,111	7,757	48,090	11,206	110,859	900	6,943	1,391
10 Pennsylvania State U	212,115	73,247	18,419	11,894	4,691	81,125	5,666	13,357	3,716
Total, 1st 10 institutions	2,576,374	444,005	149,493	125,653	61,004	1,590,256	25,419	154,136	26,408
11 University of Georgia	205,385	6,184	7,493	9,059	6,607	139,102	4,836	32,104	0
12 University of Michigan	204,406	51,876	4,815	2,146	5,508	112,351	5,348	22,197	165
13 NC State University	203,384	49,546	13,398	10,860	9,074	111,529	641	6,616	1,720
14 Cornell University	203,362	23,668	16,584	2,068	5,845	139,871	4,483	10,843	0
15 University of Minnesota	197,722	16,074	8,795	6,962	2,737	148,461	2,932	11,761	0
16 U of IL Urbana-Champaign	195,547	43,583	16,266	22,090	18,992	69,120	3,566	19,795	2,135
17 Louisiana State U System	174,286	24,990	6,370	21,971	3,796	110,201	420	6,129	409
18 University of Arizona	167,644	20,993	31,810	4,026	2,486	97,963	1,698	8,640	28
19 Georgia Institute of Tech	162,697	106,992	11,192	8,983	23,253	3,773	2,191	2,925	3,388
20 Rutgers the State U NJ	159,637	21,304	13,701	11,777	7,052	75,408	5,391	23,585	1,419
Total, 1st 20 institutions	4,450,444	809,215	279,917	225,595	146,354	2,598,035	56,925	298,731	35,672
21 Duke University	157,024	4,455	2,578	3,687	772	141,105	678	3,749	0
22 Purdue University	156,766	48,452	7,327	1,328	7,460	74,705	1,748	15,425	321
23 U of Washington	154,523	19,082	9,302	7,204	1,660	107,531	1,318	8,426	0
24 Michigan State University	153,587	13,875	16,513	1,973	2,568	104,787	1,548	11,482	841
25 Baylor Col of Medicine	147,067	0	0	0	0	147,067	0	0	0
26 Indiana University	143,118	2,568	17,727	2,753	2,280	66,567	3,272	28,563	19,388
27 U of MD Baltimore	139,916	0	0	0	0	139,916	0	0	0
28 VA Polytech Inst & St U	138,939	47,532	5,163	3,041	1,825	71,650	805	8,923	0
29 MA Institute of Tech	131,176	46,569	2,727	2,738	12,168	18,008	105	4,312	44,549
30 University of Kentucky	125,482	16,449	2,402	194	573	94,355	123	2,422	8,964
Total, 1st 30 institutions	5,898,042	1,008,197	343,656	248,513	175,660	3,563,726	66,522	382,033	109,735
31 U of MD at College Park	121,868	35,733	14,103	2,396	9,400	30,996	1,196	28,044	0
32 Washington University	121,714	2,668	3,296	2,107	1,656	109,368	361	1,286	972
33 Johns Hopkins U	119,505	6,820	2,105	1,654	1,115	88,919	249	3,085	15,558
34 U TX MD Anderson Cncr Ctr	118,693	0	1,237	0	5,283	112,173	0	0	0
35 U of Pennsylvania	117,856	3,581	2,014	588	1,327	84,300	433	22,951	2,662
36 Iowa State University	117,172	27,104	4,725	1,730	6,982	61,639	551	6,710	7,731
37 U of Nebraska at Lincoln	113,643	18,801	3,944	4,472	5,379	58,289	2,136	8,106	12,516
38 U of South Florida	112,724	12,569	1,624	7,574	696	80,715	6,275	3,271	0
39 U of IL Chicago	107,989	10,262	3,135	1,248	1,576	74,583	2,357	8,283	6,545
40 U of Missouri Columbia	106,347	14,191	2,805	580	727	75,751	2,274	9,748	271
Total, 1st 40 institutions	7,055,553	1,139,926	382,644	270,862	209,801	4,340,459	82,354	473,517	155,990
41 U of Iowa	100,099	15,283	2,380	1,456	494	74,000	778	5,529	179
42 U TX at Austin	99,920	38,058	16,345	14,577	8,053	13,863	601	7,188	1,235
43 Northwestern University	99,804	19,053	7,167	155	1,924	61,325	589	6,121	3,470
44 Stanford University	98,438	19,158	5,638	2,344	3,051	60,826	1,026	6,395	0
45 Wayne State University	96,536	6,738	7,063	54	601	76,149	944	4,070	917
46 U of Southern California	94,390	12,721	3,120	3,941	2,911	64,414	1,118	4,670	1,495
47 University of Connecticut	94,353	22,585	3,521	4,075	1,462	51,560	2,698	6,290	2,162
48 U TX SW Med Ctr at Dallas	90,556	0	0	0	0	90,556	0	0	0
49 SUNY at Buffalo	90,234	12,645	5,080	618	5,572	60,271	1,897	2,807	1,344
50 Rockefeller U, The	90,209	0	1,895	0	3,218	85,096	0	0	0
Total, 1st 50 institutions	8,010,092	1,286,167	434,853	298,082	237,087	4,978,519	92,005	516,587	166,792

See explanatory information and SOURCE at end of table.

Table B-41. Non-Federal R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 University of Oklahoma	88,431	10,365	6,036	15,974	3,046	38,071	7,511	7,428	0
52 U of Tennessee System	83,287	21,972	2,093	1,871	4,761	46,391	76	4,782	1,341
53 University of Kansas	81,973	7,955	3,533	8,517	4,010	49,323	269	3,849	4,517
54 U of NC Chapel Hill	81,961	0	3,406	4,975	3,436	62,521	411	7,212	0
55 Mississippi State U	81,446	13,849	3,671	1,113	2,154	56,296	773	2,519	1,071
56 University of Pittsburgh	80,221	7,791	1,798	111	1,131	63,906	251	5,168	65
57 U CA Irvine	78,131	10,602	5,362	1,322	2,928	49,745	653	5,759	1,760
58 U Med & Dent of NJ	76,363	0	0	0	0	76,363	0	0	0
59 Clemson University	75,325	26,313	3,684	450	2,925	34,360	34	5,792	1,767
60 SUNY at Stony Brook	75,222	8,026	8,535	6,791	3,138	45,218	811	2,703	0
Total, 1st 60 institutions	8,812,452	1,393,040	472,971	339,206	264,616	5,500,713	102,794	561,799	177,313
61 Harvard University	71,693	775	3,824	1,350	862	46,484	316	18,082	0
62 Yale University	70,812	1,422	2,241	205	602	64,540	742	1,060	0
63 Princeton University	70,791	23,584	10,257	5,481	4,622	8,885	1,697	16,265	0
64 University of Utah	70,344	10,282	4,103	1,228	5,174	47,103	653	1,801	0
65 Oregon State University	69,071	6,351	875	6,214	674	53,134	118	1,645	60
66 U CA Riverside	68,742	8,438	2,080	2,696	1,001	47,584	208	4,348	2,387
67 Mt Sinai Sch Med	67,602	0	0	0	0	67,602	0	0	0
68 University of Rochester	67,316	8,360	1,562	122	242	52,405	3,653	37	935
69 Emory University	66,680	0	3,044	18	370	59,032	313	3,903	0
70 Auburn University	66,250	16,456	1,181	459	323	43,108	76	1,002	3,645
Total, 1st 70 institutions	9,501,753	1,468,708	502,138	356,979	278,486	5,990,590	110,570	609,942	184,340
71 University of Cincinnati	64,846	13,870	2,864	178	400	42,127	534	1,951	2,922
72 Oklahoma State University	64,675	11,538	4,013	1,336	1,090	38,701	318	6,349	1,330
73 Arizona State University	62,147	24,031	12,531	1,141	2,057	6,922	2,148	8,300	5,017
74 New York University	60,825	0	578	606	2,674	51,268	2,014	3,412	273
75 Kansas State University	60,032	9,599	1,599	502	759	43,666	574	2,515	818
76 Colorado State University	59,836	8,735	1,664	2,528	857	41,701	165	1,332	2,854
77 Washington State U	59,277	6,744	1,126	351	22	42,213	25	8,110	686
78 Univ of Hawaii at Manoa	59,260	3,130	12,760	16,616	33	21,559	145	1,689	3,328
79 U of South Carolina	57,990	10,512	8,004	10,622	1,771	13,043	1,180	8,517	4,341
80 U of Central Florida	56,945	21,776	11,391	6,613	285	1,660	101	3,201	11,918
Total, 1st 80 institutions	10,107,586	1,578,643	558,668	397,472	288,434	6,293,450	117,774	655,318	217,827
81 University of Colorado	56,829	8,317	6,787	4,534	932	32,488	1,538	2,134	99
82 Florida State University	56,742	4,790	22,870	4,218	3,709	6,818	2,015	12,322	0
83 Med U of South Carolina	56,144	0	0	0	0	56,144	0	0	0
84 U of Arkansas Main	55,131	6,103	2,300	1,392	1,561	40,852	343	2,580	0
85 U of Alaska Fairbanks	54,908	2,249	7,009	3,379	16,195	2,026	0	31	24,019
86 North Dakota State U	49,675	917	963	51	436	42,766	155	2,188	2,199
87 U of MA Amherst	48,400	12,206	9,381	2,111	4,752	15,154	1,476	2,438	882
88 University of Louisville	47,741	4,348	1,588	180	881	36,304	977	3,463	0
89 Carnegie Mellon U	47,419	14,963	2,060	3,059	19,213	3,486	2,124	2,048	466
90 University of New Mexico	47,114	4,353	1,041	136	406	21,048	2,118	4,238	13,774
Total, 1st 90 institutions	10,627,689	1,636,889	612,667	416,532	336,519	6,550,536	128,520	686,760	259,266
91 Utah State University	47,108	11,008	817	5,474	414	19,370	651	1,709	7,665
92 Texas Tech University	46,951	10,502	4,164	5,528	832	22,376	95	2,702	752
93 Tulane University	44,092	4,394	1,471	645	146	35,038	286	653	1,459
94 U TX Hlth Sci Ctr San Ant	44,001	0	0	0	0	44,001	0	0	0
95 U of New Hampshire	42,656	11,724	964	14,163	428	9,927	204	3,118	2,128
96 University of Miami	41,969	626	114	3,717	0	37,134	124	254	0
97 West Virginia University	41,871	9,702	1,529	1,901	247	27,709	114	47	622
98 Virginia Commonwealth U	41,865	1,482	1,921	158	163	36,665	930	546	0
99 University of Idaho	40,948	5,912	1,070	2,113	347	28,751	43	1,990	722
100 Yeshiva University	40,430	0	0	0	0	40,430	0	0	0
Total, 1st 100 institutions	11,059,580	1,692,239	624,717	450,231	339,096	6,851,937	130,967	697,779	272,614

See explanatory information and SOURCE at end of table.

Table B-41. Non-Federal R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
101 Vanderbilt University	40,274	3,353	1,598	15	91	32,378	958	1,854	27
102 U of Maine	40,197	6,706	1,257	11,173	925	17,085	68	2,100	883
103 U CA Santa Barbara	39,544	11,827	5,587	9,736	3,193	1,207	1,691	5,013	1,290
104 Case Western Reserve U	39,401	5,411	664	16	97	19,998	138	2,683	10,394
105 Dartmouth College	39,252	3,843	1,400	788	1,035	27,047	1,212	224	3,703
106 University of Chicago	38,559	0	5,528	378	428	32,044	32	149	0
107 U of Nebraska Med Ctr	38,198	0	0	0	0	38,198	0	0	0
108 U TX Med Br at Galveston	38,040	1,031	0	0	0	37,009	0	0	0
109 U of Alabama Birmingham	37,077	1,909	1,112	0	105	33,456	404	91	0
110 UT Houston Hlth Sci Ctr	36,894	0	0	0	0	36,894	0	0	0
Total, 1st 110 institutions	11,447,016	1,726,319	641,863	472,337	344,970	7,127,253	135,470	709,893	288,911
111 Columbia U in City of NY	36,569	2,850	1,469	1,486	607	28,522	201	1,397	37
112 University of Delaware	35,661	12,147	3,712	2,297	1,197	14,720	251	1,337	0
113 U CA Santa Cruz	35,052	802	19,223	6,839	842	4,664	340	2,316	26
114 Montana St U Bozeman	34,736	4,124	2,267	267	84	25,959	0	1,352	683
115 San Diego St University	34,711	6,003	1,469	1,169	1,638	10,132	2,999	4,555	6,746
116 Tufts University	34,137	2,046	568	754	283	23,653	1,422	5,411	0
117 Brown University	33,269	5,098	4,410	1,743	4,511	12,797	798	3,912	0
118 Rush University	32,918	0	0	0	0	32,530	388	0	0
119 S Illinois U Carbondale	32,339	8,073	1,119	620	301	18,483	196	1,912	1,635
120 U of MA Worcester	31,768	0	0	0	0	31,768	0	0	0
Total, 1st 120 institutions	11,788,176	1,767,462	676,100	487,512	354,433	7,330,481	142,065	732,085	298,038
121 Medical Col of Georgia	31,075	0	0	0	0	31,075	0	0	0
122 University of Houston	29,691	14,004	4,574	895	1,312	4,974	1,712	2,220	0
123 U of Nevada Reno	27,843	2,286	1,293	2,342	100	14,495	349	1,155	5,823
124 University of Vermont	26,787	834	640	111	554	22,398	789	99	1,362
125 University of Virginia	26,679	5,906	1,637	807	924	17,102	242	61	0
126 New Mexico State Univ	25,839	10,836	596	941	812	11,991	71	260	332
127 NJ Inst of Technology	25,647	18,843	2,590	0	1,951	554	0	0	1,709
128 Georgia State University	25,385	0	2,808	484	874	9,662	3,130	8,427	0
129 Oregon Health & Science U	25,114	0	0	0	0	24,962	152	0	0
130 U MD Ctr for Environ Sci	24,530	0	0	24,530	0	0	0	0	0
Total, 1st 130 institutions	12,056,766	1,820,171	690,238	517,622	360,960	7,467,694	148,510	744,307	307,264
131 Thomas Jefferson U	24,055	0	0	0	0	24,055	0	0	0
132 SUNY Col Env Sci & Frstry	23,499	9,226e	1,923e	2,567e	0e	9,547e	0e	236e	0e
133 SUNY at Albany	23,448	0	7,505	3,864	1,349	5,677	775	4,278	0
134 Brandeis University	22,787	0	1,518	0	49	5,639	147	15,434	0
135 TX A&M U Sys Hlth Sci Ctr	22,475	113	0	0	0	22,358	0	4	0
136 George Washington U	22,048	2,801	383	15	1,010	13,087	41	4,140	571
137 University of Wyoming	21,615	1,443	889	2,499	138	10,845	169	888	4,744
138 California Inst of Tech	21,531	4,567	4,117	452	75	2,226	0	216	9,878
139 U MD Biotechnology Inst	21,405	0	0	5,058	0	16,347	0	0	0
140 Boston University	21,260	1,944	538	146	35	17,519	106	570	402
Total, 1st 140 institutions	12,280,889	1,840,265	707,111	532,223	363,616	7,594,994	149,748	770,073	322,859
141 Col of William & Mary	20,541	0	2,348	15,743	136	975	352	987	0
142 Florida International U	20,351	8,827	919	2,946	963	2,596	264	3,836	0
143 Wake Forest University	20,322	0	581	0	0	19,180	0	0	561
144 U of LA Lafayette	19,943	3,806	641	301	2,731	10,239	197	873	1,155
145 Medical Col of Wisconsin	19,854	0	0	0	0	19,854	0	0	0
146 Rensselaer Polytech Inst	19,116	15,678	1,997	556	560	149	0	176	0
147 Temple University	18,539	423	595	44	171	11,095	4,374	1,837	0
148 Univ of Memphis, The	18,433	2,628	424	2,925	363	2,411	5,251	2,843	1,588
149 U of Arkansas Medical Sci	17,702	0	0	0	0	17,702	0	0	0
150 Rose-Hulman Inst of Tech	17,083	12,952	1,740	0	2,391	0	0	0	0
Total, 1st 150 institutions	12,472,773	1,884,579	716,356	554,738	370,931	7,679,195	160,186	780,625	326,163

See explanatory information and SOURCE at end of table.

Table B-41. Non-Federal R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
151 U of Missouri Rolla	16,870	12,647	2,600	797	663	135	4	12	12
152 Wright State University	16,616	2,403	723	243	2,827	9,177	742	408	93
153 University of Notre Dame	16,295	3,673	1,132	0	149	2,668	392	606	7,675
154 Woods Hole Oceanogr Inst	15,359	3,812	0	11,547	0	0	0	0	0
155 NM Inst Mining & Tech	15,137	8,007	1,112	5,441	69	303	3	0	202
156 Lehigh University	15,097	13,934	728	166	19	244	3	3	0
157 Eastern VA Med School	14,861	0	0	0	0	14,861	0	0	0
158 Univ of Montana, The	14,341	0	412	495	212	8,870	113	1,500	2,739
159 Ohio University	14,248	5,657	1,725	502	36	4,943	562	293	530
160 University of Akron	13,594	4,901	4,999	87	216	363	26	3,002	0
Total, 1st 160 institutions	12,625,191	1,939,613	729,787	574,016	375,122	7,720,759	162,031	786,449	337,414
161 Unif Svcs U of Hlth Sci	13,142	0	0	0	0	13,142	0	0	0
162 U of Alabama Huntsville	13,106	3,622	2,612	1,122	4,970	619	0	105	56
163 SUNY at Binghamton	12,600	4,820	1,595	385	943	2,018	834	1,707	298
164 Syracuse University	12,440	3,093	342	203	2,188	254	4	2,091	4,265
165 U of WI-Milwaukee	12,403	2,659	2,086	2,233	529	1,622	272	2,792	210
166 Michigan Tech University	11,993	8,388	409	422	126	1,995	0	94	559
167 Colorado School of Mines	11,340	10,119	667	415	139	0	0	0	0
168 U of Nevada Las Vegas	11,327	2,622	3,235	2,533	10	892	226	1,806	3
169 South Dakota State U	11,261	530	5	355	1	9,773	0	597	0
170 Florida Atlantic U	11,012	3,059	305	2,535	885	2,521	155	1,374	178
Total, 1st 170 institutions	12,745,815	1,978,525	741,043	584,219	384,913	7,753,595	163,522	797,015	342,983
171 Inst of Paper Sci & Tech	10,982	7,548	2,041	0	0	1,393	0	0	0
172 University of Alabama, The	10,950	7,010	1,514	430	354	984	40	415	203
173 Northeastern University	10,935	5,003	2,378	0	385	1,475	417	1,277	0
174 Loyola U of Chicago	10,682	0	678	13	2	8,657	200	1,132	0
175 Boston College	10,645	0	2,077	73	4,895	1,891	172	1,537	0
176 U of Missouri Kansas City	10,619	0	334	13	1,077	6,805	895	753	742
177 Wichita State University	10,416	8,776	523	45	187	564	268	53	0
178 Creighton University	10,399	0	0	0	6	10,373	0	20	0
179 U PR Mayaguez Campus	9,612	5,777	807	2,289	95	459	0	151	34
180 University of Toledo	9,577	5,610	1,619	352	0	1,780	125	40	51
Total, 1st 180 institutions	12,850,632	2,018,249	753,014	587,434	391,914	7,787,976	165,639	802,393	344,013
181 MCP Hahnemann U	9,518	0	0	0	0	9,339	179	0	0
182 Miami University (OH)	9,480	338 i	2,214 i	129 i	1 i	1,886 i	320 i	2,011 i	2,581 i
183 U of MA Lowell	9,460	4,034	1,142	450	534	1,322	239	1,087	652
184 U Mississippi, All Camp	9,444	856	1,521	0	0	5,345	8	257	1,457
185 Old Dominion University	9,379	3,682	756	1,276	682	2,392	141	450	0
186 C R Drew U of Med & Sci	9,302	0	0	0	0	9,302	0	0	0
187 U of MA Boston	9,126	21	257	1,074	84	1,158	304	6,111	117
188 CUNY Hunter College	9,042	0	1,844	344	171	3,646	786	2,135	116
189 Cleveland State U	9,000	1,247	172	195	6	276	41	5,645	1,418
190 Western Michigan U	8,784	2,095	810	1,265	1,671	785	125	1,674	359
Total, 1st 190 institutions	12,943,167	2,030,522	761,730	592,167	395,063	7,823,427	167,782	821,763	350,713

See explanatory information and SOURCE at end of table.

Table B-41. Non-Federal R&D expenditures at universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
191 SUNY Hlth Sci Ctr Brklyn	8,766e	0e	0e	0e	0e	8,766e	0e	0e	0e
192 U TX at Dallas	8,635e	2,268e	1,700e	416e	633e	1,866e	0e	747e	1,005e
193 San Jose State University	8,408	1,025	1,192	3,685	962	131	20	89	1,304
194 Tennessee Tech U	8,223	7,368	133	1	54	651	3	13	0
195 U TX at Arlington	8,073	5,689	1,313	87	62	367	104	451	0
196 Desert Research Institute	7,679	0	0	6,330	0	0	0	0	1,349
197 U of Rhode Island	7,674	422	50	1,246	137	1,290	599	464	3,466
198 Drexel University	7,539	6,102	550	399	488	0	0	0	0
199 Brigham Young University	7,512	2,364	1,257	100	560	1,642	298	1,230	61
200 University of Dayton	7,241	6,687	105	12	61	162	90	0	124
Total, 1st 200 institutions	13,022,917	2,062,447	768,030	604,443	398,020	7,838,302	168,896	824,757	358,022
Total, all other sampled institutions	509,288	93,431	60,824	39,735	28,492	172,121	14,866	66,316	33,503

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-42. R&D expenditures at public universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	22,340,844	3,620,505	1,871,888	1,486,480	802,747	12,594,321	433,636	1,123,145	408,122
1 U CA Los Angeles	693,801	46,854	68,170	14,774	17,301	493,355	10,688	35,135	7,524
2 U of WI-Madison	604,143	82,652	49,127	29,040	14,371	370,813	22,838	35,284	18
3 University of Michigan	600,523	143,487	25,654	5,378	14,301	325,083	11,049	75,406	165
4 U of Washington	589,626	49,629	29,784	73,448	10,898	406,532	9,316	10,019	0
5 U CA San Diego	556,533	50,301	33,185	119,096	61,214	274,810	5,831	10,705	1,391
6 U CA San Francisco	524,975	0	13,845	0	0	509,607	0	1,523	0
7 University of Minnesota	462,011	41,659	35,028	13,528	12,704	336,099	8,201	14,792	0
8 Pennsylvania State U	458,066	183,823	55,196	22,550	10,131	148,925	12,530	19,577	5,334
9 U CA Berkeley	446,273	128,984	79,469	6,513	6,895	165,525	8,244	44,406	6,237
10 U CA Davis	432,396	41,928	21,329	30,580	3,931	316,573	1,378	13,247	3,430
Total, 1st 10 institutions	5,368,347	769,317	410,787	314,907	151,746	3,347,322	90,075	260,094	24,099
11 Texas A&M University	407,041	124,227	25,848	80,789	10,199	153,264	2,898	7,543	2,273
12 U of IL Urbana-Champaign	390,863	104,108	47,013	33,855	58,459	109,062	9,320	23,922	5,124
13 Ohio State University	390,652	96,297	23,906	8,746	24,739	197,406	5,719	30,546	3,293
14 University of Arizona	367,128	52,486	72,131	10,549	9,063	203,319	3,403	16,149	28
15 University of Colorado	365,472	33,021	71,362	51,590	7,556	181,571	9,635	9,274	1,463
16 University of Florida	359,312	54,908	23,388	5,878	8,319	248,524	6,320	11,975	0
17 University of Pittsburgh	348,792	15,614	13,139	597	4,176	298,753	4,791	10,570	1,152
18 Georgia Institute of Tech	306,533	201,581	21,086	16,924	43,810	7,108	4,128	5,512	6,384
19 U of NC Chapel Hill	303,576	0	17,161	12,615	8,937	235,300	4,282	25,281	0
20 NC State University	299,259	81,949	25,574	16,099	17,029	145,775	1,238	8,968	2,627
Total, 1st 20 institutions	8,906,975	1,533,508	751,395	552,549	344,033	5,127,404	141,809	409,834	46,443
21 U TX at Austin	295,104	110,119	58,845	24,932	39,806	41,544	4,336	13,898	1,624
22 University of Georgia	272,298	7,249	10,870	14,687	7,907	188,396	8,421	34,768	0
23 Louisiana State U System	268,911	44,813	17,231	32,636	4,608	160,836	889	7,443	455
24 U of MD at College Park	267,383	75,574	47,085	9,464	22,736	47,443	3,873	61,208	0
25 Michigan State University	265,946	20,845	45,432	2,618	5,442	163,803	5,401	21,461	944
26 Indiana University	259,899	3,170	34,958	3,927	4,528	149,353	9,652	34,401	19,910
27 U of Iowa	255,348	24,772	15,080	2,353	1,617	199,891	4,201	7,235	199
28 Purdue University	254,917	78,561	20,461	4,011	12,325	116,206	4,010	18,864	479
29 U of MD Baltimore	239,007	0	0	0	0	239,007	0	0	0
30 Rutgers the State U NJ	236,793	33,575	26,867	20,511	11,997	106,092	8,420	27,826	1,505
Total, 1st 30 institutions	11,522,581	1,932,186	1,028,224	667,688	454,999	6,539,975	191,012	636,938	71,559
31 U of IL Chicago	233,098	20,646	9,107	1,699	5,360	171,420	5,832	10,977	8,057
32 U of Alabama Birmingham	231,702	5,441	3,950	0	516	216,201	5,495	99	0
33 U TX SW Med Ctr at Dallas	222,376	0	0	0	0	222,376	0	0	0
34 VA Polytech Inst & St U	216,323	80,349	9,298	15,734	4,581	94,248	2,015	10,098	0
35 U TX MD Anderson Cncr Ctr	212,746	0	4,409	0	7,341	200,996	0	0	0
36 University of Kentucky	211,721	29,767	7,709	567	2,527	154,696	872	3,556	12,027
37 University of Utah	197,597	25,565	14,605	4,989	17,013	130,721	2,271	2,433	0
38 University of Cincinnati	192,895	26,114	4,793	276	527	154,214	628	3,386	2,957
39 SUNY at Buffalo	186,829	29,725	9,189	1,283	8,266	127,859	3,360	5,041	2,106
40 U CA Irvine	179,866	18,035	17,693	3,982	7,821	117,618	3,768	8,539	2,410
Total, 1st 40 institutions	13,607,734	2,167,828	1,108,977	696,218	508,951	8,130,324	215,253	681,067	99,116
41 Iowa State University	179,196	44,099	10,536	4,370	10,026	87,087	638	14,125	8,315
42 Wayne State University	175,984	10,963	14,516	108	1,176	140,180	2,749	5,375	917
43 U of Missouri Columbia	174,782	22,637	4,956	1,204	1,667	124,701	5,274	14,072	271
44 U of South Florida	171,550	19,063	2,328	18,752	864	116,446	10,092	4,005	0
45 SUNY at Stony Brook	168,487	15,110	25,283	17,199	7,977	95,885	3,464	3,569	0
46 University of Connecticut	164,366	28,225	7,174	9,127	2,214	100,474	6,608	8,382	2,162
47 U Med & Dent of NJ	162,417	0	0	0	0	162,417	0	0	0
48 U of Tennessee System	161,898	36,580	9,579	6,736	10,852	90,646	195	5,834	1,476
49 Colorado State University	161,144	28,708	8,564	15,671	2,481	89,852	3,004	3,068	9,796
50 U of Nebraska at Lincoln	157,520	24,584	9,965	8,347	6,546	79,194	5,802	9,662	13,420
Total, 1st 50 institutions	15,285,078	2,397,797	1,201,878	777,732	552,754	9,217,206	253,079	749,159	135,473

See explanatory information and SOURCE at end of table.

Table B-42. R&D expenditures at public universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 Univ of Hawaii at Manoa	156,976	8,955	26,405	47,185	737	58,455	382	4,763	10,094
52 University of New Mexico	156,619	24,737	6,611	1,961	3,081	62,419	7,168	6,180	44,462
53 University of Kansas	156,467	15,850	6,269	10,900	4,577	104,210	1,474	5,726	7,461
54 Oregon State University	153,925	17,005	4,783	36,295	2,871	89,498	120	2,220	1,133
55 University of Virginia	149,547	25,838	11,538	5,189	4,464	98,876	3,001	641	0
56 University of Oklahoma	148,695	14,026	13,690	29,571	3,323	66,128	11,937	10,020	0
57 Mississippi State U	146,939	44,736	5,282	6,298	3,093	79,165	956	4,950	2,459
58 Oregon Health & Science U	136,785	0	0	0	0	131,290	5,495	0	0
59 UT Houston Hlth Sci Ctr	125,439	0	0	0	0	125,439	0	0	0
60 Clemson University	123,885	50,307	8,047	1,021	3,614	50,058	329	8,718	1,791
Total, 1st 60 institutions	16,740,355	2,599,251	1,284,503	916,152	578,514	10,082,744	283,941	792,377	202,873
61 Utah State University	121,359	59,162	3,475	8,522	1,569	34,166	1,782	3,513	9,170
62 Arizona State University	118,763	42,485	22,231	9,798	5,159	15,307	6,399	10,114	7,270
63 Med U of South Carolina	116,687	0	0	0	0	116,687	0	0	0
64 U CA Santa Barbara	116,372	35,393	24,757	22,963	10,721	4,334	5,912	10,531	1,761
65 U TX Hlth Sci Ctr San Ant	115,154	0	0	0	0	115,154	0	0	0
66 Florida State University	113,817	11,889	42,586	14,893	6,726	12,834	5,922	18,967	0
67 U of MA Worcester	111,221	0	0	0	0	111,221	0	0	0
68 U of Alaska Fairbanks	110,195	7,344	13,599	30,488	16,300	16,601	0	517	25,346
69 U of South Carolina	109,973	25,573	16,499	16,449	3,450	27,153	3,596	12,537	4,716
70 Washington State U	107,937	15,366	5,715	2,963	428	71,436	243	10,535	1,251
Total, 1st 70 institutions	17,881,833	2,796,463	1,413,365	1,022,228	622,867	10,607,637	307,795	859,091	252,387
71 Auburn University	106,347	31,568	4,128	733	437	58,552	262	2,131	8,536
72 U TX Med Br at Galveston	102,722	1,796	0	0	0	100,926	0	0	0
73 Virginia Commonwealth U	99,180	3,279	5,777	215	221	85,501	3,096	1,091	0
74 U of MA Amherst	97,976	18,811	20,876	4,537	14,700	29,894	5,360	2,916	882
75 U CA Riverside	94,455	11,528	7,168	3,849	1,647	60,284	1,742	5,850	2,387
76 Kansas State University	94,030	15,099	9,957	774	1,705	60,229	1,151	3,530	1,585
77 Oklahoma State University	90,311	18,589	6,105	1,728	1,854	50,096	348	8,630	2,961
78 U of New Hampshire	87,879	19,101	2,872	40,098	1,004	15,501	1,197	5,733	2,373
79 New Mexico State Univ	86,963	50,500	5,851	3,913	3,912	20,202	726	1,278	581
80 U of Central Florida	79,287	25,575	16,754	9,416	610	4,329	1,247	5,902	15,454
Total, 1st 80 institutions	18,820,983	2,992,309	1,492,853	1,087,491	648,957	11,093,151	322,924	896,152	287,146
81 U of Arkansas Main	78,303	12,353	7,002	2,189	1,696	51,556	384	3,123	0
82 University of Delaware	77,491	25,360	12,830	8,252	2,983	21,871	1,364	4,831	0
83 University of Vermont	75,597	1,738	1,560	410	1,807	66,357	1,283	170	2,272
84 University of Louisville	72,857	6,588	2,770	215	917	56,292	2,130	3,945	0
85 West Virginia University	71,311	17,269	4,047	4,530	596	43,380	177	67	1,245
86 SUNY at Albany	70,119	0	8,541	7,226	2,272	41,335	2,213	8,532	0
87 Texas Tech University	69,918	15,751	6,028	11,425	1,704	31,241	126	2,891	752
88 Montana St U Bozeman	69,593	10,477	11,799	530	334	42,114	0	2,334	2,005
89 University of Idaho	67,496	12,122	2,496	4,284	1,557	42,957	118	2,764	1,198
90 North Dakota State U	64,882	1,513	3,140	151	1,217	48,943	589	5,549	3,780
Total, 1st 90 institutions	19,538,550	3,095,480	1,553,066	1,126,703	664,040	11,539,197	331,308	930,358	298,398
91 U CA Santa Cruz	64,253	2,259	31,117	13,048	2,883	10,840	776	3,297	33
92 U of Maine	64,070	8,805	5,996	19,969	1,487	23,912	233	2,785	883
93 U of Nebraska Med Ctr	60,695	0	0	0	0	60,695	0	0	0
94 Temple University	60,182	1,814	6,979	242	793	36,228	11,604	2,522	0
95 U of Nevada Reno	59,229	5,996	5,637	6,464	936	31,445	1,217	1,694	5,840
96 San Diego St University	58,332	7,843	3,744	2,952	3,071	22,063	6,714	5,142	6,803
97 Medical Col of Georgia	52,191	0	0	0	0	52,191	0	0	0
98 U of Arkansas Medical Sci	51,921	0	0	0	0	51,921	0	0	0
99 University of Houston	51,567	19,320	9,405	1,026	4,052	11,804	3,445	2,514	1
100 U of Rhode Island	50,835	5,357	609	24,245	333	8,995	4,408	1,042	5,846
Total, 1st 100 institutions	20,111,825	3,146,874	1,616,553	1,194,649	677,595	11,849,291	359,705	949,354	317,804

See explanatory information and SOURCE at end of table.

Table B-42. R&D expenditures at public universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
101 Florida International U	44,291	19,211	1,999	6,412	2,095	5,649	574	8,351	0
102 NJ Inst of Technology	44,177	31,572	6,932	0	3,119	652	0	0	1,902
103 U of Alabama Huntsville	43,731	16,671	9,769	5,772	9,600	1,494	0	333	92
104 S Illinois U Carbondale	43,207	9,179	1,518	776	416	25,714	658	2,750	2,196
105 University of Wyoming	41,632	3,644	3,069	6,483	535	19,715	771	1,572	5,843
106 Naval Postgrad School	40,889 i	10,876 i	2,617 i	9,854 i	8,341 i	0 i	0 i	5,561 i	3,640 i
107 TX A&M U Sys Hlth Sci Ctr	40,859	125	0	5	0	40,693	32	4	0
108 U Mississippi, All Camp	39,552	5,786	13,400	0	582	13,676	107	2,118	3,883
109 Georgia State University	38,960	0	4,073	800	1,353	15,962	6,586	10,186	0
110 University of Oregon	36,881	290	7,911	1,685	2,816	17,783	4,373	2,023	0
Total, 1st 110 institutions	20,526,004	3,244,228	1,667,841	1,226,436	706,452	11,990,629	372,806	982,252	335,360
111 U MD Ctr for Environ Sci	36,635	0	0	36,635	0	0	0	0	0
112 Col of William & Mary	35,829	0	5,728	24,956	1,139	1,925	634	1,447	0
113 Univ of Montana, The	33,535	0	1,454	850	799	23,287	164	4,242	2,739
114 University of Alabama, The	33,133	19,965	4,099	1,780	612	2,721	1,917	1,551	488
115 George Mason University	32,881	9,145	308	7,399	1,733	4,448	1,871	7,977	0
116 U MD Biotechnology Inst	32,458	0	0	8,066	0	24,392	0	0	0
117 U of LA Lafayette	32,073	6,153	742	438	3,694	18,550	197	1,090	1,209
118 Wright State University	32,033	4,085	1,902	412	4,242	19,406	1,438	413	135
119 SUNY Hlth Sci Ctr Brklyn	31,626e	0e	0e	0e	0e	31,626e	0e	0e	0e
120 Desert Research Institute	29,697	0	0	22,765	0	0	0	0	6,932
Total, 1st 120 institutions	20,855,904	3,283,576	1,682,074	1,329,737	718,671	12,116,984	379,027	998,972	346,863
121 U of MD Baltimore County	29,641	5,907	5,590	10,412	1,258	3,600	831	2,043	0
122 Michigan Tech University	29,613	19,688	1,916	1,132	1,083	4,844	0	391	559
123 Univ of Memphis, The	29,445	3,552	845	3,753	1,127	3,241	9,788	5,551	1,588
124 U of Missouri Rolla	28,799	21,610	5,278	1,025	721	136	4	12	13
125 NM Inst Mining & Tech	28,392	15,846	1,959	7,361	149	2,728	3	0	346
126 SUNY Col Env Sci & Frstry	27,854	9,749e	2,228e	2,785e	0e	12,813e	0e	279e	0e
127 Ohio University	27,146	11,876	4,411	770	107	7,377	1,491	469	645
128 U of Nevada Las Vegas	27,008	4,732	4,532	11,713	863	2,763	226	2,176	3
129 Jackson State University	25,663	502	3,743	3,523	6,455	4,841	1,636	1,016	3,947
130 Florida Atlantic U	25,111	11,233	1,053	2,593	1,530	4,386	1,591	2,383	342
Total, 1st 130 institutions	21,134,576	3,388,271	1,713,629	1,374,804	731,964	12,163,713	394,597	1,013,292	354,306
131 Old Dominion University	24,659	13,122	1,769	3,692	1,565	3,126	702	683	0
132 U PR Med Sci Campus	23,913	0	0	0	0	23,913	0	0	0
133 Florida A&M University	23,865	3,743	1,851	2,324	1,955	13,759	0	233	0
134 Colorado School of Mines	23,654	16,288	5,693	957	564	0	0	152	0
135 U of WI-Milwaukee	23,492	4,260	4,608	3,699	1,367	3,294	584	5,468	212
136 Unif Svcs U of Hlth Sci	23,247	0	0	0	0	23,247	0	0	0
137 San Jose State University	22,709	1,776	3,146	7,968	1,605	1,007	5,714	182	1,311
138 University of Akron	22,266	7,175	8,178	156	598	638	132	5,389	0
139 U TX at El Paso	21,889	7,321	1,483	5,467	1,200	4,637	823	958	0
140 U of MA Lowell	20,656	6,443	5,208	1,983	607	3,005	1,142	1,616	652
Total, 1st 140 institutions	21,364,926	3,448,399	1,745,565	1,401,050	741,425	12,240,339	403,694	1,027,973	356,481

See explanatory information and SOURCE at end of table.

Table B-42. R&D expenditures at public universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
141 U Southern Mississippi	20,286	1,010	4,914	5,703	279	1,426	330	351	6,273
142 CUNY Hunter College	19,964	0	5,584	490	171	8,232	2,899	2,397	191
143 South Dakota State U	19,717	1,450	482	632	6	16,207	0	940	0
144 U of North Dakota	19,692	9,831	516	1,591	92	5,642	0	471	1,549
145 SUNY at Binghamton	18,992	6,786	2,064	1,049	1,066	2,425	2,482	2,822	298
146 U of Missouri Kansas City	18,795	32	1,021	52	1,508	13,472	1,114	853	743
147 U PR Mayaguez Campus	18,627	9,363	2,445	4,534	674	1,425	0	152	34
148 SUNY Upstate Med U	17,948	0	0	0	0	17,948	0	0	0
149 U TX at Arlington	17,486	9,865	3,281	165	301	1,461	157	2,256	0
150 CUNY City College	17,099	4,896	6,097	906	1,552	3,003	340	305	0
Total, 1st 150 institutions	21,553,532	3,491,632	1,771,969	1,416,172	747,074	12,311,580	411,016	1,038,520	365,569
Total, all other sampled institutions	787,312	128,873	99,919	70,308	55,673	282,741	22,620	84,625	42,553

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-43. Federally financed R&D expenditures at public universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	11,694,962	1,823,246	1,181,836	902,885	469,141	6,488,530	282,625	410,479	136,220
1 U of Washington	435,103	30,547	20,482	66,244	9,238	299,001	7,998	1,593	0
2 University of Michigan	396,117	91,611	20,839	3,232	8,793	212,732	5,701	53,209	0
3 U CA San Diego	343,276	24,190	25,428	71,006	50,008	163,951	4,931	3,762	0
4 U CA Los Angeles	312,858	28,438	31,178	8,561	9,636	223,320	7,251	4,451	23
5 University of Colorado	308,643	24,704	64,575	47,056	6,624	149,083	8,097	7,140	1,364
6 U of WI-Madison	304,009	50,565	32,878	21,731	9,004	158,022	16,715	15,094	0
7 U CA San Francisco	277,489	0	11,198	0	0	265,865	0	426	0
8 University of Pittsburgh	268,571	7,823	11,341	486	3,045	234,847	4,540	5,402	1,087
9 University of Minnesota	264,289	25,585	26,233	6,566	9,967	187,638	5,269	3,031	0
10 Pennsylvania State U	245,951	110,576	36,777	10,656	5,440	67,800	6,864	6,220	1,618
Total, 1st 10 institutions	3,156,306	394,039	280,929	235,538	111,755	1,962,259	67,366	100,328	4,092
11 U of NC Chapel Hill	221,615	0	13,755	7,640	5,501	172,779	3,871	18,069	0
12 U CA Berkeley	208,080	54,554	52,604	3,515	5,207	82,235	4,239	5,706	20
13 University of Arizona	199,484	31,493	40,321	6,523	6,577	105,356	1,705	7,509	0
14 U of IL Urbana-Champaign	195,316	60,525	30,747	11,765	39,467	39,942	5,754	4,127	2,989
15 U TX at Austin	195,184	72,061	42,500	10,355	31,753	27,681	3,735	6,710	389
16 U of Alabama Birmingham	194,625	3,532	2,838	0	411	182,745	5,091	8	0
17 Ohio State University	161,092	25,802	13,936	5,287	2,913	94,278	4,068	14,489	319
18 U of Iowa	155,249	9,489	12,700	897	1,123	125,891	3,423	1,706	20
19 U CA Davis	154,937	14,571	14,233	12,924	2,022	106,675	965	2,539	1,008
20 Texas A&M University	149,382	31,514	11,292	55,728	6,678	40,985	1,761	1,320	104
Total, 1st 20 institutions	4,991,270	697,580	515,855	350,172	213,407	2,940,826	101,978	162,511	8,941
21 U of MD at College Park	145,515	39,841	32,982	7,068	13,336	16,447	2,677	33,164	0
22 Georgia Institute of Tech	143,836	94,589	9,894	7,941	20,557	3,335	1,937	2,587	2,996
23 University of Florida	139,744	25,759	14,446	2,905	5,188	85,415	4,233	1,798	0
24 U TX SW Med Ctr at Dallas	131,820	0	0	0	0	131,820	0	0	0
25 University of Cincinnati	128,049	12,244	1,929	98	127	112,087	94	1,435	35
26 University of Utah	127,253	15,283	10,502	3,761	11,839	83,618	1,618	632	0
27 U of IL Chicago	125,109	10,384	5,972	451	3,784	96,837	3,475	2,694	1,512
28 University of Virginia	122,868	19,932	9,901	4,382	3,540	81,774	2,759	580	0
29 Indiana University	116,781	602	17,231	1,174	2,248	82,786	6,380	5,838	522
30 Michigan State University	112,359	6,970	28,919	645	2,874	59,016	3,853	9,979	103
Total, 1st 30 institutions	6,284,604	923,184	647,631	378,597	276,900	3,693,961	129,004	221,218	14,109
31 Oregon Health & Science U	111,671	0	0	0	0	106,328	5,343	0	0
32 University of New Mexico	109,505	20,384	5,570	1,825	2,675	41,371	5,050	1,942	30,688
33 U CA Irvine	101,735	7,433	12,331	2,660	4,893	67,873	3,115	2,780	650
34 Colorado State University	101,308	19,973	6,900	13,143	1,624	48,151	2,839	1,736	6,942
35 U of MD Baltimore	99,091	0	0	0	0	99,091	0	0	0
36 Purdue University	98,151	30,109	13,134	2,683	4,865	41,501	2,262	3,439	158
37 Univ of Hawaii at Manoa	97,716	5,825	13,645	30,569	704	36,896	237	3,074	6,766
38 SUNY at Buffalo	96,595	17,080	4,109	665	2,694	67,588	1,463	2,234	762
39 NC State University	95,875	32,403	12,176	5,239	7,955	34,246	597	2,352	907
40 Louisiana State U System	94,625	19,823	10,861	10,665	812	50,635	469	1,314	46
Total, 1st 40 institutions	7,290,876	1,076,214	726,357	446,046	303,122	4,287,641	150,379	240,089	61,028
41 U TX MD Anderson Cncr Ctr	94,053	0	3,172	0	2,058	88,823	0	0	0
42 SUNY at Stony Brook	93,265	7,084	16,748	10,408	4,839	50,667	2,653	866	0
43 UT Houston Hlth Sci Ctr	88,545	0	0	0	0	88,545	0	0	0
44 University of Kentucky	86,239	13,318	5,307	373	1,954	60,341	749	1,134	3,063
45 U Med & Dent of NJ	86,054	0	0	0	0	86,054	0	0	0
46 Oregon State University	84,854	10,654	3,908	30,081	2,197	36,364	2	575	1,073
47 U of MA Worcester	79,453	0	0	0	0	79,453	0	0	0
48 Wayne State University	79,448	4,225	7,453	54	575	64,031	1,805	1,305	0
49 U of Tennessee System	78,611	14,608	7,486	4,865	6,091	44,255	119	1,052	135
50 VA Polytech Inst & St U	77,384	32,817	4,135	12,693	2,756	22,598	1,210	1,175	0
Total, 1st 50 institutions	8,138,782	1,158,920	774,566	504,520	323,592	4,908,772	156,917	246,196	65,299

See explanatory information and SOURCE at end of table.

Table B-43. Federally financed R&D expenditures at public universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 Rutgers the State U NJ	77,156	12,271	13,166	8,734	4,945	30,684	3,029	4,241	86
52 U CA Santa Barbara	76,828	23,566	19,170	13,227	7,528	3,127	4,221	5,518	471
53 University of Kansas	74,494	7,895	2,736	2,383	567	54,887	1,205	1,877	2,944
54 Utah State University	74,251	48,154	2,658	3,048	1,155	14,796	1,131	1,804	1,505
55 U TX Hlth Sci Ctr San Ant	71,153	0	0	0	0	71,153	0	0	0
56 University of Connecticut	70,013	5,640	3,653	5,052	752	48,914	3,910	2,092	0
57 U of Missouri Columbia	68,435	8,446	2,151	624	940	48,950	3,000	4,324	0
58 University of Georgia	66,913	1,065	3,377	5,628	1,300	49,294	3,585	2,664	0
59 Mississippi State U	65,493	30,887	1,611	5,185	939	22,869	183	2,431	1,388
60 U TX Med Br at Galveston	64,682	765	0	0	0	63,917	0	0	0
Total, 1st 60 institutions	8,848,200	1,297,609	823,088	548,401	341,718	5,317,363	177,181	271,147	71,693
61 Iowa State University	62,024	16,995	5,811	2,640	3,044	25,448	87	7,415	584
62 New Mexico State Univ	61,124	39,664	5,255	2,972	3,100	8,211	655	1,018	249
63 Med U of South Carolina	60,543	0	0	0	0	60,543	0	0	0
64 University of Oklahoma	60,264	3,661	7,654	13,597	277	28,057	4,426	2,592	0
65 U of South Florida	58,826	6,494	704	11,178	168	35,731	3,817	734	0
66 Virginia Commonwealth U	57,315	1,797	3,856	57	58	48,836	2,166	545	0
67 Florida State University	57,075	7,099	19,716	10,675	3,017	6,016	3,907	6,645	0
68 Arizona State University	56,616	18,454	9,700	8,657	3,102	8,385	4,251	1,814	2,253
69 U of Alaska Fairbanks	55,287	5,095	6,590	27,109	105	14,575	0	486	1,327
70 U of South Carolina	51,983	15,061	8,495	5,827	1,679	14,110	2,416	4,020	375
Total, 1st 70 institutions	9,429,257	1,411,929	890,869	631,113	356,268	5,567,275	198,906	296,416	76,481
71 U of MA Amherst	49,576	6,605	11,495	2,426	9,948	14,740	3,884	478	0
72 University of Vermont	48,810	904	920	299	1,253	43,959	494	71	910
73 Washington State U	48,660	8,622	4,589	2,612	406	29,223	218	2,425	565
74 Clemson University	48,560	23,994	4,363	571	689	15,698	295	2,926	24
75 SUNY at Albany	46,671	0	1,036	3,362	923	35,658	1,438	4,254	0
76 U of New Hampshire	45,223	7,377	1,908	25,935	576	5,574	993	2,615	245
77 U of Nebraska at Lincoln	43,877	5,783	6,021	3,875	1,167	20,905	3,666	1,556	904
78 U of Rhode Island	43,161	4,935	559	22,999	196	7,705	3,809	578	2,380
79 University of Delaware	41,830	13,213	9,118	5,955	1,786	7,151	1,113	3,494	0
80 Temple University	41,643	1,391	6,384	198	622	25,133	7,230	685	0
Total, 1st 80 institutions	9,887,268	1,484,753	937,262	699,345	373,834	5,773,021	222,046	315,498	81,509
81 Naval Postgrad School	40,121 i	10,672 i	2,528 i	9,669 i	8,341 i	0 i	0 i	5,497 i	3,414 i
82 Auburn University	40,097	15,112	2,947	274	114	15,444	186	1,129	4,891
83 Montana St U Bozeman	34,857	6,353	9,532	263	250	16,155	0	982	1,322
84 U of Arkansas Medical Sci	34,219	0	0	0	0	34,219	0	0	0
85 Kansas State University	33,998	5,500	8,358	272	946	16,563	577	1,015	767
86 University of Oregon	32,232	137	6,766	1,461	2,548	16,016	4,048	1,256	0
87 U of Nevada Reno	31,386	3,710	4,344	4,122	836	16,950	868	539	17
88 U of Alabama Huntsville	30,625	13,049	7,157	4,650	4,630	875	0	228	36
89 U Mississippi, All Camp	30,108	4,930	11,879	0	582	8,331	99	1,861	2,426
90 West Virginia University	29,440	7,567	2,518	2,629	349	15,671	63	20	623
Total, 1st 90 institutions	10,224,351	1,551,783	993,291	722,685	392,430	5,913,245	227,887	328,025	95,005

See explanatory information and SOURCE at end of table.

Table B-43. Federally financed R&D expenditures at public universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
91 U CA Santa Cruz	29,201	1,457	11,894	6,209	2,041	6,176	436	981	7
92 University of Idaho	26,548	6,210	1,426	2,171	1,210	14,206	75	774	476
93 George Mason University	25,992	7,668	260	7,352	1,476	2,910	1,728	4,598	0
94 U CA Riverside	25,713	3,090	5,088	1,153	646	12,700	1,534	1,502	0
95 Oklahoma State University	25,636	7,051	2,092	392	764	11,395	30	2,281	1,631
96 University of Louisville	25,116	2,240	1,182	35	36	19,988	1,153	482	0
97 Florida International U	23,940	10,384	1,080	3,466	1,132	3,053	310	4,515	0
98 U of Maine	23,873	2,099	4,739	8,796	562	6,827	165	685	0
99 U of MD Baltimore County	23,695	3,488	4,990	9,072	1,016	3,365	463	1,301	0
100 San Diego St University	23,621	1,840	2,275	1,783	1,433	11,931	3,715	587	57
Total, 1st 100 institutions	10,477,686	1,597,310	1,028,317	763,114	402,746	6,005,796	237,496	345,731	97,176
Total, all other sampled institutions	1,217,276	225,936	153,519	139,771	66,395	482,734	45,129	64,748	39,044

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-44. R&D expenditures at private universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	10,382,234	1,379,143	928,476	340,347	508,320	6,594,791	148,229	312,395	170,533
1 Johns Hopkins U[1]	999,246	284,936	111,414	36,577	94,056	436,484	3,940	9,698	22,141
2 Stanford University	482,906	111,194	54,140	8,270	20,196	275,312	4,906	8,888	0
3 U of Pennsylvania	469,852	14,247	23,695	752	9,999	381,006	3,483	31,948	4,722
4 Cornell University	443,828	53,444	61,239	3,790	19,812	284,381	6,425	14,737	0
5 MA Institute of Tech	435,495	148,795	92,608	21,390	39,664	77,062	1,431	6,152	48,393
6 Washington University	406,642	6,915	12,940	4,615	8,478	365,713	2,225	4,784	972
7 Baylor Col of Medicine	381,461	0	0	0	0	381,461	0	0	0
8 Duke University	375,133	16,530	13,377	8,406	5,267	312,897	3,862	14,794	0
9 Harvard University	372,107	4,931	35,170	13,765	4,261	278,884	3,964	31,132	0
10 Columbia U in City of NY	354,497	16,702	34,612	46,375	6,669	240,793	3,469	5,709	168
Total, 1st 10 institutions	4,721,167	657,694	439,195	143,940	208,402	3,033,993	33,705	127,842	76,396
11 U of Southern California	340,597	49,865	10,030	14,440	66,606	185,096	5,013	7,666	1,881
12 Yale University	321,514	7,309	20,108	2,041	5,693	279,749	4,720	1,894	0
13 Northwestern University	257,933	47,799	22,674	756	4,739	166,035	2,894	9,523	3,513
14 Emory University	236,997	0	9,394	18	767	221,105	1,340	4,373	0
15 University of Rochester	234,261	49,396	12,860	847	2,706	156,659	10,161	697	935
16 California Inst of Tech	215,085	46,377	107,479	10,771	4,762	33,779	0	942	10,975
17 Case Western Reserve U	198,253	22,050	6,025	356	319	153,369	789	4,951	10,394
18 University of Chicago	194,125	0	33,192	4,526	2,915	147,810	2,620	3,062	0
19 New York University	190,722	0	4,743	632	14,000	152,633	11,233	7,022	459
20 Vanderbilt University	186,504	15,103	9,903	158	999	150,059	3,601	6,322	359
Total, 1st 20 institutions	7,097,158	895,593	675,603	178,485	311,908	4,680,287	76,076	174,294	104,912
21 Mt Sinai Sch Med	176,946	0	0	0	0	176,946	0	0	0
22 Boston University	172,031	18,219	13,499	3,106	2,976	118,512	4,879	2,074	8,766
23 University of Miami	153,772	2,089	2,331	30,957	140	107,753	7,749	2,753	0
24 Princeton University	149,411	46,947	29,244	13,293	10,601	26,431	3,892	19,003	0
25 Yeshiva University	148,230	0	0	0	0	148,230	0	0	0
26 Rockefeller U, The	145,571	0	4,489	0	4,669	136,413	0	0	0
27 Carnegie Mellon U	144,882	40,635	9,311	3,373	63,592	11,757	6,460	8,827	927
28 Dartmouth College	109,096	14,137	3,834	1,570	4,708	74,490	4,685	492	5,180
29 Tufts University	105,806	6,263	2,952	970	1,314	84,659	3,357	6,291	0
30 Tulane University	99,761	7,925	3,276	1,360	893	76,704	346	3,998	5,259
Total, 1st 30 institutions	8,502,664	1,031,808	744,539	233,114	400,801	5,642,182	107,444	217,732	125,044
31 Georgetown University	99,228	0	5,723	0	209	90,273	146	2,877	0
32 Wake Forest University	98,343	0	1,447	0	145	96,131	0	0	620
33 Brown University	91,636	14,337	9,546	5,499	12,280	42,396	2,666	4,912	0
34 Woods Hole Oceanogr Inst	91,029	19,180	0	71,849	0	0	0	0	0
35 Thomas Jefferson U	88,936	0	0	0	0	88,936	0	0	0
36 Medical Col of Wisconsin	83,857	0	0	0	0	83,857	0	0	0
37 George Washington U	73,805	11,172	2,782	149	14,654	36,149	990	6,523	1,386
38 Rush University	70,219	0	0	0	0	68,935	1,284	0	0
39 Brandeis University	52,818	0	5,239	0	1,680	22,902	1,621	21,376	0
40 University of Notre Dame	46,096	11,222	13,946	0	1,852	8,114	1,729	1,226	8,007
Total, 1st 40 institutions	9,298,631	1,087,719	783,222	310,611	431,621	6,179,875	115,880	254,646	135,057
41 Rensselaer Polytech Inst	45,010	34,069	5,519	1,774	2,766	669	0	213	0
42 Rice University	42,675	9,972	12,701	1,101	11,295	6,282	664	660	0
43 Syracuse University	42,476	8,941	4,890	1,047	5,430	2,417	1,254	5,509	12,988
44 University of Dayton	41,343	38,997	1,372	184	198	369	99	0	124
45 Loyola U of Chicago	37,156	0	2,591	57	165	30,351	1,615	2,377	0
46 C R Drew U of Med & Sci	36,717	0	0	0	0	36,717	0	0	0
47 Northeastern University	34,467	13,845	9,696	15	1,647	6,165	1,579	1,520	0
48 MCP Hahnemann U	32,462	0	0	0	0	31,938	524	0	0
49 Saint Louis University	32,442	0	44	725	206	31,328	53	1	85
50 Boston College	30,768	0	7,802	532	14,590	2,950	628	4,266	0
Total, 1st 50 institutions	9,674,147	1,193,543	827,837	316,046	467,918	6,329,061	122,296	269,192	148,254

See explanatory information and SOURCE at end of table.

Table B-44. R&D expenditures at private universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 Howard University	30,148	2,425	2,004	0	3,255	19,534	1,693	1,225	12
52 Lehigh University	29,058	23,902	3,254	847	44	932	71	8	0
53 Drexel University	27,698	22,767	2,180	806	1,626	319	0	0	0
54 Loma Linda University	26,451 i	0 i	0 i	0 i	0 i	23,324 i	0 i	897 i	2,230 i
55 Eastern VA Med School	26,250	0	0	0	0	26,250	0	0	0
56 New York Medical College	24,283	0	0	0	0	24,283	0	0	0
57 Morehouse School of Med	19,670	0	0	0	0	19,670	0	0	0
58 Brigham Young University	19,171	7,305	3,711	221	1,534	3,743	564	1,832	261
59 OGI Schl Sci & Eng OHSU	18,798	2,857	3,508	3,388	9,045	0	0	0	0
60 Rose-Hulman Inst of Tech	18,540	13,342	2,762	0	2,436	0	0	0	0
Total, 1st 60 institutions	9,914,214	1,266,141	845,256	321,308	485,858	6,447,116	124,624	273,154	150,757
61 Creighton University	17,674	0	184	71	6	17,393	0	20	0
62 Catholic U of America	17,539	1,882	12,790	0	0	691	790	1,381	5
63 Clark Atlanta University	17,173	2,244	4,013	0	1,038	2,606	5	625	6,642
64 Mercer University	15,337	8,256	961	0	86	5,850	151	33	0
65 Illinois Inst of Tech	14,722	4,446	1,139	0	647	7,654	836	0	0
66 Inst of Paper Sci & Tech	13,929	9,611	2,925	0	0	1,393	0	0	0
67 Stevens Inst of Tech	13,855	6,989e	1,448e	2,567e	678e	0e	0e	2,173e	0e
68 University of Denver	12,944	1,040	2,611	1,546	99	960	2,904	3,729	55
69 Albany Medical College	12,836	0	0	0	0	12,836	0	0	0
70 University of Tulsa	12,553	8,861	1,797	95	670	821	180	129	0
Total, 1st 70 institutions	10,062,776	1,309,470	873,124	325,587	489,082	6,497,320	129,490	281,244	157,459
71 Rochester Inst of Tech	11,416	4,950	4,171	757	144	1,355	16	19	4
72 Meharry Medical College	10,268 i	0 i	0 i	347 i	8 i	9,913 i	0 i	0 i	0 i
73 Teachers Col, Columbia U	9,676	0	0	0	594	993	3,085	5,004	0
74 Tuskegee University	9,539	1,004	192	0	0	6,323	0	2,020	0
75 Worcester Polytech Inst	9,348	7,588	591	0	944	222	0	3	0
76 Hampton University	9,158	505	7,300	968	330	55	0	0	0
77 Southern Methodist U	8,948	2,274	1,533	2,152	1,134	1,089	285	193	288
78 Clarkson University	8,322	6,642	1,373	0	162	113	32	0	0
79 Polytechnic University	8,277	6,854	441	0	982	0	0	0	0
80 Finch U Hlth Sci Chicago	8,037	0	0	0	0	7,357	680	0	0
Total, 1st 80 institutions	10,155,765	1,339,287	888,725	329,811	493,380	6,524,740	133,588	288,483	157,751
81 Embry-Riddle Aero Univ	7,711	6,204	0	812	173	0	0	0	522
82 Marquette University	7,236	2,073	1,140	0	130	2,215	106	1,001	571
83 U Ctrl Del Caribe Esc Med	6,943	0	0	0	0	6,943	0	0	0
84 Alfred University	6,678	6,678	0	0	0	0	0	0	0
85 Harvey Mudd College	6,443 i	1,742 i	978 i	66 i	233 i	2,782 i	46 i	267 i	329 i
86 Florida Inst of Tech	6,195	1,377	783	1,122	1,517	1,083	313	0	0
87 Villanova University	5,969 i	3,781 i	1,520 i	68 i	170 i	339 i	91 i	0 i	0 i
88 Wesleyan University	5,846	0	2,172	178	114	2,574	660	148	0
89 New School University	5,791	0	0	0	0	719	46	5,026	0
90 Wellesley College	5,498	0	596	24	112	820	15	585	3,346
Total, 1st 90 institutions	10,220,075	1,361,142	895,914	332,081	495,829	6,542,215	134,865	295,510	162,519

See explanatory information and SOURCE at end of table.

Table B-44. R&D expenditures at private universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
91 Xavier University of LA	5,113	317	1,520	0	0	2,791	0	0	485
92 Ponce School of Medicine	3,842	0 i	0 i	0 i	0 i	3,842 i	0 i	0 i	0 i
93 Texas Christian U	3,678	208	882	31	62	52	2,397	46	0
94 Fordham University	3,639	0	15	52	36	1,132	1,445	959	0
95 Spelman College	3,406	0	1,294	482	46	1,521	63	0	0
96 Institute of Textile Tech	3,171	2,541	425	0	205	0	0	0	0
97 Hampshire College	3,152	245	436	188	437	205	168	1,279	194
98 Bryn Mawr College	3,066	0	1,068	238	501	298	315	646	0
99 Alliant University	3,062e	171 i	68 i	33 i	50 i	999 i	17 i	94 i	1,630 i
100 Clark University	3,039	0	922	0	0	213	521	1,383	0
Total, 1st 100 institutions	10,255,243	1,364,624	902,544	333,105	497,166	6,553,268	139,791	299,917	164,828
Total, all other sampled institutions	126,991	14,519	25,932	7,242	11,154	41,523	8,438	12,478	5,705

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-45. Federally financed R&D expenditures at private universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	7,495,911	1,020,524	789,674	279,764	415,414	4,690,159	115,478	133,988	50,910
1 Johns Hopkins U[1]	879,741	278,116	109,309	34,923	92,941	347,565	3,691	6,613	6,583
2 Stanford University	384,468	92,036	48,502	5,926	17,145	214,486	3,880	2,493	0
3 U of Pennsylvania	351,996	10,666	21,681	164	8,672	296,706	3,050	8,997	2,060
4 Columbia U in City of NY	317,928	13,852	33,143	44,889	6,062	212,271	3,268	4,312	131
5 MA Institute of Tech	304,319	102,226	89,881	18,652	27,496	59,054	1,326	1,840	3,844
6 Harvard University	300,414	4,156	31,346	12,415	3,399	232,400	3,648	13,050	0
7 Washington University	284,928	4,247	9,644	2,508	6,822	256,345	1,864	3,498	0
8 Yale University	250,702	5,887	17,867	1,836	5,091	215,209	3,978	834	0
9 U of Southern California	246,207	37,144	6,910	10,499	63,695	120,682	3,895	2,996	386
10 Cornell University	240,466	29,776	44,655	1,722	13,967	144,510	1,942	3,894	0
Total, 1st 10 institutions	3,561,169	578,106	412,938	133,534	245,290	2,099,228	30,542	48,527	13,004
11 Baylor Col of Medicine	234,394	0	0	0	0	234,394	0	0	0
12 Duke University	218,109	12,075	10,799	4,719	4,495	171,792	3,184	11,045	0
13 California Inst of Tech	193,554	41,810	103,362	10,319	4,687	31,553	0	726	1,097
14 Emory University	170,317	0	6,350	0	397	162,073	1,027	470	0
15 University of Rochester	166,945	41,036	11,298	725	2,464	104,254	6,508	660	0
16 Case Western Reserve U	158,852	16,639	5,361	340	222	133,371	651	2,268	0
17 Northwestern University	158,129	28,746	15,507	601	2,815	104,710	2,305	3,402	43
18 University of Chicago	155,566	0	27,664	4,148	2,487	115,766	2,588	2,913	0
19 Boston University	150,771	16,275	12,961	2,960	2,941	100,993	4,773	1,504	8,364
20 Vanderbilt University	146,230	11,750	8,305	143	908	117,681	2,643	4,468	332
Total, 1st 20 institutions	5,314,036	746,437	614,545	157,489	266,706	3,375,815	54,221	75,983	22,840
21 New York University	129,897	0	4,165	26	11,326	101,365	9,219	3,610	186
22 University of Miami	111,803	1,463	2,217	27,240	140	70,619	7,625	2,499	0
23 Mt Sinai Sch Med	109,344	0	0	0	0	109,344	0	0	0
24 Yeshiva University	107,800	0	0	0	0	107,800	0	0	0
25 Carnegie Mellon U	97,463	25,672	7,251	314	44,379	8,271	4,336	6,779	461
26 Georgetown University	93,626	0	5,324	0	200	85,315	145	2,642	0
27 Princeton University	78,620	23,363	18,987	7,812	5,979	17,546	2,195	2,738	0
28 Wake Forest University	78,021	0	866	0	145	76,951	0	0	59
29 Woods Hole Oceanogr Inst	75,670	15,368	0	60,302	0	0	0	0	0
30 Tufts University	71,669	4,217	2,384	216	1,031	61,006	1,935	880	0
Total, 1st 30 institutions	6,267,949	816,520	655,739	253,399	329,906	4,014,032	79,676	95,131	23,546
31 Dartmouth College	69,844	10,294	2,434	782	3,673	47,443	3,473	268	1,477
32 Thomas Jefferson U	64,881	0	0	0	0	64,881	0	0	0
33 Medical Col of Wisconsin	64,003	0	0	0	0	64,003	0	0	0
34 Brown University	58,367	9,239	5,136	3,756	7,769	29,599	1,868	1,000	0
35 Tulane University	55,669	3,531	1,805	715	747	41,666	60	3,345	3,800
36 Rockefeller U, The	55,362	0	2,594	0	1,451	51,317	0	0	0
37 George Washington U	51,757	8,371	2,399	134	13,644	23,062	949	2,383	815
38 Rush University	37,301	0	0	0	0	36,405	896	0	0
39 Rice University	35,682	7,007	10,359	1,101	10,836	5,105	654	620	0
40 University of Dayton	34,102	32,310	1,267	172	137	207	9	0	0
Total, 1st 40 institutions	6,794,917	887,272	681,733	260,059	368,163	4,377,720	87,585	102,747	29,638
41 Syracuse University	30,036	5,848	4,548	844	3,242	2,163	1,250	3,418	8,723
42 Brandeis University	30,031	0	3,721	0	1,631	17,263	1,474	5,942	0
43 University of Notre Dame	29,801	7,549	12,814	0	1,703	5,446	1,337	620	332
44 Saint Louis University	28,117	0	33	603	206	27,229	46	0	0
45 Howard University	27,848	1,981	1,878	0	2,878	18,240	1,693	1,171	7
46 C R Drew U of Med & Sci	27,415	0	0	0	0	27,415	0	0	0
47 Loyola U of Chicago	26,474	0	1,913	44	163	21,694	1,415	1,245	0
48 Rensselaer Polytech Inst	25,894	18,391	3,522	1,218	2,206	520	0	37	0
49 Northeastern University	23,532	8,842	7,318	15	1,262	4,690	1,162	243	0
50 MCP Hahnemann U	22,944	0	0	0	0	22,599	345	0	0
Total, 1st 50 institutions	7,067,009	929,883	717,480	262,783	381,454	4,524,979	96,307	115,423	38,700

See explanatory information and SOURCE at end of table.

Table B-45. Federally financed R&D expenditures at private universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 Loma Linda University	20,494 i	0 i	0 i	0 i	0 i	17,367 i	0 i	897 i	2,230 i
52 Drexel University	20,159	16,665	1,630	407	1,138	319	0	0	0
53 Boston College	20,123	0	5,725	459	9,695	1,059	456	2,729	0
54 New York Medical College	18,344	0	0	0	0	18,344	0	0	0
55 Morehouse School of Med	18,127	0	0	0	0	18,127	0	0	0
56 Clark Atlanta University	14,354	2,062	3,943	0	992	2,606	5	543	4,203
57 OGI Schl Sci & Eng OHSU	14,072	918	3,205	2,719	7,230	0	0	0	0
58 Lehigh University	13,961	9,968	2,526	681	25	688	68	5	0
59 Catholic U of America	13,308	1,444	10,453	0	0	583	778	45	5
60 Brigham Young University	11,659	4,941	2,454	121	974	2,101	266	602	200
Total, 1st 60 institutions	7,231,610	965,881	747,416	267,170	401,508	4,586,173	97,880	120,244	45,338
61 Eastern VA Med School	11,389	0	0	0	0	11,389	0	0	0
62 Illinois Inst of Tech	10,917	3,003	768	0	548	5,824	774	0	0
63 Meharry Medical College	10,015 i	0 i	0 i	347 i	8 i	9,660 i	0 i	0 i	0 i
64 University of Denver	9,248	428	1,813	1,256	99	721	2,172	2,759	0
65 Mercer University	9,076	8,145	256	0	17	625	0	33	0
66 Albany Medical College	8,562	0	0	0	0	8,562	0	0	0
67 Hampton University	8,377	505	6,609	878	330	55	0	0	0
68 Stevens Inst of Tech	8,094	4,670e	1,142e	811e	288e	0e	0e	1,183e	0e
69 University of Tulsa	7,341	5,099	1,222	95	445	344	36	100	0
70 Creighton University	7,275	0	184	71	0	7,020	0	0	0
Total, 1st 70 institutions	7,321,904	987,731	759,410	270,628	403,243	4,630,373	100,862	124,319	45,338
71 Tuskegee University	7,259	750	171	0	0	4,982	0	1,356	0
72 Embry-Riddle Aero Univ	6,987	5,580	0	712	173	0	0	0	522
73 U Ctrl Del Caribe Esc Med	6,622	0	0	0	0	6,622	0	0	0
74 Finch U Hlth Sci Chicago	6,256	0	0	0	0	5,665	591	0	0
75 Teachers Col, Columbia U	5,617	0	0	0	594	860	2,480	1,683	0
76 Rochester Inst of Tech	5,612	1,467	2,578	487	0	1,045	16	19	0
77 Southern Methodist U	5,587	749	865	1,955	841	948	165	64	0
78 Xavier University of LA	4,666	301	1,499	0	0	2,381	0	0	485
79 Villanova University	4,520 i	3,047 i	924 i	11 i	168 i	280 i	90 i	0 i	0 i
80 Worcester Polytech Inst	4,506	3,321	289	0	709	187	0	0	0
Total, 1st 80 institutions	7,379,536	1,002,946	765,736	273,793	405,728	4,653,343	104,204	127,441	46,345
81 Clarkson University	4,286	3,559	472	0	127	96	32	0	0
82 Polytechnic University	4,063	3,328	191	0	544	0	0	0	0
83 Wesleyan University	3,893	0	1,664	68	40	1,508	537	76	0
84 Ponce School of Medicine	3,736	0 i	0 i	0 i	0 i	3,736 i	0 i	0 i	0 i
85 Wellesley College	3,446	0	413	24	31	600	8	376	1,994
86 Marquette University	3,309	745	724	0	88	1,587	58	107	0
87 Spelman College	3,262	0	1,285	475	34	1,405	63	0	0
88 Inst of Paper Sci & Tech	2,947	2,063	884	0	0	0	0	0	0
89 Texas Christian U	2,824	91	297	31	0	3	2,382	20	0
90 Florida Inst of Tech	2,614	420	365	689	338	797	5	0	0
Total, 1st 90 institutions	7,413,916	1,013,152	772,031	275,080	406,930	4,663,075	107,289	128,020	48,339

See explanatory information and SOURCE at end of table.

Table B-45. Federally financed R&D expenditures at private universities and colleges, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
91 Clark University	2,605	0	890	0	0	213	265	1,237	0
92 Fisk University	2,577	0	2,568	0	0	9	0	0	0
93 American University	1,999	0	719	0	225	8	264	783	0
94 Fordham University	1,980	0	0	19	30	287	1,400	244	0
95 Duquesne University	1,969	0	600	0	13	1,284	4	68	0
96 Claflin College	1,958	303	208	0	804	643	0	0	0
97 Morehouse College	1,843 i	0 i	263 i	0 i	63 i	954 i	257 i	94 i	212 i
98 Gallaudet University	1,768	0	0	0	0	228	130	1,410	0
99 Nova Southeastern U	1,750	0	0	995	0	292	463	0	0
100 Ithaca College	1,653	0	0	0	1,375	263	15	0	0
Total, 1st 100 institutions	7,434,018	1,013,455	777,279	276,094	409,440	4,667,256	110,087	131,856	48,551
Total, all other sampled institutions	61,893	7,069	12,395	3,670	5,974	22,903	5,391	2,132	2,359

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-46. Total and federally financed R&D expenditures at historically black colleges and universities, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	293,190	254,825	263,319	303,533	248,633	216,513	228,087	261,903
1 Howard University	23,673	23,557	27,254	30,148	21,501	21,658	25,292	27,848
2 Jackson State University	6,111	8,823	12,027	25,663	5,326	7,925	10,690	22,750
3 Florida A&M University	19,066	21,622	21,612	23,865	15,726	20,693	16,278	22,477
4 Morehouse School of Med	13,614	13,622	16,889	19,670	12,461	12,948	15,419	18,127
5 Clark Atlanta University	29,637	19,467	16,891	17,173	24,079	12,116	16,170	14,354
6 NC A&T State University	14,816	14,741	13,400	15,629	12,924	12,454	11,187	11,937
7 Tennessee State U	9,329	10,762	11,285	12,791	7,978	8,522	8,873	10,210
8 Prairie View A&M U	9,952	10,157	9,464	11,297	9,612	8,675	7,679	7,094
9 Meharry Medical College	11,212e	9,460	9,460e	10,268 i	11,004e	9,192	9,192e	10,015 i
10 Tuskegee University	37,354	9,223	8,893	9,539	26,894	6,942	6,694	7,259
Total, 1st 10 institutions	174,764	141,434	147,175	176,043	147,505	121,125	127,474	152,071
11 Hampton University	7,140	7,472	9,323	9,158	6,801	7,168	8,994	8,377
12 Southern U A&M All Camp	9,063	9,296	8,302	9,052 i	6,983	6,689	6,418	7,059 i
13 Alabama A&M University	14,143	11,562	8,238	8,982 i	10,518	8,558	7,056	7,761 i
14 Alcorn State University	5,119	5,223	8,034	7,370	5,119	5,223	8,034	7,370
15 Winston Salem State U	2,468	1,712	3,447	6,057	1,898	1,619	3,216	4,853
16 U of MD Eastern Shore	2,265	2,508	3,895	5,626	2,265	2,508	3,895	5,626
17 Xavier University of LA	5,388	3,294	3,425	5,113	5,355	3,240	3,174	4,666
18 Virginia State University	3,338	2,611	4,422	5,066	2,792	2,061	3,602	4,246
19 U Arkansas Pine Bluff	4,151	4,151e	4,151 i	4,151 i	2,911	2,911e	2,911 i	2,911 i
20 Kentucky State University	713	713e	2,354 i	3,996	703	703e	2,179 i	3,655
Total, 1st 20 institutions	228,552	189,976	202,766	240,614	192,850	161,805	176,953	208,595
21 Norfolk State University	2,524	2,995	3,408	3,984	2,442	2,970	3,273	3,952
22 Spelman College	1,744	2,007	2,082	3,406	1,700	1,832	1,978	3,262
23 U of the Virgin Islands	4,828e	3,310	3,310e	3,310 i	2,428e	1,957	1,957e	1,957 i
24 University of DC	3,074	3,394	2,737	3,001	1,898	1,829	1,629	2,008
25 South Carolina State U	2,885	2,900	2,915	2,915e	1,968	1,978	1,988	1,988e
26 Langston University	2,031	2,340	2,553	2,863	2,031	2,340	2,553	2,863
27 Morehouse College	592e	2,853	2,853e	2,853 i	591e	1,843	1,843e	1,843 i
28 Fort Valley State U	2,989	2,937	2,768	2,768e	2,359	2,318	2,417	2,417e
29 Fisk University	2,909	4,034	3,401	2,722	2,909	2,846	2,652	2,577
30 Delaware State University	2,883	2,765	3,415	2,494	2,734	2,055	3,052	2,222
Total, 1st 30 institutions	255,011	219,511	232,208	270,930	213,910	183,773	200,295	233,684
31 Texas Southern U	2,690	2,507	2,182	2,468	2,504	2,292	1,844	1,908
32 Morgan State University	3,981	1,066	4,371	2,390	3,960	1,066	4,371	2,390
33 Grambling State U	1,997	1,997e	2,264	2,264e	1,936	1,936e	2,200	2,200e
34 Lincoln University	3,313	2,686	2,502	2,236	2,635 i	2,686	2,502	2,236
35 Bowie State University	4,511	2,675	2,675e	2,207	4,403	2,360	2,360e	2,022
36 Savannah State Univ	331	513	905	2,181	331 i	513	905	2,181
37 Claflin College	1,403	555	555e	2,074	1,028	250	250e	1,958
38 Albany State University	1,019	1,019e	1,393	1,972	1,019	1,019e	840	740
39 Alabama State University	1,177	1,365	1,365e	1,433e	1,133	1,190	1,190e	1,249e
40 Mississippi Valley St U	350	495	834	1,316	350	495	834	1,316
Total, 1st 40 institutions	275,783	234,389	251,254	291,471	233,209	197,580	217,591	251,884
41 Le Moyne-Owen Coll	1,451	1,053	1,700	1,268	1,404	1,031	1,700	1,250
42 Elizabeth City State U	684	1,040	1,558	1,248	575	1,040	1,558	1,248
43 Benedict College	800 i	966 i	1,143	1,044	745 i	938 i	1,143	1,014
44 Tougaloo College	1,180	1,227	895	1,007	657	767	473	407
45 Bethune Cookman College	566	583	586	926	566	583	586	926
46 North Carolina Central U	869	825e	808 i	913 i	786 i	777e	761 i	853 i
47 Bennett College	811	811e	811 i	811 i	583	583e	583 i	583 i
48 Southern U New Orleans	--	--	183	680	--	--	60e	652
49 Virginia Union University	671	671e	671 i	671 i	537	537e	537 i	537 i
50 Lincoln University (PA)	1,364	972	709	620	1,364	972	709	620
Total, 1st 50 institutions	284,179	242,537	260,318	300,659	240,426	204,808	225,701	259,974

See explanatory information and SOURCE at end of table.

Table B-46. Total and federally financed R&D expenditures at historically black colleges and universities, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 Fayetteville State U	485	265	507	589	378	265	507	298
52 Oakwood College	845	567	567e	567 i	690	447	447e	447 i
53 Central State University	1,497	1,497e	560e	560 i	1,144	1,144e	283e	283 i
54 Dillard University	175e	175	264	349	164e	164	182	199
55 Wilberforce University	280e	280 i	280 i	280 i	236e	236 i	236 i	236 i
56 Johnson C Smith U	4,299	8,659	287	195	4,299	8,659	250	195
57 Morris Brown College	525e	321 i	116	116e	525e	321 i	116	116e
58 Shaw University	110	100	100e	100 i	110	100	100e	100 i
59 West Virginia State Col	119	55	55e	63e	0	0	0e	0e
60 Jarvis Christian College	55	56	55	55e	55	56	55	55e
Total, 1st 60 institutions	292,569	254,512	263,109	303,533	248,027	216,200	227,877	261,903
61 Bluefield State College	15	0	0	0	0	0	0	0
62 Coppin State College	6	11	0	0	6	11	0	0
63 Philander Smith College	73e	72	72e	0	73e	72	72e	0
64 Rust College	317	114	138	0	317	114	138	0
65 Selma University	210e	116	0	0e	210e	116	0	0e
66 Talladega College	0e	0	0	0	0 i	0	0	0
67 Wiley College	0	0	0	0	0	0	0	0
68 Knoxville College	0	0	--	--	0	0	--	--
Total, 1st 68 institutions	293,190	254,825	263,319	303,533	248,633	216,513	228,087	261,903

KEY: -- = not available
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-47. Total and federally financed R&D expenditures in engineering at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in engineering: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	4,068,829	4,260,182	4,546,633	4,999,648	2,353,658	2,440,183	2,571,678	2,843,770
1 Johns Hopkins U[1]	216,973	225,813	251,993	284,936	212,747	221,320	247,231	278,116
2 Georgia Institute of Tech	165,472	172,053	197,589	201,581	72,542	73,638	81,862	94,589
3 Pennsylvania State U	142,907	138,455	162,795	183,823	85,368	80,195	99,076	110,576
4 MA Institute of Tech	178,664	153,789	149,282	148,795	127,064	110,676	106,362	102,226
5 University of Michigan	109,219	132,935	137,773	143,487	68,083	84,757	88,108	91,611
6 U CA Berkeley	99,697	107,062	120,757	128,984	48,225	51,323	56,757	54,554
7 Texas A&M University	108,306	108,249	118,494	124,227	27,986	31,065	31,008	31,514
8 Stanford University	116,364	114,272	108,220	111,194	102,752	98,864	91,594	92,036
9 U TX at Austin	81,547	95,987	100,294	110,119	46,499	61,383	65,769	72,061
10 U of IL Urbana-Champaign	87,557	91,373	95,353	104,108	51,751	53,912	57,385	60,525
Total, 1st 10 institutions	1,306,706	1,339,988	1,442,550	1,541,254	843,017	867,133	925,152	987,808
11 Ohio State University	70,275	77,090	82,705	96,297	18,760	20,467	21,302	25,802
12 U of WI-Madison	56,512	61,363	71,293	82,652	34,042	34,500	41,315	50,565
13 NC State University	80,278	80,586	76,839	81,949	33,161	27,008	25,259	32,403
14 VA Polytech Inst & St U	48,844	53,530	66,963	80,349	25,000	25,584	26,084	32,817
15 Purdue University	68,096	70,106	71,515	78,561	34,899	36,509	31,300	30,109
16 U of MD at College Park	67,267	76,548	76,091	75,574	38,734	42,645	40,494	39,841
17 Utah State University	33,933	32,083	41,074	59,162	29,337	27,360	31,180	48,154
18 University of Florida	48,621	46,186	47,513	54,908	21,735	20,227	23,973	25,759
19 Cornell University	44,687	49,641	54,860	53,444	28,416	31,243	30,977	29,776
20 University of Arizona	42,394	43,094	48,272	52,486	24,232	25,320	29,305	31,493
Total, 1st 20 institutions	1,867,613	1,930,215	2,079,675	2,256,636	1,131,333	1,157,996	1,226,341	1,334,527
21 New Mexico State Univ	46,187	47,632	46,790	50,500	37,487	38,257	39,179	39,664
22 Clemson University	26,584	30,583	35,374	50,307	8,315	8,331	9,636	23,994
23 U CA San Diego	46,169	47,725	46,660	50,301	27,585	25,273	24,534	24,190
24 U of Southern California	38,686	42,148	46,319	49,865	30,530	32,688	34,857	37,144
25 U of Washington	34,277	34,889	39,009	49,629	21,927	21,875	24,906	30,547
26 University of Rochester	38,158	41,864	46,494	49,396	34,243	36,235	40,942	41,036
27 Northwestern University	42,636	42,618	44,685	47,799	27,047	30,446	30,492	28,746
28 Princeton University	35,805	39,080	41,026	46,947	20,707	22,316	21,220	23,363
29 U CA Los Angeles	42,967	46,108	46,434	46,854	28,171	29,527	29,689	28,438
30 California Inst of Tech	35,630	40,470	43,662	46,377	31,536	37,675	35,711	41,810
Total, 1st 30 institutions	2,254,712	2,343,332	2,516,128	2,744,611	1,398,881	1,440,619	1,517,507	1,653,459
31 Louisiana State U System	35,605	37,781	41,628	44,813	13,535	15,326	18,937	19,823
32 Mississippi State U	22,862	30,713	38,107	44,736	15,833	20,914	25,329	30,887
33 Iowa State University	40,370	40,019	47,049	44,099	14,229	13,207	16,863	16,995
34 Arizona State University	32,745	34,378	36,612	42,485	12,501	13,841	13,978	18,454
35 U CA Davis	27,726	29,528	35,197	41,928	10,216	10,069	12,693	14,571
36 University of Minnesota	37,595	38,564	41,343	41,659	24,122	24,055	24,515	25,585
37 Carnegie Mellon U	34,363	38,676	36,892	40,635	23,142	24,272	24,754	25,672
38 University of Dayton	41,418	33,386	36,325	38,997	34,141	28,403	29,831	32,310
39 U of Tennessee System	27,827	27,772	32,928	36,580	12,855	11,676	11,971	14,608
40 U CA Santa Barbara	34,985	37,147	38,902	35,393	26,427	27,670	28,834	23,566
Total, 1st 40 institutions	2,590,208	2,691,296	2,901,111	3,155,936	1,585,882	1,630,052	1,725,212	1,875,930
41 Rensselaer Polytech Inst	23,963	28,275	31,036	34,069	11,925	14,857	17,616	18,391
42 Rutgers the State U NJ	25,908	29,097	33,681	33,575	11,517	12,867	15,101	12,271
43 University of Colorado	28,935	26,187	31,174	33,021	16,824	15,925	23,331	24,704
44 NJ Inst of Technology	19,714	19,714	18,274	31,572	11,162	11,162	3,358	12,729
45 Auburn University	17,239	20,575	23,859	31,568	10,644	11,392	12,106	15,112
46 University of Kentucky	25,174	27,478	31,426	29,767	9,871	10,140	12,253	13,318
47 SUNY at Buffalo	27,690	29,946	32,301	29,725	14,129	14,579	16,121	17,080
48 Colorado State University	17,998	13,670	15,452	28,708	8,653	6,430	8,162	19,973
49 University of Connecticut	24,166	23,793	27,294	28,225	5,564	6,041	5,228	5,640
50 University of Cincinnati	21,569	25,453	24,127	26,114	11,992	12,801	11,604	12,244
Total, 1st 50 institutions	2,822,564	2,935,484	3,169,735	3,462,280	1,698,163	1,746,246	1,850,092	2,027,392

See explanatory information and SOURCE at end of table.

Table B-47. Total and federally financed R&D expenditures in engineering at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in engineering: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 University of Virginia	22,490	21,706	23,937	25,838	14,551	16,643	18,361	19,932
52 U of Central Florida	6,383	8,353	9,157	25,575	1,997	2,774	2,914	3,799
53 U of South Carolina	17,116	21,578	23,095	25,573	10,545	12,595	14,923	15,061
54 University of Utah	19,174	21,816	25,293	25,565	12,197	13,405	15,561	15,283
55 University of Delaware	23,408	26,908	23,730	25,360	10,647	11,701	12,009	13,213
56 U of Iowa	21,888	20,409	22,921	24,772	8,642	8,495	9,534	9,489
57 University of New Mexico	27,243	26,998	26,464	24,737	20,093	21,305	21,979	20,384
58 U of Nebraska at Lincoln	20,029 i	22,112	22,365	24,584	3,771 i	4,257	4,400	5,783
59 Lehigh University	20,354	22,190	19,503	23,902	8,842	9,152	8,460	9,968
60 Drexel University	12,867	17,351	15,828	22,767	8,025	10,620	9,795	16,665
Total, 1st 60 institutions	3,013,516	3,144,905	3,382,028	3,710,953	1,797,473	1,857,193	1,968,028	2,156,969
61 U of Missouri Columbia	16,606	20,312	21,818	22,637	4,254	6,105	8,669	8,446
62 Case Western Reserve U	28,340	26,239	25,518	22,050	18,166	17,695	17,301	16,639
63 U of Missouri Rolla	15,086	18,277	19,698	21,610	5,439	6,141	7,161	8,963
64 Michigan State University	17,837	16,673	20,695	20,845	5,096	4,913	5,913	6,970
65 U of IL Chicago	12,979	15,107	19,007	20,646	5,007	5,696	9,333	10,384
66 University of Alabama, The	11,474	13,241	17,058	19,965	8,518	9,939	11,227	12,955
67 Michigan Tech University	16,959	18,896	18,387	19,688	8,166	9,581	10,041	11,300
68 University of Houston	19,097	17,661	18,081	19,320	7,783	5,423	5,721	5,316
69 Florida International U	8,906	10,359	14,641	19,211	7,470	8,984	8,576	10,384
70 Woods Hole Oceanogr Inst	12,016	12,999	16,637	19,180	9,096	9,297	12,801	15,368
Total, 1st 70 institutions	3,172,816	3,314,669	3,573,568	3,916,105	1,876,468	1,940,967	2,064,771	2,263,694
71 U of New Hampshire	5,520	8,207	12,462	19,101	1,409	2,889	4,789	7,377
72 U of South Florida	15,728	12,902	16,698	19,063	6,284	5,106	4,615	6,494
73 U of MA Amherst	16,264	15,146	17,476	18,811	5,894	5,747	6,800	6,605
74 Oklahoma State University	12,899	14,655	16,752	18,589	5,604	5,706	6,465	7,051
75 Boston University	14,969	16,110	17,455	18,219	10,610	14,767	15,274	16,275
76 U CA Irvine	11,658	12,461	15,518	18,035	4,288	4,787	5,590	7,433
77 West Virginia University	18,923	20,601	20,560	17,269	9,472	10,188	8,668	7,567
78 Oregon State University	14,178	14,440	13,903	17,005	9,364	9,648	8,651	10,654
79 Columbia U in City of NY	14,901	15,645	16,393	16,702	11,438	13,450	13,068	13,852
80 U of Alabama Huntsville	14,387	16,887	17,154	16,671	7,260	8,556	8,964	13,049
Total, 1st 80 institutions	3,312,243	3,461,723	3,737,939	4,095,570	1,948,091	2,021,811	2,147,655	2,360,051
81 Duke University	13,710	14,650	15,249	16,530	10,155	11,002	11,358	12,075
82 Colorado School of Mines	14,296	14,578	13,878	16,288	4,977	5,967	5,195	6,169
83 University of Kansas	13,751	13,085	12,403	15,850	7,674	5,799	5,570	7,895
84 NM Inst Mining & Tech	15,526	16,835	14,393	15,846	5,878	7,807	5,912	7,839
85 Texas Tech University	16,221	16,384	16,748	15,751	6,628	6,861	6,178	5,249
86 University of Pittsburgh	7,532	8,912	11,858	15,614	3,656	4,168	6,595	7,823
87 Washington State U	12,321	14,288	16,660	15,366	6,982	7,727	9,878	8,622
88 SUNY at Stony Brook	10,083	11,047	15,574	15,110	6,498	6,410	8,098	7,084
89 Vanderbilt University	7,529	9,764	12,223	15,103	4,669	6,595	8,667	11,750
90 Kansas State University	12,972	13,356	15,935	15,099	5,110	4,526	5,611	5,500
Total, 1st 90 institutions	3,436,184	3,594,622	3,882,860	4,252,127	2,010,318	2,088,673	2,220,717	2,440,057

See explanatory information and SOURCE at end of table.

Table B-47. Total and federally financed R&D expenditures in engineering at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in engineering: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 Brown University	9,568	9,529	9,958	14,337	5,958	5,250	5,626	9,239
92 U of Pennsylvania	12,785	13,911	13,315	14,247	10,123	10,598	9,651	10,666
93 Dartmouth College	7,133	7,365	8,691	14,137	5,088	5,526	7,112	10,294
94 University of Oklahoma	14,008	15,592	15,163	14,026	3,264	3,176	4,122	3,661
95 Northeastern University	11,274	13,118	11,680	13,845	8,960	9,835	8,250	8,842
96 Rose-Hulman Inst of Tech	245 i	839	3,691	13,342	233 i	493	217	390
97 Old Dominion University	7,933	10,056	11,712	13,122	5,542	6,196	7,558	9,440
98 U of Arkansas Main	11,576	9,638	12,460	12,353	4,714	3,896	6,504	6,250
99 Wichita State University	10,531	11,369	12,808	12,298	1,686	1,723	3,166	3,522
100 University of Idaho	8,878	10,635	9,838	12,122	1,413	3,243	4,563	6,210
Total, 1st 100 institutions	3,530,115	3,696,674	3,992,176	4,385,956	2,057,299	2,138,609	2,277,486	2,508,571
Total, all other sampled institutions	538,714	563,508	554,457	613,692	296,359	301,574	294,192	335,199

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-48. R&D expenditures in engineering subfields at universities and colleges: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Aero/ astro- nautical	Bioengin- eering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
Total, all institutions	4,999,648	338,569	211,336	413,544	666,706	1,160,439	685,388	450,931	1,072,735
1 Johns Hopkins U[1]	284,936	27,534 i	12,420 i	7,045 i	5,721 i	83,674 i	57,643 i	538 i	90,361 i
2 Georgia Institute of Tech	201,581	18,276	7,431	7,735	11,448	93,696	26,526	10,919	25,550
3 Pennsylvania State U	183,823	3,920	2,648	13,167	17,742	49,599	21,798	41,587	33,362
4 MA Institute of Tech	148,795	14,856	13,117	16,843	11,898	29,195	21,736	14,598	26,552
5 University of Michigan	143,487	4,785	6,563	4,768	12,793	41,480	28,180	4,627	40,291
6 U CA Berkeley	128,984	0	53	5,866	36,696	62,283	185	72	23,829
7 Texas A&M University	124,227	7,015	1,870	9,135	43,123	5,895	14,175	3,976	39,038
8 Stanford University	111,194	7,002	0	8,001	8,800	27,251	20,318	3,060	36,762
9 U TX at Austin	110,119	9,313	3,109	7,888	17,555	30,270	10,773	16,867	14,344
10 U of IL Urbana-Champaign	104,108	4,486	43	5,526	17,424	33,984	14,450	14,597	13,598
Total, 1st 10 institutions	1,541,254	97,187	47,254	85,974	183,200	457,327	215,784	110,841	343,687
11 Ohio State University	96,297	3,015	881	6,441	6,861	13,072	11,609	20,385	34,033
12 U of WI-Madison	82,652	0	2,079	6,920	5,743	8,897	4,031	2,998	51,984
13 NC State University	81,949	4,973	6,344	19,677	11,593	11,540	7,804	8,220	11,798
14 VA Polytech Inst & St U	80,349	4,255	300	2,891	16,829	23,569	12,676	4,636	15,193
15 Purdue University	78,561	5,300	6,633	6,875	12,890	19,617	12,989	1,679	12,578
16 U of MD at College Park	75,574	10,535	0	1,375	6,774	12,705	12,225	5,108	26,852
17 Utah State University	59,162	33,081	0	0	903	3,071	15,033	0	7,074
18 University of Florida	54,908	3,744	1,487	3,222	15,010	4,659	3,225	12,276	11,285
19 Cornell University	53,444	3,359	0	3,545	7,030	17,989	1,252	3,551	16,718
20 University of Arizona	52,486	3,675	1,676	4,650	10,840	14,906	13,919	547	2,273
Total, 1st 20 institutions	2,256,636	169,124	66,654	141,570	277,673	587,352	310,547	170,241	533,475
21 New Mexico State Univ	50,500	18,607	0	4,654	1,555	9,257	820	1,835	13,772
22 Clemson University	50,307	0	3,020	7,658	5,138	9,302	10,917	5,239	9,033
23 U CA San Diego	50,301	0	6,986	4,703	0	20,960	5,775	704	11,173
24 U of Southern California	49,865	2,887	2,988	1,919	5,248	27,133	2,272	2,014	5,404
25 U of Washington	49,629	3,029	4,713	6,928	11,063	2,422	1,464	20,010	0
26 University of Rochester	49,396	0	740	1,424	0	3,186	35,194	0	8,852
27 Northwestern University	47,799	0	3,801	3,793	4,095	5,579	4,323	14,458	11,750
28 Princeton University	46,947	9,418	0	3,649	3,804	19,913	0	9,872	291
29 U CA Los Angeles	46,854	0	616	2,724	2,638	22,316	14,372	3,138	1,050
30 California Inst of Tech	46,377	8,699	0	5,646	4,849	14,596	5,029	1,642	5,916
Total, 1st 30 institutions	2,744,611	211,764	89,518	184,668	316,063	722,016	390,713	229,153	600,716
31 Louisiana State U System	44,813	0	0	2,121	6,541	1,268	4,863	11,440	18,580
32 Mississippi State U	44,736	2,117	0	3,538	2,060	6,153	2,015	0	28,853
33 Iowa State University	44,099	10,163	0	999	7,126	6,089	1,350	2,863	15,509
34 Arizona State University	42,485	111	3,876	3,333	9,770	10,985	9,175	0	5,235
35 U CA Davis	41,928	0	6,354	4,793	11,998	5,553	7,225	0	6,005
36 University of Minnesota	41,659	4,327	331	6,547	8,696	7,190	9,477	78	5,013
37 Carnegie Mellon U	40,635	0	1,259	7,085	3,090	12,707	2,483	5,003	9,008
38 University of Dayton	38,997	4,618	0	658	189	1,112	9,648	16,518	6,254
39 U of Tennessee System	36,580	7,506	0	988	15,113	2,816	0	2,996	7,161
40 U CA Santa Barbara	35,393	0	113	5,031	0	16,748	2,432	10,761	308
Total, 1st 40 institutions	3,155,936	240,606	101,451	219,761	380,646	792,637	439,381	278,812	702,642
41 Rensselaer Polytech Inst	34,069	0	957	2,159	4,082	4,443	2,084	3,930	16,414
42 Rutgers the State U NJ	33,575	0	6,610	2,070	3,437	6,790	5,100	7,404	2,164
43 University of Colorado	33,021	13,461	0	3,773	6,347	5,674	3,192	133	441
44 NJ Inst of Technology	31,572	0	670	2,880	11,779	5,661	2,067	0	8,515
45 Auburn University	31,568	910	0	9,689	3,554	4,588	2,686	1,592	8,549
46 University of Kentucky	29,767	0	0	1,866	305	2,247	2,671	0	22,678
47 SUNY at Buffalo	29,725	7,784	2,657	1,634	11,332	1,955	931	406	3,026
48 Colorado State University	28,708	0	14,559	1,191	5,413	3,349	3,557	0	639
49 University of Connecticut	28,225	0	0	2,389	10,782	3,618	1,259	9,300	877
50 University of Cincinnati	26,114	3,451	0	1,602	8,034	9,031	2,140	1,703	153
Total, 1st 50 institutions	3,462,280	266,212	126,904	249,014	445,711	839,993	465,068	303,280	766,098

See explanatory information and SOURCE at end of table.

Table B-48. R&D expenditures in engineering subfields at universities and colleges: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Aero/ astro- nautical	Bioengin- eering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
51 University of Virginia	25,838	273	2,742	1,974	1,988	6,221	4,271	6,781	1,588
52 U of Central Florida	25,575	1,582	0	0	2,149	3,165	1,303	16,249	1,127
53 U of South Carolina	25,573	0	0	6,280	1,815	11,429	3,243	0	2,806
54 University of Utah	25,565	0	3,958	5,690	7,452	1,528	2,179	3,625	1,133
55 University of Delaware	25,360	0	0	6,324	5,913	4,956	3,353	0	4,814
56 U of Iowa	24,772	0	1,132	2,559	8,837	2,207	3,526	0	6,511
57 University of New Mexico	24,737	0	0	2,028	5,510	6,067	983	8,669	1,480
58 U of Nebraska at Lincoln	24,584	0	2,210	3,071	5,482	4,199	2,539	1,735	5,348
59 Lehigh University	23,902	0	0	2,471	7,211	2,626	2,815	5,530	3,249
60 Drexel University	22,767	0	2,107	1,560	2,494	11,384	1,613	2,502	1,107
Total, 1st 60 institutions	3,710,953	268,067	139,053	280,971	494,562	893,775	490,893	348,371	795,261
61 U of Missouri Columbia	22,637	50	0	2,285	4,693	4,255	2,060	3,601	5,693
62 Case Western Reserve U	22,050	0	5,297	5,163	649	2,547	4,424	3,908	62
63 U of Missouri Rolla	21,610	539	0	252	2,528	4,787	3,369	6,771	3,364
64 Michigan State University	20,845	0	0	4,874	3,006	3,481	4,746	1,989	2,749
65 U of IL Chicago	20,646	0	3,391	1,023	2,613	8,495	4,684	0	440
66 University of Alabama, The	19,965	3,688	0	2,321	3,460	801	1,629	3,254	4,812
67 Michigan Tech University	19,688	0	217	1,622	5,664	1,152	5,269	3,611	2,153
68 University of Houston	19,320	2,776	0	2,313	2,546	2,772	2,039	6,585	289
69 Florida International U	19,211	0	576	0	961	1,345	768	0	15,561
70 Woods Hole Oceanogr Inst	19,180	1,360 i	0 i	1,415 i	1,493 i	4,763 i	4,113 i	0 i	6,036 i
Total, 1st 70 institutions	3,916,105	276,480	148,534	302,239	522,175	928,173	523,994	378,090	836,420
71 U of New Hampshire	19,101	0	0	987	5,469	10,259	1,539	170	677
72 U of South Florida	19,063	0	0	981	11,694	3,532	1,063	1,379	414
73 U of MA Amherst	18,811	0	0	3,748	3,816	6,617	4,242	0	388
74 Oklahoma State University	18,589	510	0	1,428	2,143	1,836	2,578	0	10,094
75 Boston University	18,219	963	10,004	0	0	4,445	963	1,726	118
76 U CA Irvine	18,035	0	1,284	2,499	4,564	5,209	3,647	0	832
77 West Virginia University	17,269	74	0	1,634	2,435	3,933	7,513	292	1,388
78 Oregon State University	17,005	0	2,736	210	3,497	2,280	1,396	1,634	5,252
79 Columbia U in City of NY	16,702	0	1,050	1,604	576	2,580	917	1,065	8,910
80 U of Alabama Huntsville	16,671	0	0	1,731	838	5,300	5,687	0	3,115
Total, 1st 80 institutions	4,095,570	278,027	163,608	317,061	557,207	974,164	553,539	384,356	867,608
81 Duke University	16,530	0	5,588	0	1,367	6,483	3,070	0	22
82 Colorado School of Mines	16,288	0	0	4,959	0	0	0	8,818	2,511
83 University of Kansas	15,850	2,298	15	3,199	3,527	6,449	322	0	40
84 NM Inst Mining & Tech	15,846	0	0	4,747	0	215	0	986	9,898
85 Texas Tech University	15,751	0	0	2,371	4,639	5,063	359	2,402	917
86 University of Pittsburgh	15,614	0	1,907	3,544	768	3,150	850	3,225	2,170
87 Washington State U	15,366	0	2,691	1,106	2,950	3,178	2,224	2,478	739
88 SUNY at Stony Brook	15,110	0	1,316	0	0	3,741	2,289	6,414	1,350
89 Vanderbilt University	15,103	0	3,381	1,038	1,775	6,702	2,034	78	95
90 Kansas State University	15,099	0	0	1,494	2,621	698	1,818	0	8,468
Total, 1st 90 institutions	4,252,127	280,325	178,506	339,519	574,854	1,009,843	566,505	408,757	893,818

See explanatory information and SOURCE at end of table.

Table B-48. R&D expenditures in engineering subfields at universities and colleges: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Aero/ astro- nautical	Bioengin- eering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
91 Brown University	14,337	1,017 i	0 i	1,032 i	1,096 i	3,441 i	3,278 i	0 i	4,473 i
92 U of Pennsylvania	14,247	0	3,033	1,289	594	962	1,616	3,105	3,648
93 Dartmouth College	14,137	0	0	0	837	2,705	1,933	0	8,662
94 University of Oklahoma	14,026	0	0	4,985	3,493	2,747	2,085	0	716
95 Northeastern University	13,845	0	0	2,986	633	4,705	1,219	0	4,302
96 Rose-Hulman Inst of Tech	13,342	0	206	1,444	4	5,013	5,255	0	1,420
97 Old Dominion University	13,122	2,368	0	0	702	6,516	1,159	0	2,377
98 U of Arkansas Main	12,353	0	16	691	2,443	4,595	1,194	0	3,414
99 Wichita State University	12,298	10,837	0	0	0	384	301	0	776
100 University of Idaho	12,122	299	329	74	1,472	2,085	1,138	2,263	4,462
Total, 1st 100 institutions	4,385,956	294,846	182,090	352,020	586,128	1,042,996	585,683	414,125	928,068
Total, all other sampled institutions	613,692	43,723	29,246	61,524	80,578	117,443	99,705	36,806	144,667

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-49. Federally financed R&D expenditures in engineering subfields at universities and colleges: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Aero/ astro-nautical	Bioengin-eering/ Biomed-ical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgical and materials	Other
Total, all institutions	2,843,770	254,453	120,732	214,828	270,594	725,245	415,777	240,275	601,866
1 Johns Hopkins U[1]	278,116	26,671 i	10,302 i	5,817 i	4,579 i	83,163 i	56,798 i	513 i	90,273
2 Pennsylvania State U	110,576	1,689	1,501	7,320	5,133	36,520	13,143	21,043	24,227
3 MA Institute of Tech	102,226	12,812	9,991	11,212	7,343	20,334	11,114	8,560	20,860
4 Georgia Institute of Tech	94,589	8,576	3,487	3,629	5,372	43,965	12,447	5,124	11,989
5 Stanford University	92,036	6,262	0	6,354	6,807	21,179	16,780	2,363	32,291
6 University of Michigan	91,611	3,701	2,525	2,708	6,801	29,503	16,390	1,511	28,472
7 U TX at Austin	72,061	7,803	2,397	2,830	1,135	26,227	8,652	10,740	12,277
8 U of IL Urbana-Champaign	60,525	3,711	0	2,937	9,700	21,122	7,203	9,700	6,152
9 U CA Berkeley	54,554	0	53	2,392	8,847	31,255	0	2	12,005
10 U of WI-Madison	50,565	0	1,326	4,219	3,529	5,343	1,335	1,637	33,176
Total, 1st 10 institutions	1,006,859	71,225	31,582	49,418	59,246	318,611	143,862	61,193	271,722
11 Utah State University	48,154	30,579	0	0	354	1,535	13,470	0	2,216
12 California Inst of Tech	41,810	7,606	0	4,013	4,849	13,196	4,840	1,523	5,783
13 University of Rochester	41,036	0	176	1,302	0	2,331	30,687	0	6,540
14 U of MD at College Park	39,841	8,316	0	1,136	1,387	9,917	6,889	3,793	8,403
15 New Mexico State Univ	39,664	16,491	0	4,128	742	7,463	632	1,657	8,551
16 U of Southern California	37,144	2,305	2,669	1,185	3,231	20,420	2,076	1,830	3,428
17 VA Polytech Inst & St U	32,817	1,954	201	780	6,276	10,902	6,201	2,131	4,372
18 NC State University	32,403	3,164	946	8,162	3,841	5,921	2,832	4,488	3,049
19 University of Dayton	32,310	3,613	0	446	139	525	7,369	14,930	5,288
20 Texas A&M University	31,514	3,688	449	2,263	6,513	1,759	3,602	228	13,012
Total, 1st 20 institutions	1,383,552	148,941	36,023	72,833	86,578	392,580	222,460	91,773	332,364
21 University of Arizona	31,493	2,779	352	2,520	8,385	7,780	7,956	372	1,349
22 Mississippi State U	30,887	665	0	607	905	4,678	806	0	23,226
23 U of Washington	30,547	2,474	2,810	3,417	6,880	1,089	679	13,198	0
24 Purdue University	30,109	2,791	1,964	1,966	2,642	10,591	3,403	1,196	5,556
25 Cornell University	29,776	2,334	0	2,311	2,118	9,169	848	1,347	11,649
26 Northwestern University	28,746	0	2,254	1,970	2,335	3,990	2,668	7,351	8,178
27 U CA Los Angeles	28,438	0	0	1,789	560	14,208	10,475	1,406	0
28 Ohio State University	25,802	290	390	1,835	1,586	4,046	4,513	6,805	6,337
29 University of Florida	25,759	2,531	0	1,342	4,375	2,228	1,996	7,283	6,004
30 Carnegie Mellon U	25,672	0	345	3,754	2,478	8,214	1,616	3,148	6,117
Total, 1st 30 institutions	1,670,781	162,805	44,138	94,344	118,842	458,573	257,420	133,879	400,780
31 University of Minnesota	25,585	3,879	240	4,194	3,412	4,718	6,311	0	2,831
32 University of Colorado	24,704	11,171	0	2,535	4,508	3,746	2,571	123	50
33 U CA San Diego	24,190	0	5,203	3,752	0	9,680	4,162	2	1,391
34 Clemson University	23,994	0	619	4,474	1,563	5,439	4,928	2,364	4,607
35 U CA Santa Barbara	23,566	0	0	3,475	0	11,234	1,657	7,124	76
36 Princeton University	23,363	4,514	0	1,839	2,476	7,610	0	6,918	6
37 University of New Mexico	20,384	0	0	1,607	4,298	4,975	832	7,744	928
38 Colorado State University	19,973	0	12,245	533	3,739	2,330	550	0	576
39 University of Virginia	19,932	241	2,270	1,485	1,643	4,258	2,892	5,937	1,206
40 Louisiana State U System	19,823	0	0	348	1,909	531	1,179	3,943	11,913
Total, 1st 40 institutions	1,896,295	182,610	64,715	118,586	142,390	513,094	282,502	168,034	424,364
41 Arizona State University	18,454	43	2,890	2,104	4,321	4,066	3,918	0	1,112
42 Rensselaer Polytech Inst	18,391	0	804	1,834	1,809	3,689	1,705	2,826	5,724
43 SUNY at Buffalo	17,080	7,740	1,874	707	4,132	1,023	361	259	984
44 Iowa State University	16,995	7,296	0	493	1,253	2,462	918	2,013	2,560
45 Drexel University	16,665	0	1,423	751	893	9,775	1,111	1,643	1,069
46 Case Western Reserve U	16,639	0	4,228	2,934	427	2,061	3,587	3,402	0
47 Boston University	16,275	947	8,545	0	0	4,220	947	1,498	118
48 Woods Hole Oceanogr Inst	15,368	1,094 i	0 i	1,195 i	1,207 i	4,016 i	2,981 i	0 i	4,875
49 University of Utah	15,283	0	2,745	3,934	3,103	678	1,921	2,655	247
50 Auburn University	15,112	446	0	2,433	2,469	2,710	1,917	1,201	3,936
Total, 1st 50 institutions	2,062,557	200,176	87,224	134,971	162,004	547,794	301,868	183,531	444,989

See explanatory information and SOURCE at end of table.

Table B-49. Federally financed R&D expenditures in engineering subfields at universities and colleges: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Aero/ astro-nautical	Bioengin-eering/ Biomed-ical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgical and materials	Other
51 U of South Carolina	15,061	0	0	3,513	1,097	7,908	1,623	0	920
52 U of Tennessee System	14,608	4,186	0	928	2,641	1,852	0	1,289	3,712
53 U CA Davis	14,571	0	1,703	3,023	1,897	2,305	1,228	0	4,415
54 Columbia U in City of NY	13,852	0	773	277	193	2,299	893	679	8,738
55 University of Kentucky	13,318	0	0	1,196	162	1,311	1,826	0	8,823
56 University of Delaware	13,213	0	0	3,417	3,065	2,509	1,647	0	2,575
57 U of Alabama Huntsville	13,049	0	0	1,136	681	4,191	4,662	0	2,379
58 University of Alabama, The	12,955	3,201	0	1,793	1,462	595	1,121	2,136	2,647
59 NJ Inst of Technology	12,729	0	25	723	9,553	1,213	571	0	644
60 Rutgers the State U NJ	12,271	0	1,423	372	129	1,904	4,414	3,019	1,010
Total, 1st 60 institutions	2,198,184	207,563	91,148	151,349	182,884	573,881	319,853	190,654	480,852
61 University of Cincinnati	12,244	829	0	446	4,961	4,771	564	673	0
62 Duke University	12,075	0	4,385	0	472	5,046	2,150	0	22
63 Vanderbilt University	11,750	0	2,110	895	1,239	5,669	1,673	76	88
64 Michigan Tech University	11,300	0	16	489	4,314	721	2,362	2,661	737
65 Naval Postgrad School	10,672 i	3,542 i	0 i	0 i	0 i	4,365 i	2,145 i	620 i	0
66 U of Pennsylvania	10,666	0	2,469	1,016	0	517	1,323	2,405	2,936
67 Oregon State University	10,654	0	2,379	199	2,248	1,170	395	559	3,704
68 Florida International U	10,384	0	312	0	519	727	415	0	8,411
69 U of IL Chicago	10,384	0	281	797	744	6,204	2,358	0	0
70 Dartmouth College	10,294	0	0	0	713	2,214	1,222	0	6,145
Total, 1st 70 institutions	2,308,607	211,934	103,100	155,191	198,094	605,285	334,460	197,648	502,895
71 U Houston Clear Lake	10,214	10,214	0	0	0	0	0	0	0
72 Lehigh University	9,968	0	0	1,016	1,810	1,612	1,379	3,285	866
73 U of Iowa	9,489	0	430	1,224	3,113	1,647	1,569	0	1,506
74 Old Dominion University	9,440	1,737	0	0	492	5,297	968	0	946
75 Brown University	9,239	655 i	0 i	710 i	729 i	2,428 i	1,789 i	0 i	2,928
76 U of Missouri Rolla	8,963	362	0	34	1,149	2,636	1,322	2,740	720
77 Northeastern University	8,842	0	0	2,748	436	3,186	648	0	1,824
78 Washington State U	8,622	0	978	993	1,560	1,115	1,558	2,125	293
79 U of Missouri Columbia	8,446	50	0	214	3,173	2,074	572	170	2,193
80 George Washington U	8,371	1,394	0	0	1,756	787	567	0	3,867
Total, 1st 80 institutions	2,400,201	226,346	104,508	162,130	212,312	626,067	344,832	205,968	518,038
81 NC A&T State University	8,256	0	0	963	1,516	1,775	2,573	0	1,429
82 Florida Atlantic U	8,174	0	0	0	0	1,710	59	0	6,405
83 Mercer University	8,145	260	0	0	0	364	2,770	4,657	94
84 University of Kansas	7,895	1,432	0	1,164	1,696	3,406	197	0	0
85 NM Inst Mining & Tech	7,839	0	0	2,221	0	145	0	152	5,321
86 University of Pittsburgh	7,823	0	712	2,061	363	829	576	2,762	520
87 George Mason University	7,668	0	0	0	339	1,464	0	0	5,865
88 U of North Dakota	7,616	0	0	34	118	89	97	0	7,278
89 West Virginia University	7,567	55	0	810	1,171	2,146	3,057	142	186
90 University of Notre Dame	7,549	1,961	0	1,102	1,259	3,227	0	0	0
Total, 1st 90 institutions	2,478,733	230,054	105,220	170,485	218,774	641,222	354,161	213,681	545,136

See explanatory information and SOURCE at end of table.

Table B-49. Federally financed R&D expenditures in engineering subfields at universities and colleges: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Aero/ astro-nautical	Bioengin-eering/ Biomed-ical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgical and materials	Other
91 U CA Irvine	7,433	0	546	1,751	1,042	2,025	2,068	0	1
92 U of New Hampshire	7,377	0	0	547	2,876	2,616	1,186	152	0
93 Florida State University	7,099	0	0	112	1,494	273	5,178	0	42
94 SUNY at Stony Brook	7,084	0	143	0	0	2,085	1,365	3,403	88
95 Oklahoma State University	7,051	214	0	514	186	705	957	0	4,475
96 Rice University	7,007	0	1,775	596	991	2,789	736	0	120
97 Michigan State University	6,970	0	0	1,463	970	1,319	2,192	422	604
98 U of MA Amherst	6,605	0	0	964	376	3,379	1,694	0	192
99 U of South Florida	6,494	0	0	357	3,548	1,939	598	52	0
100 Montana St U Bozeman	6,353	0	2,652	99	2,288	240	1,030	0	44
Total, 1st 100 institutions	2,548,206	230,268	110,336	176,888	232,545	658,592	371,165	217,710	550,702
Total, all other sampled institutions	295,564	24,185	10,396	37,940	38,049	66,653	44,612	22,565	51,164

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-50. R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the physical sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Astronomy	Chemistry	Physics	Other
Total, all institutions	2,482,134	2,603,777	2,708,242	2,800,364	378,037	1,007,136	1,236,502	178,689
1 Johns Hopkins U[1]	131,662	121,817	97,484	111,414	40,837	12,124	52,412	6,041
2 California Inst of Tech	86,036	108,136	117,689	107,479	33,249	15,357	58,873	0
3 MA Institute of Tech	100,899	92,189	92,198	92,608	14,693	18,063	58,449	1,403
4 U CA Berkeley	76,164	93,676	90,306	79,469	8,383	21,339	48,272	1,475
5 University of Arizona	71,248	83,227	83,227	72,131	57,604	9,908	4,619	0
6 University of Colorado	45,369	48,157	72,003	71,362	42,268	14,229	14,088	777
7 U CA Los Angeles	36,402	41,873	45,035	68,170	20,284	15,071	32,337	478
8 Cornell University	60,854	79,447	70,153	61,239	9,899	11,013	34,050	6,277
9 U TX at Austin	83,029	65,875	56,338	58,845	8,306	11,640	37,520	1,379
10 Pennsylvania State U	25,966	37,420	42,461	55,196	15,729	18,042	21,380	45
Total, 1st 10 institutions	717,629	771,817	766,894	777,913	251,252	146,786	362,000	17,875
11 Stanford University	58,555	54,521	53,594	54,140	0	15,752	6,103	32,285
12 U of WI-Madison	38,814	41,526	46,678	49,127	5,865	12,935	22,952	7,375
13 U of MD at College Park	50,105	53,959	53,718	47,085	7,280	7,242	18,202	14,361
14 U of IL Urbana-Champaign	45,258	48,846	48,612	47,013	5,918	20,091	21,004	0
15 Michigan State University	30,143	31,712	39,788	45,432	0	10,488	34,944	0
16 Florida State University	50,612	41,417	43,626	42,586	0	11,635	30,696	255
17 Harvard University	27,527	30,424	32,530	35,170	3,225	17,446	12,745	1,754
18 University of Minnesota	17,404	17,382	24,475	35,028	1,954	8,860	24,214	0
19 Indiana University	21,275	25,926	29,682	34,958	598	14,316	19,987	57
20 Columbia U in City of NY	24,154	21,500	26,104	34,612	4,251	7,983	2,493	19,885
Total, 1st 20 institutions	1,081,476	1,139,030	1,165,701	1,203,064	280,343	273,534	555,340	93,847
21 University of Chicago	29,352	34,942	35,534	33,192	14,099	9,403	8,821	869
22 U CA San Diego	37,948	36,154	33,652	33,185	6,110	11,131	13,566	2,378
23 U CA Santa Cruz	22,681	22,600	23,844	31,117	16,778	5,838	8,501	0
24 U of Washington	22,595	26,090	27,122	29,784	3,318	9,597	16,869	0
25 Princeton University	28,114	28,018	27,100	29,244	3,928	11,314	14,002	0
26 Rutgers the State U NJ	20,261	22,632	23,768	26,867	0	13,190	13,677	0
27 Univ of Hawaii at Manoa	26,192	24,828	26,699	26,405	20,594	1,698	4,044	69
28 Texas A&M University	20,765	28,733	24,131	25,848	0	17,206	7,363	1,279
29 University of Michigan	23,072	21,915	23,407	25,654	1,107	10,957	13,013	577
30 NC State University	15,387	15,759	20,814	25,574	0	11,143	14,006	425
Total, 1st 30 institutions	1,327,843	1,400,701	1,431,772	1,489,934	346,277	375,011	669,202	99,444
31 SUNY at Stony Brook	23,978	24,363	24,797	25,283	1,222	6,730	17,331	0
32 U CA Santa Barbara	18,068	21,057	23,459	24,757	0	6,656	12,191	5,910
33 Ohio State University	19,733	19,535	24,446	23,906	1,505	12,174	10,086	141
34 U of Pennsylvania	24,546	24,775	24,780	23,695	0	11,110	12,585	0
35 University of Florida	21,774	21,498	20,005	23,388	2,150	11,460	9,209	569
36 Northwestern University	15,888	18,142	20,408	22,674	0	13,733	5,218	3,723
37 Arizona State University	19,916	19,937	19,021	22,231	232	12,416	4,258	5,325
38 U CA Davis	13,053	14,193	18,183	21,329	0	6,771	4,872	9,686
39 Georgia Institute of Tech	21,968	19,539	21,141	21,086	0	9,027	11,843	216
40 U of MA Amherst	23,045	18,041	20,094	20,876	5,901	10,509	4,295	171
Total, 1st 40 institutions	1,529,812	1,601,781	1,648,106	1,719,159	357,287	475,597	761,090	125,185
41 Purdue University	22,130	21,007	20,095	20,461	0	12,194	8,267	0
42 Yale University	17,397	18,596	18,830	20,108	1,022	6,751	12,335	0
43 U CA Irvine	17,542	17,328	16,519	17,693	0	9,863	7,830	0
44 Louisiana State U System	13,540	16,153	17,479	17,231	0	8,632	8,237	362
45 U of NC Chapel Hill	11,750	15,851	17,580	17,161	0	12,652	4,509	0
46 U of Central Florida	9,795	10,970	13,656	16,754	0	3,714	13,040	0
47 U of South Carolina	11,655	12,078	12,921	16,499	0	9,228	4,508	2,763
48 U of Iowa	15,049	14,766	15,985	15,080	1,001	3,820	10,259	0
49 University of Utah	11,105	13,983	15,453	14,605	0	10,086	4,319	200
50 Wayne State University	10,777	11,190	11,683	14,516	0	6,874	7,642	0
Total, 1st 50 institutions	1,670,552	1,753,703	1,808,307	1,889,267	359,310	559,411	842,036	128,510

See explanatory information and SOURCE at end of table.

Table B-50. R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the physical sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Astronomy	Chemistry	Physics	Other
51 University of Notre Dame	13,158	13,360	15,252	13,946	0	8,960	4,986	0
52 U CA San Francisco	0	0	12,332	13,845	0	13,845	0	0
53 University of Oklahoma	12,401	12,958	15,549	13,690	0	10,574	3,116	0
54 U of Alaska Fairbanks	14,507 i	32,102	37,044	13,599	658	1,137	11,804	0
55 Boston University	12,897	11,945	12,569	13,499	1,029	2,557	4,629	5,284
56 U Mississippi, All Camp	4,111	4,411	10,177	13,400	0	694	12,706	0
57 Duke University	15,187	17,061	13,288	13,377	0	4,417	8,960	0
58 University of Pittsburgh	10,108	10,668	11,914	13,139	884	7,943	4,310	2
59 Washington University	8,942	10,457	10,535	12,940	0	5,035	7,905	0
60 University of Rochester	13,815	13,049	13,461	12,860	1,219	3,246	8,395	0
Total, 1st 60 institutions	1,775,678	1,879,714	1,960,428	2,023,562	363,100	617,819	908,847	133,796
61 University of Delaware	9,466	10,144	11,038	12,830	0	6,043	2,582	4,205
62 Catholic U of America	5,094	7,987	6,628	12,790	0	1,353	3,053	8,384
63 Rice University	9,187	10,698	11,909	12,701	1,999	7,390	3,312	0
64 Montana St U Bozeman	6,682	7,279	10,712	11,799	0	4,542	7,257	0
65 University of Virginia	11,639	11,938	12,397	11,538	1,548	6,583	3,407	0
66 University of Georgia	10,061	9,866	10,068	10,870	0	6,977	3,893	0
67 Iowa State University	9,599	9,105	9,232	10,536	0	5,503	5,033	0
68 U of Southern California	11,068	10,415	10,177	10,030	232	8,010	1,788	0
69 U of Nebraska at Lincoln	5,467 i	10,463	10,888	9,965	0	5,475	4,490	0
70 Kansas State University	7,348	7,916	8,062	9,957	0	2,561	7,396	0
Total, 1st 70 institutions	1,861,289	1,975,525	2,061,539	2,136,578	366,879	672,256	951,058	146,385
71 Vanderbilt University	10,725	14,698	12,865	9,903	0	3,171	6,732	0
72 U of Alabama Huntsville	6,447	8,624	8,185	9,769	0	5,413	4,356	0
73 Northeastern University	6,158	6,722	12,507	9,696	0	2,677	7,019	0
74 U of Tennessee System	11,586	12,404	10,933	9,579	0	3,044	6,535	0
75 Brown University	8,005	8,027	8,806	9,546	0	4,330	5,216	0
76 University of Houston	7,770	9,102	8,571	9,405	0	6,074	3,331	0
77 Emory University	5,989	6,304	8,355	9,394	0	8,037	1,357	0
78 Carnegie Mellon U	8,485	8,586	7,942	9,311	0	2,867	5,646	798
79 VA Polytech Inst & St U	9,015	8,030	10,223	9,298	0	6,461	1,973	864
80 SUNY at Buffalo	10,913	10,338	9,790	9,189	0	5,711	3,342	136
Total, 1st 80 institutions	1,946,382	2,068,360	2,159,716	2,231,668	366,879	720,041	996,565	148,183
81 U of IL Chicago	8,597	8,317	8,186	9,107	0	4,023	5,084	0
82 Colorado State University	10,450	8,514	8,469	8,564	0	5,917	2,420	227
83 SUNY at Albany	6,201	8,051	10,423	8,541	0	1,252	7,289	0
84 University of Akron	8,380	6,820	8,279	8,178	0	8,108	70	0
85 Clemson University	5,769	6,049	6,996	8,047	0	3,933	4,114	0
86 University of Oregon	7,325	7,728	7,267	7,911	0	3,969	3,942	0
87 Boston College	4,410	6,377	7,638	7,802	0	5,843	1,959	0
88 University of Kentucky	5,386	5,623	8,068	7,709	0	4,121	3,588	0
89 Hampton University	4,942	5,463	3,826	7,300	0	185	7,115	0
90 University of Connecticut	4,253	4,671	7,097	7,174	0	3,666	3,508	0
Total, 1st 90 institutions	2,012,095	2,135,973	2,235,965	2,312,001	366,879	761,058	1,035,654	148,410

See explanatory information and SOURCE at end of table.

Table B-50. R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the physical sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Astronomy	Chemistry	Physics	Other
91 U CA Riverside	6,516	6,883	7,627	7,168	0	4,859	2,309	0
92 U of Arkansas Main	4,983	3,955	5,560	7,002	0	3,273	3,729	0
93 Temple University	1,611	2,303	4,676	6,979	0	967	6,012	0
94 Kent State University	8,213	6,844	6,620	6,971	0	1,077	1,741	4,153
95 NJ Inst of Technology	3,127	3,127	1,382	6,932	0	2,449	4,483	0
96 University of New Mexico	10,518	8,679	11,000	6,611	0	2,639	3,492	480
97 University of Kansas	10,356	11,388	10,207	6,269	276	3,099	2,452	442
98 Oklahoma State University	5,432	7,005	6,282	6,105	0	2,363	3,475	267
99 CUNY City College	8,273	6,843	6,253	6,097	0	3,053	2,707	337
100 Texas Tech University	5,435	6,401	5,230	6,028	0	4,150	1,878	0
Total, 1st 100 institutions	2,076,559	2,199,401	2,300,802	2,378,163	367,155	788,987	1,067,932	154,089
Total, all other sampled institutions	405,575	404,376	407,440	422,201	10,882	218,149	168,570	24,600

[1] Johns Hopkins University includes the Applied Physics Laboratory

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-51. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the physical sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Astronomy	Chemistry	Physics	Other
Total, all institutions	1,761,115	1,860,315	1,911,267	1,971,510	259,737	660,288	925,576	125,909
1 Johns Hopkins U[1]	129,077	119,458	95,181	109,309	39,785	11,681	51,802	6,041
2 California Inst of Tech	85,615	103,926	111,480	103,362	32,772	13,092	57,498	0
3 MA Institute of Tech	88,749	89,506	89,453	89,881	14,642	16,380	57,628	1,231
4 University of Colorado	30,826	35,611	64,056	64,575	39,049	12,242	12,725	559
5 U CA Berkeley	41,521	55,380	53,882	52,604	3,630	14,617	34,352	5
6 Stanford University	54,226	49,719	48,464	48,502	0	13,425	5,770	29,307
7 Cornell University	42,519	64,965	53,842	44,655	2,984	7,743	29,203	4,725
8 U TX at Austin	73,686	48,402	41,510	42,500	3,596	5,163	33,578	163
9 University of Arizona	43,855	53,756	50,078	40,321	29,292	7,336	3,693	0
10 Pennsylvania State U	14,039	23,617	27,124	36,777	13,005	10,201	13,571	0
Total, 1st 10 institutions	604,113	644,340	635,070	632,486	178,755	111,880	299,820	42,031
11 Columbia U in City of NY	21,098	20,581	25,462	33,143	4,241	7,306	2,018	19,578
12 U of MD at College Park	31,953	32,933	34,162	32,982	5,809	5,825	13,938	7,410
13 U of WI-Madison	28,330	28,915	31,742	32,878	2,656	7,301	17,960	4,961
14 Harvard University	26,770	29,956	29,920	31,346	3,202	14,166	12,225	1,753
15 U CA Los Angeles	24,211	27,925	29,115	31,178	0	11,339	19,839	0
16 U of IL Urbana-Champaign	31,570	32,938	33,653	30,747	3,922	12,239	14,586	0
17 Michigan State University	19,658	20,998	25,026	28,919	0	5,425	23,494	0
18 University of Chicago	26,486	32,554	31,905	27,664	13,751	5,643	8,270	0
19 University of Minnesota	14,874	14,357	18,442	26,233	1,614	6,476	18,143	0
20 U CA San Diego	28,576	27,724	25,391	25,428	4,494	8,742	10,310	1,882
Total, 1st 20 institutions	857,639	913,221	919,888	933,004	218,444	196,342	440,603	77,615
21 U of Pennsylvania	23,326	22,655	22,163	21,681	0	10,112	11,569	0
22 University of Michigan	17,171	17,108	18,693	20,839	726	8,722	10,959	432
23 U of Washington	16,608	19,299	20,168	20,482	1,650	6,437	12,395	0
24 Florida State University	25,596	22,962	21,881	19,716	0	3,873	15,597	246
25 U CA Santa Barbara	13,938	16,479	17,170	19,170	0	4,657	9,260	5,253
26 Princeton University	19,863	20,381	18,039	18,987	1,524	6,291	11,172	0
27 Yale University	15,267	16,174	15,835	17,867	892	5,854	11,121	0
28 Indiana University	17,336	17,701	17,177	17,231	199	6,212	10,820	0
29 SUNY at Stony Brook	16,404	16,514	16,751	16,748	967	4,446	11,335	0
30 Northwestern University	10,954	12,193	14,565	15,507	0	10,383	3,492	1,632
Total, 1st 30 institutions	1,034,102	1,094,687	1,102,330	1,121,232	224,402	263,329	548,323	85,178
31 University of Florida	10,061	13,638	12,162	14,446	1,436	7,228	5,767	15
32 U CA Davis	8,968	9,574	12,936	14,233	0	5,645	3,206	5,382
33 Ohio State University	11,209	11,827	12,728	13,936	1,036	6,734	6,166	0
34 U of NC Chapel Hill	8,181	12,453	13,796	13,755	0	10,150	3,605	0
35 Univ of Hawaii at Manoa	12,873	12,752	14,039	13,645	8,528	1,258	3,797	62
36 Rutgers the State U NJ	10,537	12,310	12,579	13,166	0	7,972	5,194	0
37 Purdue University	14,045	13,162	12,804	13,134	0	7,831	5,303	0
38 Boston University	10,550	11,472	12,004	12,961	987	2,374	4,535	5,065
39 University of Notre Dame	11,410	11,755	13,117	12,814	0	8,177	4,637	0
40 U of Iowa	11,749	11,564	12,384	12,700	1,001	2,427	9,272	0
Total, 1st 40 institutions	1,143,685	1,215,194	1,230,879	1,256,022	237,390	323,125	599,805	95,702
41 U CA Irvine	12,479	12,187	11,410	12,331	0	7,180	5,151	0
42 NC State University	8,565	6,258	9,498	12,176	0	5,427	6,411	338
43 U CA Santa Cruz	8,323	8,250	9,449	11,894	4,515	3,852	3,527	0
44 U Mississippi, All Camp	3,206	3,859	9,574	11,879	0	600	11,279	0
45 U of MA Amherst	13,750	9,026	10,292	11,495	4,009	5,467	2,019	0
46 University of Pittsburgh	8,348	9,009	10,273	11,341	835	6,812	3,694	0
47 University of Rochester	12,645	12,076	12,455	11,298	1,115	2,691	7,492	0
48 Texas A&M University	11,139	11,842	11,732	11,292	0	6,629	4,360	303
49 U CA San Francisco	0	0	9,033	11,198	0	11,198	0	0
50 Louisiana State U System	8,015	9,094	9,796	10,861	0	5,828	5,033	0
Total, 1st 50 institutions	1,230,155	1,296,795	1,334,391	1,371,787	247,864	378,809	648,771	96,343

See explanatory information and SOURCE at end of table.

Table B-51. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the physical sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Astronomy	Chemistry	Physics	Other
51 Duke University	12,906	14,936	11,171	10,799	0	2,619	8,180	0
52 University of Utah	9,158	12,515	10,264	10,502	0	7,483	3,019	0
53 Catholic U of America	3,865	7,042	5,737	10,453	0	941	2,833	6,679
54 Rice University	7,225	8,674	9,784	10,359	1,812	5,627	2,920	0
55 University of Virginia	10,171	10,575	10,236	9,901	1,427	5,328	3,146	0
56 Georgia Institute of Tech	9,631	8,362	8,759	9,894	0	4,236	5,557	101
57 Arizona State University	9,996	9,978	9,177	9,700	0	5,237	2,724	1,739
58 Washington University	6,770	7,644	7,848	9,644	0	3,826	5,818	0
59 Montana St U Bozeman	5,355	5,718	8,079	9,532	0	3,632	5,900	0
60 University of Delaware	6,868	7,113	7,945	9,118	0	4,023	1,625	3,470
Total, 1st 60 institutions	1,312,100	1,389,352	1,423,391	1,471,689	251,103	421,761	690,493	108,332
61 U of South Carolina	7,236	7,007	8,076	8,495	0	5,316	2,842	337
62 Kansas State University	5,819	6,181	6,605	8,358	0	1,856	6,502	0
63 Vanderbilt University	9,043	13,027	10,673	8,305	0	2,717	5,588	0
64 University of Oklahoma	6,079	6,383	8,894	7,654	0	6,025	1,629	0
65 U of Tennessee System	7,175	7,641	6,445	7,486	0	2,467	5,019	0
66 Wayne State University	4,376	4,399	5,114	7,453	0	4,053	3,400	0
67 Northeastern University	5,474	5,036	11,091	7,318	0	1,851	5,467	0
68 Carnegie Mellon U	5,728	5,804	6,276	7,251	0	2,341	4,910	0
69 U of Alabama Huntsville	4,940	6,235	5,626	7,157	0	3,665	3,492	0
70 U of Southern California	8,799	8,099	7,862	6,910	229	5,187	1,494	0
Total, 1st 70 institutions	1,376,769	1,459,164	1,500,053	1,548,076	251,332	457,239	730,836	108,669
71 Colorado State University	7,529	6,706	6,338	6,900	0	4,916	1,791	193
72 University of Oregon	6,034	6,503	6,075	6,766	0	3,256	3,510	0
73 Hampton University	4,603	5,159	3,547	6,609	0	185	6,424	0
74 U of Alaska Fairbanks	7,805 i	16,116	21,678	6,590	613	974	5,003	0
75 Temple University	1,046	1,264	4,072	6,384	0	786	5,598	0
76 Emory University	4,701	4,845	5,658	6,350	0	5,537	813	0
77 U of Nebraska at Lincoln	4,269 i	5,508	5,504	6,021	0	3,480	2,541	0
78 U of IL Chicago	4,840	4,801	5,412	5,972	0	2,793	3,179	0
79 Iowa State University	5,258	4,528	4,714	5,811	0	2,860	2,951	0
80 Boston College	3,420	4,708	5,424	5,725	0	4,331	1,394	0
Total, 1st 80 institutions	1,426,274	1,519,302	1,568,475	1,611,204	251,945	486,357	764,040	108,862
81 University of New Mexico	7,997	7,562	8,668	5,570	0	1,961	3,174	435
82 U of Central Florida	4,300	3,884	3,106	5,363	0	1,234	4,129	0
83 Case Western Reserve U	5,044	5,413	4,297	5,361	288	2,985	2,088	0
84 Georgetown University	3,364	4,372	3,980	5,324	0	4,515	809	0
85 University of Kentucky	3,422	3,319	5,029	5,307	0	3,249	2,058	0
86 New Mexico State Univ	3,395	3,838	3,556	5,255	893	2,732	1,565	65
87 Kent State University	5,274	5,414	4,643	5,160	0	713	1,306	3,141
88 Brown University	4,117	4,179	4,771	5,136	0	2,158	2,978	0
89 U CA Riverside	5,299	4,966	5,578	5,088	0	3,104	1,984	0
90 Colorado School of Mines	2,510	3,430	5,842	5,026	0	496	4,530	0
Total, 1st 90 institutions	1,470,996	1,565,679	1,617,945	1,663,794	253,126	509,504	788,661	112,503

See explanatory information and SOURCE at end of table.

Table B-51. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the physical sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Astronomy	Chemistry	Physics	Other
91 U of MD Baltimore County	5,711	2,066	3,227	4,990	0	3,012	1,978	0
92 CUNY City College	6,683	5,538	4,995	4,955	0	2,913	1,924	118
93 University of Houston	4,051	4,872	3,897	4,831	0	2,889	1,942	0
94 U of Maine	737	3,654	6,459	4,739	0	389	4,350	0
95 U of Arkansas Main	2,345	2,288	2,858	4,702	0	2,134	2,568	0
96 Washington State U	3,615	4,258	4,090	4,589	0	2,245	2,344	0
97 Syracuse University	5,954	5,249	4,925	4,548	0	1,929	2,619	0
98 Clemson University	1,805	1,648	1,906	4,363	0	1,835	2,528	0
99 U of Nevada Reno	1,752	3,774	4,659	4,344	35	755	2,935	619
100 NJ Inst of Technology	1,958	1,958	693	4,342	0	1,459	2,883	0
Total, 1st 100 institutions	1,505,607	1,600,984	1,655,654	1,710,197	253,161	529,064	814,732	113,240
Total, all other sampled institutions	255,508	259,331	255,613	261,313	6,576	131,224	110,844	12,669

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-52. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in chemistry: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	875,766	918,363	959,922	1,007,136	586,714	616,052	629,398	660,288
1 U CA Berkeley	20,638	21,071	21,471	21,339	14,637	14,195	15,774	14,617
2 U of IL Urbana-Champaign	18,038	19,426	17,667	20,091	11,436	11,621	10,294	12,239
3 MA Institute of Tech	11,050	17,050	18,756	18,063	9,201	15,244	16,690	16,380
4 Pennsylvania State U	16,075	15,962	16,075	18,042	8,852	9,727	9,797	10,201
5 Harvard University	11,185	14,112	16,957	17,446	10,639	13,890	14,788	14,166
6 Texas A&M University	9,560	17,576	15,385	17,206	5,211	5,571	6,986	6,629
7 Stanford University	12,306	11,835	12,947	15,752	10,658	9,778	10,973	13,425
8 California Inst of Tech	17,760	16,310	15,538	15,357	17,629	13,829	12,866	13,092
9 U CA Los Angeles	11,769	13,158	13,564	15,071	9,521	10,604	10,432	11,339
10 Indiana University	7,982	8,202	10,812	14,316	6,047	5,733	5,988	6,212
Total, 1st 10 institutions	136,363	154,702	159,172	172,683	103,831	110,192	114,588	118,300
11 University of Colorado	12,948	11,889	12,251	14,229	10,446	9,618	10,281	12,242
12 U CA San Francisco	0	0	12,332	13,845	0	0	9,033	11,198
13 Northwestern University	9,843	10,471	11,373	13,733	7,096	8,126	8,865	10,383
14 Rutgers the State U NJ	9,622	11,543	12,351	13,190	6,790	7,673	8,071	7,972
15 U of WI-Madison	12,011	13,196	14,758	12,935	7,695	8,287	8,094	7,301
16 U of NC Chapel Hill	8,368	8,583	10,080	12,652	5,905	6,159	7,556	10,150
17 Arizona State University	9,583	8,782	8,979	12,416	4,287	4,035	4,304	5,237
18 Purdue University	12,548	12,021	11,260	12,194	8,212	7,523	6,958	7,831
19 Ohio State University	9,679	8,110	13,141	12,174	5,069	4,629	5,529	6,734
20 Johns Hopkins U	18,541	18,297	12,616	12,124	18,280	17,961	12,217	11,681
Total, 1st 20 institutions	239,506	257,594	278,313	302,175	177,611	184,203	195,496	209,029
21 U TX at Austin	11,397	11,159	10,142	11,640	7,123	6,547	5,749	5,163
22 Florida State University	7,890	9,395	11,631	11,635	3,304	4,536	4,229	3,873
23 University of Florida	11,675	11,034	10,070	11,460	5,309	7,682	6,088	7,228
24 Princeton University	8,973	9,477	9,850	11,314	5,727	6,092	6,068	6,291
25 NC State University	4,507	4,372	7,813	11,143	2,288	1,998	4,016	5,427
26 U CA San Diego	10,297	10,725	9,831	11,131	7,802	8,710	7,251	8,742
27 U of Pennsylvania	11,669	10,994	12,886	11,110	11,283	10,624	11,992	10,112
28 Cornell University	12,031	14,132	14,002	11,013	8,682	9,633	9,103	7,743
29 University of Michigan	7,820	7,744	9,009	10,957	6,230	5,862	7,317	8,722
30 University of Oklahoma	9,922	10,225	12,512	10,574	4,656	4,817	7,377	6,025
Total, 1st 30 institutions	335,687	356,851	386,059	414,152	240,015	250,704	264,686	278,355
31 U of MA Amherst	11,131	10,269	11,267	10,509	6,240	4,921	5,667	5,467
32 Michigan State University	5,507	6,106	8,247	10,488	3,641	3,969	4,486	5,425
33 University of Utah	7,398	9,359	8,420	10,086	6,122	8,668	7,172	7,483
34 University of Arizona	6,588	8,524	9,699	9,908	4,882	6,396	7,265	7,336
35 U CA Irvine	8,425	10,036	9,683	9,863	6,335	7,289	6,979	7,180
36 U of Washington	7,097	8,100	9,167	9,597	4,978	5,578	6,493	6,437
37 University of Chicago	8,189	9,484	8,676	9,403	6,671	8,349	6,519	5,643
38 U of South Carolina	7,357	7,727	9,321	9,228	4,679	4,849	5,826	5,316
39 Georgia Institute of Tech	10,869	8,919	9,962	9,027	4,765	3,817	4,127	4,236
40 University of Notre Dame	8,658	9,006	10,010	8,960	7,740	7,998	8,826	8,177
Total, 1st 40 institutions	416,906	444,381	480,511	511,221	296,068	312,538	328,046	341,055
41 University of Minnesota	7,574	7,241	8,472	8,860	6,446	5,799	6,122	6,476
42 Louisiana State U System	5,752	8,350	8,543	8,632	3,297	5,085	5,254	5,828
43 University of Akron	8,326	6,775	8,214	8,108	1,497	2,487	2,507	3,179
44 Emory University	5,230	5,535	7,155	8,037	4,181	4,162	4,917	5,537
45 U of Southern California	7,900	7,545	7,551	8,010	6,089	5,758	5,762	5,187
46 Columbia U in City of NY	8,753	7,377	7,072	7,983	7,849	6,899	6,747	7,306
47 University of Pittsburgh	6,097	6,435	7,459	7,943	4,765	5,270	6,436	6,812
48 Rice University	4,518	5,516	6,605	7,390	3,094	3,892	4,856	5,627
49 U of MD at College Park	6,635	8,330	6,197	7,242	4,269	4,580	5,060	5,825
50 University of Georgia	6,118	6,266	6,560	6,977	1,839	1,691	1,736	2,087
Total, 1st 50 institutions	483,809	513,751	554,339	590,403	339,394	358,161	377,443	394,919

See explanatory information and SOURCE at end of table.

Table B-52. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in chemistry: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 Wayne State University	5,330	5,841	5,760	6,874	3,116	3,489	3,984	4,053
52 U CA Davis	4,562	5,010	5,972	6,771	3,480	4,196	4,752	5,645
53 Yale University	6,997	7,329	6,888	6,751	5,921	5,914	5,369	5,854
54 SUNY at Stony Brook	6,533	7,240	6,774	6,730	4,320	4,892	4,773	4,446
55 U CA Santa Barbara	5,620	6,997	7,056	6,656	4,175	5,364	4,946	4,657
56 University of Virginia	5,847	6,715	7,697	6,583	4,918	5,774	5,892	5,328
57 VA Polytech Inst & St U	7,037	6,257	7,724	6,461	3,482	3,271	3,435	2,621
58 University of Houston	5,008	5,891	5,411	6,074	2,537	3,077	2,437	2,889
59 University of Delaware	4,243	4,711	5,418	6,043	2,877	2,735	3,576	4,023
60 Colorado State University	7,753	6,401	5,666	5,917	5,650	5,072	4,230	4,916
Total, 1st 60 institutions	542,739	576,143	618,705	655,263	379,870	401,945	420,837	439,351
61 Boston College	3,942	5,549	5,230	5,843	3,087	4,120	3,914	4,331
62 U CA Santa Cruz	4,448	4,793	5,610	5,838	2,774	3,133	3,557	3,852
63 SUNY at Buffalo	7,426	7,347	6,852	5,711	4,110	4,045	3,403	2,194
64 Iowa State University	6,003	5,023	5,139	5,503	3,107	2,158	2,272	2,860
65 U of Nebraska at Lincoln	3,308 i	6,005	6,062	5,475	2,492 i	3,387	3,397	3,480
66 U of Alabama Huntsville	1,717	1,708	1,837	5,413	1,376	1,015	1,023	3,665
67 Virginia Commonwealth U	2,799	3,604	5,338	5,269	1,395	1,928	2,936	3,466
68 Washington University	4,321	5,323	4,975	5,035	3,376	3,921	3,643	3,826
69 Georgetown University	4,868	5,176e	4,569	4,870	3,170	4,137	3,634	4,515
70 U CA Riverside	3,495	4,028	4,422	4,859	2,861	2,810	3,053	3,104
Total, 1st 70 institutions	585,066	624,699	668,739	709,079	407,618	432,599	451,669	474,644
71 U Southern Mississippi	4,315	3,902	3,960	4,741	3,245	2,667	2,861	3,447
72 Mississippi State U	2,575	2,289	4,643	4,550	1,589	1,238	1,179	1,411
73 Montana St U Bozeman	2,961	3,180	4,331	4,542	2,596	2,507	2,869	3,632
74 Duke University	4,485	3,851	4,210	4,417	2,767	2,187	2,403	2,619
75 Brown University	3,450	3,638	4,140	4,330	1,793	1,909	2,290	2,158
76 U of Missouri Rolla	3,061	4,126	3,298	4,274	908	1,312	1,514	1,988
77 Texas Tech University	3,877	4,483	3,208	4,150	1,029	1,781	732	1,129
78 University of Kentucky	2,614	2,760	4,787	4,121	1,662	1,574	3,159	3,249
79 CUNY Hunter College	2,956	3,469	3,344	4,101	1,823	2,164	2,267	2,682
80 U of IL Chicago	3,244	3,770	4,075	4,023	2,158	2,064	2,765	2,793
Total, 1st 80 institutions	618,604	660,167	708,735	752,328	427,188	452,002	473,708	499,752
81 University of Oregon	2,923	3,071	3,265	3,969	2,432	2,566	2,614	3,256
82 Clemson University	2,865	3,294	3,777	3,933	896	897	1,029	1,835
83 Oregon State University	4,996	4,860	4,812	3,895	4,110	4,206	3,919	3,213
84 U of Iowa	3,421	3,505	3,560	3,820	2,125	2,361	2,232	2,427
85 Southwest Texas St Univ	939	1,548	2,475	3,786	383	753	2,097	2,579
86 U of Central Florida	522	1,416	4,146	3,714	347	736	824	1,234
87 University of Connecticut	2,145	2,155	3,689	3,666	794	1,044	1,836	1,696
88 OGI Schl Sci & Eng OHSU	3,020e	3,517	3,414	3,508	2,697e	3,214	3,170	3,205
89 Case Western Reserve U	5,307	4,379	4,494	3,489	3,095	3,661	2,700	2,985
90 U of Missouri Columbia	2,670	3,083	3,133	3,356	1,181	1,448	1,228	1,426
Total, 1st 90 institutions	647,412	690,995	745,500	789,464	445,248	472,888	495,357	523,608

See explanatory information and SOURCE at end of table.

Table B-52. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in chemistry: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 Jackson State University	830	2,736	3,127	3,329	713	2,458	2,790	2,951
92 U of MD Baltimore County	2,855	1,979	2,237	3,280	1,917	1,307	1,954	3,012
93 U of Arkansas Main	2,527	2,117	2,517	3,273	1,150	1,299	1,536	2,134
94 University of Rochester	6,734	5,405	4,097	3,246	6,120	4,901	3,493	2,691
95 Vanderbilt University	3,068	2,873	3,227	3,171	2,506	2,499	2,910	2,717
96 Brigham Young University	2,103	2,588	2,840	3,152	1,872	1,871	1,893	2,045
97 University of Kansas	7,177	8,800	7,134	3,099	3,805	4,335	4,725	1,142
98 CUNY City College	4,336	2,696	2,512	3,053	3,862	2,539	2,327	2,913
99 Washington State U	2,154	2,660	2,466	3,048	1,713	2,209	2,013	2,245
100 U of Tennessee System	3,963	4,333	3,660	3,044	2,433	2,764	2,137	2,467
Total, 1st 100 institutions	683,159	727,182	779,317	821,159	471,339	499,070	521,135	547,925
Total, all other sampled institutions	192,607	191,181	180,605	185,977	115,375	116,982	108,263	112,363

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-53. Total and federally financed R&D expenditures in physics at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in physics: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	1,078,243	1,148,698	1,205,548	1,236,502	817,765	867,162	899,995	925,576
1 California Inst of Tech	57,992	45,343	61,073	58,873	57,790	44,186	57,536	57,498
2 MA Institute of Tech	83,416	55,054	56,131	58,449	75,875	54,205	55,491	57,628
3 Johns Hopkins U	74,433	65,247	50,215	52,412	73,601	64,556	49,549	51,802
4 U CA Berkeley	37,263	53,113	49,397	48,272	23,724	37,628	34,223	34,352
5 U TX at Austin	15,293	44,967	36,507	37,520	12,278	37,271	31,781	33,578
6 Michigan State University	24,636	25,606	31,541	34,944	16,017	17,029	20,540	23,494
7 Cornell University	35,255	38,721	37,188	34,050	30,184	33,610	30,174	29,203
8 U CA Los Angeles	20,943	25,023	27,683	32,337	13,465	16,193	17,389	19,839
9 Florida State University	10,348	31,861	31,797	30,696	4,174	18,284	17,463	15,597
10 University of Minnesota	7,054	7,625	13,407	24,214	5,948	6,493	10,068	18,143
Total, 1st 10 institutions	366,633	392,560	394,939	411,767	313,056	329,455	324,214	341,134
11 U of WI-Madison	16,192	18,187	21,817	22,952	13,343	14,600	16,927	17,960
12 Pennsylvania State U	5,532	15,964	18,668	21,380	2,962	11,165	13,234	13,571
13 U of IL Urbana-Champaign	21,928	23,569	24,871	21,004	16,908	17,628	19,253	14,586
14 Indiana University	12,613	17,050	18,017	19,987	10,922	11,674	10,922	10,820
15 U of MD at College Park	27,699	26,869	24,791	18,202	17,999	16,990	16,989	13,938
16 SUNY at Stony Brook	16,078	15,406	16,515	17,331	10,826	10,555	10,844	11,335
17 U of Washington	11,303	13,549	15,090	16,869	9,859	11,497	12,365	12,395
18 University of Colorado	9,983	10,396	17,121	14,088	8,487	8,855	15,265	12,725
19 NC State University	10,861	11,387	11,036	14,006	6,277	4,260	5,481	6,411
20 Princeton University	15,542	14,923	13,369	14,002	12,188	12,566	10,546	11,172
Total, 1st 20 institutions	514,364	559,860	576,234	591,588	422,827	449,245	456,040	466,047
21 Rutgers the State U NJ	10,639	11,089	11,417	13,677	3,747	4,637	4,508	5,194
22 U CA San Diego	16,504	14,206	13,057	13,566	13,073	10,920	9,776	10,310
23 U of Central Florida	9,273	9,554	9,510	13,040	3,953	3,148	2,282	4,129
24 University of Michigan	13,187	11,706	11,496	13,013	9,695	10,093	10,070	10,959
25 Harvard University	8,957	10,456	10,173	12,745	8,883	10,314	9,823	12,225
26 U Mississippi, All Camp	3,254	3,896	9,505	12,706	2,635	3,477	9,025	11,279
27 U of Pennsylvania	12,877	13,781	11,894	12,585	12,043	12,031	10,171	11,569
28 Yale University	9,619	10,474	10,994	12,335	8,910	9,736	9,936	11,121
29 U CA Santa Barbara	12,448	14,060	16,394	12,191	9,763	11,115	12,215	9,260
30 Georgia Institute of Tech	11,097	10,620	11,179	11,843	4,865	4,545	4,632	5,557
Total, 1st 30 institutions	622,219	669,702	691,853	719,289	500,394	529,261	538,478	557,650
31 U of Alaska Fairbanks	7,599 i	16,548 i	19,096	11,804	4,922 i	10,163 i	13,670	5,003
32 U of Iowa	10,488	10,135	11,282	10,259	8,662	8,282	9,137	9,272
33 Ohio State University	8,725	9,932	9,549	10,086	5,188	6,237	6,032	6,166
34 University of Florida	8,025	8,275	7,652	9,209	3,904	4,801	4,673	5,767
35 Duke University	10,702	13,210	9,078	8,960	10,139	12,749	8,768	8,180
36 University of Chicago	8,112	8,940	10,447	8,821	7,567	8,352	9,875	8,270
37 U CA Santa Cruz	5,511	5,326	5,226	8,501	4,034	3,235	3,458	3,527
38 University of Rochester	5,259	6,723	7,820	8,395	4,774	6,289	7,474	7,492
39 Purdue University	9,582	8,986	8,835	8,267	5,833	5,639	5,846	5,303
40 Louisiana State U System	7,155	6,982	8,929	8,237	4,718	4,009	4,542	5,033
Total, 1st 40 institutions	703,377	764,759	789,767	811,828	560,135	599,017	611,953	621,663
41 Washington University	4,621	5,134	5,560	7,905	3,394	3,723	4,205	5,818
42 U CA Irvine	9,068	7,240	6,800	7,830	6,144	4,898	4,431	5,151
43 Wayne State University	5,447	5,349	5,923	7,642	1,260	910	1,130	3,400
44 Kansas State University	5,394	5,395	5,717	7,396	4,478	4,311	4,953	6,502
45 Texas A&M University	6,963	8,683	7,568	7,363	3,862	5,301	4,255	4,360
46 SUNY at Albany	4,903	6,697	8,940	7,289	1,631	1,285	653	260
47 Montana St U Bozeman	3,721	4,099	6,381	7,257	2,759	3,211	5,210	5,900
48 Hampton University	4,502	5,313	3,637	7,115	4,163	5,009	3,358	6,424
49 Northeastern University	3,516	4,156	9,463	7,019	3,339	3,149	8,685	5,467
50 Vanderbilt University	7,657	11,825	9,638	6,732	6,537	10,528	7,763	5,588
Total, 1st 50 institutions	759,169	828,650	859,394	885,376	597,702	641,342	656,596	670,533

See explanatory information and SOURCE at end of table.

Table B-53. Total and federally financed R&D expenditures in physics at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in physics: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 U of Tennessee System	7,623	8,071	7,273	6,535	4,742	4,877	4,308	5,019
52 Stanford University	4,060	4,777	5,007	6,103	3,836	4,546	4,698	5,770
53 Temple University	807	1,112	3,702	6,012	632	650	3,219	5,598
54 Carnegie Mellon U	4,879	4,871	5,041	5,646	3,696	3,725	4,342	4,910
55 Northwestern University	4,535	4,247	5,061	5,218	3,568	3,404	3,577	3,492
56 Brown University	4,555	4,389	4,666	5,216	2,324	2,270	2,481	2,978
57 U of IL Chicago	5,353	4,547	4,111	5,084	2,682	2,737	2,647	3,179
58 Iowa State University	3,596	4,082	4,093	5,033	2,151	2,370	2,442	2,951
59 University of Notre Dame	4,500	4,354	5,242	4,986	3,670	3,757	4,291	4,637
60 Colorado School of Mines	2,520	3,348	5,265	4,918	2,069	2,979	4,946	4,530
Total, 1st 60 institutions	801,597	872,448	908,855	940,127	627,072	672,657	693,547	713,597
61 U CA Davis	4,829	4,892	4,772	4,872	3,548	3,180	3,133	3,206
62 U of Maine	1,364	3,932	7,886	4,855	542	3,367	6,230	4,350
63 Boston University	4,440	4,034	4,417	4,629	4,033	3,882	4,374	4,535
64 University of Arizona	4,371	4,280	5,368	4,619	3,288	3,233	4,364	3,693
65 U of NC Chapel Hill	3,382	7,268	7,500	4,509	2,276	6,294	6,240	3,605
66 U of South Carolina	4,298	4,351	3,600	4,508	2,557	2,158	2,250	2,842
67 U of Nebraska at Lincoln	2,159 i	4,458	4,826	4,490	1,777 i	2,121	2,107	2,541
68 NJ Inst of Technology	1,196	1,196	1,382	4,483	708	708	693	2,883
69 U TX MD Anderson Cncr Ctr	3,445	3,678	3,707	4,409	2,583	2,542	2,670	3,172
70 U of Alabama Huntsville	4,730	6,916	6,348	4,356	3,564	5,220	4,603	3,492
Total, 1st 70 institutions	835,811	917,453	958,661	985,857	651,948	705,362	730,211	747,916
71 University of Utah	3,707	4,624	4,051	4,319	3,036	3,847	3,092	3,019
72 University of Pittsburgh	3,141	3,584	3,929	4,310	2,801	3,109	3,326	3,694
73 U of MA Amherst	11,238	7,243	8,238	4,295	7,510	4,105	4,612	2,019
74 Arizona State University	4,498	4,579	3,893	4,258	3,370	3,341	2,802	2,724
75 Clemson University	2,904	2,755	3,219	4,114	909	751	877	2,528
76 Univ of Hawaii at Manoa	2,002	2,179	2,592	4,044	1,722	1,999	2,353	3,797
77 University of Oregon	4,402	4,657	4,002	3,942	3,602	3,937	3,461	3,510
78 University of Georgia	3,943	3,600	3,508	3,893	1,155	1,095	1,281	1,290
79 U of Arkansas Main	2,456	1,838	3,043	3,729	1,195	989	1,322	2,568
80 University of Kentucky	2,772	2,863	3,281	3,588	1,760	1,745	1,870	2,058
Total, 1st 80 institutions	876,874	955,375	998,417	1,026,349	679,008	730,280	755,207	775,123
81 U of MA Lowell	3,106	3,313	3,194	3,556	2,609	2,628	2,514	2,863
82 University of Connecticut	2,108	2,516	3,408	3,508	1,236	1,584	1,756	1,957
83 University of New Mexico	7,409	5,448	8,172	3,492	5,840	5,085	6,459	3,174
84 Oklahoma State University	3,765	4,375	3,642	3,475	1,798	1,344	1,088	1,056
85 University of Virginia	4,627	4,256	3,515	3,407	4,235	3,913	3,262	3,146
86 SUNY at Buffalo	2,953	2,395	2,407	3,342	937	955	724	1,915
87 University of Houston	2,762	3,211	2,822	3,331	1,514	1,795	1,460	1,942
88 Rice University	2,604	2,767	2,890	3,312	2,408	2,450	2,559	2,920
89 Clark Atlanta University	2,800	1,716 i	3,473	3,290	2,425	1,220 i	3,471	3,239
90 West Virginia University	1,855	2,413	3,032	3,206	1,253	1,704	1,828	1,949
Total, 1st 90 institutions	910,863	987,785	1,034,972	1,060,268	703,263	752,958	780,328	799,284

See explanatory information and SOURCE at end of table.

Table B-53. Total and federally financed R&D expenditures in physics at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in physics: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 Ohio University	2,908	2,999	3,081	3,151	2,148	2,202	2,151	2,285
92 University of Oklahoma	2,479	2,733	3,037	3,116	1,423	1,566	1,517	1,629
93 Catholic U of America	1,934	2,248	1,377	3,053	1,929	2,093	1,347	2,833
94 Brandeis University	1,664	1,746	2,156	2,968	1,482	1,302	1,537	2,197
95 U of Nevada Reno	474	2,486	2,908	2,952	419	2,398	2,908	2,935
96 Col of William & Mary	2,429	2,733	2,860	2,872	2,122	2,392	2,479	2,461
97 Northern Illinois U	1,658	2,079	2,313	2,749	819	1,245	1,171	1,158
98 CUNY City College	3,937	3,657	3,377	2,707	2,821	2,955	2,627	1,924
99 Syracuse University	3,882	4,123	2,721	2,703	3,870	3,125	2,648	2,619
100 Fisk University	2,323	2,639	3,289	2,702	2,323	2,342	2,652	2,559
Total, 1st 100 institutions	934,551	1,015,228	1,062,091	1,089,241	722,619	774,578	801,365	821,884
Total, all other sampled institutions	143,692	133,470	143,457	147,261	95,146	92,584	98,630	103,692

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-54. R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the environmental sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Atmos-pheric	Earth sciences	Ocean-ography	Other
Total, all institutions	1,623,631	1,690,751	1,763,341	1,826,827	300,408	552,539	674,406	299,474
1 U CA San Diego	100,882	107,958	115,186	119,096	14,272	0	103,595	1,229
2 Texas A&M University	69,912	69,296	85,330	80,789	4,103	4,184	61,520	10,982
3 U of Washington	61,755	60,382	64,112	73,448	16,955	7,692	48,801	0
4 Woods Hole Oceanogr Inst	62,995	58,723	64,910	71,849	5,207 i	23,720 i	18,719 i	24,203 i
5 University of Colorado	74,325	71,479	62,770	51,590	15,537	35,164	714	175
6 Univ of Hawaii at Manoa	48,594	52,019	51,453	47,185	3,106	12,101	23,746	8,232
7 Columbia U in City of NY	43,154	44,003	49,198	46,375	4,698	550	38,255	2,872
8 U of New Hampshire	25,772	27,107	36,418	40,098	10,036	3,119	15,133	11,810
9 U MD Ctr for Environ Sci	24,038	26,816	31,605	36,635	0	4,275	32,360	0
10 Johns Hopkins U	43,528	44,700	37,558	36,577	7,640 i	2,138 i	12,257 i	14,542 i
Total, 1st 10 institutions	554,955	562,483	598,540	603,642	81,554	92,943	355,100	74,045
11 Oregon State University	30,233	31,385	33,940	36,295	1,489	2,051	25,165	7,590
12 U of IL Urbana-Champaign	25,265	28,452	28,497	33,855	2,666	29,166	0	2,023
13 Louisiana State U System	22,684	27,441	31,665	32,636	0	6,290	20,089	6,257
14 University of Miami	31,067	28,452	28,353	30,957	18,904	17	10,178	1,858
15 U CA Davis	6,547	6,981	9,958	30,580	0	1,671	5,789	23,120
16 U of Alaska Fairbanks	33,814 i	18,756	21,644	30,488	12,097	8,793	8,581	1,017
17 University of Oklahoma	23,374	27,018	29,158	29,571	21,790	7,781	0	0
18 U of WI-Madison	24,864	25,695	28,001	29,040	16,355	4,577	3,257	4,851
19 Col of William & Mary	18,538	23,707	23,938	24,956	0	226	24,730	0
20 U TX at Austin	19,477	20,980	24,134	24,932	0	19,684	4,836	412
Total, 1st 20 institutions	790,818	801,350	857,828	906,952	154,855	173,199	457,725	121,173
21 U of Rhode Island	19,105	22,602	23,212	24,245	0	182	24,043	20
22 U CA Santa Barbara	16,853	24,007	28,009	22,963	0	3,000	18,350	1,613
23 Desert Research Institute	14,400	17,043	19,513	22,765	14,497	8,268	0	0
24 Pennsylvania State U	23,552	26,740	20,396	22,550	7,599	13,383	437	1,131
25 MA Institute of Tech	15,900	23,494	22,009	21,390	9,075	8,049	3,601	665
26 Rutgers the State U NJ	14,668	17,959	20,936	20,511	117	754	8,916	10,724
27 U of Maine	10,269	11,974	15,214	19,969	13	8,474	11,482	0
28 U of South Florida	14,243	17,526	19,197	18,752	0	1,277	17,470	5
29 SUNY at Stony Brook	16,566	19,413	17,379	17,199	1,599	5,280	10,320	0
30 Georgia Institute of Tech	14,505	13,224	23,382	16,924	803	12,881	0	3,240
Total, 1st 30 institutions	950,879	995,332	1,067,075	1,114,220	188,558	234,747	552,344	138,571
31 U of South Carolina	13,496	17,812	15,868	16,449	0	7,917	4,324	4,208
32 NC State University	16,743	17,945	15,699	16,099	0	0	7,799	8,300
33 VA Polytech Inst & St U	29,232	21,462	16,786	15,734	0	3,093	0	12,641
34 Colorado State University	14,656	14,773	14,402	15,671	14,277	1,394	0	0
35 Florida State University	15,775	13,871	14,303	14,893	6,693	3,891	4,173	136
36 U CA Los Angeles	8,060	9,960	14,893	14,774	4,463	3,315	0	6,996
37 University of Georgia	11,229	12,694	13,994	14,687	0	5,392	9,295	0
38 U of Southern California	14,202	12,095	14,394	14,440	0	10,280	3,830	330
39 Harvard University	13,271	14,089	13,868	13,765	161	1,070	0	12,534
40 University of Minnesota	10,824	12,986	12,762	13,528	0	6,856	1,737	4,935
Total, 1st 40 institutions	1,098,367	1,143,019	1,214,044	1,264,260	214,152	277,955	583,502	188,651
41 Princeton University	8,816	10,630	12,946	13,293	2,749	7,111	0	3,433
42 U CA Santa Cruz	11,390	12,880	13,839	13,048	0	3,760	8,225	1,063
43 U of NC Chapel Hill	10,127	11,271	11,382	12,615	0	7,587	5,028	0
44 U of Nevada Las Vegas	6,331	7,862	10,579	11,713	0	930	0	10,783
45 Texas Tech University	1,046	2,565	7,842	11,425	0	2,734	0	8,691
46 University of Kansas	9,463	9,858	10,919	10,900	0	10,900	0	0
47 California Inst of Tech	18,285	14,611	13,846	10,771	0	10,771	0	0
48 University of Arizona	10,067	11,071	10,343	10,549	3,704	6,845	0	0
49 U of MD Baltimore County	0	5,442	5,373	10,412	10,412	0	0	0
50 Naval Postgrad School	8,218 i	8,218 i	9,038 i	9,854 i	5,804 i	0 i	4,050 i	0 i
Total, 1st 50 institutions	1,182,110	1,237,427	1,320,151	1,378,840	236,821	328,593	600,805	212,621

See explanatory information and SOURCE at end of table.

Table B-54. R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the environmental sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Atmos-pheric	Earth sciences	Ocean-ography	Other
51 Arizona State University	5,154	16,451	11,532	9,798	0	9,798	0	0
52 U of MD at College Park	8,331	6,828	6,402	9,464	5,117	4,341	6	0
53 U of Central Florida	8,353	9,068	8,250	9,416	9,416	0	0	0
54 University of Connecticut	9,224	7,486	8,259	9,127	0	539	8,588	0
55 Ohio State University	9,481	8,355	7,512	8,746	0	3,332	0	5,414
56 Utah State University	11,134	11,712	8,453	8,522	1,865	6,657	0	0
57 Duke University	7,554	7,629	7,556	8,406	0	1,761	2,522	4,123
58 U of Nebraska at Lincoln	11,863 i	11,314	12,710	8,347	1,582	6,765	0	0
59 Stanford University	8,025	8,260	8,111	8,270	0	8,270	0	0
60 University of Delaware	8,180	9,288	9,960	8,252	0	896	7,356	0
Total, 1st 60 institutions	1,269,409	1,333,818	1,408,896	1,467,188	254,801	370,952	619,277	222,158
61 U MD Biotechnology Inst	7,917	7,747	7,442	8,066	0	0	8,066	0
62 San Jose State University	9,427e	9,427e	9,427e	7,968	1,403	212	6,158	195
63 George Mason University	59	52	5,059	7,399	0	7,399	0	0
64 NM Inst Mining & Tech	4,868	6,741	6,535	7,361	0	5,491	0	1,870
65 SUNY at Albany	6,152	6,443	6,379	7,226	7,226	0	0	0
66 U of Tennessee System	11,609	10,882	9,330	6,736	0	1,416	0	5,320
67 U CA Berkeley	5,755	7,244	7,132	6,513	9	6,504	0	0
68 University of Wyoming	10,387	6,542	7,968	6,483	2,519	3,964	0	0
69 U of Nevada Reno	4,476	6,747	6,552	6,464	64	4,731	0	1,669
70 Florida International U	450	4,072	6,372	6,412	0	6,412	0	0
Total, 1st 70 institutions	1,330,509	1,399,715	1,481,092	1,537,816	266,022	407,081	633,501	231,212
71 Mississippi State U	4,060	3,199	3,540	6,298	0	293	0	6,005
72 University of Florida	6,709	5,070	3,830	5,878	0	2,866	3,012	0
73 U of Alabama Huntsville	5,177	5,287	5,241	5,772	5,772	0	0	0
74 U Southern Mississippi	2,535	6,876	6,238	5,703	0	261	5,403	39
75 Brown University	5,372	5,535	5,370	5,499	0	5,213	0	286
76 U TX at El Paso	1,832	6,703	4,423	5,467	0	5,467	0	0
77 University of Michigan	24,737	6,292	6,307	5,378	0	4,177	1,201	0
78 University of Virginia	4,771	5,590	5,589	5,189	5,189	0	0	0
79 University of Utah	4,057	3,756	4,040	4,989	2,356	2,633	0	0
80 Washington University	3,420	4,385	4,374	4,615	0	4,615	0	0
Total, 1st 80 institutions	1,393,179	1,452,408	1,530,044	1,592,604	279,339	432,606	643,117	237,542
81 U of MA Amherst	7,143	7,587	3,887	4,537	0	2,712	227	1,598
82 U PR Mayaguez Campus	4,601	4,421	3,642	4,534	0	972	3,562	0
83 West Virginia University	2,348	3,335	5,671	4,530	0	953	0	3,577
84 University of Chicago	7,742	5,966	5,663	4,526	0	4,470	0	56
85 U of NC Wilmington	5,469	5,098	5,070	4,503	0	209	4,294	0
86 Iowa State University	1,737	3,343	3,803	4,370	0	4,370	0	0
87 University of Idaho	5,112	3,932	4,656	4,284	0	2,994	0	1,290
88 Purdue University	3,614	4,272	4,096	4,011	1,427	714	0	1,870
89 U CA Irvine	2,249	3,023	3,373	3,982	0	0	0	3,982
90 Tarleton State University	3,659	3,559	3,717	3,945	0	3,945	0	0
Total, 1st 90 institutions	1,436,853	1,496,944	1,573,622	1,635,826	280,766	453,945	651,200	249,915

See explanatory information and SOURCE at end of table.

Table B-54. R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the environmental sciences: fiscal years 1998-2001 and by subfield for 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Atmos-pheric	Earth sciences	Ocean-ography	Other
91 Indiana University	1,762	6,428	3,070	3,927	0	3,927	0	0
92 New Mexico State Univ	5,053	3,421	2,940	3,913	2,517	527	0	869
93 U CA Riverside	9,394	8,968	11,115	3,849	0	2,211	0	1,638
94 Cornell University	4,101	4,170	4,221	3,790	0	2,238	0	1,552
95 Univ of Memphis, The	2,916	3,416	4,095	3,753	0	3,728	0	25
96 U of WI-Milwaukee	3,325	3,638	3,675	3,699	0	315	3,322	62
97 Old Dominion University	5,380	6,199	5,788	3,692	0	1	3,691	0
98 Jackson State University	757	0	1,972	3,523	106	3,217	200	0
99 U of MA Dartmouth	809	1,288	2,227	3,466	0	0	3,466	0
100 OGI Schl Sci & Eng OHSU	4,964e	3,759	3,582	3,388	715	0	0	2,673
Total, 1st 100 institutions	1,475,314	1,538,231	1,616,307	1,672,826	284,104	470,109	661,879	256,734
Total, all other sampled institutions	148,317	152,520	147,034	154,001	16,304	82,430	12,527	42,740

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-55. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the environmental sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Atmos-pheric	Earth sciences	Ocean-ography	Other
Total, all institutions	1,075,792	1,100,977	1,131,877	1,182,649	232,110	328,107	447,931	174,501
1 U CA San Diego	60,437	65,829	72,813	71,006	11,624	0	58,501	881
2 U of Washington	58,248	55,954	58,356	66,244	15,623	6,469	44,152	0
3 Woods Hole Oceanogr Inst	55,669	50,237	54,235	60,302	4,101 i	21,121 i	15,317 i	19,763 i
4 Texas A&M University	52,659	53,624	61,397	55,728	2,361	1,019	48,916	3,432
5 University of Colorado	62,358	61,055	56,172	47,056	14,323	31,912	659	162
6 Columbia U in City of NY	40,462	40,712	46,838	44,889	4,354	368	37,364	2,803
7 Johns Hopkins U	42,063	42,057	35,596	34,923	7,640 i	1,941 i	12,220 i	13,122 i
8 Univ of Hawaii at Manoa	33,624	32,859	30,503	30,569	2,623	7,166	16,821	3,959
9 Oregon State University	25,699	26,936	28,487	30,081	1,412	1,346	22,408	4,915
10 University of Miami	27,452	25,455	25,388	27,240	16,490	17	9,217	1,516
Total, 1st 10 institutions	458,671	454,718	469,785	468,038	80,551	71,359	265,575	50,553
11 U of Alaska Fairbanks	17,767 i	8,091	10,884	27,109	11,700	8,116	7,266	27
12 U of New Hampshire	15,315	18,008	24,122	25,935	4,857	2,521	10,653	7,904
13 U of Rhode Island	18,314	20,105	20,311	22,999	0	104	22,875	20
14 U of WI-Madison	17,243	16,406	17,784	21,731	16,355	1,877	625	2,874
15 MA Institute of Tech	14,147	20,150	20,410	18,652	8,085	6,523	3,543	501
16 Desert Research Institute	9,300	11,720	14,685	16,435	9,532	6,903	0	0
17 University of Oklahoma	11,419	13,541	14,805	13,597	12,086	1,511	0	0
18 U CA Santa Barbara	11,478	16,140	17,649	13,227	0	1,270	10,587	1,370
19 Colorado State University	10,630	11,630	12,451	13,143	11,989	1,154	0	0
20 U CA Davis	1,995	1,809	2,265	12,924	0	1,050	1,308	10,566
Total, 1st 20 institutions	586,279	592,318	625,151	653,790	155,155	102,388	322,432	73,815
21 VA Polytech Inst & St U	27,820	20,094	14,804	12,693	0	673	0	12,020
22 Harvard University	12,839	13,424	12,362	12,415	161	993	0	11,261
23 U MD Ctr for Environ Sci	7,440	8,116	10,805	12,105	0	758	11,347	0
24 U of IL Urbana-Champaign	9,168	10,463	10,468	11,765	2,056	8,928	0	781
25 U of South Florida	10,314	11,034	11,782	11,178	0	903	10,275	0
26 Florida State University	9,725	9,700	10,330	10,675	4,914	2,949	2,748	64
27 Louisiana State U System	5,886	6,223	9,649	10,665	0	2,049	7,903	713
28 Pennsylvania State U	12,290	15,554	10,886	10,656	3,616	6,858	155	27
29 U of Southern California	10,277	8,698	9,513	10,499	0	7,167	3,017	315
30 SUNY at Stony Brook	11,187	13,432	11,745	10,408	1,318	3,886	5,204	0
Total, 1st 30 institutions	703,225	709,056	737,495	766,849	167,220	137,552	363,081	98,996
31 U TX at Austin	6,537	5,904	10,450	10,355	0	8,434	1,711	210
32 California Inst of Tech	16,912	14,141	11,353	10,319	0	10,319	0	0
33 Naval Postgrad School	8,029 i	8,029 i	8,792 i	9,669 i	5,772 i	0 i	3,897 i	0 i
34 Col of William & Mary	6,828	7,769	7,847	9,213	0	133	9,080	0
35 U of Nevada Las Vegas	4,328	5,658	8,350	9,180	0	401	0	8,779
36 U of MD Baltimore County	0	4,602	4,654	9,072	9,072	0	0	0
37 U of Maine	5,085	6,205	6,399	8,796	0	2,955	5,841	0
38 Rutgers the State U NJ	6,082	8,361	8,947	8,734	41	606	6,095	1,992
39 Arizona State University	4,721	15,030	10,167	8,657	0	8,657	0	0
40 U CA Los Angeles	5,663	6,611	8,514	8,561	3,869	2,124	0	2,568
Total, 1st 40 institutions	767,410	791,366	822,968	859,405	185,974	171,181	389,705	112,545
41 Georgia Institute of Tech	6,359	5,660	9,687	7,941	377	6,044	0	1,520
42 Princeton University	5,815	6,696	8,035	7,812	2,143	3,509	0	2,160
43 U of NC Chapel Hill	6,048	6,337	6,118	7,640	0	5,466	2,174	0
44 George Mason University	41	41	4,970	7,352	0	7,352	0	0
45 U of MD at College Park	6,704	5,381	4,604	7,068	3,650	3,418	0	0
46 University of Minnesota	4,587	6,120	5,940	6,566	0	3,898	1,020	1,648
47 University of Arizona	5,990	6,625	6,209	6,523	2,237	4,286	0	0
48 U CA Santa Cruz	5,519	5,945	5,864	6,209	0	2,239	3,760	210
49 University of Delaware	5,596	6,173	6,630	5,955	0	693	5,262	0
50 Stanford University	5,920	6,041	6,029	5,926	0	5,926	0	0
Total, 1st 50 institutions	819,989	846,385	887,054	928,397	194,381	214,012	401,921	118,083

See explanatory information and SOURCE at end of table.

Table B-55. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the environmental sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Atmos-pheric	Earth sciences	Ocean-ography	Other
51 Texas Tech University	334	1,386	3,054	5,897	0	255	0	5,642
52 U of South Carolina	6,062	6,712	6,655	5,827	0	2,450	1,777	1,600
53 University of Georgia	3,683	5,026	4,845	5,628	0	1,206	4,422	0
54 U Southern Mississippi	2,358	6,489	5,860	5,318	0	261	5,018	39
55 Ohio State University	6,145	5,662	3,953	5,287	0	1,604	0	3,683
56 NC State University	6,654	5,727	5,291	5,239	0	0	1,666	3,573
57 Mississippi State U	2,677	2,162	2,522	5,185	0	45	0	5,140
58 University of Connecticut	3,689	4,107	4,573	5,052	0	309	4,743	0
59 U TX at El Paso	1,308	6,125	3,769	4,894	0	4,894	0	0
60 U of Tennessee System	6,744	7,051	5,444	4,865	0	1,163	0	3,702
Total, 1st 60 institutions	859,643	896,832	933,020	981,589	194,381	226,199	419,547	141,462
61 Duke University	3,235	3,921	4,638	4,719	0	1,247	1,297	2,175
62 U of Alabama Huntsville	4,165	4,198	4,261	4,650	4,650	0	0	0
63 University of Virginia	4,048	4,834	4,865	4,382	4,382	0	0	0
64 San Jose State University	4,363e	4,363e	4,363e	4,283	1,160	200	2,899	24
65 U of NC Wilmington	3,321	3,191	3,839	4,255	0	194	4,061	0
66 University of Chicago	6,420	4,617	5,111	4,148	0	4,148	0	0
67 U of Nevada Reno	2,650	4,787	4,307	4,122	49	4,072	0	1
68 University of Wyoming	4,453	3,518	3,873	3,984	1,986	1,998	0	0
69 U of Nebraska at Lincoln	8,821 i	6,857	7,264	3,875	1,346	2,529	0	0
70 University of Utah	3,097	3,053	3,453	3,761	2,259	1,502	0	0
Total, 1st 70 institutions	904,216	940,171	978,994	1,023,768	210,213	242,089	427,804	143,662
71 Brown University	3,718	3,748	3,377	3,756	0	3,713	0	43
72 U CA Berkeley	2,525	4,051	3,734	3,515	0	3,515	0	0
73 Florida International U	225	3,001	3,732	3,466	0	3,466	0	0
74 SUNY at Albany	2,619	2,991	3,207	3,362	3,362	0	0	0
75 University of Michigan	18,623	4,292	4,319	3,232	0	2,324	908	0
76 Jackson State University	757	0	1,743	3,123	94	2,852	177	0
77 Utah State University	6,682	6,739	3,053	3,048	1,470	1,578	0	0
78 U MD Biotechnology Inst	4,995	5,894	2,773	3,008	0	0	3,008	0
79 New Mexico State Univ	4,151	2,672	2,145	2,972	2,276	0	0	696
80 Boston University	2,560	3,095	2,918	2,960	0	723	0	2,237
Total, 1st 80 institutions	951,071	976,654	1,009,995	1,056,210	217,415	260,260	431,897	146,638
81 University of Florida	2,073	2,527	1,924	2,905	0	902	2,003	0
82 U of Central Florida	2,117	2,420	1,543	2,803	2,803	0	0	0
83 OGI Schl Sci & Eng OHSU	3,997e	3,034	2,949	2,719	461	0	0	2,258
84 Purdue University	2,411	2,731	2,683	2,683	930	465	0	1,288
85 U CA Irvine	1,590	2,263	1,982	2,660	0	0	0	2,660
86 Iowa State University	914	2,006	2,071	2,640	0	2,640	0	0
87 West Virginia University	1,021	1,439	2,180	2,629	0	253	0	2,376
88 Washington State U	692	1,124	1,614	2,612	0	2,612	0	0
89 Washington University	2,594	2,779	2,757	2,508	0	2,508	0	0
90 U of MA Amherst	2,967	2,764	2,038	2,426	0	1,952	100	374
Total, 1st 90 institutions	971,447	999,741	1,031,736	1,082,795	221,609	271,592	434,000	155,594

See explanatory information and SOURCE at end of table.

Table B-55. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the environmental sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Atmos-pheric	Earth sciences	Ocean-ography	Other
91 Old Dominion University	2,333	3,665	3,283	2,416	0	0	2,416	0
92 University of Kansas	2,173	2,287	2,547	2,383	0	2,383	0	0
93 Florida A&M University	1,418	1,331	1,720	2,324	0	0	0	2,324
94 U PR Mayaguez Campus	3,051	2,916	1,826	2,245	0	579	1,666	0
95 University of Idaho	2,451	2,046	2,685	2,171	0	1,321	0	850
96 Southern Methodist U	1,726	2,609	2,117	1,955	0	1,955	0	0
97 NM Inst Mining & Tech	1,954	1,827	1,549	1,920	0	1,807	0	113
98 SD Sch of Mines & Tech	1,712	1,796	2,125	1,904	1,904	0	0	0
99 Yale University	1,840	1,780	2,317	1,836	679	1,120	37	0
100 University of New Mexico	1,443	1,636	1,735	1,825	477	1,311	35	2
Total, 1st 100 institutions	991,548	1,021,634	1,053,640	1,103,774	224,669	282,068	438,154	158,883
Total, all other sampled institutions	84,244	79,343	78,237	78,875	7,441	46,039	9,777	15,618

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-56. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the mathematical sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	310,274	313,146	340,510	357,274	214,101	209,170	228,679	241,325
1 Johns Hopkins U[1]	29,293	24,302	24,195	23,901	29,271	24,238	24,072	23,763
2 U TX at Austin	15,683	13,911	15,011	16,304	10,156	9,585	9,699	11,148
3 George Washington U	13,477	13,910	16,276	14,654	11,537	13,376	15,835	13,644
4 Boston College	7,951	9,562	12,077	14,514	6,331	6,780	7,295	9,695
5 NC State University	9,088	8,995	10,839	11,795	3,444	2,511	4,494	4,586
6 Georgia Institute of Tech	4,403	3,963	5,829	7,885	1,931	1,696	2,415	3,700
7 U TX MD Anderson Cncr Ctr	2,715	3,625	5,142	7,341	144	855	1,239	2,058
8 Brown University	7,499	7,308	7,439	6,807	4,675	5,035	4,760	4,405
9 New York University	5,828	5,652	5,555	6,780	5,570	5,005	4,746	6,562
10 Rutgers the State U NJ	10,335	9,748	8,728	6,733	6,266	5,664	4,652	2,960
Total, 1st 10 institutions	106,272	100,976	111,091	116,714	79,325	74,745	79,207	82,521
11 Iowa State University	5,771	6,272	6,907	6,276	2,727	2,782	3,182	2,597
12 U CA Berkeley	4,602	4,069	5,730	6,070	3,927	3,230	4,476	4,707
13 U CA Los Angeles	4,226	4,748	4,957	5,988	3,553	4,115	3,426	4,331
14 Pennsylvania State U	2,986	3,358	3,750	5,881	1,832	2,140	2,318	2,424
15 University of Florida	4,676	4,687	4,705	5,711	2,739	2,564	2,600	3,142
16 Texas A&M University	2,600	2,764	3,684	5,334	1,674	1,791	2,715	3,784
17 University of Georgia	4,362	4,778	4,732	5,243	578	634	598	736
18 MA Institute of Tech	2,469	5,138	5,097	5,046	2,303	4,131	4,169	4,255
19 Stanford University	4,049	4,577	5,146	4,737	3,804	4,303	4,672	4,444
20 SUNY at Stony Brook	4,575	5,071	4,903	4,732	3,002	3,447	3,006	2,877
Total, 1st 20 institutions	146,588	146,438	160,702	171,732	105,464	103,882	110,369	115,818
21 University of Minnesota	5,965	5,069	4,327	4,682	4,844	4,172	3,579	3,974
22 U of Washington	3,247	3,724	4,366	4,603	3,000	3,259	3,849	3,922
23 U of WI-Madison	3,180	3,643	3,833	4,461	1,832	1,857	1,767	2,234
24 Florida State University	1,772	4,346	2,275	4,249	995	1,499	1,343	999
25 U of IL Chicago	1,944	2,694	3,324	4,204	1,292	1,680	2,291	3,057
26 University of Michigan	3,127	3,170	3,115	4,117	2,230	2,573	2,448	3,532
27 Purdue University	3,762	3,195	3,277	3,797	1,869	1,452	1,533	2,015
28 Western Michigan U	2,759	2,321	3,038	3,712	1,842	1,578	2,225	2,165
29 Princeton University	1,791	2,560	3,158	3,663	1,448	1,781	1,928	2,110
30 Naval Postgrad School	3,048 i	3,048 i	3,344 i	3,639 i	3,021 i	3,021 i	3,308 i	3,639 i
Total, 1st 30 institutions	177,183	180,208	194,759	212,859	127,837	126,754	134,640	143,465
31 Carnegie Mellon U	3,671	3,845	3,757	3,224	3,015	3,164	3,322	2,868
32 U of South Carolina	8,501	7,546	9,911	3,105	1,986	1,586	2,108	1,424
33 University of Arizona	3,121	2,409	2,999	2,905	2,270	1,753	2,124	2,252
34 U of MA Amherst	1,788	1,567	2,298	2,900	1,167	1,190	1,653	2,112
35 U of IL Urbana-Champaign	2,011	2,259	2,597	2,730	1,102	1,235	1,316	1,576
36 VA Polytech Inst & St U	2,973	2,395	2,666	2,626	1,958	1,370	1,503	1,640
37 Cornell University	2,448	2,634	2,487	2,625	1,547	1,889	1,729	2,077
38 San Diego St University	998	1,956	2,853	2,554	196	588	1,609	1,414
39 U of Nebraska at Lincoln	540 i	1,891	2,016	2,508	403 i	389	396	397
40 U CA Santa Barbara	2,157	2,403	2,842	2,448	1,655	1,656	1,604	1,067
Total, 1st 40 institutions	205,391	209,113	229,185	240,484	143,136	141,574	152,004	160,292
41 U of Southern California	2,043	2,051	2,387	2,337	1,846	1,835	2,202	1,971
42 Rice University	2,392	2,466	2,809	2,300	2,253	2,239	2,660	2,148
43 Washington University	1,208	1,194	1,814	2,224	1,127	981	1,628	1,996
44 Indiana University	1,290	1,519	2,077	2,133	785	930	1,033	1,084
45 University of Chicago	1,519	1,514	2,038	2,010	1,444	1,511	1,980	1,814
46 Ohio State University	1,370	1,500	1,751	1,981	997	1,202	1,364	1,498
47 Boston University	3,042	2,545	1,384	1,979	2,857	2,402	1,274	1,965
48 University of Colorado	1,875	2,013	2,144	1,979	1,417	1,418	1,948	1,764
49 Arizona State University	1,245	1,132	1,677	1,976	582	735	960	1,285
50 U CA Davis	1,100	913	1,156	1,878	692	652	707	1,033
Total, 1st 50 institutions	222,475	225,960	248,422	261,281	157,136	155,479	167,760	176,850

See explanatory information and SOURCE at end of table.

Table B-56. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the mathematical sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 Clemson University	2,265	2,005	2,319	1,809	710	546	632	182
52 Harvard University	1,462	1,674	1,887	1,769	1,379	1,647	1,853	1,654
53 Portland State University	320	272	1,270	1,742	202	209	935	1,201
54 Michigan State University	712	694	876	1,697	481	542	599	1,190
55 Duke University	904	1,277	1,666	1,672	844	1,143	1,545	1,564
56 Louisiana State U System	1,550	1,247	1,346	1,615	307	227	318	531
57 CA St U Dominguez Hills	0 i	166 i	0	1,528	0 i	102 i	0	540
58 U of MD at College Park	773	745	1,015	1,507	773	745	865	821
59 University of New Haven	62 i	13	13e	1,492	15 i	11	11e	1,492
60 Rockefeller U, The	307	727	1,086	1,432	125	173	578	846
Total, 1st 60 institutions	230,830	234,780	259,900	277,544	161,972	160,824	175,096	186,871
61 Ithaca College	845	1,379	1,767	1,375	777	1,307	1,767	1,375
62 U of Missouri Columbia	1,348	1,447	1,335	1,335	608	541	581	632
63 Yale University	2,439	2,357	1,570	1,297	2,305	2,173	1,253	1,221
64 University of Delaware	1,527	1,288	1,386	1,289	1,184	940	984	977
65 University of Vermont	485	477	799	1,287	292	317	499	837
66 Rensselaer Polytech Inst	1,170	903	908	1,261	1,057	836	812	1,231
67 U CA Irvine	471	1,178	1,038	1,249	336	789	770	839
68 U CA San Diego	1,477	1,115	1,078	1,249	1,226	938	894	914
69 Colorado State University	1,503	1,599	1,418	1,169	433	557	684	805
70 NJ Inst of Technology	665	665	797	1,161	455	455	452	893
Total, 1st 70 institutions	242,760	247,188	271,996	290,216	170,645	169,677	183,792	196,595
71 University of Pittsburgh	319	904	919	1,146	293	838	802	951
72 U of NC Chapel Hill	840	675	797	1,087	751	616	719	910
73 CUNY City College	291	322	566	1,075	291	322	563	1,062
74 U of Pennsylvania	747	949e	1,084	1,060	731	949	1,035	1,014
75 U of Iowa	497	750	889	1,058	334	551	666	807
76 Utah State University	654	376	800	1,025	289	210	603	822
77 University of Utah	1,290	1,512	1,356	1,006	1,112	1,249	1,130	917
78 U of LA Lafayette	652	709	943	983	3	21	58	104
79 Mississippi State U	412	525	815	947	46	51	74	119
80 Tulane University	498	467	730	893	429	395	564	747
Total, 1st 80 institutions	248,960	254,377	280,895	300,496	174,924	174,879	190,006	204,048
81 Oklahoma State University	400	783	1,002	887	353	297	353	281
82 University of Louisville	132	1,483	1,329	844	84	163	51	31
83 Northwestern University	1,198	963	1,229	840	924	699	920	670
84 University of New Mexico	505	532	681	837	432	455	642	784
85 U of the Virgin Islands	1,477e	819e	819e	819 i	0e	0	0e	0 i
86 Illinois State University	982e	690	707 i	805	950e	550	563 i	665
87 Western Illinois U	903	757	924	800	650	602	635	508
88 Texas Tech University	1,024	763	1,025	789	656	483	628	448
89 Univ of Memphis, The	831	354	738	785	201	298	620	703
90 U of MA Dartmouth	1,266	1,043	857	780	1,208	964	727	690
Total, 1st 90 institutions	257,678	262,564	290,206	308,682	180,382	179,390	195,145	208,828

See explanatory information and SOURCE at end of table.

Table B-56. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the mathematical sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 SUNY at Buffalo	1,431	1,284	1,265	777	297	191	217	474
92 Emory University	908	725	500	767	619	383	368	397
93 Columbia U in City of NY	953	926	1,096	762	852	893	1,031	721
94 U of MD Baltimore County	366	450	614	762	350	414	547	640
95 University of Houston	673	836	787	760	457	545	552	585
96 San Jose State University	268e	268e	268e	752	92e	92e	92e	58
97 U CA Santa Cruz	530	590	592	747	293	282	249	299
98 U of WI-Milwaukee	341	355	557	699	28	70	184	402
99 Kansas State University	779	611	544	696	304	211	167	207
100 U PR Mayaguez Campus	380	317	470	674	289	246	390	579
Total, 1st 100 institutions	264,307	268,926	296,899	316,078	183,963	182,717	198,942	213,190
Total, all other sampled institutions	45,967	44,220	43,611	41,196	30,138	26,453	29,737	28,135

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-57. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the computer sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	746,354	860,639	875,472	953,793	513,290	582,516	582,327	643,230
1 Johns Hopkins U[1]	72,991	71,050	70,525	70,155	72,340	70,459	69,244	69,178
2 U of Southern California	49,893	56,745	50,745	64,269	40,661	46,741	46,312	61,724
3 Carnegie Mellon U	58,795	58,744	54,838	60,368	45,249	38,709	36,882	41,511
4 U CA San Diego	18,913	36,657	50,199	59,965	11,057	28,339	38,444	49,094
5 U of IL Urbana-Champaign	56,715	65,803	61,032	55,729	34,823	41,976	41,162	37,891
6 Georgia Institute of Tech	29,329	31,259	34,339	35,925	12,858	13,379	14,227	16,857
7 MA Institute of Tech	14,590	34,061	34,384	34,618	11,366	26,622	23,290	23,241
8 U TX at Austin	6,919	18,109	24,350	23,502	5,261	14,811	18,970	20,605
9 Ohio State University	13,761	17,249	21,050	22,758	2,522	2,356	1,576	1,415
10 U of MD at College Park	19,868	23,521	19,617	21,229	12,005	14,176	12,029	12,515
Total, 1st 10 institutions	341,774	413,198	421,079	448,518	248,142	297,568	302,136	334,031
11 Cornell University	19,309	17,683	16,474	17,187	14,195	11,714	9,941	11,890
12 U of Alaska Fairbanks	0 i	11,178	12,899	16,159	0 i	138	186	105
13 University of Utah	11,181	11,441	13,614	16,007	10,057	11,017	10,684	10,922
14 Stanford University	18,390	17,449	13,732	15,459	16,270	15,767	11,573	12,701
15 U of MA Amherst	9,314	10,481	11,046	11,800	6,120	7,265	7,181	7,836
16 U CA Los Angeles	6,763	8,007	7,681	11,313	5,139	5,519	5,190	5,305
17 U of Tennessee System	7,016	7,494	7,981	10,451	3,622	2,600	2,787	5,806
18 University of Michigan	5,295	9,545	9,110	10,184	1,452	2,560	3,386	5,261
19 U of WI-Madison	7,481	7,360	8,441	9,910	5,837	5,291	6,079	6,770
20 U of Alabama Huntsville	4,923	5,971	7,374	9,599	3,178	3,963	4,950	4,630
Total, 1st 20 institutions	431,446	519,807	529,431	576,587	314,012	363,402	364,093	405,257
21 OGI Schl Sci & Eng OHSU	9,073e	9,519	8,194	9,045	6,797e	7,522	6,380	7,230
22 Rice University	10,275	10,839	10,590	8,995	9,819	10,595	10,251	8,688
23 U of Pennsylvania	8,207	8,829e	9,034	8,939	5,905	7,037	7,664	7,658
24 Purdue University	4,925	5,583	7,220	8,528	2,345	2,778	2,995	2,850
25 U CA Santa Barbara	7,039	2,162	2,525	8,273	5,046	1,252	2,069	6,461
26 University of Minnesota	6,285	7,225	7,763	8,022	3,900	4,216	5,585	5,993
27 U of NC Chapel Hill	8,339	9,531	8,632	7,850	5,358	6,401	5,552	4,591
28 SUNY at Buffalo	5,656	7,270	7,413	7,489	1,977	2,576	2,015	2,220
29 New York University	6,306	5,959	5,920	7,220	3,892	3,620	3,720	4,764
30 Princeton University	4,493	4,565	5,657	6,938	2,216	2,012	2,600	3,869
Total, 1st 30 institutions	502,044	591,289	602,379	657,886	361,267	411,411	412,924	459,581
31 U CA Irvine	4,259	4,854	5,040	6,572	2,296	2,933	3,241	4,054
32 U of Washington	5,676	4,956	4,872	6,295	4,818	4,254	4,050	5,316
33 Washington University	8,019	8,205	7,263	6,254	5,304	5,666	5,189	4,826
34 University of Arizona	6,293	4,836	4,686	6,158	4,421	3,524	3,488	4,325
35 Jackson State University	959	3,203	2,526	6,042	824	2,880	2,199	5,356
36 Columbia U in City of NY	4,074	4,966	5,867	5,907	3,830	4,738	5,547	5,341
37 University of Colorado	6,718	6,990	6,053	5,577	4,851	5,671	5,185	4,860
38 Brown University	5,149	4,729	4,646	5,473	3,462	3,036	2,898	3,364
39 U of West Florida	2,247	3,022	4,429	5,303	1,468	2,332	3,773	3,999
40 Rutgers the State U NJ	6,617	6,152	6,432	5,264	2,383	2,488	2,259	1,985
Total, 1st 40 institutions	552,055	643,202	654,193	716,731	394,924	448,933	450,753	503,007
41 NC State University	2,876	3,007	5,175	5,234	1,713	1,393	2,733	3,369
42 Syracuse University	10,823	11,495	6,601	4,889	6,376	8,714	4,670	2,803
43 Texas A&M University	4,476	3,237	3,309	4,865	1,259	1,575	1,903	2,894
44 Naval Postgrad School	3,930 i	3,930 i	4,307 i	4,702 i	3,916 i	3,916 i	4,289 i	4,702 i
45 Cal Poly St U	16	4,647	4,274	4,460	14	4,646	4,225	4,188
46 California Inst of Tech	11,000	10,113	5,969	4,402	10,996	10,041	5,559	4,340
47 Yale University	1,998	2,408	2,411	4,396	1,682	1,898	1,316	3,870
48 Dartmouth College	899	2,010	1,976	4,383	526	1,469	1,648	3,474
49 Pennsylvania State U	1,020	1,145	5,878	4,250	448	488	4,346	3,016
50 University of Kansas	768	3,223	3,619	4,198	246	958	576	228
Total, 1st 50 institutions	589,861	688,417	697,712	762,510	422,100	484,031	482,018	535,891

See explanatory information and SOURCE at end of table.

Table B-57. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the computer sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 U of Nebraska at Lincoln	711 i	2,392	3,203	4,038	515 i	740	814	770
52 University of Virginia	5,680	5,194	3,544	4,020	4,982	4,683	3,242	3,137
53 Northwestern University	3,011	3,173	3,700	3,899	1,769	1,815	1,893	2,145
54 Iowa State University	5,129	3,003	3,060	3,750	483	860	280	447
55 Wright State University	265	1,429	4,076	3,750	125	185	1,073	1,211
56 Michigan State University	2,848	2,990	3,677	3,745	1,440	1,635	1,791	1,684
57 New Mexico State Univ	4,338	5,129	4,486	3,662	3,504	4,091	3,452	2,889
58 Duke University	1,758	1,595	2,421	3,595	1,076	1,082	1,799	2,931
59 University of Houston	2,561	2,780	3,267	3,292	1,780	1,798	2,043	2,155
60 SUNY at Stony Brook	3,341	3,496	2,956	3,245	2,206	1,806	1,744	1,962
Total, 1st 60 institutions	619,503	719,598	732,102	799,506	439,980	502,726	500,149	555,222
61 Rockefeller U, The	1,927	1,498	1,907	3,237	442	93	167	605
62 Arizona State University	2,851	2,540	3,224	3,183	1,141	1,073	1,351	1,817
63 University of Pittsburgh	2,690	2,935	2,273	3,030	2,353	2,656	1,873	2,094
64 Howard University	1,536	1,171	2,325	3,012	1,416	1,075	1,933	2,635
65 Louisiana State U System	1,377	2,104	2,076	2,993	80	315	291	281
66 University of Oklahoma	2,322	2,709	2,713	2,774	128	74	81	186
67 U of LA Lafayette	2,526	3,714	3,308	2,711	965	1,829	1,245	859
68 University of Georgia	2,529	2,706	2,883	2,664	88	398	761	564
69 University of Florida	3,578	3,955	2,404	2,608	2,371	2,679	1,956	2,046
70 Oregon State University	1,888	1,887	1,983	2,547	1,515	1,505	1,600	2,009
Total, 1st 70 institutions	642,727	744,817	757,198	828,265	450,479	514,423	511,407	568,318
71 Harvard University	1,277	1,386	2,017	2,492	1,229	1,308	1,602	1,745
72 Florida State University	2,053	2,674	3,140	2,477	1,518	2,055	1,860	2,018
73 Indiana University	2,827	2,492	3,839	2,395	1,505	1,112	1,529	1,164
74 Rose-Hulman Inst of Tech	0 i	116	601	2,391	0 i	116	10	0
75 University of Oregon	2,707	3,252	3,075	2,379	2,404	2,921	2,683	2,133
76 University of Rochester	2,652	3,103	2,307	2,288	2,549	2,986	2,226	2,082
77 University of New Mexico	2,601	2,797	2,323	2,244	1,926	2,246	2,038	1,891
78 SUNY at Albany	636	695	929	2,217	233	362	749	874
79 Mississippi State U	1,125	1,960	2,199	2,146	709	1,367	781	820
80 U CA Santa Cruz	1,520	1,605	2,028	2,136	1,165	1,329	1,612	1,742
Total, 1st 80 institutions	660,125	764,897	779,656	851,430	463,717	530,225	526,497	582,787
81 Florida International U	906	2,003	2,303	2,087	184	1,319	1,349	1,128
82 U CA Davis	2,458	2,522	2,563	2,053	1,961	1,896	1,628	989
83 Bowie State University	2,026	2,109	2,109e	2,007	2,026	1,913	1,913e	1,822
84 NJ Inst of Technology	2,249	2,249	212	1,958	1,181	1,181	212	275
85 VA Polytech Inst & St U	2,315	2,168	2,208	1,955	1,617	1,526	1,030	1,116
86 University of Kentucky	827	1,084	1,368	1,908	729	748	1,038	1,558
87 Clemson University	1,807	1,294	1,497	1,805	565	352	407	507
88 University of Connecticut	1,173	919	1,436	1,784	198	194	512	602
89 Florida A&M University	794	1,902	1,781	1,780	369	1,902	1,177	1,780
90 University of Delaware	3,947	2,015	1,727	1,694	2,431	1,092	829	809
Total, 1st 90 institutions	678,627	783,162	796,860	870,461	474,978	542,348	536,592	593,373

See explanatory information and SOURCE at end of table.

Table B-57. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the computer sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 Drexel University	1,273	1,172	1,212	1,626	132	170	255	1,138
92 U of Arkansas Main	810	165	366	1,564	0	66	126	56
93 U of Missouri Kansas City	938	1,177	1,288	1,508	734	1,027	767	431
94 Rensselaer Polytech Inst	2,160	1,021	891	1,505	1,718	673	700	975
95 Florida Inst of Tech	643	865	1,034	1,498	124	344	525	333
96 U of Maine	188	321	1,058	1,440	59	241	296	562
97 Air Force Inst of Tech	0	0	1,198	1,433	0	0	772	235
98 Northeastern University	895	1,058	924	1,368	853	832	570	993
99 University of Idaho	276	81	742	1,335	185	53	574	1,069
100 U CA Riverside	253	177	439	1,322	77	99	249	591
Total, 1st 100 institutions	686,063	789,199	806,012	885,060	478,860	545,853	541,426	599,756
Total, all other sampled institutions	60,291	71,440	69,460	68,733	34,430	36,663	40,901	43,474

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-58. R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the life sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
Total, all institutions	14,592,790	15,610,045	17,460,397	19,189,112	2,318,081	5,943,596	10,176,728	750,707
1 U CA San Francisco	379,970	417,095	429,541	509,607	0	22,878	486,729	0
2 U CA Los Angeles	313,422	327,302	368,030	493,355	7,362	18,799	462,136	5,058
3 Johns Hopkins U	332,458	356,575	385,907	436,484	0	111,540	298,656	26,288
4 U of Washington	288,925	327,975	372,339	406,532	19,562	102,824	279,027	5,119
5 Baylor Col of Medicine	216,528	272,198	334,175	381,461	0	206,458	175,003	0
6 U of Pennsylvania	266,318	302,186	343,388	381,006	860	139,556	230,791	9,799
7 U of WI-Madison	265,262	311,730	341,779	370,813	40,912	127,460	198,242	4,199
8 Washington University	234,810	277,281	324,032	365,713	0	172,778	185,732	7,203
9 University of Minnesota	261,207	269,055	297,925	336,099	68,399	54,865	200,593	12,242
10 University of Michigan	270,466	269,752	305,904	325,083	4,313	90,204	186,148	44,418
Total, 1st 10 institutions	2,829,366	3,131,149	3,503,020	4,006,153	141,408	1,047,362	2,703,057	114,326
11 U CA Davis	232,976	248,859	292,503	316,573	105,152	119,269	92,150	2
12 Duke University	228,396	290,206	298,144	312,897	0	73,228	239,127	542
13 University of Pittsburgh	182,827	213,648	253,612	298,753	0	12,763	279,251	6,739
14 Cornell University	215,404	222,855	243,158	284,381	64,188	64,047	156,146	0
15 Yale University	225,403	236,121	257,472	279,749	1,609	90,292	187,848	0
16 Harvard University	195,472	221,419	251,246	278,884	0	92,150	186,454	280
17 Stanford University	195,377	216,764	258,040	275,312	0	14,984	260,328	0
18 U CA San Diego	199,279	215,713	255,497	274,810	0	37,957	235,301	1,552
19 University of Florida	177,226	208,356	220,588	248,524	102,287	48,437	94,164	3,636
20 Columbia U in City of NY	170,957	184,913	212,281	240,793	0	84,359	154,959	1,475
Total, 1st 20 institutions	4,852,683	5,390,003	6,045,561	6,816,829	414,644	1,684,848	4,588,785	128,552
21 U of MD Baltimore	143,321	140,903	224,346	239,007	0	35,851	191,206	11,950
22 U of NC Chapel Hill	176,442	189,813	204,646	235,300	0	96,387	116,484	22,429
23 U TX SW Med Ctr at Dallas	153,711	165,520	189,216	222,376	0	102,724	119,045	607
24 Emory University	163,709	179,929	192,492	221,105	0	51,160	129,895	40,050
25 U of Alabama Birmingham	211,039	214,654	216,304	216,201	0	65,554	149,791	856
26 University of Arizona	153,625	158,804	180,467	203,319	49,212	66,847	85,213	2,047
27 U TX MD Anderson Cncr Ctr	135,100	147,823	173,347	200,996	0	84,749	116,247	0
28 U of Iowa	148,007	157,236	183,099	199,891	0	50,154	131,647	18,090
29 Ohio State University	163,913	169,780	194,937	197,406	40,794	58,416	81,376	16,820
30 University of Georgia	148,995	160,990	180,275	188,396	89,594	73,668	25,078	56
Total, 1st 30 institutions	6,450,545	7,075,455	7,984,690	8,940,826	594,244	2,370,358	5,734,767	241,457
31 U of Southern California	141,502	145,206	162,756	185,096	0	6,009	169,220	9,867
32 University of Colorado	142,135	149,880	163,191	181,571	30	55,001	122,409	4,131
33 Mt Sinai Sch Med	109,448	127,765	149,846	176,946	0	66,120	110,826	0
34 U of IL Chicago	110,518	127,786	142,203	171,420	0	49,407	111,543	10,470
35 Northwestern University	133,916	146,887	153,243	166,035	0	62,340	96,134	7,561
36 U CA Berkeley	174,394	173,208	219,128	165,525	68,053	59,752	37,720	0
37 Michigan State University	120,904	130,392	147,286	163,803	68,798	71,116	20,705	3,184
38 U Med & Dent of NJ	114,491	126,277	140,951	162,417	0	59,076	103,341	0
39 Louisiana State U System	124,209	130,209	147,295	160,836	55,497	62,038	42,844	457
40 University of Rochester	111,899	110,841	124,571	156,659	0	41,874	108,323	6,462
Total, 1st 40 institutions	7,733,961	8,443,906	9,535,160	10,631,134	786,622	2,903,091	6,657,832	283,589
41 University of Kentucky	117,731	126,650	145,901	154,696	56,652	2,767	91,612	3,665
42 University of Cincinnati	129,578	115,975	135,543	154,214	0	50,764	98,809	4,641
43 Case Western Reserve U	133,979	143,074	153,776	153,369	0	49,514	103,459	396
44 Texas A&M University	159,093	164,646	146,600	153,264	69,231	32,798	51,233	2
45 New York University	124,351	136,329	147,489	152,633	0	46,407	74,482	31,744
46 Vanderbilt University	109,534	117,715	137,734	150,059	0	68,259	73,053	8,747
47 Indiana University	110,220	119,441	131,540	149,353	80	44,528	99,307	5,438
48 Pennsylvania State U	99,746	101,867	147,340	148,925	70,405	27,305	48,279	2,936
49 Yeshiva University	99,000	111,771	139,618	148,230	0	35,931	80,845	31,454
50 University of Chicago	103,348	108,200	121,687	147,810	0	49,696	97,357	757
Total, 1st 50 institutions	8,920,541	9,689,574	10,942,388	12,143,687	982,990	3,311,060	7,476,268	373,369

See explanatory information and SOURCE at end of table.

Table B-58. R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the life sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
51 NC State University	121,736	134,338	136,438	145,775	73,787	69,462	0	2,526
52 Wayne State University	104,460	114,217	120,701	140,180	0	3,123	134,074	2,983
53 Rockefeller U, The	109,008	115,715	117,079	136,413	0	131,770	4,643	0
54 Oregon Health & Science U	105,735 i	116,422 i	126,445	131,290	0	41,636	78,024	11,630
55 University of Utah	94,383	98,011	124,257	130,721	0	36,329	58,897	35,495
56 SUNY at Buffalo	93,114	105,524	124,168	127,859	0	36,465	83,824	7,570
57 UT Houston Hlth Sci Ctr	101,993	105,307	119,587	125,439	0	38,043	80,144	7,252
58 U of Missouri Columbia	98,662	105,545	112,396	124,701	52,127	33,827	33,376	5,371
59 Boston University	83,544	94,478	103,731	118,512	0	8,364	108,662	1,486
60 U CA Irvine	86,093	94,991	107,771	117,618	0	66,508	51,110	0
Total, 1st 60 institutions	9,919,269	10,774,122	12,134,961	13,442,195	1,108,904	3,776,587	8,109,022	447,682
61 Med U of South Carolina	57,940	55,819e	65,243	116,687	0	30,502	58,654	27,531
62 U of South Florida	63,616	82,586	95,756	116,446	0	2,820	112,226	1,400
63 Purdue University	96,025	101,479	106,891	116,206	43,419	52,406	14,705	5,676
64 U TX Hlth Sci Ctr San Ant	82,357	87,804	103,824	115,154	0	40,249	74,905	0
65 U of MA Worcester	82,950	83,040	97,587	111,221	0	35,724	44,349	31,148
66 U of IL Urbana-Champaign	81,436	87,213	97,752	109,062	50,984	48,419	6,653	3,006
67 University of Miami	92,385	97,838	103,472	107,753	0	21,616	86,099	38
68 Rutgers the State U NJ	91,706	97,017	99,301	106,092	37,103	41,922	20,121	6,946
69 University of Kansas	66,492	82,370	95,317	104,210	19	49,805	42,092	12,294
70 U TX Med Br at Galveston	85,219	92,274	96,406	100,926	0	49,447	51,430	49
Total, 1st 70 institutions	10,719,395	11,641,562	13,096,510	14,545,952	1,240,429	4,149,497	8,620,256	535,770
71 University of Connecticut	79,719	81,970	97,825	100,474	7,881	39,168	50,147	3,278
72 University of Virginia	88,752	82,763	91,269	98,876	0	41,679	56,158	1,039
73 Wake Forest University	75,987	81,220	85,675	96,131	0	417	95,714	0
74 SUNY at Stony Brook	77,768	79,447	89,558	95,885	0	54,662	40,313	910
75 VA Polytech Inst & St U	66,495	73,781	84,265	94,248	68,669	12,751	4,526	8,302
76 U of Tennessee System	85,380	92,957	95,074	90,646	24,050	31,864	33,114	1,618
77 Georgetown University	106,347	98,480e	119,611	90,273	0	8,562	81,472	239
78 Colorado State University	77,765	96,230	96,098	89,852	63,426	18,474	7,952	0
79 Oregon State University	83,238	83,992	82,485	89,498	56,223	28,355	3,429	1,491
80 Thomas Jefferson U	69,460	78,410	89,626	88,936	0	45,390	42,211	1,335
Total, 1st 80 institutions	11,530,306	12,490,812	14,027,996	15,480,771	1,460,678	4,430,819	9,035,292	553,982
81 Iowa State University	75,816	78,037	79,334	87,087	48,689	33,480	4,362	556
82 Virginia Commonwealth U	70,968	69,763	75,323	85,501	0	28,591	54,798	2,112
83 Tufts University	73,437	80,592	83,227	84,659	0	73,730	9,544	1,385
84 Medical Col of Wisconsin	56,021	61,446	70,581	83,857	0	34,617	49,240	0
85 U of Nebraska at Lincoln	74,011 i	62,623	64,285	79,194	46,128	30,927	0	2,139
86 Mississippi State U	62,253	65,748	75,070	79,165	72,172	1,438	5,202	353
87 MA Institute of Tech	42,744	66,924	73,228	77,062	156	58,635	17,128	1,143
88 Tulane University	72,246	72,140	70,301	76,704	0	11,885	30,315	34,504
89 Dartmouth College	49,978	53,543	59,803	74,490	0	3,824	70,666	0
90 Washington State U	64,805	65,632	70,714	71,436	26,130	38,620	3,410	3,276
Total, 1st 90 institutions	12,172,585	13,167,260	14,749,862	16,279,926	1,653,953	4,746,566	9,279,957	599,450
91 Rush University	52,378	58,166	67,122	68,935	0	13,274	53,634	2,027
92 University of Vermont	51,015	56,013	56,067	66,357	5,641	23,789	31,810	5,117
93 University of Oklahoma	56,247	62,471	63,984	66,128	0	28,644	35,612	1,872
94 University of New Mexico	40,612	36,824	46,280	62,419	0	31,014	19,147	12,258
95 U of Nebraska Med Ctr	50,453	54,205	51,547	60,695	0	34,607	25,913	175
96 U CA Riverside	49,242	45,241	47,470	60,284	23,315	34,875	2,094	0
97 Kansas State University	54,268	56,739	59,728	60,229	43,352	16,575	302	0
98 Auburn University	48,586	51,324	56,273	58,552	38,916	13,447	3,382	2,807
99 Univ of Hawaii at Manoa	57,016	62,503	63,662	58,455	13,441	9,415	21,053	14,546
100 University of Louisville	31,008	42,131	49,922	56,292	0	19,270	30,579	6,443
Total, 1st 100 institutions	12,663,410	13,692,877	15,311,917	16,898,272	1,778,618	4,971,476	9,503,483	644,695

See explanatory information and SOURCE at end of table.

Table B-58. R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the life sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
101 Medical Col of Georgia	39,806	41,103	45,596	52,191	0	30,271	21,841	79
102 U of Arkansas Medical Sci	39,487	44,066	49,074	51,921	0	17,946	33,975	0
103 U of Arkansas Main	46,523	43,733	47,239	51,556	48,697	1,929	0	930
104 Oklahoma State University	38,293	45,141	49,269	50,096	27,169	18,430	3,949	548
105 Clemson University	47,941	54,023	62,486	50,058	37,620	11,541	897	0
106 North Dakota State U	32,362	33,813	37,124	48,943	45,518	1,988	1,437	0
107 U of MD at College Park	33,772	35,966	37,526	47,443	29,836	8,914	0	8,693
108 West Virginia University	34,199	33,247	32,628	43,380	8,860	9,349	25,171	0
109 University of Idaho	41,187	40,633	39,812	42,957	33,879	7,572	1,503	3
110 Brown University	30,976	34,242	38,501	42,396	0	4,679	29,146	8,571
Total, 1st 110 institutions	13,047,956	14,098,844	15,751,172	17,379,213	2,010,197	5,084,095	9,621,402	663,519
111 Montana St U Bozeman	32,362	33,283	39,492	42,114	31,020	10,461	0	633
112 U TX at Austin	25,821	30,561	39,125	41,544	104	29,195	11,865	380
113 SUNY at Albany	28,221	38,486	55,159	41,335	0	41,335	0	0
114 TX A&M U Sys Hlth Sci Ctr	--	--	25,719	40,693	0	301	40,392	0
115 C R Drew U of Med & Sci	17,205e	24,484	31,045	36,717	0	0	36,717	0
116 Temple University	46,219	39,957	30,675	36,228	3	16,645	17,843	1,737
117 George Washington U	26,872	23,269	23,310	36,149	0	807	35,326	16
118 Utah State University	32,316	33,636	35,626	34,166	21,080	7,848	5,229	9
119 California Inst of Tech	32,425	26,791	31,931	33,779	0	33,779	0	0
120 MCP Hahnemann U	95,984	27,254	41,267	31,938	0	12,563	17,001	2,374
Total, 1st 120 institutions	13,385,381	14,376,565	16,104,521	17,753,876	2,062,404	5,237,029	9,785,775	668,668
121 SUNY Hlth Sci Ctr Brklyn	27,517	28,840	31,626	31,626e	0e	18,509e	13,041e	76e
122 U of Nevada Reno	21,761	18,855	26,014	31,445	11,564	15,016	4,667	198
123 Saint Louis University	26,000	27,118	29,888	31,328	0	12,097	14,250	4,981
124 Texas Tech University	22,446	24,337	27,413	31,241	11,705	11,820	6,918	798
125 Loyola U of Chicago	28,980	25,799	25,087	30,351	0	14,616	15,414	321
126 U of MA Amherst	26,555	26,596	32,453	29,894	11,275	15,453	617	2,549
127 U of South Carolina	18,180	23,387	24,371	27,153	0	6,555	19,033	1,565
128 Princeton University	17,843	19,429	23,185	26,431	0	26,431	0	0
129 Eastern VA Med School	21,672	24,096	23,299	26,250	0	9,486	16,654	110
130 S Illinois U Carbondale	16,616	18,967	23,401	25,714	8,786	5,668	10,678	582
Total, 1st 130 institutions	13,612,951	14,613,989	16,371,258	18,045,309	2,105,734	5,372,680	9,887,047	679,848
131 U MD Biotechnology Inst	23,944	23,425	22,504	24,392	6,110	18,007	0	275
132 New York Medical College	19,159	20,436	23,348	24,283	0	13,990	10,293	0
133 U PR Med Sci Campus	19,830	17,114	21,373	23,913	0	0	23,913	0
134 U of Maine	14,276	16,742	18,431	23,912	10,066	11,874	24	1,948
135 Loma Linda University	12,788	18,818	21,488	23,324 i	0 i	5,922 i	17,402 i	0 i
136 Univ of Montana, The	13,896	16,707	20,509	23,287	7,776	10,509	3,633	1,369
137 Unif Svcs U of Hlth Sci	20,309	22,898	23,987	23,247	0	7,553	15,694	0
138 Brandeis University	20,304	20,127	20,159	22,902	0	22,902	0	0
139 San Diego St University	19,023	19,928	20,629	22,063	128	10,920	9,383	1,632
140 University of Delaware	17,180	17,348	20,227	21,871	17,231	4,028	0	612
Total, 1st 140 institutions	13,793,660	14,807,532	16,583,913	18,278,503	2,147,045	5,478,385	9,967,389	685,684

See explanatory information and SOURCE at end of table.

Table B-58. R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the life sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
141 New Mexico State Univ	16,330	17,582	19,165	20,202	17,650	2,483	8	61
142 University of Wyoming	19,657	21,491	17,512	19,715	11,745	7,316	654	0
143 Morehouse School of Med	13,213	13,622	16,889	19,670	0	11,261	8,409	0
144 Howard University	13,119	13,457	16,400	19,534	0	11,931	7,599	4
145 Wright State University	11,943	14,093	17,350	19,406	0	2,498	16,767	141
146 U of LA Lafayette	12,461	14,834	18,167	18,550	445	3,503	14,174	428
147 SUNY Upstate Med U	14,089	15,099	17,095	17,948	0	7,457	10,491	0
148 University of Oregon	14,451	13,986	16,949	17,783	0	8,237	9,546	0
149 Creighton University	14,758	15,725	15,464	17,393	0	4,120	13,271	2
150 U of Alaska Fairbanks	19,562 i	17,234	19,887	16,601	7,814	8,488	0	299
Total, 1st 150 institutions	13,943,243	14,964,655	16,758,791	18,465,305	2,184,699	5,545,679	10,048,308	686,619
Total, all other sampled institutions	649,547	645,390	701,606	723,807	133,382	397,917	128,420	64,088

KEY: -- = not available
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-59. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the life sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
Total, all institutions	8,330,565	8,941,216	10,059,092	11,178,689	613,350	3,872,150	6,248,659	444,530
1 Johns Hopkins U[1]	259,454	281,249	305,404	347,565	0	89,607	235,267	22,691
2 U of Washington	222,448	246,803	268,355	299,001	11,453	78,281	206,149	3,118
3 U of Pennsylvania	198,815	227,734	259,136	296,706	837	112,144	176,736	6,989
4 U CA San Francisco	219,630	233,181	239,282	265,865	0	16,074	249,791	0
5 Washington University	161,884	191,983	228,233	256,345	0	130,763	121,071	4,511
6 University of Pittsburgh	145,487	167,748	198,076	234,847	0	9,824	219,767	5,256
7 Baylor Col of Medicine	110,610	141,111	193,249	234,394	0	153,250	81,144	0
8 Harvard University	163,991	183,218	213,775	232,400	0	77,780	154,340	280
9 U CA Los Angeles	159,433	169,502	188,919	223,320	0	10,801	208,134	4,385
10 Yale University	174,414	183,022	202,801	215,209	756	74,531	139,922	0
Total, 1st 10 institutions	1,816,166	2,025,551	2,297,230	2,605,652	13,046	753,055	1,792,321	47,230
11 Stanford University	155,050	174,195	199,298	214,486	0	11,388	203,098	0
12 University of Michigan	171,935	181,276	200,003	212,732	1,531	65,246	117,552	28,403
13 Columbia U in City of NY	144,577	153,549	185,106	212,271	0	77,148	134,102	1,021
14 University of Minnesota	144,826	147,646	163,831	187,638	14,696	33,857	130,966	8,119
15 U of Alabama Birmingham	154,908	153,179	162,927	182,745	0	55,766	126,192	787
16 U of NC Chapel Hill	131,183	138,631	150,606	172,779	0	73,616	90,714	8,449
17 Duke University	133,454	143,274	159,656	171,792	0	60,533	110,770	489
18 U CA San Diego	126,944	135,740	155,250	163,951	0	26,145	137,598	208
19 Emory University	111,682	126,500	137,489	162,073	0	42,981	87,296	31,796
20 U of WI-Madison	126,814	133,809	148,172	158,022	12,757	65,058	78,722	1,485
Total, 1st 20 institutions	3,217,539	3,513,350	3,959,568	4,444,141	42,030	1,264,793	3,009,331	127,987
21 University of Colorado	104,521	116,014	136,720	149,083	4	46,408	100,540	2,131
22 Cornell University	110,388	115,982	125,344	144,510	17,221	34,128	93,161	0
23 Case Western Reserve U	106,938	114,553	125,924	133,371	0	39,596	93,650	125
24 U TX SW Med Ctr at Dallas	97,200	101,996	109,165	131,820	0	65,277	65,992	551
25 U of Iowa	89,203	96,891	112,862	125,891	0	31,580	79,779	14,532
26 U of Southern California	91,664	94,480	103,260	120,682	0	4,183	109,489	7,010
27 Vanderbilt University	86,936	91,369	103,565	117,681	0	57,147	52,764	7,770
28 University of Chicago	87,762	91,591	97,251	115,766	0	41,020	74,222	524
29 University of Cincinnati	74,095	83,303	94,624	112,087	0	39,300	72,679	108
30 Mt Sinai Sch Med	69,995	84,624	98,188	109,344	0	38,307	71,037	0
Total, 1st 30 institutions	4,136,241	4,504,153	5,066,471	5,704,376	59,255	1,661,739	3,822,644	160,738
31 Yeshiva University	80,000	89,680	101,631	107,800	0	26,131	58,794	22,875
32 U CA Davis	88,045	98,784	109,978	106,675	22,873	40,033	43,769	0
33 Oregon Health & Science U	78,866 i	91,835 i	104,185	106,328	0	38,459	57,842	10,027
34 University of Arizona	75,275	80,174	89,978	105,356	15,380	39,746	48,748	1,482
35 Northwestern University	78,649	82,942	96,823	104,710	0	43,707	55,630	5,373
36 University of Rochester	76,928	75,975	88,295	104,254	0	34,525	65,913	3,816
37 New York University	81,747	89,173	93,890	101,365	0	35,504	40,319	25,542
38 Boston University	67,475	80,675	88,405	100,993	0	7,679	92,068	1,246
39 U of MD Baltimore	78,037	84,516	91,212	99,091	0	14,864	79,273	4,954
40 U of IL Chicago	56,850	67,001	76,932	96,837	0	30,786	59,277	6,774
Total, 1st 40 institutions	4,898,113	5,344,908	6,007,800	6,737,785	97,508	1,973,173	4,424,277	242,827
41 Ohio State University	72,194	77,926	79,507	94,278	8,134	31,400	43,684	11,060
42 U TX MD Anderson Cncr Ctr	60,347	66,016	77,963	88,823	0	40,098	48,725	0
43 UT Houston Hlth Sci Ctr	70,446	71,288	79,665	88,545	0	28,243	58,522	1,780
44 U Med & Dent of NJ	59,828	61,730	75,318	86,054	0	40,327	45,727	0
45 University of Florida	63,549	75,556	72,971	85,415	16,777	28,912	37,065	2,661
46 Georgetown University	79,223	76,707	92,084	85,315	0	7,830	77,266	219
47 University of Utah	63,895	68,423	81,091	83,618	0	26,220	43,445	13,953
48 Indiana University	64,970	70,151	74,949	82,786	56	28,240	51,688	2,802
49 U CA Berkeley	65,728	64,757	76,937	82,235	18,182	44,244	19,809	0
50 University of Virginia	61,600	67,715	75,640	81,774	0	34,493	46,338	943
Total, 1st 50 institutions	5,559,893	6,045,177	6,793,925	7,596,628	140,657	2,283,180	4,896,546	276,245

See explanatory information and SOURCE at end of table.

Table B-59. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the life sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
51 U of MA Worcester	53,766	55,516	64,212	79,453	0	32,419	35,318	11,716
52 Wake Forest University	56,023	59,351	65,094	76,951	0	296	76,655	0
53 U TX Hlth Sci Ctr San Ant	51,954	56,904	65,251	71,153	0	28,678	42,475	0
54 University of Miami	62,022	63,869	68,262	70,619	0	16,816	53,767	36
55 U CA Irvine	41,652	48,827	61,177	67,873	0	47,114	20,759	0
56 Pennsylvania State U	52,397	56,182	68,343	67,800	14,680	14,688	36,705	1,727
57 SUNY at Buffalo	48,799	57,307	67,966	67,588	0	23,661	39,463	4,464
58 Thomas Jefferson U	51,728	56,369	67,448	64,881	0	36,280	27,497	1,104
59 Wayne State University	46,472	47,371	52,637	64,031	0	2,037	60,743	1,251
60 Medical Col of Wisconsin	43,831	47,087	55,034	64,003	0	26,420	37,583	0
Total, 1st 60 institutions	6,068,537	6,593,960	7,429,349	8,290,980	155,337	2,511,589	5,327,511	296,543
61 U TX Med Br at Galveston	48,310	54,759	60,749	63,917	0	30,234	33,652	31
62 Tufts University	51,225	53,302	54,306	61,006	0	54,948	5,422	636
63 Med U of South Carolina	36,473	30,997	41,432	60,543	0	19,961	28,456	12,126
64 University of Kentucky	41,679	46,622	50,133	60,341	9,160	1,581	49,211	389
65 MA Institute of Tech	33,826	49,466	55,109	59,054	24	46,892	11,080	1,058
66 Michigan State University	45,496	49,996	51,536	59,016	14,722	32,128	10,839	1,327
67 University of Kansas	28,377	38,866	46,879	54,887	9	27,021	21,351	6,506
68 Rockefeller U, The	40,347	42,689	42,109	51,317	0	46,674	4,643	0
69 SUNY at Stony Brook	48,990	48,971	51,701	50,667	0	30,050	20,258	359
70 Louisiana State U System	37,833	42,673	47,916	50,635	5,617	33,067	11,592	359
Total, 1st 70 institutions	6,481,093	7,052,301	7,931,219	8,862,363	184,869	2,834,145	5,524,015	319,334
71 University of Georgia	42,412	42,100	47,290	49,294	14,501	31,617	3,176	0
72 U of Missouri Columbia	31,875	37,318	45,496	48,950	15,542	15,316	14,967	3,125
73 University of Connecticut	37,120	38,767	46,875	48,914	2,909	23,167	20,916	1,922
74 Virginia Commonwealth U	43,479	42,593	45,047	48,836	0	20,107	27,521	1,208
75 Colorado State University	42,266	56,063	62,328	48,151	35,204	7,262	5,685	0
76 Dartmouth College	34,859	35,707	41,537	47,443	0	2,799	44,644	0
77 U of Tennessee System	37,064	38,605	43,256	44,255	2,248	24,553	16,400	1,054
78 University of Vermont	27,751	31,432	35,632	43,959	2,313	17,865	21,253	2,528
79 Tulane University	44,002	41,482	40,122	41,666	0	6,812	10,909	23,945
80 Purdue University	32,707	34,525	35,919	41,501	8,567	24,159	5,809	2,966
Total, 1st 80 institutions	6,854,628	7,450,893	8,374,721	9,325,332	266,153	3,007,802	5,695,295	356,082
81 University of New Mexico	26,611	29,014	38,214	41,371	0	23,076	14,203	4,092
82 Texas A&M University	43,610	43,653	37,616	40,985	17,270	8,426	15,289	0
83 U of IL Urbana-Champaign	31,887	33,684	37,004	39,942	11,668	25,722	2,332	220
84 Univ of Hawaii at Manoa	31,608	36,536	38,123	36,896	5,354	5,698	16,406	9,438
85 Rush University	27,465	30,034	32,178	36,405	0	7,067	28,121	1,217
86 Oregon State University	40,011	38,305	35,793	36,364	21,261	11,940	1,758	1,405
87 U of South Florida	14,694	21,731	29,878	35,731	0	1,447	33,877	407
88 SUNY at Albany	23,274	34,434	50,670	35,658	0	35,658	0	0
89 NC State University	23,450	21,277	27,299	34,246	9,968	23,184	0	1,094
90 U of Arkansas Medical Sci	21,857	26,392	29,962	34,219	0	13,690	20,529	0
Total, 1st 90 institutions	7,139,095	7,765,953	8,731,458	9,697,149	331,674	3,163,710	5,827,810	373,955
91 California Inst of Tech	31,416	26,077	28,580	31,553	0	31,553	0	0
92 Rutgers the State U NJ	24,892	26,225	28,157	30,684	8,741	14,047	7,676	220
93 Brown University	19,938	21,568	26,011	29,599	0	2,850	20,246	6,503
94 Washington State U	28,160	27,895	29,653	29,223	8,707	17,767	868	1,881
95 University of Oklahoma	26,845	28,928	25,532	28,057	0	15,794	11,505	758
96 U TX at Austin	18,220	20,222	24,953	27,681	0	20,227	7,138	316
97 C R Drew U of Med & Sci	16,052	22,212	21,969	27,415	0	0	27,415	0
98 Saint Louis University	22,595	23,239	25,809	27,229	0	10,347	12,307	4,575
99 Iowa State University	20,402	21,345	22,669	25,448	11,822	11,301	1,958	367
100 Temple University	21,568	21,570	23,947	25,133	0	12,492	11,345	1,296
Total, 1st 100 institutions	7,369,183	8,005,234	8,988,738	9,979,171	360,944	3,300,088	5,928,268	389,871

See explanatory information and SOURCE at end of table.

Table B-59. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the life sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
101 George Washington U	13,989	15,349	14,073	23,062	0	722	22,340	0
102 Mississippi State U	17,370	17,460	21,170	22,869	21,628	348	872	21
103 SUNY Hlth Sci Ctr Brklyn	18,318	21,053	22,860	22,860e	0e	15,089e	7,771e	0
104 MCP Hahnemann U	61,102	17,039	27,127	22,599	0	10,943	10,139	1,517
105 VA Polytech Inst & St U	18,391	18,472	20,481	22,598	14,207	4,263	1,256	2,872
106 U of Nebraska Med Ctr	15,663	17,167	19,878	22,497	0	15,539	6,958	0
107 Loyola U of Chicago	15,676	15,904	16,720	21,694	0	11,371	10,142	181
108 Medical Col of Georgia	13,127	13,991	15,210	21,116	0	13,137	7,963	16
109 U of Nebraska at Lincoln	22,279 i	14,120	14,269	20,905	10,472	9,723	0	710
110 University of Louisville	11,308	11,227	13,668	19,988	0	7,108	11,684	1,196
Total, 1st 110 institutions	7,576,406	8,167,016	9,174,194	10,199,359	407,251	3,388,331	6,007,393	396,384
111 U PR Med Sci Campus	11,843	13,971	16,657	19,433	0	0	19,433	0
112 New York Medical College	13,639	14,029	17,975	18,344	0	11,666	6,678	0
113 TX A&M U Sys Hlth Sci Ctr	--	--	14,314	18,335	0	301	18,034	0
114 Howard University	12,066	12,248	15,284	18,240	0	11,205	7,031	4
115 Morehouse School of Med	12,060	12,948	15,419	18,127	0	10,110	8,017	0
116 Princeton University	11,424	13,148	15,571	17,546	0	17,546	0	0
117 Loma Linda University	7,834	12,217	15,930	17,367 i	0 i	4,662 i	12,705 i	0
118 Brandeis University	14,762	14,534	14,241	17,263	0	17,263	0	0
119 U of Nevada Reno	12,327	12,467	13,435	16,950	1,728	11,329	3,731	162
120 Kansas State University	13,771	14,633	15,941	16,563	8,562	7,925	76	0
Total, 1st 120 institutions	7,686,132	8,287,211	9,328,961	10,377,527	417,541	3,480,338	6,083,098	396,550
121 U of MD at College Park	11,181	12,280	11,573	16,447	6,657	6,448	0	3,342
122 Montana St U Bozeman	12,094	12,751	14,484	16,155	9,538	6,405	0	212
123 University of Oregon	11,903	12,169	15,174	16,016	0	6,911	9,105	0
124 Clemson University	14,996	14,718	17,023	15,698	11,174	4,451	73	0
125 West Virginia University	10,774	10,603	13,420	15,671	2,329	4,122	9,220	0
126 Auburn University	11,062	9,971	12,106	15,444	8,791	3,162	1,233	2,258
127 Utah State University	13,189	14,747	16,066	14,796	9,168	2,489	3,132	7
128 U of MA Amherst	10,256	10,892	12,934	14,740	3,988	9,489	342	921
129 U of Alaska Fairbanks	4,841 i	6,254	8,412	14,575	7,283	6,993	0	299
130 Univ of Montana, The	9,047	11,368	13,772	14,417	4,180	6,580	2,658	999
Total, 1st 130 institutions	7,795,475	8,402,964	9,463,925	10,531,486	480,649	3,537,388	6,108,861	404,588
131 University of Idaho	13,446	16,173	12,180	14,206	10,733	3,121	349	3
132 U of South Carolina	8,925	12,433	14,074	14,110	0	3,726	9,692	692
133 Florida A&M University	8,888	11,778	9,364	13,759	5,605	6,345	161	1,648
134 U CA Riverside	9,242	7,511	7,696	12,700	3,470	7,732	1,498	0
135 San Diego St University	11,024	10,643	10,332	11,931	128	6,249	4,938	616
136 Oklahoma State University	9,232	9,637	11,709	11,395	4,412	5,739	942	302
137 Eastern VA Med School	9,449	11,354	12,114	11,389	0	3,819	7,570	0
138 Med Col of Ohio	8,107	9,219	9,944	11,362	0	8,495	2,386	481
139 SUNY Upstate Med U	6,487	7,889	8,461	10,824	0	6,257	4,567	0
140 U of Arkansas Main	8,196	8,939	10,059	10,704	9,170	923	0	611
Total, 1st 140 institutions	7,888,471	8,508,540	9,569,858	10,653,866	514,167	3,589,794	6,140,964	408,941

See explanatory information and SOURCE at end of table.

Table B-59. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the life sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
141 Wright State University	7,081	8,241	8,064	10,229	0	928	9,301	0
142 Unif Svcs U of Hlth Sci	7,547	9,696	11,023	10,105	0	3,284	6,821	0
143 Meharry Medical College	10,331e	8,865	8,865e	9,660 i	0 i	4,993 i	4,361 i	306
144 University of Wyoming	8,552	10,042	7,787	8,870	4,713	3,828	329	0
145 Texas Tech University	5,207	5,595	6,837	8,865	1,749	6,017	623	476
146 Albany Medical College	6,545	7,437	7,691	8,562	0	8,176	386	0
147 Arizona State University	6,371	7,285	7,705	8,385	736	6,178	0	1,471
148 U Mississippi, All Camp	10,825	2,926	13,333	8,331	0	896	7,435	0
149 U of LA Lafayette	2,571	2,840	8,190	8,311	41	2,115	6,155	0
150 Carnegie Mellon U	6,926	6,249	7,760	8,271	0	4,789	0	3,482
Total, 1st 150 institutions	7,960,427	8,577,716	9,657,113	10,743,455	521,406	3,630,998	6,176,375	414,676
Total, all other sampled institutions	370,138	363,500	401,979	435,234	91,944	241,152	72,284	29,854

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: -- = not available
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-60. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the agricultural sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	1,995,484	2,035,149	2,175,269	2,318,081	533,362	544,702	577,443	613,350
1 U CA Davis	106,546	104,295	128,145	105,152	28,416	28,573	34,870	22,873
2 University of Florida	72,476	87,218	87,305	102,287	11,111	12,776	12,857	16,777
3 University of Georgia	73,069	75,994	87,415	89,594	12,355	12,238	14,600	14,501
4 NC State University	60,168	72,724	70,131	73,787	8,259	8,152	10,169	9,968
5 Mississippi State U	55,294	57,964	68,358	72,172	16,127	16,490	20,283	21,628
6 Pennsylvania State U	23,151	23,190	63,436	70,405	5,494	6,099	14,236	14,680
7 Texas A&M University	59,860	57,792	66,793	69,231	15,812	14,068	14,226	17,270
8 Michigan State University	54,954	58,591	61,454	68,798	11,320	12,697	12,575	14,722
9 VA Polytech Inst & St U	54,399	59,805	63,870	68,669	14,582	14,411	14,440	14,207
10 University of Minnesota	55,693	58,619	60,482	68,399	10,424	10,790	13,217	14,696
Total, 1st 10 institutions	615,610	656,192	757,389	788,494	133,900	136,294	161,473	161,322
11 U CA Berkeley	53,831	26,553	27,948	68,053	13,167	2,822	2,957	18,182
12 Cornell University	45,628	48,153	52,517	64,188	12,154	12,719	13,758	17,221
13 Colorado State University	42,874	56,396	57,129	63,426	23,151	32,246	38,093	35,204
14 University of Kentucky	50,143	52,996	56,606	56,652	4,472	8,197	8,506	9,160
15 Oregon State University	57,866	55,105	52,052	56,223	27,826	25,608	21,950	21,261
16 Louisiana State U System	52,166	52,601	54,345	55,497	1,954	4,476	4,268	5,617
17 U of Missouri Columbia	43,951	48,200	48,455	52,127	11,304	13,752	17,318	15,542
18 U of IL Urbana-Champaign	40,450	45,334	48,239	50,984	8,790	9,814	11,049	11,668
19 University of Arizona	46,049	45,495	46,745	49,212	13,850	14,366	13,887	15,380
20 U of Arkansas Main	45,060	42,254	45,525	48,697	7,862	8,347	8,968	9,170
Total, 1st 20 institutions	1,093,628	1,129,279	1,246,950	1,353,553	258,430	268,641	302,227	319,727
21 Iowa State University	38,808	40,154	42,644	48,689	9,615	9,416	10,250	11,822
22 U of Nebraska at Lincoln	54,227 i	40,257	40,692	46,128	16,974 i	8,323	8,368	10,472
23 North Dakota State U	30,113	31,589	33,003	45,518	4,062	3,592	4,556	4,514
24 Purdue University	35,625	38,538	42,348	43,419	7,821	9,052	9,863	8,567
25 Kansas State University	38,347	41,091	43,595	43,352	6,562	7,505	8,558	8,562
26 U of WI-Madison	28,767	33,223	38,597	40,912	8,301	8,305	10,572	12,757
27 Ohio State University	51,776	45,548	44,558	40,794	10,281	13,773	6,821	8,134
28 Auburn University	36,228	37,693	40,941	38,916	7,367	6,111	7,952	8,791
29 Clemson University	25,778	23,451	27,124	37,620	8,063	6,389	7,389	11,174
30 Rutgers the State U NJ	30,425	32,266	34,199	37,103	5,300	6,243	6,934	8,741
Total, 1st 30 institutions	1,463,722	1,493,089	1,634,651	1,776,004	342,776	347,350	383,490	413,261
31 University of Idaho	33,782	33,437	31,765	33,879	9,843	12,234	9,111	10,733
32 Montana St U Bozeman	23,132	24,454	29,341	31,020	5,855	6,994	8,375	9,538
33 U of MD at College Park	27,036	25,565	18,670	29,836	6,068	5,088	2,766	6,657
34 Oklahoma State University	26,528	26,327	26,625	27,169	4,567	4,316	4,509	4,412
35 Washington State U	24,214	22,959	25,070	26,130	7,925	7,292	7,785	8,707
36 U of Tennessee System	28,216	30,481	28,762	24,050	4,786	5,443	5,684	2,248
37 U CA Riverside	23,552	21,974	24,419	23,315	2,241	2,209	2,334	3,470
38 Utah State University	21,294	22,692	22,774	21,080	8,531	9,487	10,641	9,168
39 U of Washington	16,167	16,516	17,003	19,562	11,160	10,939	10,619	11,453
40 New Mexico State Univ	13,880	15,672	17,331	17,650	5,071	5,456	6,167	6,423
Total, 1st 40 institutions	1,701,523	1,733,166	1,876,411	2,029,695	408,823	416,808	451,481	486,070
41 University of Delaware	14,927	14,657	16,566	17,231	2,367	2,335	3,125	4,272
42 Univ of Hawaii at Manoa	18,099	19,409	18,585	13,441	6,737	8,322	8,284	5,354
43 University of Wyoming	11,805	11,822	13,590	11,745	5,427	6,570	4,903	4,713
44 Texas Tech University	9,030	10,365	11,153	11,705	1,472	1,392	1,400	1,749
45 South Dakota State U	10,361	10,436	10,857	11,635	3,621	3,419	3,948	3,945
46 U of Nevada Reno	6,788	5,149	10,296	11,564	2,036	2,077	1,352	1,728
47 U of MA Amherst	16,364	16,051	13,932	11,275	4,859	5,184	3,603	3,988
48 U of Maine	5,556	6,550	7,297	10,066	1,823	2,262	2,896	2,987
49 West Virginia University	6,222	7,195	7,566	8,860	1,382	1,510	2,113	2,329
50 S Illinois U Carbondale	5,817	6,116	9,120	8,786	981	974	1,827	1,737
Total, 1st 50 institutions	1,806,492	1,840,916	1,995,373	2,146,003	439,528	450,853	484,932	518,872

See explanatory information and SOURCE at end of table.

Table B-60. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the agricultural sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 University of Connecticut	7,331	7,933	9,953	7,881	1,171	1,384	1,723	2,909
52 U of Alaska Fairbanks	9,136 i	7,374	8,509	7,814	1,668 i	2,465	3,315	7,283
53 Univ of Montana, The	5,623	6,135	8,012	7,776	3,118	3,470	4,898	4,180
54 U CA Los Angeles	0	0	0	7,362	0	0	0	0
55 Prairie View A&M U	3,357	4,209	4,339	6,561	3,230	3,058	2,938	2,837
56 U MD Biotechnology Inst	5,723	5,599	5,379	6,110	1,997	2,356	2,004	1,901
57 U of New Hampshire	4,918	4,845	4,818	5,689	1,089	1,224	1,186	1,440
58 University of Vermont	5,681	5,436	5,203	5,641	2,400	2,500	2,230	2,313
59 Florida A&M University	4,737	5,094	4,887	5,605	3,506	4,647	4,335	5,605
60 U of Rhode Island	4,781	5,648	7,592	5,260	4,219	4,854	6,176	5,115
Total, 1st 60 institutions	1,857,779	1,893,189	2,054,065	2,211,702	461,926	476,811	513,737	552,455
61 Alcorn State University	3,913	3,863	5,903	4,735	3,913	3,863	5,903	4,735
62 NC A&T State University	2,879	3,314	3,362	4,544	2,396	2,503	2,574	2,167
63 Texas A&M Univ Kingsville	4,002	3,651	4,252	4,358	495	395	440	235
64 University of Michigan	2,592	2,167	4,114	4,313	1,533	600	1,562	1,531
65 SUNY Col Env Sci & Frstry	3,293 i	3,887	4,086e	4,228e	359 i	516	577e	588e
66 Northern Arizona U	2,059	1,987	2,609	4,160	710	695	988	2,442
67 Tennessee State U	3,462	3,821	3,817	3,822	2,314	2,548	2,469	2,427
68 Michigan Tech University	3,146	3,479	3,076	3,800	2,309	2,683	2,454	2,151
69 Alabama A&M University	4,734	4,476	3,179	3,466 i	3,421	3,505	2,676	2,943 i
70 Kentucky State University	514	514e	1,934 i	3,355	504	504e	1,768 i	3,014
Total, 1st 70 institutions	1,888,373	1,924,348	2,090,397	2,252,483	479,880	494,623	535,148	574,688
71 CA St U Fresno	5,810 i	6,524 i	4,314	3,135	257 i	287 i	451	229
72 Virginia State University	1,597	2,297	3,125	3,125	1,051	1,747	2,305	2,305
73 U Arkansas Pine Bluff	3,077	3,077e	3,077 i	3,077 i	2,225	2,225e	2,225 i	2,225 i
74 Langston University	2,031	2,340	2,553	2,863	2,031	2,340	2,553	2,863
75 Southern U A&M All Camp	2,639	2,627	2,552	2,783 i	1,946	1,821	2,044	2,248 i
76 Humboldt State University	2,249	2,448	2,448e	2,767 i	1,455	1,580	1,580e	1,769 i
77 Tarleton State University	16	1	10	2,530	0	0	0	2,485
78 Fort Valley State U	2,696	2,674	2,520	2,520e	2,281	2,268	2,373	2,373e
79 Stephen F Austin St U	2,420	3,477	3,927	2,489	408	434	458	668
80 Cal Poly St U	855	2,197	2,921	2,292	39	963	1,082	92
Total, 1st 80 institutions	1,911,763	1,952,010	2,117,844	2,280,064	491,573	508,288	550,219	591,945
81 U of MD Eastern Shore	1,200	1,683	1,319	2,292	1,200	1,683	1,319	2,292
82 Lincoln University	3,031 i	2,405	2,207	2,236	2,381 i	2,405	2,207	2,236
83 University of Guam	1,223	1,212	1,957	2,199	1,206	1,201e	1,957	2,199
84 Tuskegee University	15,305	2,121	2,044	2,176	10,906	1,975	1,905	2,030
85 U CA Santa Cruz	1,276	1,488	1,911	2,141	28	30	152	296
86 Harvey Mudd College	0 i	1,452 i	1,452 i	1,641 i	0 i	277 i	277 i	310 i
87 Yale University	1,529	1,548	1,278	1,609	776	752	402	756
88 U of the Virgin Islands	1,821e	1,466e	1,466e	1,466 i	1,818e	1,466e	1,466e	1,466 i
89 Delaware State University	1,964	1,509	2,075	1,383	1,839	1,143	1,954	1,116
90 Arizona State University	706	693	1,183	1,327	304	320	700	736
Total, 1st 90 institutions	1,939,818	1,967,587	2,134,736	2,298,534	512,031	519,540	562,558	605,382

See explanatory information and SOURCE at end of table.

Table B-60. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the agricultural sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 West Texas A&M U	2,130	1,946	1,393	1,299	4	6	25	12
92 U of Northern Iowa	146	706	939	1,282	64	228	335	345
93 Brigham Young University	38	656	1,366	1,192	8	200	570	526
94 University of DC	727	847	803	1,094	362	426	407	440
95 Illinois State University	468e	762	781 i	993	147e	0	0 i	0
96 Western Illinois U	1,613	1,093	1,138	938	1,122	420	982	931
97 U of WI-Stevens Point	888	1,048	718	861	251	185	115	130
98 U of Pennsylvania	92	301	519	860	0	51	295	837
99 U of NC Wilmington	45	117	532	852	45	37	242	367
100 San Francisco State U	0 i	717 i	724 i	724 i	0 i	486 i	611 i	611 i
Total, 1st 100 institutions	1,945,965	1,975,780	2,143,649	2,308,629	514,034	521,579	566,140	609,581
Total, all other sampled institutions	49,519	59,369	31,620	9,452	19,328	23,123	11,303	3,769

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-61. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the biological sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	4,580,830	5,029,285	5,613,179	5,943,596	2,935,562	3,214,280	3,649,980	3,872,150
1 Baylor Col of Medicine	102,767	134,205	161,269	206,458	66,773	85,138	115,970	153,250
2 Washington University	95,844	121,658	152,562	172,778	72,471	93,845	117,727	130,763
3 U of Pennsylvania	98,883	116,607	133,269	139,556	74,506	89,125	102,380	112,144
4 Rockefeller U, The	105,085	110,870	112,967	131,770	36,524	37,924	37,997	46,674
5 U of WI-Madison	86,299	109,170	119,722	127,460	45,740	54,115	61,131	65,058
6 U CA Davis	45,546	62,830	84,997	119,269	16,220	25,046	35,990	40,033
7 Johns Hopkins U	79,603 i	89,017	98,701	111,540	61,961 i	69,030	78,137	89,607
8 U of Washington	83,666	98,301	111,425	102,824	69,824	75,050	77,047	78,281
9 U TX SW Med Ctr at Dallas	70,310	73,654	87,243	102,724	48,414	48,467	54,978	65,277
10 U of NC Chapel Hill	77,094	80,602	87,196	96,387	59,372	60,698	66,577	73,616
Total, 1st 10 institutions	845,097	996,914	1,149,351	1,310,766	551,805	638,438	747,934	854,703
11 Harvard University	98,793	108,751	90,740	92,150	87,418	95,605	77,164	77,780
12 Yale University	73,251	78,469	86,408	90,292	61,187	65,121	72,024	74,531
13 University of Michigan	81,606	77,403	83,497	90,204	55,139	57,611	60,459	65,246
14 U TX MD Anderson Cncr Ctr	61,342	67,760	76,021	84,749	27,871	32,330	37,732	40,098
15 Columbia U in City of NY	67,051	75,186	78,329	84,359	59,234	64,933	71,417	77,148
16 Tufts University	65,091	71,567	73,036	73,730	46,613	48,542	49,247	54,948
17 University of Georgia	57,443	64,073	68,244	73,668	27,760	27,675	29,784	31,617
18 Duke University	52,402	62,002	66,887	73,228	44,178	51,986	54,605	60,533
19 Michigan State University	51,575	55,665	64,601	71,116	26,600	28,137	28,080	32,128
20 NC State University	59,658	58,039	63,084	69,462	14,900	12,774	16,409	23,184
Total, 1st 20 institutions	1,513,309	1,715,829	1,900,198	2,113,724	1,002,705	1,123,152	1,244,855	1,391,916
21 Vanderbilt University	55,890	57,323	69,404	68,259	48,206	47,819	56,644	57,147
22 University of Arizona	51,099	50,545	57,167	66,847	27,714	27,421	32,101	39,746
23 U CA Irvine	46,390	48,952	57,143	66,508	28,833	33,036	39,950	47,114
24 Mt Sinai Sch Med	39,868	49,611	58,576	66,120	30,207	38,074	43,900	38,307
25 U of Alabama Birmingham	59,679	62,859	66,291	65,554	45,928	49,015	51,231	55,766
26 Cornell University	52,606	49,823	52,559	64,047	29,908	28,645	29,243	34,128
27 Northwestern University	53,124	51,343	57,705	62,340	35,196	37,665	41,056	43,707
28 Louisiana State U System	42,916	50,931	56,366	62,038	25,422	29,572	32,581	33,067
29 U CA Berkeley	57,018	84,488	105,170	59,752	38,030	48,568	59,746	44,244
30 U Med & Dent of NJ	45,160	50,211	55,491	59,076	27,962	32,100	37,135	40,327
Total, 1st 30 institutions	2,017,059	2,271,915	2,536,070	2,754,265	1,340,111	1,495,067	1,668,442	1,825,469
31 MA Institute of Tech	42,744	52,411	57,181	58,635	33,826	40,848	44,122	46,892
32 Ohio State University	43,622	46,073	52,365	58,416	24,693	24,205	28,026	31,400
33 University of Colorado	41,438	40,601	48,258	55,001	32,731	34,279	41,457	46,408
34 University of Minnesota	50,431	53,502	54,228	54,865	33,549	35,396	33,317	33,857
35 SUNY at Stony Brook	42,708	44,046	49,072	54,662	28,204	28,424	30,859	30,050
36 Purdue University	43,305	44,636	46,279	52,406	17,283	17,221	18,839	24,159
37 Emory University	37,531	40,742	44,884	51,160	31,097	33,978	37,809	42,981
38 University of Cincinnati	45,159	42,373	45,463	50,764	29,132	30,223	34,337	39,300
39 U of Iowa	34,996	37,860	44,149	50,154	21,700	23,798	27,879	31,580
40 University of Kansas	37,581	41,879	47,159	49,805	20,141	19,769	22,870	27,021
Total, 1st 40 institutions	2,436,574	2,716,038	3,025,108	3,290,133	1,612,467	1,783,208	1,987,957	2,179,117
41 University of Chicago	33,593	35,140	38,325	49,696	28,013	30,216	30,813	41,020
42 Case Western Reserve U	42,420	45,270	50,163	49,514	31,789	34,726	39,255	39,596
43 U TX Med Br at Galveston	0	43,909	41,471	49,447	0	27,303	27,499	30,234
44 U of IL Chicago	27,997	32,830	39,590	49,407	16,080	19,257	23,236	30,786
45 University of Florida	45,592	51,030	34,476	48,437	23,676	29,159	18,674	28,912
46 U of IL Urbana-Champaign	34,894	35,384	41,353	48,419	21,253	22,213	24,162	25,722
47 New York University	41,339	43,356	44,200	46,407	33,767	33,815	34,497	35,504
48 Thomas Jefferson U	37,076	39,632	42,590	45,390	30,322	29,724	34,650	36,280
49 Indiana University	34,999	38,367	40,531	44,528	22,259	24,406	25,511	28,240
50 Rutgers the State U NJ	40,216	39,776	42,223	41,922	11,162	11,494	13,960	14,047
Total, 1st 50 institutions	2,774,700	3,120,732	3,440,030	3,763,300	1,830,788	2,045,521	2,260,214	2,489,458

See explanatory information and SOURCE at end of table.

Table B-61. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the biological sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 University of Rochester	32,171	30,292	37,694	41,874	26,412	24,938	31,985	34,525
52 University of Virginia	28,444	31,679	36,926	41,679	22,523	25,914	30,570	34,493
53 Oregon Health & Science U	28,179 i	31,026 i	51,801	41,636	24,220 i	28,203 i	45,755	38,459
54 SUNY at Albany	28,221	38,486	55,159	41,335	23,274	34,434	50,670	35,658
55 U TX Hlth Sci Ctr San Ant	30,312	31,316	34,974	40,249	22,118	23,446	25,949	28,678
56 University of Connecticut	26,519	28,864	35,293	39,168	14,489	15,804	19,300	23,167
57 Washington State U	35,230	36,994	38,726	38,620	18,043	18,217	19,328	17,767
58 UT Houston Hlth Sci Ctr	23,716	24,590	33,997	38,043	16,123	17,247	25,855	28,243
59 U CA San Diego	21,625	35,619	40,608	37,957	15,227	26,043	30,260	26,145
60 SUNY at Buffalo	43,013	47,346	52,362	36,465	27,738	29,596	33,921	23,661
Total, 1st 60 institutions	3,072,130	3,456,944	3,857,570	4,160,326	2,040,955	2,289,363	2,573,807	2,780,254
61 University of Utah	30,992	26,549	34,153	36,329	24,931	23,490	27,856	26,220
62 Yeshiva University	24,000	27,093	33,843	35,931	18,400	21,738	24,635	26,131
63 U of MD Baltimore	21,498	21,135	33,652	35,851	11,706	12,677	13,682	14,864
64 U of MA Worcester	29,038	30,079	32,296	35,724	26,023	26,301	28,016	32,419
65 U CA Riverside	25,184	22,588	20,527	34,875	6,541	4,731	4,198	7,732
66 Medical Col of Wisconsin	20,448	22,674	28,980	34,617	15,998	17,375	22,597	26,420
67 U of Nebraska Med Ctr	29,850	34,363	31,245	34,607	10,148	12,732	14,558	15,539
68 U of Missouri Columbia	28,980	29,330	30,760	33,827	11,328	11,459	13,250	15,316
69 California Inst of Tech	32,425	26,791	31,931	33,779	31,416	26,077	28,580	31,553
70 Iowa State University	31,045	32,699	32,227	33,480	9,505	10,270	10,819	11,301
Total, 1st 70 institutions	3,345,590	3,730,245	4,167,184	4,509,346	2,206,951	2,456,213	2,761,998	2,987,749
71 Texas A&M University	88,641	87,757	33,216	32,798	20,423	18,399	10,146	8,426
72 U of Tennessee System	23,363	22,621	27,690	31,864	16,148	15,550	19,293	24,553
73 University of New Mexico	20,134	19,727	25,465	31,014	15,085	15,098	21,075	23,076
74 U of Nebraska at Lincoln	12,986 i	20,762	21,964	30,927	3,929 i	5,550	5,649	9,723
75 Med U of South Carolina	13,848 i	17,804e	19,688	30,502	8,130	11,056	13,017	19,961
76 Medical Col of Georgia	20,246	21,783	27,765	30,271	7,561	8,825	10,294	13,137
77 U TX at Austin	16,100	21,507	26,891	29,195	12,589	14,733	18,409	20,227
78 University of Oklahoma	23,860	26,202	26,916	28,644	13,559	14,314	13,005	15,794
79 Virginia Commonwealth U	23,729	24,843	26,825	28,591	17,491	18,163	18,574	20,107
80 Oregon State University	21,883	25,311	26,003	28,355	10,497	10,745	11,155	11,940
Total, 1st 80 institutions	3,610,380	4,018,562	4,429,607	4,811,507	2,332,363	2,588,646	2,902,615	3,154,693
81 Pennsylvania State U	46,249	53,873	56,446	27,305	20,790	32,794	35,919	14,688
82 Princeton University	17,843	19,429	23,185	26,431	11,424	13,148	15,571	17,546
83 University of Vermont	17,619	20,324	21,253	23,789	12,569	15,413	16,863	17,865
84 Brandeis University	20,304	20,127	20,159	22,902	14,762	14,534	14,241	17,263
85 U CA San Francisco	0	0	59,650	22,878	0	0	45,399	16,074
86 University of Miami	18,103	18,474	20,681	21,616	14,783	15,210	16,444	16,816
87 University of Louisville	9,221	15,049	16,841	19,270	4,580	4,761	5,624	7,108
88 U CA Los Angeles	50,563	47,043	51,743	18,799	36,659	31,370	33,860	10,801
89 SUNY Hlth Sci Ctr Brklyn	7,633	17,322	18,509	18,509e	4,604	14,272	15,089	15,089e
90 Colorado State University	23,940	30,081	31,277	18,474	13,233	17,158	18,694	7,262
Total, 1st 90 institutions	3,821,855	4,260,284	4,749,351	5,031,480	2,465,767	2,747,306	3,120,319	3,295,205

See explanatory information and SOURCE at end of table.

Table B-61. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the biological sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 Oklahoma State University	10,421	14,784	17,554	18,430	4,404	5,028	6,459	5,739
92 U MD Biotechnology Inst	18,024	17,633	16,940	18,007	4,765	5,623	6,311	6,107
93 U of Arkansas Medical Sci	7,112	12,489	11,461	17,946	6,661	8,786	9,959	13,690
94 Temple University	19,655	21,905	15,256	16,645	12,220	13,509	12,044	12,492
95 Kansas State University	15,689	15,511	15,881	16,575	7,206	7,099	7,346	7,925
96 U of MA Amherst	7,256	7,831	15,612	15,453	4,363	4,730	8,478	9,489
97 U of Nevada Reno	11,015	10,416	11,815	15,016	7,777	7,934	9,016	11,329
98 Stanford University	10,837	13,799	15,361	14,984	8,712	11,594	12,315	11,388
99 Loyola U of Chicago	13,570	12,443	11,203	14,616	9,131	8,485	7,944	11,371
100 New York Medical College	10,916	11,656	11,800	13,990	8,374	9,086	9,505	11,666
Total, 1st 100 institutions	3,946,350	4,398,751	4,892,234	5,193,142	2,539,380	2,829,180	3,209,696	3,396,401
Total, all other sampled institutions	634,480	630,534	720,945	750,454	396,182	385,100	440,284	475,749

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-62. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the medical sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	7,471,677	7,993,971	8,986,177	10,176,728	4,559,251	4,861,041	5,441,759	6,248,659
1 U CA San Francisco	379,970	417,095	369,884	486,729	219,630	233,181	193,883	249,791
2 U CA Los Angeles	262,859	280,259	312,078	462,136	122,774	138,132	152,515	208,134
3 Johns Hopkins U	228,317 i	242,613	258,324	298,656	176,533 i	190,804	202,668	235,267
4 University of Pittsburgh	172,822	202,368	237,966	279,251	138,271	159,532	186,326	219,767
5 U of Washington	184,673	208,752	239,350	279,027	138,569	158,060	177,807	206,149
6 Stanford University	184,049	202,810	242,679	260,328	145,985	162,450	186,983	203,098
7 Duke University	175,432	227,513	230,670	239,127	88,740	90,674	104,471	110,770
8 U CA San Diego	176,274	179,946	213,430	235,301	111,688	109,662	124,941	137,598
9 U of Pennsylvania	160,236	176,630	199,489	230,791	118,314	131,420	148,823	176,736
10 University of Minnesota	148,478	148,885	173,794	200,593	97,374	97,117	111,373	130,966
Total, 1st 10 institutions	2,073,110	2,286,871	2,477,664	2,971,939	1,357,878	1,471,032	1,589,790	1,878,276
11 U of WI-Madison	146,515	166,138	179,773	198,242	71,332	70,011	74,842	78,722
12 U of MD Baltimore	114,657	112,723	179,477	191,206	62,430	67,613	72,969	79,273
13 Yale University	150,623	156,104	169,786	187,848	112,451	117,149	130,375	139,922
14 Harvard University	96,679	112,668	153,796	186,454	76,573	87,613	129,901	154,340
15 University of Michigan	169,739	159,844	183,043	186,148	105,041	101,076	112,859	117,552
16 Washington University	134,460	150,302	164,561	185,732	86,250	94,916	106,261	121,071
17 Baylor Col of Medicine	113,761	137,993	172,906	175,003	43,837	55,973	77,279	81,144
18 U of Southern California	128,732	133,378	148,314	169,220	81,569	84,793	91,893	109,489
19 Cornell University	117,170	124,879	138,082	156,146	68,326	74,618	82,343	93,161
20 Columbia U in City of NY	103,503	109,152	132,827	154,959	85,197	88,544	113,332	134,102
Total, 1st 20 institutions	3,348,949	3,650,052	4,100,229	4,762,897	2,150,884	2,313,338	2,581,844	2,987,052
21 U of Alabama Birmingham	150,571	150,941	149,166	149,791	108,723	103,675	111,146	126,192
22 Wayne State University	99,380	108,818	116,063	134,074	43,857	44,983	50,451	60,743
23 U of Iowa	110,821	116,988	135,912	131,647	67,335	72,901	84,526	79,779
24 Emory University	98,669	109,007	115,760	129,895	61,269	68,489	74,023	87,296
25 University of Colorado	97,047	105,120	111,438	122,409	70,452	80,370	93,510	100,540
26 U TX SW Med Ctr at Dallas	83,166	91,496	101,518	119,045	48,602	53,209	53,847	65,992
27 U of NC Chapel Hill	85,172	90,829	99,553	116,484	67,008	71,610	76,970	90,714
28 U TX MD Anderson Cncr Ctr	73,758	80,063	97,326	116,247	32,476	33,686	40,231	48,725
29 U of South Florida	61,344	80,608	91,892	112,226	14,157	21,188	28,399	33,877
30 U of IL Chicago	76,133	86,864	94,381	111,543	37,183	42,909	48,167	59,277
Total, 1st 30 institutions	4,285,010	4,670,786	5,213,238	6,006,258	2,701,946	2,906,358	3,243,114	3,740,187
31 Mt Sinai Sch Med	69,580	78,154	91,270	110,826	39,788	46,550	54,288	71,037
32 Boston University	76,460	86,658	95,805	108,662	61,463	73,418	81,463	92,068
33 University of Rochester	74,785	75,767	81,799	108,323	47,813	48,650	53,561	65,913
34 Case Western Reserve U	90,884	97,140	103,269	103,459	74,591	79,194	86,372	93,650
35 U Med & Dent of NJ	69,331	76,066	85,460	103,341	31,866	29,630	38,183	45,727
36 Indiana University	70,782	75,755	87,059	99,307	39,839	43,415	46,910	51,688
37 University of Cincinnati	84,419	71,409	84,952	98,809	44,963	52,887	60,122	72,679
38 University of Chicago	69,343	72,861	82,954	97,357	59,667	61,186	66,148	74,222
39 Northwestern University	73,987	88,008	87,605	96,134	38,843	40,965	50,440	55,630
40 Wake Forest University	75,480	80,678	85,083	95,714	55,568	58,868	64,663	76,655
Total, 1st 40 institutions	5,040,061	5,473,282	6,098,494	7,028,190	3,196,347	3,441,121	3,845,264	4,439,456
41 University of Florida	58,587	68,348	95,009	94,164	28,364	32,326	38,784	37,065
42 U CA Davis	80,792	81,734	79,361	92,150	43,409	45,165	39,118	43,769
43 University of Kentucky	62,164	67,909	82,698	91,612	35,993	37,086	40,070	49,211
44 University of Miami	74,257	79,299	82,709	86,099	47,239	48,646	51,783	53,767
45 University of Arizona	53,700	60,917	74,590	85,213	31,479	36,930	42,825	48,748
46 SUNY at Buffalo	43,556	51,472	63,675	83,824	16,871	23,637	28,453	39,463
47 Georgetown University	92,522	85,697e	107,609	81,472	68,439	66,170	82,703	77,266
48 Ohio State University	57,282	66,430	80,300	81,376	31,983	34,223	37,533	43,684
49 Yeshiva University	54,000	60,965	76,148	80,845	44,000	48,914	55,430	58,794
50 UT Houston Hlth Sci Ctr	67,368	69,756	68,805	80,144	47,636	46,343	44,657	58,522
Total, 1st 50 institutions	5,684,289	6,165,809	6,909,398	7,885,089	3,591,760	3,860,561	4,306,620	4,949,745

See explanatory information and SOURCE at end of table.

Table B-62. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the medical sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 Oregon Health & Science U	73,212 i	80,613 i	65,485	78,024	50,788 i	59,138 i	50,027	57,842
52 U TX Hlth Sci Ctr San Ant	52,045	56,488	68,850	74,905	29,836	33,458	39,302	42,475
53 New York University	47,809	54,225	64,090	74,482	27,970	31,967	34,990	40,319
54 Vanderbilt University	45,505	52,456	59,285	73,053	31,623	36,745	39,046	52,764
55 Dartmouth College	47,545	51,140	56,534	70,666	33,129	33,898	39,111	44,644
56 University of Utah	38,269	66,691	52,488	58,897	30,127	42,186	41,447	43,445
57 Med U of South Carolina	29,028 i	28,395e	31,648	58,654	16,107	15,457	19,236	28,456
58 University of Virginia	56,724	48,544	52,593	56,158	36,432	39,540	43,464	46,338
59 Virginia Commonwealth U	45,006	42,880	46,724	54,798	25,062	23,477	25,707	27,521
60 Rush University	40,024	44,802	52,830	53,634	19,531	21,752	25,223	28,121
Total, 1st 60 institutions	6,159,456	6,692,043	7,459,925	8,538,360	3,892,365	4,198,179	4,664,173	5,361,670
61 U TX Med Br at Galveston	85,150	48,263	54,655	51,430	48,310	27,456	33,022	33,652
62 Texas A&M University	10,592	19,097	46,591	51,233	7,375	11,186	13,244	15,289
63 U CA Irvine	38,868	45,305	49,477	51,110	12,378	15,406	20,830	20,759
64 University of Connecticut	43,083	42,471	50,379	50,147	19,884	20,281	24,380	20,916
65 Medical Col of Wisconsin	35,573	38,772	41,601	49,240	27,833	29,712	32,437	37,583
66 Pennsylvania State U	26,030	21,693	23,825	48,279	24,068	15,691	16,194	36,705
67 U of MA Worcester	29,843	31,531	40,328	44,349	26,152	26,260	31,972	35,318
68 Louisiana State U System	19,686	26,301	35,966	42,844	8,459	8,549	10,672	11,592
69 Thomas Jefferson U	31,765	38,053	45,792	42,211	20,905	25,985	31,671	27,497
70 University of Kansas	13,755	23,220	26,894	42,092	3,762	10,765	14,025	21,351
Total, 1st 70 institutions	6,493,801	7,026,749	7,875,433	9,011,295	4,091,491	4,389,470	4,892,620	5,622,332
71 TX A&M U Sys Hlth Sci Ctr	--	--	24,048	40,392	--	--	13,411	18,034
72 SUNY at Stony Brook	35,060	34,518	39,652	40,313	20,786	20,160	20,445	20,258
73 U CA Berkeley	63,545	62,167	86,010	37,720	14,531	13,367	14,234	19,809
74 C R Drew U of Med & Sci	17,205e	24,484	31,045	36,717	16,052e	22,212	21,969	27,415
75 University of Oklahoma	28,875	31,709	35,404	35,612	12,987	14,234	11,774	11,505
76 George Washington U	26,576	22,905	22,814	35,326	13,740	14,985	13,607	22,340
77 U of Arkansas Medical Sci	32,375	31,577	37,613	33,975	15,196	17,606	20,003	20,529
78 U of Missouri Columbia	24,529	26,870	31,259	33,376	9,114	11,886	13,997	14,967
79 U of Tennessee System	30,813	36,393	37,253	33,114	14,057	15,093	17,236	16,400
80 University of Vermont	24,124	25,662	25,677	31,810	11,216	11,468	14,701	21,253
Total, 1st 80 institutions	6,776,903	7,323,034	8,246,208	9,369,650	4,219,170	4,530,481	5,053,997	5,814,842
81 University of Louisville	20,056	25,256	28,675	30,579	5,952	6,084	7,396	11,684
82 Tulane University	26,425	28,675	27,513	30,315	10,415	11,043	10,352	10,909
83 Brown University	23,617	26,100	28,495	29,146	15,621	16,459	19,609	20,246
84 U of Nebraska Med Ctr	20,603	19,842	20,212	25,913	5,515	4,435	5,320	6,958
85 West Virginia University	18,671	17,038	18,527	25,171	5,430	4,825	7,701	9,220
86 University of Georgia	18,324	20,872	24,527	25,078	2,182	2,187	2,906	3,176
87 U PR Med Sci Campus	19,830	17,114	21,373	23,913	11,843	13,971	16,657	19,433
88 Medical Col of Georgia	19,434	19,217	17,754	21,841	5,566	5,166	4,916	7,963
89 Univ of Hawaii at Manoa	16,630	17,716	20,433	21,053	11,987	13,016	15,094	16,406
90 Michigan State University	12,554	13,505	18,467	20,705	6,381	7,985	9,782	10,839
Total, 1st 90 institutions	6,973,047	7,528,369	8,472,184	9,623,364	4,300,062	4,615,652	5,153,730	5,931,676

See explanatory information and SOURCE at end of table.

Table B-62. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in the medical sciences: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 Rutgers the State U NJ	16,364	20,506	17,518	20,121	8,356	8,322	7,128	7,676
92 University of New Mexico	11,136	11,274	14,349	19,147	7,652	9,293	11,906	14,203
93 U of South Carolina	13,375	18,609	18,022	19,033	6,377	9,472	10,584	9,692
94 Temple University	24,852	17,425	14,383	17,843	8,402	7,770	11,040	11,345
95 Loma Linda University	7,532	12,072	16,032	17,402 i	4,202	6,914	11,654	12,705 i
96 MA Institute of Tech	0	13,541	14,553	17,128	0	7,697	9,592	11,080
97 MCP Hahnemann U	65,697	15,329	20,573	17,001	37,048	6,641	9,688	10,139
98 Wright State University	10,043	11,787	14,599	16,767	6,355	7,386	6,982	9,301
99 Eastern VA Med School	15,247	15,687	13,820	16,654	6,868	8,392	8,396	7,570
100 Unif Svcs U of Hlth Sci	10,995	13,350	15,656	15,694	4,086	5,653	7,194	6,821
Total, 1st 100 institutions	7,148,288	7,677,949	8,631,689	9,800,154	4,389,408	4,693,192	5,247,894	6,032,208
Total, all other sampled institutions	323,389	316,022	354,488	376,574	169,843	167,849	193,865	216,451

KEY: -- = not available
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-63. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in psychology: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	444,167	464,059	515,909	581,865	298,565	309,141	350,065	398,103
1 U of WI-Madison	17,973	20,009	23,237	22,838	14,027	15,437	17,657	16,715
2 Pennsylvania State U	8,864	10,774	11,227	12,530	5,676	6,621	6,049	6,864
3 University of Oklahoma	7,845	11,778	13,927	11,937	3,006	3,231	4,632	4,426
4 Temple University	5,829	4,262	4,360	11,604	3,151	2,229	2,962	7,230
5 New York University	5,455	4,944	9,909	11,233	4,251	3,907	7,874	9,219
6 University of Michigan	10,712	8,285	9,076	11,049	5,412	4,367	4,337	5,701
7 U CA Los Angeles	7,374	8,623	9,012	10,688	5,074	5,680	6,501	7,251
8 University of Rochester	6,649	6,276	7,975	10,161	3,323	4,036	4,761	6,508
9 U of South Florida	7,004	6,636	7,542	10,092	3,259	2,908	2,875	3,817
10 Univ of Memphis, The	6,405	7,355	9,375	9,788	2,711	3,229	5,143	4,537
Total, 1st 10 institutions	84,110	88,942	105,640	121,920	49,890	51,645	62,791	72,268
11 Indiana University	7,210	8,552	9,073	9,652	5,460	6,281	6,090	6,380
12 University of Colorado	7,348	7,453	7,840	9,635	4,099	4,350	6,339	8,097
13 U of IL Urbana-Champaign	6,881	7,385	8,872	9,320	4,332	4,765	5,512	5,754
14 U of Washington	9,911	9,228	9,493	9,316	8,925	8,432	8,716	7,998
15 University of Georgia	6,025	6,979	7,632	8,421	2,221	2,516	2,771	3,585
16 Rutgers the State U NJ	7,153	8,155	7,758	8,420	3,087	3,440	3,262	3,029
17 U CA Berkeley	7,449	7,080	7,218	8,244	4,500	4,696	4,459	4,239
18 University of Minnesota	6,930	7,095	8,218	8,201	5,471	5,068	5,175	5,269
19 University of Miami	5,276	5,914	6,893	7,749	5,055	5,829	6,725	7,625
20 University of New Mexico	3,950	4,492	5,872	7,168	2,663	3,119	4,232	5,050
Total, 1st 20 institutions	152,243	161,275	184,509	208,046	95,703	100,141	116,072	129,294
21 San Diego St University	4,650	4,436	6,160	6,714	2,761	2,391	4,137	3,715
22 University of Connecticut	5,189	5,488	7,876	6,608	2,545	2,406	4,219	3,910
23 Georgia State University	7,412	7,604	7,182	6,586	3,030	2,694	3,204	3,456
24 Carnegie Mellon U	6,382	6,300	5,880	6,460	4,134	4,026	4,095	4,336
25 Cornell University	5,642	6,372	6,077	6,425	2,103	2,327	2,083	1,942
26 Arizona State University	5,960	5,616	5,438	6,399	4,426	4,115	3,678	4,251
27 University of Florida	3,472	4,478	5,122	6,320	2,289	3,127	3,591	4,233
28 Florida State University	4,027	4,589	4,234	5,922	2,728	3,030	2,877	3,907
29 U CA Santa Barbara	1,420	1,777	2,222	5,912	1,240	1,426	1,830	4,221
30 U of IL Chicago	3,445	4,388	4,155	5,832	2,298	2,607	2,567	3,475
Total, 1st 30 institutions	199,842	212,323	238,855	271,224	123,257	128,290	148,353	166,740
31 U CA San Diego	3,552	5,012	5,364	5,831	2,480	3,491	4,370	4,931
32 U of Nebraska at Lincoln	1,177 i	1,536	1,901	5,802	333 i	182	186	3,666
33 Ohio State University	3,830	3,664	4,480	5,719	2,716	2,890	3,422	4,068
34 San Jose State University	2,938e	2,938e	2,938e	5,714	2,698e	2,698e	2,698e	5,694
35 Oregon Health & Science U	3,639 i	4,007 i	5,041	5,495	3,280 i	3,820 i	4,980	5,343
36 U of Alabama Birmingham	5,403	5,117	6,233	5,495	4,989	4,423	5,763	5,091
37 Michigan State University	2,205	2,526	3,698	5,401	1,256	1,645	2,514	3,853
38 U of MA Amherst	4,135	4,071	4,788	5,360	3,009	2,932	3,449	3,884
39 U of Missouri Columbia	3,474	4,235	4,515	5,274	2,426	2,964	2,863	3,000
40 U of Southern California	3,483	3,987	3,965	5,013	3,140	3,705	3,394	3,895
Total, 1st 40 institutions	233,678	249,416	281,778	326,328	149,584	157,040	181,992	210,165
41 Stanford University	3,834	4,103	4,616	4,906	3,418	3,420	3,830	3,880
42 Boston University	2,271	2,465	3,349	4,879	1,800	2,364	3,295	4,773
43 University of Pittsburgh	4,293	4,455	4,546	4,791	4,037	4,172	3,865	4,540
44 Yale University	3,089	3,625	4,162	4,720	2,401	2,450	2,698	3,978
45 Dartmouth College	1,132	1,216	3,100	4,685	500	428	2,431	3,473
46 U of Rhode Island	4,855	4,365	3,434	4,408	4,490	3,951	3,250	3,809
47 University of Oregon	2,036	2,103	2,525	4,373	1,552	1,819	2,333	4,048
48 U TX at Austin	3,072	2,798	3,423	4,336	2,584	2,227	2,980	3,735
49 U of NC Chapel Hill	3,149	3,070	3,710	4,282	2,979	2,747	3,370	3,871
50 U of Iowa	2,689	2,788	3,180	4,201	2,269	2,060	2,252	3,423
Total, 1st 50 institutions	264,098	280,404	317,823	371,909	175,614	182,678	212,296	249,695

See explanatory information and SOURCE at end of table.

Table B-63. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in psychology: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 Georgia Institute of Tech	2,920	3,457	4,358	4,128	1,280	1,480	1,806	1,937
52 Purdue University	2,497	2,727	2,965	4,010	1,771	1,653	1,634	2,262
53 Harvard University	3,854	4,548	4,387	3,964	3,422	3,953	4,059	3,648
54 Johns Hopkins U	3,484	3,383	3,636	3,940	3,371	3,237	3,453	3,691
55 Princeton University	5,978	5,246	5,259	3,892	5,086	4,080	3,743	2,195
56 U of MD at College Park	1,530	1,913	3,233	3,873	1,156	1,536	2,394	2,677
57 Duke University	4,472	4,276	3,645	3,862	4,031	3,836	3,089	3,184
58 U CA Irvine	2,658	2,057	3,313	3,768	2,313	1,561	2,358	3,115
59 Vanderbilt University	2,011	2,262	2,674	3,601	1,644	1,774	2,264	2,643
60 U of South Carolina	3,231	3,925	4,013	3,596	2,470	2,933	2,890	2,416
Total, 1st 60 institutions	296,733	314,198	355,306	410,543	202,158	208,721	239,986	277,463
61 U of Pennsylvania	3,111	3,470	2,903	3,483	2,937	3,380	2,564	3,050
62 Columbia U in City of NY	2,932	2,735	3,066	3,469	2,818	2,488	2,865	3,268
63 SUNY at Stony Brook	2,705	3,024	4,057	3,464	2,077	2,196	2,394	2,653
64 University of Houston	3,002	3,024	2,954	3,445	2,090	1,951	1,715	1,733
65 University of Arizona	2,205	2,612	38	3,403	874	1,133	0	1,705
66 SUNY at Buffalo	5,590	5,391	4,990	3,360	4,223	3,954	3,514	1,463
67 Tufts University	2,168	2,753	2,933	3,357	1,300	1,488	1,312	1,935
68 Virginia Commonwealth U	2,864	1,928	2,081	3,096	1,007	1,129	1,417	2,166
69 Teachers Col, Columbia U	2,145	2,250	2,992	3,085	1,490	1,504	2,471	2,480
70 Colorado State University	3,916	3,252	2,679	3,004	3,044	2,764	2,530	2,839
Total, 1st 70 institutions	327,371	344,637	383,999	443,709	224,018	230,708	260,768	300,755
71 University of Virginia	3,115	2,984	2,775	3,001	2,657	2,679	2,550	2,759
72 University of Denver	1,699	1,743	1,916	2,904	1,627	1,660	1,907	2,172
73 CUNY Hunter College	1,913	1,644	2,143	2,899	1,000	864	1,578	2,113
74 Texas A&M University	2,236	2,859	2,752	2,898	1,402	1,721	1,583	1,761
75 Northwestern University	1,962	1,911	2,952	2,894	1,522	1,595	1,836	2,305
76 Wayne State University	2,980	2,775	3,096	2,749	2,035	1,793	1,915	1,805
77 Brown University	2,514	2,236	2,143	2,666	1,600	1,396	1,400	1,868
78 University of Chicago	1,887	2,393	2,306	2,620	1,225	1,289	1,383	2,588
79 SUNY at Binghamton	3,171	3,368	2,991	2,482	1,230	1,480	1,773	1,648
80 Texas Christian U	2,225	2,794	2,043	2,397	2,221	2,790	2,037	2,382
Total, 1st 80 institutions	351,073	369,344	409,116	471,219	240,537	247,975	278,730	322,156
81 University of Utah	1,043	1,627	1,836	2,271	871	1,298	1,637	1,618
82 Washington University	964	1,692	1,663	2,225	887	1,439	1,469	1,864
83 SUNY at Albany	2,416	3,054	2,489	2,213	1,975	2,228	1,767	1,438
84 University of Louisville	251	2,220	1,819	2,130	112	1,260	982	1,153
85 VA Polytech Inst & St U	2,971	2,613	2,142	2,015	2,046	1,777	1,057	1,210
86 University of Alabama, The	315	460	1,346	1,917	310	354	1,258	1,877
87 George Mason University	1,954	2,165	1,903	1,871	1,787	1,877	1,766	1,728
88 U of Missouri St Louis	2,000	1,514	1,549	1,833	821	902	696	729
89 Utah State University	956	876	1,067	1,782	219	193	451	1,131
90 CUNY Brooklyn College	729e	917	1,441	1,745	543e	619	1,035	1,271
Total, 1st 90 institutions	364,672	386,482	426,371	491,221	250,108	259,922	290,848	336,175

See explanatory information and SOURCE at end of table.

Table B-63. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by fiscal year 2001 total R&D expenditures in psychology: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 U CA Riverside	2,364	1,986	1,867	1,742	2,209	1,985	1,652	1,534
92 University of Notre Dame	781	974	1,355	1,729	603	696	1,084	1,337
93 Howard University	52	987	360	1,693	52	980	360	1,693
94 Jackson State University	0	0	48	1,636	0	0	29	1,450
95 Brandeis University	1,483	1,372	1,712	1,621	1,272	1,301	1,641	1,474
96 Loyola U of Chicago	709	705	1,227	1,615	502	622	1,142	1,415
97 Florida Atlantic U	1,342	1,494	1,636	1,591	1,205	1,334	1,414	1,436
98 Northeastern University	900	1,368	1,281	1,579	818	1,026	935	1,162
99 Northern Illinois U	254	942	1,348	1,497	146	575	677	682
100 Ohio University	981	1,148	968	1,491	682	818	674	929
Total, 1st 100 institutions	373,538	397,458	438,173	507,415	257,597	269,259	300,456	349,287
Total, all other sampled institutions	70,629	66,601	77,736	74,450	40,968	39,882	49,609	48,816

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-64. R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the social sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
Total, all institutions	1,131,139	1,251,376	1,297,243	1,435,540	270,942	252,239	327,181	585,178
1 University of Michigan	48,299	56,723	56,840	75,406	10,733	6,504	12,753	45,416
2 U of MD at College Park	41,544	58,148	54,827	61,208	6,936	12,443	8,310	33,519
3 U CA Berkeley	35,559	38,531	41,708	44,406	13,691	10,638	6,129	13,948
4 U of WI-Madison	28,827	28,154	31,083	35,284	9,958	3,216	9,676	12,434
5 U CA Los Angeles	25,580	28,802	32,915	35,135	958	879	9,888	23,410
6 University of Georgia	27,512	31,228	31,287	34,768	12,907	3,060	1,882	16,919
7 Indiana University	15,629	21,829	29,271	34,401	2,837	14,215	6,684	10,665
8 U of Pennsylvania	17,289	25,405	30,842	31,948	2,714	11,637	8,342	9,255
9 Harvard University	39,501	33,073	31,473	31,132	8,345	18,649	1,018	3,120
10 Ohio State University	18,786	21,809	20,035	30,546	3,630	2,517	2,957	21,442
Total, 1st 10 institutions	298,526	343,702	360,281	414,234	72,709	83,758	67,639	190,128
11 Rutgers the State U NJ	17,698	20,219	22,708	27,826	1,173	8,604	7,193	10,856
12 U of NC Chapel Hill	24,649	22,556	22,325	25,281	147	0	10,827	14,307
13 U of IL Urbana-Champaign	19,426	21,908	24,868	23,922	8,940	2,444	5,184	7,354
14 Michigan State University	15,681	18,731	19,130	21,461	8,752	3,059	1,613	8,037
15 Brandeis University	17,329	21,682	19,575	21,376	191	36	18,435	2,714
16 Pennsylvania State U	44,048	45,289	16,529	19,577	2,103	2,220	14,964	290
17 Princeton University	13,156	14,709	16,544	19,003	2,765	14,863	614	761
18 Florida State University	6,097	9,213	13,065	18,967	326	3,909	7,654	7,078
19 Purdue University	15,046	17,707	18,050	18,864	6,621	454	1,843	9,946
20 University of Arizona	13,208	14,184	15,044	16,149	5,528	243	8,012	2,366
Total, 1st 20 institutions	484,864	549,900	548,119	626,660	109,255	119,590	143,978	253,837
21 Duke University	10,407	11,580	14,656	14,794	1,819	4,102	6,074	2,799
22 University of Minnesota	14,113	14,008	14,567	14,792	8,043	2,286	1,458	3,005
23 Cornell University	11,066	12,750	12,963	14,737	4,883	40	1,670	8,144
24 Iowa State University	12,943	15,369	15,842	14,125	4,213	381	9,282	249
25 U of Missouri Columbia	10,719	11,424	12,393	14,072	6,933	2,787	1,784	2,568
26 U TX at Austin	7,195	9,295	9,617	13,898	351	189	3,285	10,073
27 U CA Davis	3,276	3,106	3,649	13,247	5,946	2,215	542	4,544
28 U of South Carolina	7,679	9,442	9,540	12,537	750	3,582	835	7,370
29 University of Florida	8,682	10,217	9,525	11,975	7,798	228	863	3,086
30 U of IL Chicago	5,080	8,321	9,439	10,977	318	59	3,629	6,971
Total, 1st 30 institutions	576,024	655,412	660,310	761,814	150,309	135,459	173,400	302,646
31 U CA San Diego	9,302	10,084	9,668	10,705	630	1,950	4,965	3,160
32 University of Pittsburgh	4,142	6,166	7,750	10,570	497	943	841	8,289
33 Washington State U	9,834	9,259	9,450	10,535	5,968	282	3,815	470
34 U CA Santa Barbara	7,451	8,037	8,974	10,531	7	62	126	10,336
35 Georgia State University	8,868	15,192	14,748	10,186	8,041	265	1,481	399
36 Arizona State University	8,564	9,248	9,591	10,114	2,379	1,452	573	5,710
37 VA Polytech Inst & St U	5,273	5,271	7,419	10,098	957	2,245	583	6,313
38 University of Oklahoma	10,061	8,970	9,896	10,020	1,182	1,914	704	6,220
39 U of Washington	11,805	15,415	8,029	10,019	80	6,946	448	2,545
40 Johns Hopkins U	3,688	7,760	10,588	9,698	308	2	4,114	5,274
Total, 1st 40 institutions	655,012	750,814	756,423	864,290	170,358	151,520	191,050	351,362
41 U of Nebraska at Lincoln	5,041 i	10,380	10,505	9,662	3,565	705	1,831	3,561
42 Northwestern University	5,993	6,569	8,260	9,523	515	7,525	785	698
43 University of Colorado	3,375	5,921	7,176	9,274	374	361	5,378	3,161
44 NC State University	4,866	5,504	6,918	8,968	4,339	382	2,633	1,614
45 Stanford University	5,715	6,603	6,363	8,888	811	82	555	7,440
46 Carnegie Mellon U	8,416	9,101	9,193	8,827	1,909	4,114	492	2,312
47 Clemson University	4,014	3,906	4,518	8,718	2,771	1,123	1,101	3,723
48 Oklahoma State University	5,205	8,861	7,796	8,630	4,741	435	950	2,504
49 Portland State University	4,996	7,069	9,095	8,600	227	344	293	7,736
50 U CA Irvine	4,457	5,766	5,494	8,539	7	4,499	877	3,156
Total, 1st 50 institutions	707,090	820,494	831,741	953,919	189,617	171,090	205,945	387,267

See explanatory information and SOURCE at end of table.

Table B-64. R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the social sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
51 SUNY at Albany	6,882	7,542	7,389	8,532	60	2,356	3,504	2,612
52 University of Connecticut	7,772	6,409	8,552	8,382	1,924	354	1,583	4,521
53 Florida International U	2,758	5,770	3,864	8,351	0	0	0	8,351
54 George Mason University	6,312	6,907	7,219	7,977	1,052	6,485	347	93
55 U of Southern California	6,404	6,437	7,640	7,666	62	2,687	2,529	2,388
56 Texas A&M University	19,593	16,784	7,227	7,543	1,947	1,900	1,319	2,377
57 Louisiana State U System	8,223	9,325	8,331	7,443	2,759	477	1,234	2,973
58 U of Iowa	7,851	7,854	7,970	7,235	634	1,606	1,676	3,319
59 U of MA Boston	6,311	6,776	6,664	7,085	0	571	608	5,906
60 New York University	5,798	5,979	5,566	7,022	1,002	3,540	1,030	1,450
Total, 1st 60 institutions	784,994	900,277	902,163	1,031,155	199,057	191,066	219,775	421,257
61 George Washington U	7,303	6,461	8,827	6,523	178	3,860	2,200	285
62 Vanderbilt University	4,379	4,118	5,291	6,322	406	5,890	2	24
63 Tufts University	5,697	4,096	5,606	6,291	168	4,655	673	795
64 University of New Mexico	5,446	6,671	6,574	6,180	404	699	473	4,604
65 MA Institute of Tech	11,627	8,908	8,293	6,152	1,868	2,377	571	1,336
66 Cleveland State U	5,425e	5,939 i	4,775	5,923	28	0	208	5,687
67 U of Central Florida	4,641	3,813	5,204	5,902	191	45	1,446	4,220
68 U CA Riverside	2,122	2,567	3,337	5,850	45	107	640	5,058
69 U of Tennessee System	4,720	4,920	5,221	5,834	4,589	43	402	800
70 U of New Hampshire	4,381	4,629	4,781	5,733	2	340	2,886	2,505
Total, 1st 70 institutions	840,735	952,399	960,072	1,091,865	206,936	209,082	229,276	446,571
71 University of Kansas	3,776	3,426	5,711	5,726	207	1,668	3,504	347
72 Columbia U in City of NY	5,882	4,899	5,413	5,709	360	398	4,951	0
73 Naval Postgrad School	4,647 i	4,647 i	5,108 i	5,561 i	1,701 i	1,090 i	2,475 i	295 i
74 Univ of Memphis, The	4,138	5,034	4,748	5,551	3,326	479	1,568	178
75 North Dakota State U	1,113	3,558	4,769	5,549	1,480	0	79	3,990
76 Georgia Institute of Tech	2,595	3,026	4,594	5,512	2,497	974	974	1,067
77 Syracuse University	2,613	2,796	4,383	5,509	48	2,986	194	2,281
78 U of WI-Milwaukee	5,075	5,885	5,042	5,468	427	28	627	4,386
79 University of Akron	458	2,962	3,721	5,389	92	177	4,848	272
80 Wayne State University	6,373	5,276	5,358	5,375	1,910	584	2,812	69
Total, 1st 80 institutions	877,405	993,908	1,008,919	1,147,214	218,984	217,466	251,308	459,456
81 San Diego St University	3,736	2,728	5,893	5,142	553	754	1,304	2,531
82 SUNY at Buffalo	5,710	5,317	6,301	5,041	135	169	1,480	3,257
83 New School University	3,287	4,363	4,447	5,026	309	935	937	2,845
84 Teachers Col, Columbia U	3,910	4,235	4,492	5,004	1,713	0	0	3,291
85 Case Western Reserve U	4,708	5,060	5,773	4,951	415	0	1,802	2,734
86 Mississippi State U	3,506	3,829	4,349	4,950	313	619	365	3,653
87 Brown University	4,894	4,724	4,613	4,912	1,568	508	672	2,164
88 University of Delaware	4,749	4,961	4,918	4,831	184	2	3,841	804
89 Washington University	2,545	2,877	4,217	4,784	0	351	4,341	92
90 Univ of Hawaii at Manoa	4,002	3,409	3,611	4,763	249	1	245	4,268
Total, 1st 90 institutions	918,452	1,035,411	1,057,533	1,196,618	224,423	220,805	266,295	485,095

See explanatory information and SOURCE at end of table.

Table B-64. R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2001 R&D expenditures in the social sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
91 Emory University	895	1,073	3,292	4,373	2,245	686	1,442	0
92 Boston College	2,111	2,637	4,204	4,266	2,082	391	381	1,412
93 Univ of Montana, The	1,386	1,980	2,586	4,242	2,510	0	93	1,639
94 U of South Florida	2,134	2,456	3,090	4,005	39	326	1,001	2,639
95 Tulane University	783	1,777	2,097	3,998	0	0	218	3,780
96 University of Louisville	2,353	2,790	2,724	3,945	1,906	296	450	1,293
97 University of Denver	2,059	2,218	431	3,729	0	0	144	3,585
98 U TX at San Antonio	2,272	2,841	3,348	3,702	284	1	0	3,417
99 SUNY at Stony Brook	2,320	2,463	3,159	3,569	293	447	508	2,321
100 University of Kentucky	3,371	3,222	3,174	3,556	317	251	1,769	1,219
Total, 1st 100 institutions	938,136	1,058,868	1,085,638	1,236,003	234,099	223,203	272,301	506,400
Total, all other sampled institutions	193,003	192,508	211,605	199,537	36,843	29,036	54,880	78,778

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-65. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the social sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
Total, all institutions	425,285	471,724	489,783	544,467	89,941	71,945	148,188	234,393
1 University of Michigan	26,179	37,293	42,739	53,209	8,300	5,093	8,055	31,761
2 U of MD at College Park	26,692	35,385	30,484	33,164	4,106	3,796	2,977	22,285
3 U of NC Chapel Hill	17,005	15,750	14,633	18,069	72	0	9,272	8,725
4 U of WI-Madison	12,377	12,995	14,113	15,094	5,054	74	4,275	5,691
5 Ohio State University	9,265	12,504	7,992	14,489	1,482	1,361	812	10,834
6 Harvard University	21,225	13,426	14,119	13,050	4,045	6,428	64	2,513
7 Duke University	6,831	7,563	10,924	11,045	1,151	2,426	5,489	1,979
8 Michigan State University	7,457	9,516	9,070	9,979	5,659	675	767	2,878
9 U of Pennsylvania	5,971	5,942	8,585	8,997	1,238	2,122	3,249	2,388
10 University of Arizona	4,955	5,841	5,979	7,509	2,072	147	4,577	713
Total, 1st 10 institutions	137,957	156,215	158,638	184,605	33,179	22,122	39,537	89,767
11 Iowa State University	6,961	8,754	9,414	7,415	1,071	20	6,197	127
12 University of Colorado	2,403	4,178	5,432	7,140	269	199	4,253	2,419
13 Carnegie Mellon U	5,698	6,464	6,750	6,779	1,209	3,240	342	1,988
14 U TX at Austin	2,088	2,273	4,416	6,710	223	0	2,218	4,269
15 Florida State University	2,143	2,711	5,143	6,645	105	667	3,024	2,849
16 Johns Hopkins U	1,924	5,355	8,019	6,613	292	0	3,123	3,198
17 Pennsylvania State U	11,806	12,362	5,221	6,220	879	417	4,863	61
18 Brandeis University	7,475	9,587	5,585	5,942	33	3	5,274	632
19 Indiana University	4,710	4,919	4,821	5,838	356	1,465	3,421	596
20 Portland State University	3,558	5,388	6,451	5,759	68	20	53	5,618
Total, 1st 20 institutions	186,723	218,206	219,890	249,666	37,684	28,153	72,305	111,524
21 U CA Berkeley	4,123	5,430	5,613	5,706	2,194	1,000	1,101	1,411
22 U CA Santa Barbara	3,491	4,121	4,984	5,518	0	0	11	5,507
23 Naval Postgrad School	4,564 i	4,564 i	5,000 i	5,497 i	1,701 i	1,033 i	2,468 i	295 i
24 University of Pittsburgh	2,637	4,340	4,800	5,402	198	324	655	4,225
25 George Mason University	3,852	3,763	3,791	4,598	0	4,396	115	87
26 Florida International U	2,229	629	2,264	4,515	0	0	0	4,515
27 Vanderbilt University	3,247	3,165	3,879	4,468	129	4,339	0	0
28 U CA Los Angeles	2,753	3,119	2,796	4,451	205	85	1,641	2,520
29 U of Missouri Columbia	3,718	3,693	4,703	4,324	1,955	1,262	826	281
30 Columbia U in City of NY	4,648	3,747	3,216	4,312	275	314	3,723	0
Total, 1st 30 institutions	221,985	254,777	260,936	298,457	44,341	40,906	82,845	130,365
31 SUNY at Albany	3,502	4,156	4,239	4,254	44	482	1,652	2,076
32 Rutgers the State U NJ	5,011	4,294	4,687	4,241	301	376	1,399	2,165
33 U of IL Urbana-Champaign	4,057	3,688	3,858	4,127	1,266	322	281	2,258
34 U of South Carolina	2,398	2,359	2,779	4,020	360	352	515	2,793
35 Cornell University	2,849	4,107	3,858	3,894	1,155	0	417	2,322
36 U CA San Diego	4,759	4,630	4,327	3,762	409	192	2,602	559
37 New York University	1,738	3,334	2,013	3,610	669	2,054	670	217
38 Washington University	2,092	2,232	2,904	3,498	0	336	3,117	45
39 University of Delaware	2,890	2,312	2,567	3,494	74	0	3,330	90
40 Purdue University	2,647	2,730	2,993	3,439	2,168	147	611	513
Total, 1st 40 institutions	253,928	288,619	295,161	336,796	50,787	45,167	97,439	143,403
41 Syracuse University	1,994	2,120	1,749	3,418	34	1,178	64	2,142
42 Northwestern University	2,699	1,915	2,725	3,402	238	2,818	227	119
43 North Dakota State U	705	2,286	3,105	3,361	776	0	8	2,577
44 Tulane University	228	1,306	1,656	3,345	0	0	123	3,222
45 Univ of Hawaii at Manoa	1,081	1,186	1,700	3,074	40	0	68	2,966
46 University of Minnesota	2,117	2,127	2,891	3,031	1,394	573	986	78
47 U of Southern California	3,042	2,927	3,009	2,996	59	735	889	1,313
48 Clemson University	1,255	1,064	1,231	2,926	719	232	255	1,720
49 University of Chicago	2,296	3,443	2,117	2,913	160	1,667	294	792
50 U CA Irvine	1,648	2,158	1,746	2,780	3	1,641	311	825
Total, 1st 50 institutions	270,993	309,151	317,090	368,042	54,210	54,011	100,664	159,157

See explanatory information and SOURCE at end of table.

Table B-65. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the social sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
51 University of Denver	2,012	2,157	351	2,759	0	0	100	2,659
52 Univ of Montana, The	337	854	1,821	2,742	1,334	0	85	1,323
53 Princeton University	2,446	2,560	3,545	2,738	406	2,265	35	32
54 Boston College	564	959	2,041	2,729	1,861	0	27	841
55 Univ of Memphis, The	654	298	2,524	2,708	1,811	44	786	67
56 U of Central Florida	1,499	1,326	1,321	2,701	88	36	1,058	1,519
57 U of IL Chicago	1,350	1,368	2,503	2,694	84	0	1,660	950
58 U of WI-Milwaukee	1,905	2,165	2,025	2,676	88	2	350	2,236
59 University of Georgia	2,123	1,873	2,658	2,664	968	65	0	1,631
60 Georgetown University	1,837	2,372	2,440	2,642	36	540	1,653	413
Total, 1st 60 institutions	285,720	325,083	338,319	395,095	60,886	56,963	106,418	170,828
61 U of New Hampshire	1,777	1,614	1,933	2,615	0	284	2,124	207
62 University of Oklahoma	3,571	2,175	2,354	2,592	0	0	61	2,531
63 U of LA at Monroe, The	1,190	2,353	2,353e	2,588 i	1,977 i	0 i	611 i	0 i
64 Georgia Institute of Tech	1,137	1,295	1,905	2,587	1,172	457	457	501
65 U CA Davis	766	476	529	2,539	1,669	133	228	509
66 University of Miami	3,511	3,389	3,051	2,499	0	0	288	2,211
67 Stanford University	986	1,638	1,623	2,493	294	5	380	1,814
68 Mississippi State U	1,858	1,818	1,357	2,431	0	112	65	2,254
69 Washington State U	3,153	2,981	2,461	2,425	1,815	63	547	0
70 University of Akron	326	2,198	2,113	2,387	35	0	2,200	152
Total, 1st 70 institutions	303,995	345,020	357,998	420,251	67,848	58,017	113,379	181,007
71 George Washington U	1,600	1,498	2,403	2,383	151	706	1,241	285
72 NC State University	782	747	1,275	2,352	781	206	810	555
73 Oklahoma State University	1,508	2,840	1,965	2,281	458	305	447	1,071
74 Case Western Reserve U	1,175	1,511	2,031	2,268	66	0	1,715	487
75 SUNY at Buffalo	922	1,238	1,826	2,234	0	5	960	1,269
76 University of Connecticut	1,903	1,193	947	2,092	593	69	757	673
77 University of New Mexico	1,890	2,498	2,382	1,942	317	317	320	988
78 University of Kansas	332	659	1,983	1,877	33	355	1,330	159
79 U Mississippi, All Camp	234	394	824	1,861	1,569	61	231	0
80 MA Institute of Tech	5,922	2,328	1,954	1,840	792	559	110	379
Total, 1st 80 institutions	320,263	359,926	375,588	441,381	72,608	60,600	121,300	186,873
81 Arizona State University	1,351	1,472	1,847	1,814	39	71	154	1,550
82 U TX at Arlington	489	405	228	1,805	11	0	0	1,794
83 Utah State University	1,523	501	811	1,804	154	0	164	1,486
84 University of Florida	1,674	1,978	1,197	1,798	849	18	366	565
85 Georgia State University	2,777	6,579	2,806	1,759	890	50	656	163
86 Colorado State University	686	1,140	1,558	1,736	270	0	117	1,349
87 U of Iowa	2,299	2,146	1,991	1,706	438	384	708	176
88 Teachers Col, Columbia U	1,213	1,992	2,224	1,683	716	0	0	967
89 U of Washington	6,317	8,236	1,222	1,593	56	677	202	658
90 U of Nebraska at Lincoln	1,497 i	3,311	3,324	1,556	191	67	429	869
Total, 1st 90 institutions	340,089	387,686	392,796	458,635	76,222	61,867	124,096	196,450

See explanatory information and SOURCE at end of table.

Table B-65. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2001 federally financed R&D expenditures in the social sciences: fiscal years 1998-2001 and by subfield for fiscal year 2001

[Dollars in thousands]

Institution and ranking	1998	1999	2000	2001	2001, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
91 Boston University	766	1,118	1,231	1,504	575	0	41	888
92 U CA Riverside	238	480	345	1,502	4	9	229	1,260
93 University of Cincinnati	1,440	1,336	1,675	1,435	0	59	0	1,376
94 Gallaudet University	1,281	1,339	1,333	1,410	0	421	529	460
95 Tuskegee University	1,110	1,197	1,154	1,356	292	0	0	1,064
96 Texas A&M University	4,833	3,880	1,685	1,320	52	161	798	309
97 Louisiana State U System	1,148	1,523	1,753	1,314	396	150	276	492
98 Wayne State University	1,589	707	342	1,305	609	0	669	27
99 U of MD Baltimore County	806	1,528	1,433	1,301	0	164	320	817
100 U TX at San Antonio	1,270	1,395	1,306	1,280	0	0	0	1,280
Total, 1st 100 institutions	354,570	402,189	405,053	472,362	78,150	62,831	126,958	204,423
Total, all other sampled institutions	70,715	69,535	84,730	72,105	11,791	9,114	21,230	29,970

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-66. Current fund expenditures for research equipment at universities and colleges, by science and engineering field and source of funds: fiscal years 1994, 2000, and 2001

[Dollars in thousands]

Field	Total			Federal			Non-Federal		
	1994	2000	2001	1994	2000	2001	1994	2000	2001
Total	1,106,784	1,420,700	1,490,417	670,394	797,585	823,349	436,390	623,115	667,068
Engineering	250,589	306,064	333,691	151,937	168,954	178,973	98,652	137,110	154,718
Aeronautical and astronautical	18,874	20,280	23,811	14,518	12,990	17,069	4,356	7,290	6,742
Bioengineering/bio-medical	--	13,569	14,983	--	5,864	7,106	--	7,705	7,877
Chemical	18,774	26,057	30,934	10,882	13,629	15,988	7,892	12,428	14,946
Civil	18,798	28,520	32,200	8,376	10,056	12,634	10,422	18,464	19,566
Electrical	65,705	71,560	79,164	43,912	44,173	46,485	21,793	27,387	32,679
Mechanical	37,467	54,767	48,790	24,637	35,573	28,962	12,830	19,194	19,828
Metallurgical and materials	24,947	30,125	49,090	12,117	18,354	22,201	12,830	11,771	26,889
Other, n.e.c.	66,024	61,186	54,719	37,495	28,315	28,528	28,529	32,871	26,191
All sciences	856,195	1,114,636	1,156,726	518,457	628,631	644,376	337,738	486,005	512,350
Physical sciences	207,118	249,388	239,954	150,772	174,919	160,829	56,346	74,469	79,125
Astronomy	20,083	24,661	14,563	12,832	20,617	12,169	7,251	4,044	2,394
Chemistry	78,043	102,766	99,956	53,429	63,201	57,733	24,614	39,565	42,223
Physics	89,572	109,549	112,674	70,767	84,202	81,191	18,805	25,347	31,483
Other, n.e.c.	19,420	12,412	12,761	13,744	6,899	9,736	5,676	5,513	3,025
Environmental sciences	83,407	100,236	88,713	60,822	64,399	54,992	22,585	35,837	33,721
Atmospheric	11,589	12,651	13,248	9,462	10,161	10,098	2,127	2,490	3,150
Earth sciences	29,858	37,191	29,353	19,969	18,904	16,256	9,889	18,287	13,097
Oceanography	27,140	33,851	34,797	21,794	25,233	22,209	5,346	8,618	12,588
Other, n.e.c.	14,820	16,543	11,315	9,597	10,101	6,429	5,223	6,442	4,886
Mathematical sciences	14,911	10,073	11,799	10,960	6,807	6,223	3,951	3,266	5,576
Computer sciences	59,059	56,410	65,129	40,703	34,204	41,916	18,356	22,206	23,213
Life sciences	434,404	614,048	665,018	228,134	319,677	343,194	206,270	294,371	321,824
Agricultural sciences	67,857	76,470	81,149	23,928	21,215	22,494	43,929	55,255	58,655
Biological sciences	175,115	267,971	282,452	106,794	161,438	165,834	68,321	106,533	116,618
Medical sciences	173,408	248,480	281,213	89,937	127,693	144,868	83,471	120,787	136,345
Other, n.e.c.	18,024	21,127	20,204	7,475	9,331	9,998	10,549	11,796	10,206
Psychology	12,582	14,230	14,122	7,541	9,150	9,023	5,041	5,080	5,099
Social sciences	21,351	19,420	16,946	8,871	6,449	6,469	12,480	12,971	10,477
Economics	5,504	3,119	2,370	2,393	1,708	970	3,111	1,411	1,400
Political science	2,945	1,673	2,008	1,442	652	784	1,503	1,021	1,224
Sociology	3,802	3,317	3,072	1,750	1,530	1,171	2,052	1,787	1,901
Other, n.e.c.	9,100	11,311	9,496	3,286	2,559	3,544	5,814	8,752	5,952
Other sciences, n.e.c.	23,363	50,831	55,045	10,654	13,026	21,730	12,709	37,805	33,315

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-67. Current fund expenditures for research equipment at doctorate-granting institutions, by science and engineering field and source of funds: fiscal years 1994, 2000, and 2001

[Dollars in thousands]

Field	Total			Federal			Non-Federal		
	1994	2000	2001	1994	2000	2001	1994	2000	2001
Total	1,074,649	1,380,835	1,450,596	650,154	776,240	799,125	424,495	604,595	651,471
Engineering	245,379	298,916	327,385	149,359	167,039	176,031	96,020	131,877	151,354
Aeronautical and astronautical	18,423	19,943	22,687	14,099	12,680	15,965	4,324	7,263	6,722
Bioengineering/bio-medical	--	13,404	14,803	--	5,785	7,099	--	7,619	7,704
Chemical	18,643	25,738	30,538	10,779	13,571	15,877	7,864	12,167	14,661
Civil	18,088	27,637	31,643	8,014	9,978	12,534	10,074	17,659	19,109
Electrical	64,564	70,443	78,180	43,208	43,895	46,240	21,356	26,548	31,940
Mechanical	36,893	52,676	47,200	24,271	34,882	28,135	12,622	17,794	19,065
Metallurgical and materials	24,855	30,000	48,974	12,075	18,254	22,123	12,780	11,746	26,851
Other, n.e.c.	63,913	59,075	53,360	36,913	27,994	28,058	27,000	31,081	25,302
All sciences	829,270	1,081,919	1,123,211	500,795	609,201	623,094	328,475	472,718	500,117
Physical sciences	197,246	238,691	229,768	144,366	168,316	154,277	52,880	70,375	75,491
Astronomy	19,938	24,415	14,301	12,733	20,423	12,071	7,205	3,992	2,230
Chemistry	72,063	96,245	93,588	49,497	59,432	53,737	22,566	36,813	39,851
Physics	86,058	105,837	109,223	68,497	81,648	78,764	17,561	24,189	30,459
Other, n.e.c.	19,187	12,194	12,656	13,639	6,813	9,705	5,548	5,381	2,951
Environmental sciences	79,757	95,726	84,591	58,582	62,248	52,540	21,175	33,478	32,051
Atmospheric	11,445	12,395	12,689	9,445	10,023	9,548	2,000	2,372	3,141
Earth sciences	28,271	35,593	27,288	19,215	18,458	15,144	9,056	17,135	12,144
Oceanography	25,871	31,664	33,676	20,739	23,872	21,478	5,132	7,792	12,198
Other, n.e.c.	14,170	16,074	10,938	9,183	9,895	6,370	4,987	6,179	4,568
Mathematical sciences	13,844	9,435	11,349	10,292	6,395	6,028	3,552	3,040	5,321
Computer sciences	57,859	53,211	62,263	39,966	32,165	39,825	17,893	21,046	22,438
Life sciences	426,358	602,870	652,133	222,686	312,610	334,493	203,672	290,260	317,640
Agricultural sciences	65,441	73,761	77,545	21,733	19,544	19,515	43,708	54,217	58,030
Biological sciences	170,175	261,131	275,152	104,111	157,331	161,316	66,064	103,800	113,836
Medical sciences	172,829	247,363	279,574	89,405	126,800	143,911	83,424	120,563	135,663
Other, n.e.c.	17,913	20,615	19,862	7,437	8,935	9,751	10,476	11,680	10,111
Psychology	12,058	13,477	13,483	7,196	8,726	8,611	4,862	4,751	4,872
Social sciences	20,246	18,764	16,140	8,015	6,216	6,162	12,231	12,548	9,978
Economics	5,037	2,893	2,168	1,991	1,642	892	3,046	1,251	1,276
Political science	2,850	1,648	1,960	1,373	646	767	1,477	1,002	1,193
Sociology	3,563	3,122	2,898	1,609	1,467	1,136	1,954	1,655	1,762
Other, n.e.c.	8,796	11,101	9,114	3,042	2,461	3,367	5,754	8,640	5,747
Other sciences, n.e.c.	21,902	49,745	53,484	9,692	12,525	21,158	12,210	37,220	32,326

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-68. Current fund expenditures for research equipment at universities and colleges, by science and engineering field, source of funds, and type of control: fiscal year 2001

[Dollars in thousands]

Field	Total			Federal			Non-Federal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
Total	1,490,417	1,036,387	454,030	823,349	515,148	308,201	667,068	521,239	145,829
Engineering	333,691	247,774	85,917	178,973	119,666	59,307	154,718	128,108	26,610
Aeronautical and astronautical	23,811	17,565	6,246	17,069	12,953	4,116	6,742	4,612	2,130
Bioengineering/bio-medical	14,983	10,848	4,135	7,106	4,565	2,541	7,877	6,283	1,594
Chemical	30,934	22,821	8,113	15,988	11,334	4,654	14,946	11,487	3,459
Civil	32,200	28,490	3,710	12,634	10,386	2,248	19,566	18,104	1,462
Electrical	79,164	59,849	19,315	46,485	32,461	14,024	32,679	27,388	5,291
Mechanical	48,790	31,588	17,202	28,962	16,474	12,488	19,828	15,114	4,714
Metallurgical and materials	49,090	38,783	10,307	22,201	14,499	7,702	26,889	24,284	2,605
Other, n.e.c.	54,719	37,830	16,889	28,528	16,994	11,534	26,191	20,836	5,355
All sciences	1,156,726	788,613	368,113	644,376	395,482	248,894	512,350	393,131	119,219
Physical sciences	239,954	159,829	80,125	160,829	94,437	66,392	79,125	65,392	13,733
Astronomy	14,563	7,705	6,858	12,169	5,668	6,501	2,394	2,037	357
Chemistry	99,956	73,105	26,851	57,733	39,019	18,714	42,223	34,086	8,137
Physics	112,674	73,301	39,373	81,191	45,990	35,201	31,483	27,311	4,172
Other, n.e.c.	12,761	5,718	7,043	9,736	3,760	5,976	3,025	1,958	1,067
Environmental sciences	88,713	72,356	16,357	54,992	41,770	13,222	33,721	30,586	3,135
Atmospheric	13,248	11,269	1,979	10,098	8,227	1,871	3,150	3,042	108
Earth sciences	29,353	23,283	6,070	16,256	11,971	4,285	13,097	11,312	1,785
Oceanography	34,797	29,985	4,812	22,209	17,744	4,465	12,588	12,241	347
Other, n.e.c.	11,315	7,819	3,496	6,429	3,828	2,601	4,886	3,991	895
Mathematical sciences	11,799	8,171	3,628	6,223	3,228	2,995	5,576	4,943	633
Computer sciences	65,129	40,915	24,214	41,916	22,864	19,052	23,213	18,051	5,162
Life sciences	665,018	453,140	211,878	343,194	203,427	139,767	321,824	249,713	72,111
Agricultural sciences	81,149	78,330	2,819	22,494	21,367	1,127	58,655	56,963	1,692
Biological sciences	282,452	178,676	103,776	165,834	95,970	69,864	116,618	82,706	33,912
Medical sciences	281,213	183,069	98,144	144,868	81,737	63,131	136,345	101,332	35,013
Other, n.e.c.	20,204	13,065	7,139	9,998	4,353	5,645	10,206	8,712	1,494
Psychology	14,122	9,318	4,804	9,023	5,194	3,829	5,099	4,124	975
Social sciences	16,946	14,703	2,243	6,469	5,335	1,134	10,477	9,368	1,109
Economics	2,370	1,977	393	970	831	139	1,400	1,146	254
Political science	2,008	1,628	380	784	638	146	1,224	990	234
Sociology	3,072	2,591	481	1,171	949	222	1,901	1,642	259
Other, n.e.c.	9,496	8,507	989	3,544	2,917	627	5,952	5,590	362
Other sciences, n.e.c.	55,045	30,181	24,864	21,730	19,227	2,503	33,315	10,954	22,361

KEY: n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-69. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by fiscal year 2001 total current fund expenditures for research equipment: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	1,293,942	1,317,700	1,420,700	1,490,417	773,580	765,677	797,585	823,349
1 Johns Hopkins U[1]	37,117	35,278	40,204	39,332	20,195	16,231	15,391	16,542
2 MA Institute of Tech	31,276	26,250	37,195	35,776	22,214	20,601	30,256	25,295
3 U of WI-Madison	23,212	23,859	33,102	30,338	12,914	12,938	18,010	16,381
4 Georgia Institute of Tech	22,388	24,331	26,819	25,493	9,815	10,414	11,111	11,962
5 Baylor Col of Medicine	4,465	13,248	20,939	25,079	2,442	6,780	13,657	9,846
6 U of Washington	22,543	36,663	28,166	25,053	14,997	22,514	22,332	19,615
7 U of IL Urbana-Champaign	25,576	27,524	25,609	24,678	19,518	22,903	19,129	16,614
8 Ohio State University	15,930	16,971	21,601	22,754	3,955	4,304	4,218	6,149
9 University of Georgia	17,187	18,292	25,887	22,731	3,132	2,442	2,982	3,028
10 Stanford University	26,271	25,401	20,775	22,197	23,290	21,920	17,220	19,046
Total, 1st 10 institutions	225,965	247,817	280,297	273,431	132,472	141,047	154,306	144,478
11 University of New Mexico	13,019	6,475	13,869	20,123	10,548	4,292	10,617	17,332
12 Pennsylvania State U	15,829	16,476	18,799	19,500	5,803	8,334	9,128	9,713
13 U CA Davis	13,778	14,571	14,346	18,784	7,338	7,471	6,123	8,137
14 U PR Mayaguez Campus	3,069	3,158	4,167	18,627	1,923	1,613	1,598	1,955
15 Cornell University	25,050	27,301	24,166	18,297	14,371	14,554	12,589	12,733
16 U of Central Florida	1,580	3,430	3,318	18,247	992	2,100	901	2,152
17 Washington University	13,365	17,863	19,804	18,224	9,525	14,955	16,983	14,372
18 University of Arizona	14,447	14,566	16,722	17,692	10,197	10,068	10,756	12,654
19 University of Florida	12,756	26,494	12,994	17,592	5,222	16,226	5,401	5,708
20 Louisiana State U System	13,298	16,230	13,525	17,054	2,693	3,797	5,481	4,239
Total, 1st 20 institutions	352,156	394,381	422,007	457,571	201,084	224,457	233,883	233,473
21 University of Kentucky	6,047	7,062	19,486	15,816	3,819	3,827	3,584	4,788
22 University of Michigan	14,354	17,565	18,247	15,591	9,767	11,511	11,498	10,518
23 U TX at Austin	11,448	14,813	15,558	15,146	8,423	8,593	8,494	7,470
24 University of Minnesota	13,827	14,014	16,727	14,823	8,784	8,498	9,232	8,933
25 U CA Los Angeles	12,731	15,013	14,335	14,659	7,114	8,174	8,417	6,523
26 University of Rochester	15,396	14,523	17,317	14,552	13,363	12,717	15,615	12,432
27 Purdue University	14,171	16,527	14,239	13,887	8,321	9,789	7,406	6,495
28 Indiana University	8,486	7,712	8,825	13,753	3,217	3,836	4,207	4,521
29 U CA San Diego	13,923	15,648	13,870	13,323	8,114	7,710	8,624	7,955
30 Yale University	7,817	9,774	10,655	12,980	6,941	8,610	8,577	10,947
Total, 1st 30 institutions	470,356	527,032	571,266	602,101	278,947	307,722	319,537	314,055
31 Columbia U in City of NY	16,866	14,172	10,060	12,929	12,618	12,463	8,549	11,006
32 Carnegie Mellon U	10,241	8,215	8,748	12,875	6,926	5,892	4,485	9,792
33 Texas A&M University	18,513	22,401	18,340	12,630	6,932	11,111	8,865	3,076
34 Michigan State University	9,744	7,930	11,489	12,475	5,357	4,534	6,805	6,243
35 U CA San Francisco	9,740	9,131	12,088	12,434	5,575	4,489	6,604	6,068
36 NC State University	19,152	12,802	9,834	12,194	7,089	5,247	4,519	3,750
37 U of IL Chicago	8,334	8,421	8,482	11,894	3,750	3,096	3,770	5,356
38 University of Chicago	13,037	12,704	11,695	11,589	11,015	11,628	10,344	9,269
39 Naval Postgrad School	10,418 i	10,418 i	10,418 i	11,539 i	10,316 i	10,316 i	10,316 i	11,347 i
40 U TX MD Anderson Cncr Ctr	1,888	5,710	8,419	11,449	734	622	1,718	1,348
Total, 1st 40 institutions	588,289	638,936	680,839	724,109	349,259	377,120	385,512	381,310
41 U of Southern California	9,667	8,148	8,856	11,232	6,061	5,590	6,273	9,269
42 U of MD at College Park	13,045	12,226	7,890	10,993	9,078	8,965	5,011	8,446
43 U of Alaska Fairbanks	6,101 i	6,786	4,938	10,939	3,572 i	1,845	1,343	2,318
44 U of South Florida	7,226	8,201	12,333	10,783	3,682	2,285	3,566	3,643
45 University of Colorado	10,747	6,853	9,852	10,531	9,186	5,886	9,077	9,641
46 Wayne State University	5,706	6,851	5,714	10,500	1,628	1,756	1,961	1,853
47 U CA Berkeley	8,950	9,854	12,730	10,424	5,780	6,295	7,670	6,065
48 Rutgers the State U NJ	9,248	9,544	9,371	10,381	3,267	3,880	4,572	3,611
49 U TX SW Med Ctr at Dallas	6,659	7,282	7,911	10,268	2,825	3,150	3,094	3,099
50 University of Utah	6,900	9,240	10,281	10,004	5,856	6,319	6,909	5,038
Total, 1st 50 institutions	672,538	723,921	770,715	830,164	400,194	423,091	434,988	434,293

See explanatory information and SOURCE at end of table.

Table B-69. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by fiscal year 2001 total current fund expenditures for research equipment: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
51 Harvard University	12,057	11,533	11,712	9,957	10,186	9,418	9,552	8,595
52 U of Iowa	9,568	8,237	8,147	9,862	4,714	4,562	4,916	5,486
53 U of Pennsylvania	10,699	11,617	12,065	9,747	8,820	8,597	9,708	7,959
54 SUNY at Stony Brook	7,106	5,697	8,392	9,349	4,946	3,664	3,255	4,682
55 Florida State University	7,012	7,736	6,559	9,255	5,272	5,751	4,807	3,283
56 Northwestern University	9,850	6,875	10,306	9,244	5,074	4,321	6,262	5,061
57 Univ of Hawaii at Manoa	8,733	10,920	7,160	9,005	5,858	6,673	4,869	6,594
58 California Inst of Tech	29,467	27,234	27,093	8,923	28,136	20,788	16,057	8,141
59 New York University	6,045	5,898	6,740	8,671	4,109	3,256	3,637	5,595
60 University of Miami	8,574	8,801	8,064	8,637	6,573	6,565	5,927	5,944
Total, 1st 60 institutions	781,649	828,469	876,953	922,814	483,882	496,686	503,978	495,633
61 Emory University	5,744	5,124	7,817	8,497	2,950	2,875	4,327	4,148
62 VA Polytech Inst & St U	6,724	7,609	8,429	8,457	2,688	3,218	2,208	1,838
63 University of Oklahoma	6,222	8,041	10,189	8,283	2,748	2,879	4,436	3,030
64 University of Pittsburgh	4,415	5,582	8,076	8,162	3,453	4,052	6,006	6,166
65 Case Western Reserve U	8,625	8,524	6,074	8,037	4,325	5,381	3,382	5,049
66 U of Alabama Birmingham	12,156	6,934	8,017	8,008	9,581	3,603	4,779	6,398
67 Mississippi State U	5,833	5,680	3,650	7,837	3,559	4,777	2,594	5,511
68 Princeton University	8,963	8,020	6,378	7,767	7,465	7,130	4,797	6,071
69 Arizona State University	5,791	7,025	6,176	7,740	2,893	2,990	2,092	3,382
70 U TX Hlth Sci Ctr San Ant	3,002	2,901	4,098	7,534	1,860	1,236	2,238	3,273
Total, 1st 70 institutions	849,124	893,909	945,857	1,003,136	525,404	534,827	540,837	540,499
71 University of Notre Dame	5,394	4,050	4,753	7,386	2,932	2,108	3,592	3,308
72 Yeshiva University	4,350	7,836	5,998	7,331	3,530	2,891	2,702	5,865
73 University of Delaware	6,529	6,330	4,624	7,245	2,346	2,798	2,414	3,120
74 U Mississippi, All Camp	2,378	1,207	5,484	7,141	1,663	726	4,301	5,604
75 Duke University	13,602	11,385	6,987	7,039	8,307	7,441	5,016	5,081
76 Kansas State University	6,819	8,846	8,479	6,857	3,674	3,683	3,763	3,745
77 U CA Irvine	5,716	6,643	7,487	6,830	2,900	4,051	4,702	4,277
78 U of South Carolina	3,659	6,404	6,749	6,821	3,045	3,845	4,837	3,860
79 U of MA Amherst	6,704	5,915	6,207	6,747	4,154	3,403	4,223	3,942
80 University of Connecticut	6,331	5,063	6,858	6,673	1,191	1,734	2,081	3,748
Total, 1st 80 institutions	910,606	957,588	1,009,483	1,073,206	559,146	567,507	578,468	583,049
81 U of Arkansas Main	4,112	3,281	5,927	6,503	1,548	1,064	2,107	2,277
82 Brown University	3,772	2,787	3,940	6,302	2,675	2,397	2,941	4,977
83 U of NC Chapel Hill	8,341	5,105	5,372	6,299	3,966	2,422	3,537	3,232
84 U of Nebraska at Lincoln	6,547e	3,584	3,639	6,272	2,339e	351	368	2,393
85 University of Virginia	7,049	7,201	6,440	6,198	5,194	6,061	4,934	5,398
86 SUNY at Albany	1,454	2,808	5,776	6,178	530	1,368	2,391	2,929
87 Rockefeller U, The	3,965	3,444	3,338	6,080	1,381	1,376	1,359	3,050
88 Clemson University	7,597	6,051	5,084	6,051	2,760	1,479	1,830	2,928
89 U Med & Dent of NJ	2,594	1,898	3,066	5,935	1,156	833	1,683	3,319
90 U of New Hampshire	3,784	5,553	6,778	5,914	2,563	4,428	4,324	3,861
Total, 1st 90 institutions	959,821	999,300	1,058,843	1,134,938	583,258	589,286	603,942	617,413

See explanatory information and SOURCE at end of table.

Table B-69. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by fiscal year 2001 total current fund expenditures for research equipment: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
91 Iowa State University	6,201	5,414	4,763	5,837	1,977	1,566	1,401	1,908
92 Oklahoma State University	4,718	5,894	6,884	5,823	1,316	1,475	1,388	1,744
93 U CA Santa Barbara	5,092	6,862	7,649	5,679	4,134	5,604	5,670	4,309
94 Colorado State University	8,405	7,653	7,078	5,602	4,634	4,513	4,228	3,266
95 Auburn University	3,349	3,062	4,334	5,398	1,419	1,382	1,388	2,321
96 Texas Tech University	4,462	3,958	6,528	5,396	1,939	1,554	2,461	1,968
97 Vanderbilt University	5,008	7,450	5,021	5,303	3,932	6,672	3,801	4,581
98 U TX Med Br at Galveston	3,067	2,999	3,494	5,163	1,839	1,541	2,061	2,215
99 U of Missouri Columbia	5,590	6,348	6,537	4,919	1,665	2,488	2,514	2,009
100 University of Cincinnati	6,001	2,474	5,498	4,828	1,724	764	1,864	1,539
Total, 1st 100 institutions	1,011,714	1,051,414	1,116,629	1,188,886	607,837	616,845	630,718	643,273
Total, all other sampled institutions	282,228	266,286	304,071	301,531	165,743	148,832	166,867	180,076

[1] Johns Hopkins University includes the Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-70. R&D expenditures at university-administered federally funded research and development centers, by character of work: fiscal years 1953-2001

[Dollars in millions]

Fiscal year	Total	Character of work			
		Basic research		Applied research and development	
		Amount	Percent of total	Amount	Percent of total
1953	121	33	27.3	88	72.7
1954	141	39	27.7	102	72.3
1955	180	49	27.2	131	72.8
1956	194	51	26.3	143	73.7
1957	240	65	27.1	175	72.9
1958	293	78	26.6	215	73.4
1959	338	92	27.2	246	72.8
1960	360	97	26.9	263	73.1
1961	410	115	28.0	295	72.0
1962	470	136	28.9	334	71.1
1963	530	159	30.0	371	70.0
1964	629	191	30.4	438	69.6
1965	629	208	33.1	421	66.9
1966	630	227	36.0	403	64.0
1967	673	250	37.1	423	62.9
1968	719	276	38.4	443	61.6
1969	725	275	37.9	450	62.1
1970	737	269	36.5	468	63.5
1971	716	260	36.3	456	63.7
1972	753	244	32.4	509	67.6
1973	817	296	36.2	521	63.8
1974	865	390	45.1	475	54.9
1975	987	439	44.5	548	55.5
1976	1,147	512	44.6	635	55.4
1977	1,384	600	43.4	784	56.6
1978[1]	1,717	--	--	--	--
1979	1,935	1,022	52.8	913	47.2
1980	2,246	1,132	50.4	1,114	49.6
1981	2,486	1,270	51.1	1,216	48.9
1982	2,479	1,327	53.5	1,152	46.5
1983	2,737	1,484	54.2	1,253	45.8
1984	3,150	1,690	53.6	1,461	46.4
1985	3,523	1,765	50.1	1,758	49.9
1986	3,895	1,876	48.2	2,018	51.8
1987	4,206	2,033	48.3	2,173	51.7
1988	4,531	2,245	49.6	2,285	50.4
1989	4,730	2,352	49.7	2,377	50.3
1990	4,832	2,428	50.2	2,404	49.8
1991	5,076	2,592	51.1	2,484	48.9
1992	5,245	2,840	54.2	2,404	45.8
1993	5,290	2,933	55.4	2,357	44.6
1994	5,271	2,998	56.9	2,273	43.1
1995	5,363	2,742	51.1	2,622	48.9
1996	5,380	2,580	48.0	2,800	52.0
1997	5,440	2,683	49.3	2,757	50.7
1998	5,531	2,636	47.7	2,895	52.3
1999	5,644	2,732	48.4	2,912	51.6
2000	5,675	2,863	50.5	2,812	49.5
2001	5,912	2,904	49.1	3,008	50.9

[1] Separate data for basic research and applied research and development were not collected for fiscal year 1978.

KEY: -- = not available

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-71. R&D expenditures at university-administered federally funded research and development centers, by science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total	5,270,884	5,363,351	5,380,278	5,440,490	5,531,324	5,643,676	5,675,275	5,912,251
Engineering	1,786,215	1,939,425	1,869,832	2,041,582	2,196,497	2,168,580	2,169,524	1,673,272
Aeronautical and astronautical	223,562	339,325	332,884	370,590	386,771	400,690	353,280	132,816
Bioengineering/bio-medical	--	--	--	40,515	46,169	53,023	46,998	46,818
Chemical	78,613	68,742	68,650	63,124	60,804	63,364	63,963	63,954
Civil	30,703	31,354	29,427	36,073	41,129	45,527	196,827	196,831
Electrical	508,204	460,668	468,574	474,815	600,297	557,583	552,463	489,140
Mechanical	502,033	535,102	549,156	539,365	600,921	591,379	579,229	418,580
Metallurgical and materials	64,274	65,889	62,109	63,378	62,442	63,881	70,031	46,892
Other, n.e.c.	378,826	438,345	359,032	453,722	397,964	393,133	306,733	278,241
All sciences	3,484,669	3,423,926	3,510,446	3,398,908	3,334,827	3,475,096	3,505,751	4,238,979
Physical sciences	2,155,549	2,182,412	2,163,671	2,103,076	1,974,459	2,073,687	1,934,516	2,878,502
Astronomy	157,987	141,826	147,269	132,459	142,924	145,110	144,164	1,009,591
Chemistry	273,236	251,704	244,274	253,451	266,992	277,312	288,104	282,273
Physics	1,630,359	1,688,458	1,625,074	1,439,675	1,327,239	1,381,658	1,381,320	1,436,551
Other, n.e.c.	93,967	100,424	147,054	277,491	237,304	269,607	120,928	150,087
Environmental sciences	396,919	368,294	400,512	462,826	468,718	433,122	410,175	529,909
Atmospheric	183,995	187,953	208,820	227,590	202,661	194,671	177,450	182,952
Earth sciences	59,455	50,864	63,337	123,509	164,524	146,924	146,006	254,631
Oceanography	13,406	11,997	12,489	2,526	80	0	0	3,331
Other, n.e.c.	140,063	117,480	115,866	109,201	101,453	91,527	86,719	88,995
Mathematical sciences	113,971	83,330	98,501	29,504	29,747	46,684	191,600	228,958
Computer sciences	618,965	572,435	626,078	652,078	699,167	719,606	774,932	370,254
Life sciences	122,311	120,484	126,482	134,090	150,483	181,799	176,147	199,780
Agricultural sciences	1,216	1,067	1,286	1,320	0	0	0	0
Biological sciences	99,479	90,100	105,354	101,212	122,085	137,946	152,125	174,479
Medical sciences	13,059	20,875	13,663	19,448	18,832	29,557	11,348	12,627
Other, n.e.c.	8,557	8,442	6,179	12,110	9,566	14,296	12,674	12,674
Psychology	807	0	600	602	0	0	0	0
Social sciences	10,594	9,047	7,660	625	0	564	0	15,610
Economics	540	338	294	317	0	560	0	215
Political science	0	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0	0
Other, n.e.c.	10,054	8,709	7,366	308	0	4	0	15,395
Other sciences, n.e.c.	65,553	87,924	86,942	16,107	12,253	19,634	18,381	15,966

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-72. Federally financed R&D expenditures at university-administered federally funded research and development centers, by science and engineering field: fiscal years 1994-2001

[Dollars in thousands]

Field	1994	1995	1996	1997	1998	1999	2000	2001
Total	5,202,526	5,272,548	5,299,366	5,321,913	5,404,630	5,484,686	5,517,119	5,742,594
Engineering	1,769,468	1,914,876	1,849,464	2,005,888	2,156,261	2,127,385	2,132,074	1,637,377
Aeronautical and astronautical	222,178	338,161	331,875	369,335	385,600	399,211	352,714	132,250
Bioengineering/bio-medical	--	--	--	39,913	45,386	52,097	46,250	46,086
Chemical	77,714	67,841	67,713	61,745	59,482	62,079	62,909	62,861
Civil	30,275	30,960	29,067	35,511	40,425	44,736	193,814	193,814
Electrical	503,721	453,185	462,651	464,213	587,828	544,458	540,201	477,397
Mechanical	497,730	525,487	542,243	526,898	586,198	576,737	565,745	406,605
Metallurgical and materials	63,828	65,464	61,715	62,874	61,881	63,255	69,361	46,222
Other, n.e.c.	374,022	433,778	354,200	445,399	389,461	384,812	301,080	272,142
All sciences	3,433,058	3,357,672	3,449,902	3,316,025	3,248,369	3,357,301	3,385,045	4,105,217
Physical sciences	2,132,477	2,147,101	2,138,207	2,065,092	1,927,157	2,015,409	1,883,008	2,818,171
Astronomy	157,580	141,621	147,037	131,688	142,756	144,698	143,821	1,009,419
Chemistry	270,088	247,826	241,416	248,001	260,439	270,105	281,390	275,513
Physics	1,617,090	1,662,116	1,606,907	1,414,325	1,300,773	1,353,689	1,357,436	1,408,189
Other, n.e.c.	87,719	95,538	142,847	271,078	223,189	246,917	100,361	125,050
Environmental sciences	378,043	352,146	382,726	441,900	449,889	405,265	382,366	505,407
Atmospheric	169,125	176,071	194,896	214,027	191,968	184,636	167,969	178,885
Earth sciences	58,355	49,644	62,095	120,258	159,533	131,956	129,787	237,978
Oceanography	13,406	11,997	12,489	2,526	78	0	0	3,331
Other, n.e.c.	137,157	114,434	113,246	105,089	98,310	88,673	84,610	85,213
Mathematical sciences	112,468	81,796	96,973	28,694	28,890	45,519	187,588	224,858
Computer sciences	616,498	568,227	623,471	646,633	691,995	708,997	762,341	356,030
Life sciences	118,182	113,092	115,446	119,877	141,277	165,838	153,789	172,044
Agricultural sciences	1,216	1,067	1,286	1,320	0	0	0	0
Biological sciences	95,702	84,366	96,070	88,679	116,272	125,311	133,163	150,723
Medical sciences	12,784	19,277	11,960	17,881	15,561	26,414	8,152	8,847
Other, n.e.c.	8,480	8,382	6,130	11,997	9,444	14,113	12,474	12,474
Psychology	806	0	600	602	0	0	0	0
Social sciences	10,465	8,945	7,580	625	0	564	0	15,610
Economics	540	338	294	317	0	560	0	215
Political science	0	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0	0
Other, n.e.c.	9,925	8,607	7,286	308	0	4	0	15,395
Other sciences, n.e.c.	64,119	86,365	84,899	12,602	9,161	15,709	15,953	13,097

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-73. R&D expenditures at university-administered federally funded research and development centers, by science and engineering field: fiscal year 2001

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	5,912,251	1,673,272	2,878,502	529,909	599,212	199,780	0	15,610	15,966
1 Jet Propulsion Laboratory	1,355,463	127,058	957,357	184,933	58,913	11,592	0	15,610	0
2 Los Alamos National Lab	1,333,194e	759,755e	419,803e	0e	143,191e	10,445e	0e	0e	0e
3 Lawrence Livermore Lab	1,090,875	389,690	346,078	106,036	208,110	40,961	0	0	0
4 Argonne Natl Laboratory	478,391	180,064	152,353	89,918	18,871	37,185	0	0	0
5 Lawrence Berkeley Lab	408,487	10,387e	192,135e	26,065e	72,628e	97,368e	0e	0e	9,904e
6 MIT Lincoln Laboratory	348,339e	201,026e	78,620e	0e	60,402e	2,229e	0e	0e	6,062e
7 Fermi Natl Accel Lab	310,928	0	310,928	0	0	0	0	0	0
8 Stanford Linear Accel Ctr	145,979	0	145,979	0	0	0	0	0	0
9 Natl Ctr Atmospheric Res	119,846	0	0	119,846	0	0	0	0	0
10 T J Natl Accel Facility	102,202	0	102,202	0	0	0	0	0	0
Total, 1st 10 institutions	5,693,704	1,667,980	2,705,455	526,798	562,115	199,780	0	15,610	15,966
11 Plasma Physics Lab	76,021	0	74,395	1,626	0	0	0	0	0
12 Natl Optical Astro Obs	37,364	0	37,364	0	0	0	0	0	0
13 Software Engineering Inst	37,052	0	0	0	37,052	0	0	0	0
14 AUI-Natl Radio Astr Obs	34,208	0	34,208	0	0	0	0	0	0
15 Ames Laboratory	22,916	5,292	17,579	0	45	0	0	0	0
16 Natl Astron & Ionos Ctr	10,986	0	9,501	1,485	0	0	0	0	0
Total, 1st 16 institutions	5,912,251	1,673,272	2,878,502	529,909	599,212	199,780	0	15,610	15,966

KEY: e = estimated

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001

Table B-74. Total and federally financed R&D expenditures at university-administered federally funded research and development centers, ranked by fiscal year 2001 total R&D expenditures: fiscal years 1998-2001

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1998	1999	2000	2001	1998	1999	2000	2001
Total, all institutions	5,531,324	5,643,676	5,675,275	5,912,251	5,404,630	5,484,686	5,517,119	5,742,594
1 Jet Propulsion Laboratory	1,232,170	1,232,170e	1,254,349e	1,355,463	1,232,170	1,232,170e	1,254,349e	1,355,463
2 Los Alamos National Lab	1,187,000	1,278,901	1,333,194	1,333,194e	1,168,302	1,258,082	1,312,974	1,312,974e
3 Lawrence Livermore Lab	1,076,800	1,075,536	1,041,234	1,090,875	1,032,192	1,028,629	993,962	1,049,675
4 Argonne Natl Laboratory	477,133	461,985	461,920	478,391	457,515	444,479	444,536	452,860
5 Lawrence Berkeley Lab	330,300	345,441	367,113	408,487	308,870	291,271	311,225	337,757
6 MIT Lincoln Laboratory	364,783	353,321	348,339	348,339e	356,661	345,762	341,809	341,809e
7 Fermi Natl Accel Lab	282,049	296,105	297,082	310,928	282,049	296,105	297,082	310,928
8 Stanford Linear Accel Ctr	131,680	144,711	149,438	145,979	131,680	144,711	149,438	145,979
9 Natl Ctr Atmospheric Res	130,865	132,587	115,510	119,846	121,121	123,327	106,819	116,553
10 T J Natl Accel Facility	75,963	74,604	79,342	102,202	74,963	73,920	78,143	100,855
Total, 1st 10 institutions	5,288,743	5,395,361	5,447,521	5,693,704	5,165,523	5,238,456	5,290,337	5,524,853
11 Plasma Physics Lab	53,005	53,693	65,305	76,021	49,699	52,027	64,738	75,387
12 Natl Optical Astro Obs	38,283	37,308	36,409	37,364	38,283	37,308	36,409	37,364
13 Software Engineering Inst	30,113	31,821	55,955	37,052	30,113	31,821	55,955	37,052
14 AUI-Natl Radio Astr Obs	34,708	37,162	35,536	34,208	34,540	36,771	35,313	34,043
15 Ames Laboratory	24,637	25,438	23,281	22,916	24,637	25,438	23,281	22,916
16 Natl Astron & Ionos Ctr	11,085	10,950	11,268	10,986	11,085	10,922	11,086	10,979
17 Oak Ridge Associated Univ	50,750	51,943	--	--	50,750	51,943	--	--
Total, 1st 17 institutions	5,531,324	5,643,676	5,675,275	5,912,251	5,404,630	5,484,686	5,517,119	5,742,594

KEY: -- = not available
e = estimated

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2001