TABLE 8. Federally financed R&D expenditures at public universities and colleges, by science and engineering field: FY 1997–2004

(Dollars in thousands)

Field	1997	1998	1999	2000	2001	2002	2003	2004
All federal R&D expenditures	8,570,877	9,072,312	9,716,099	10,653,651	11,717,336	13,394,141	15,299,066	16,948,937
Science	7,198,482	7,630,998	8,193,826	9,019,977	9,886,990	11,340,836	13,022,687	14,491,211
Computer sciences	209,821	230,433	285,441	306,282	335,431	396,938	547,439	606,295
Environmental sciences	753,513	788,094	824,531	852,972	905,909	991,152	1,114,011	1,211,654
Atmospheric sciences	156,847	172,048	176,327	174,976	185,260	202,386	240,651	247,026
Earth sciences	172,399	200,834	221,706	242,138	243,328	275,556	338,486	415,674
Oceanography	313,399	313,823	324,574	341,318	365,326	390,907	432,853	437,512
Environmental sciences, nec	110,868	101,389	101,924	94,540	111,995	122,303	102,021	111,442
Life sciences	4,562,971	4,873,519	5,241,285	5,860,863	6,495,943	7,532,779	8,673,785	9,777,641
Agricultural sciences	521,933	508,316	528,466	560,303	594,606	665,849	734,316	836,959
Biological sciences	1,531,391	1,672,990	1,857,214	2,138,422	2,196,886	2,551,679	2,968,099	3,236,476
Medical sciences	2,345,951	2,546,439	2,699,819	2,957,029	3,449,475	4,003,350	4,600,062	5,294,393
Life sciences, nec	163,696	145,774	155,786	205,109	254,976	311,901	371,308	409,813
Mathematical sciences	107,071	115,756	109,975	123,752	135,301	158,707	177,272	186,959
Physical sciences	946,175	1,003,504	1,056,890	1,138,295	1,182,348	1,302,906	1,430,169	1,559,973
Astronomy	98,611	110,243	128,855	144,684	138,802	155,898	155,415	158,603
Chemistry	349,933	361,584	382,765	411,160	438,923	509,423	567,153	636,849
Physics	416,618	429,547	512,840	547,439	559,680	590,735	652,475	706,236
Physical sciences, nec	81,013	102,130	32,430	35,012	44,943	46,850	55,126	58,285
Psychology	198,733	216,081	219,864	248,366	282,645	338,762	394,109	414,808
Social sciences	294,478	310,748	355,445	365,892	412,279	472,401	523,528	543,258
Economics	64,862	65,795	68,404	68,565	71,322	81,595	85,948	86,132
Political sciences	27,415	28,447	29,585	31,117	36,955	35,982	54,675	62,675
Sociology	87,852	85,646	84,473	97,361	110,330	138,273	137,830	136,164
Social sciences, nec	114,349	130,860	172,983	168,849	193,672	216,551	245,075	258,287
Sciences, nec	125,720	92,863	100,395	123,555	137,134	147,191	162,374	190,623
Engineering	1,372,395	1,441,314	1,522,273	1,633,674	1,830,346	2,053,305	2,276,379	2,457,726
Aeronautical/astronautical engineering	100,864	96,801	121,651	116,136	175,878	159,042	206,861	230,717
Bioengineering/biomedical engineering	29,111	26,487	29,590	41,335	63,826	96,985	93,091	118,822
Chemical engineering	113,651	116,970	119,598	130,777	141,520	152,024	167,613	182,347
Civil engineering	155,174	156,426	168,424	180,910	204,721	228,479	249,663	266,609
Electrical engineering	377,082	433,080	416,135	452,438	463,124	525,014	595,808	632,793
Mechanical engineering	178,956	192,166	223,369	218,523	240,239	306,760	318,447	348,739
Metallurgical/materials engineering	148,402	146,223	141,003	152,143	169,057	179,770	212,375	238,334
Engineering, nec	269,155	273,161	302,503	341,412	371,981	405,231	432,521	439,365

nec = not elsewhere classified.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2004.