

**Table 11. Total R&D expenditures at universities and colleges:
fiscal years 1988-95**

[Dollars in thousands]

Institution and ranking	1995	1994	1993	1992	1991	1990	1989	1988
Total, all institutions	22,101,220	21,039,055	19,948,068	18,816,026	17,583,516	16,284,988	14,976,037	13,463,043
1 Johns Hopkins Univ ¹	788,687	784,043	745,515	735,542	710,095	668,915	648,395	557,016
2 University of Michigan	443,070	430,778	425,868	393,059	363,582	310,578	280,905	250,169
3 U WI Madison	403,541	392,718	372,362	352,706	326,489	309,841	285,982	271,418
4 University of Washington	389,160	353,945	335,329	313,514	274,423	245,313	221,712	190,735
5 MA Institute of Tech ²	370,800	374,768	377,413	333,908	323,535	311,767	287,157	270,584
6 Texas A&M University	362,539	355,750	322,691	305,390	288,005	272,800	250,706	231,161
7 U CA San Diego	357,333	331,901	307,051	282,114	261,422	237,032	216,991	200,472
8 Cornell University ²	343,786	312,683	310,949	299,342	309,535	300,144	286,733	271,659
9 University of Minnesota	336,524	317,865	332,033	317,026	331,471	292,046	258,614	236,115
10 Pennsylvania State U	330,881	302,997	282,659	278,305	267,816	256,926	219,930	188,444
Total, 1st 10 institutions	4,126,321	3,957,448	3,811,870	3,610,906	3,456,373	3,205,362	2,957,125	2,667,773
11 U CA San Francisco	329,742	312,393	314,599	295,784	268,700	238,278	219,446	193,289
12 Stanford University	318,871	318,561	306,676	367,980	314,941	299,511	285,994	277,504
13 U CA Los Angeles	303,668	279,869	277,974	270,954	250,033	246,795	227,828	209,338
14 University of Arizona	292,351	269,939	235,528	221,999	213,726	195,633	174,119	155,464
15 U CA Berkeley ²	291,200	289,632	284,346	284,545	258,038	231,061	209,967	186,372
16 Harvard University	276,422	278,459e	257,207	253,126	229,939	220,812	209,519	190,429
17 U of Pennsylvania	272,393	251,461	233,829	222,424	198,221	189,390	173,744	159,218
18 University of Colorado	249,695	234,267	193,217	176,266	160,526	154,723	143,720	128,015
19 Ohio State University	246,287	230,515	221,460	203,291	194,919	178,569	173,485	154,652
20 U of Illinois Urbana	246,174	245,407	252,811	251,970	243,380	225,634	210,590	197,393
Total, 1st 20 institutions	6,953,124	6,667,951	6,389,517	6,159,245	5,788,796	5,385,768	4,985,537	4,519,447
21 Columbia University	244,991	236,417	204,710	199,516	194,666	182,769	172,145	160,976
22 U CA Davis	244,116	230,147	223,758	209,282	200,664	198,075	180,297	154,655
23 Yale University	231,819	224,939	226,850	211,569	193,893	180,706	171,139	162,188
24 U TX Austin	228,676	260,602	249,158	228,545	237,043	228,203	193,337	172,608
25 U of Southern California	222,159	207,275	200,822	194,740	175,595	169,102	162,013	150,009
26 Duke University	218,703	220,220	202,434	188,678	164,232	140,708	131,090	113,968
27 Georgia Institute of Tech	211,875	193,630	175,873	180,263	176,729	168,193	174,664	143,051
28 U MD College Park	209,945	198,348	229,344	219,041	206,432	166,022	149,510	135,531
29 U of NC Chapel Hill	209,118	201,622	179,157	161,549	142,681	123,113	122,097	107,039
30 Washington University	209,100	192,378	179,329	170,339	160,464	151,249	128,419	117,829
Total, 1st 30 institutions	9,183,626	8,833,529	8,460,952	8,122,767	7,641,195	7,093,908	6,570,248	5,937,301
31 University of Georgia	206,256	187,849	172,274	165,279	162,992	156,742	145,953	137,692
32 Purdue University	203,419	172,733	149,032	140,260	136,325	130,379	124,323	118,797
33 Rutgers the State U NJ	192,263	173,211	161,025	162,089	151,335	137,985	124,574	105,150
34 Baylor Col of Medicine	190,375	186,865	172,252	167,998	161,084	155,122	134,681	106,814
35 Louisiana St U, All Camp	186,723	165,857	158,823	151,844	147,626	135,849	122,357	114,698
36 University of Pittsburgh	186,457	185,377	178,778	157,250	130,322	117,716	111,265	98,609
37 NC State U Raleigh	180,191	173,407	155,624	143,008	142,606	131,133	123,441	110,286
38 Northwestern University	173,731	169,949	162,299	141,975	144,809	133,151	118,991	102,755
39 U of Iowa	164,893	157,036	148,811	135,418	124,058	115,778	105,900	94,552
40 Michigan State University	163,093	163,285	150,861	142,308	133,249	126,987	121,456	116,320
Total, 1st 40 institutions	11,031,027	10,569,098	10,070,731	9,630,196	9,075,601	8,434,750	7,803,189	7,042,974
41 U of Alabama Birmingham	158,779	141,735	133,790	117,844	113,317	110,603	100,666	85,030
42 University of Rochester ²	158,539	167,485	161,810	139,992	131,777	129,011	123,997	114,061
43 Iowa State University ²	154,932	155,982	148,459	132,580	134,657	116,270	103,241	86,726
44 University of Florida	154,217	148,592	142,966	140,189	140,257	139,678	125,770	107,177
45 U of Tennessee System	151,316	153,340	143,662	131,240	128,418	116,644	113,187	104,179
46 New York University	148,935	139,202	129,774	122,399	112,106	108,511	104,451	100,872
47 VA Polytech Inst & St U	148,501	148,313	135,771	130,994	125,256	121,423	104,266	89,955
48 Emory University	148,178	136,186	120,125	101,398	91,940	82,774	64,713	60,896
49 Indiana University	145,512	136,617	127,877	117,565	102,461	89,191	81,793	73,526
50 SUNY Buffalo	143,768	141,092	128,203	128,428	113,441	109,190	100,291	87,635
Total, 1st 50 institutions	12,543,704	12,037,642	11,443,168	10,892,825	10,269,231	9,558,045	8,825,564	7,953,031

See explanatory information and SOURCE at end of table.

**Table 11. Total R&D expenditures at universities and colleges:
fiscal years 1988-95**

[Dollars in thousands]

Institution and ranking	1995	1994	1993	1992	1991	1990	1989	1988
51 Case Western Reserve U	141,089	133,272	124,691	118,391	104,199	93,384	86,168	77,303
52 University of Connecticut	139,956	136,740	133,054	124,010	123,794	117,932	109,328	89,630
53 California Inst of Tech ²	138,016	127,946	115,439	111,733	115,526	105,730	98,731	92,530
54 University of Virginia	136,679	129,504	115,786	110,103	96,733	96,815	81,281	74,572
55 University of New Mexico	129,354	90,315	76,736	72,863	67,344	57,728	52,970	47,729e
56 University of Miami	128,736	121,475	120,875	104,165	96,979	94,344	90,298	70,783
57 University of Chicago ²	126,261	121,902	111,877	118,123	113,289	117,955	109,429	98,541
58 Carnegie Mellon U ²	125,659	122,580	118,261	110,571	103,030	100,201	101,635	94,051
59 U TX SW Med Ctr Dallas	125,301	118,398	114,258	102,263	94,511	85,919	79,920	70,392
60 Oregon State University	123,402	119,772	114,004	107,573	96,199	90,688	91,355	88,953
Total, 1st 60 institutions	13,858,157	13,259,546	12,588,149	11,972,620	11,280,835	10,518,741	9,726,679	8,757,515
61 U of Missouri Columbia	122,870	121,256	106,193	97,242	96,748	88,181	74,055	66,365
62 SUNY Stony Brook	122,611	113,251	107,817	98,906	90,790	82,236	79,455	79,410
63 U TX MD Anderson Cntr	122,181	122,357	127,475	112,121	108,988	91,283	85,903	75,642
64 Colorado State University	122,172	112,457	115,385	107,339	80,474	73,967	64,351	59,369
65 University of IL Chicago	119,381	113,741	106,952	102,267	90,520	85,268	83,329	75,922
66 University of Kentucky	111,934	105,539	102,911	92,244	81,137	74,959	69,532	69,003
67 Vanderbilt University	111,224	110,105	96,181	95,447	80,759	75,062	65,218	60,591
68 U CA Irvine	109,908	104,778	100,631	89,275	82,523	78,074	66,806	60,100
69 U of MD Baltimore	107,874	110,866	111,772	100,312	100,163	83,689	75,854	68,787
70 U of Nebraska Lincoln	107,721	102,746	94,959	91,427	87,529	77,598	68,281	60,788
Total, 1st 70 institutions	15,016,033	14,376,642	13,658,425	12,959,200	12,180,466	11,329,058	10,459,463	9,433,492
71 Wayne State University	106,140	94,632	85,627	81,127	69,997	62,455	59,521	50,509
72 University of Utah	105,642	103,771	105,263	108,486	94,621	89,018	83,340	75,789
73 Princeton University ²	104,157	99,287	95,561	93,958	92,002	91,514	82,914	76,891
74 Boston University	103,709	90,504	91,158	83,701	74,881	73,651	66,325	61,505
75 Georgetown University	102,421	82,661	73,785	64,937	60,454	50,867	53,597	44,783
76 University of Oklahoma	102,337	95,747	92,019	92,146	79,777	58,645	53,956	50,047
77 University of Kansas	100,702	95,701	85,134	75,004	65,982	61,144	57,111	51,723
78 Tulane University	100,231	83,885	75,634	72,190	71,781	56,407	45,195	42,619
79 Washington State U	96,810	94,819	92,434	85,080	75,244	66,856	55,173	51,319
80 U Med & Dent NJ	96,365	86,866	76,410	84,505	80,787	71,789	54,451	42,027
Total, 1st 80 institutions	16,034,547	15,304,515	14,531,450	13,800,334	12,945,992	12,011,404	11,071,046	9,980,704
81 Yeshiva University	94,739e	92,881	89,636	87,196	86,721	83,968	74,496	75,383
82 Auburn University	92,852	75,738	68,151	66,773	69,913	66,795	53,814	52,737
83 U of South Florida	92,758	86,186	75,322	68,713	72,948	76,404	60,973	40,396
84 CUNY Mt Sinai Sch Med	92,008	86,179	75,337	75,561	66,310	63,752	56,856	49,727
85 University of Cincinnati	91,159	93,599	92,512	90,279	80,598	74,461	69,831	60,479
86 U TX Hlth Sci Ctr San Ant	87,336	83,535	75,239	65,179	51,768	45,663	42,501	39,673
87 Florida State University	86,060	76,588	62,929	50,178	53,811	62,933	55,245	50,679
88 Clemson University	82,883	76,572	78,569	77,579	70,236	66,664	56,699	49,375
89 Utah State University	82,468	79,085	75,835	89,776	94,167	86,450	69,944	59,273
90 New Mexico State U	81,455	80,286	85,974	83,900	78,736	71,288	60,930	61,001
Total, 1st 90 institutions	16,918,265	16,135,164	15,310,954	14,555,468	13,671,200	12,709,782	11,672,335	10,519,427
91 Woods Hole Oceanograph	80,235	81,345	81,519	82,845	76,979e	71,747	74,881	58,700
92 U of South Carolina	79,710	74,001	57,062	54,360	55,091	47,477	40,421	31,836
93 U CA Santa Barbara	78,737	73,619	68,775	66,007	59,593	59,750	50,067	46,598
94 University Hawaii Manoa	78,429	70,079	73,961	80,258	78,166	76,525	70,733	64,278
95 Rockefeller University	77,285	74,458	74,396	75,102	74,090	75,245	73,945	68,588
96 Tufts University	77,093	73,749	68,519e	60,891e	47,748	47,009	50,424	54,225
97 Arizona State University	77,009	62,563	66,142	69,346	63,489	59,849	44,347	39,510
98 Virginia Commonwealth U	76,529	76,597	77,097	69,189	65,608	62,730	52,193	42,951
99 Oklahoma State University	75,906	70,808	72,920	71,238	67,492	65,685	53,655	56,636
100 Oregon Health Sciences U	74,726	63,875	56,860	49,313	41,661	41,420	35,097	29,509
Total, 1st 100 institutions	17,693,924	16,856,258	16,008,205	15,234,017	14,301,117	13,317,219	12,218,098	11,012,258
Total, all other sampled insts.	4,183,081	3,979,299	3,939,863	3,582,009	3,282,399	2,967,769	2,757,939	2,450,785
Estimated total non-sampled insts.	224,215	203,498	0	0	0	0	0	0

¹ Johns Hopkins University includes Applied Physics Laboratory, with \$447 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.

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

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

SOURCE: National Science Foundation/SRS, Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1995