

Appendix table 5-36

(Page 1 of 3)

U.S. S&E articles, by field and sector: 1995–2005

Field/sector	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
All fields.....	194,255	192,790	189,477	189,813	190,390	188,125	193,066	187,400	202,475	192,913	214,557
FFRDCs	5,383	5,105	5,184	5,069	5,181	5,009	5,204	4,840	5,692	5,328	5,969
Federal government.....	15,287	14,745	14,093	13,942	13,734	13,573	13,822	13,253	13,989	13,313	14,418
State/local government.....	1,883	1,810	1,794	1,835	1,798	1,755	1,873	1,803	1,814	1,756	1,968
Academic institutions	139,168	139,379	137,668	138,206	138,472	137,105	140,885	137,388	148,758	142,382	159,972
Industry.....	15,671	14,822	13,988	13,894	14,030	13,644	13,839	13,287	14,184	12,988	13,489
Private nonprofit.....	15,302	15,082	14,910	14,907	15,231	15,497	15,903	15,121	16,221	15,653	16,980
Joint sectors.....	228	248	251	200	331	337	353	390	396	461	509
Unknown sector.....	1,333	1,600	1,589	1,760	1,613	1,206	1,188	1,318	1,420	1,033	1,252
Engineering	12,636	11,702	11,760	11,815	12,312	11,637	12,560	12,475	13,467	12,671	14,455
FFRDCs	737	695	884	803	778	754	906	726	887	814	928
Federal government.....	1,025	845	908	860	893	814	886	843	885	828	955
State/local government.....	45	33	36	35	96	33	31	161	91	58	86
Academic institutions	7,869	7,451	7,296	7,452	7,821	7,426	8,212	8,265	8,927	8,789	10,124
Industry.....	2,664	2,405	2,342	2,355	2,404	2,307	2,280	2,222	2,378	1,909	2,080
Private nonprofit.....	215	159	168	177	181	190	154	142	160	173	158
Joint sectors.....	3	3	12	6	11	22	9	15	17	30	27
Unknown sector	77	112	115	128	129	92	82	100	122	69	98
Astronomy	2,483	2,651	2,557	1,932	2,829	2,566	2,697	2,996	2,719	2,874	2,853
FFRDCs	245	284	235	183	264	271	273	281	268	303	308
Federal government.....	256	271	296	208	308	264	253	230	191	220	209
State/local government.....	0	1	0	0	0	0	0	0	0	0	0
Academic institutions	1,612	1,700	1,655	1,256	1,809	1,601	1,748	1,948	1,812	1,875	1,850
Industry.....	64	48	51	54	57	57	53	68	55	38	46
Private nonprofit.....	160	187	161	120	169	172	166	224	156	191	185
Joint sectors.....	129	145	146	102	198	173	182	215	207	214	223
Unknown sector	16	15	14	9	25	27	22	30	30	31	32
Chemistry.....	14,915	15,219	14,375	14,414	14,491	14,560	14,342	14,043	15,763	15,110	17,138
FFRDCs	612	661	625	619	664	697	687	626	736	760	974
Federal government.....	766	764	698	649	607	613	655	647	673	690	731
State/local government.....	26	27	29	27	27	35	25	21	26	23	22
Academic institutions	10,778	11,076	10,705	10,930	10,861	11,015	10,872	10,578	11,834	11,173	13,117
Industry.....	2,423	2,341	2,012	1,842	1,948	1,806	1,749	1,828	2,123	2,100	1,940
Private nonprofit.....	275	294	269	281	324	343	306	299	316	307	294
Joint sectors.....	1	3	2	4	4	5	6	7	4	12	12
Unknown sector	34	53	36	61	56	47	42	37	53	44	48
Physics.....	19,709	18,906	18,048	17,966	18,074	16,897	17,385	17,301	18,657	17,653	20,551
FFRDCs	2,330	2,033	2,014	2,078	2,150	1,982	2,048	2,036	2,383	2,120	2,358
Federal government.....	1,193	1,024	991	993	1,071	884	942	903	978	977	959
State/local government.....	5	6	7	5	4	2	6	2	1	7	4
Academic institutions	13,662	13,363	12,936	12,743	12,759	12,115	12,345	12,436	13,250	12,734	15,390
Industry.....	2,237	2,184	1,815	1,884	1,806	1,678	1,810	1,648	1,771	1,581	1,565
Private nonprofit.....	180	174	161	124	147	144	127	146	153	128	170
Joint sectors.....	36	55	41	38	51	49	59	62	59	53	56
Unknown sector	65	67	83	101	86	44	49	68	62	54	49
Geosciences	9,821	9,904	9,214	9,820	9,873	9,779	10,065	9,204	11,486	10,436	11,112
FFRDCs	504	505	482	507	515	495	498	412	631	498	497
Federal government.....	1,510	1,472	1,287	1,411	1,404	1,397	1,399	1,355	1,621	1,439	1,511
State/local government.....	208	192	175	210	207	220	256	218	256	223	224
Academic institutions	6,394	6,596	6,166	6,520	6,549	6,583	6,702	6,155	7,826	7,170	7,756
Industry.....	681	610	636	610	638	552	657	556	570	556	556
Private nonprofit.....	443	423	375	449	455	450	478	427	481	481	473
Joint sectors.....	17	12	15	13	18	21	20	20	24	20	31
Unknown sector	64	95	77	101	87	61	54	60	75	50	64
Mathematics	3,190	3,272	3,051	3,483	3,561	3,758	3,657	3,556	3,760	3,562	3,922
FFRDCs	32	41	41	41	38	66	35	36	39	53	61
Federal government.....	55	51	45	55	68	59	48	54	47	60	67
State/local government.....	1	4	3	2	4	2	1	1	1	1	1
Academic institutions	2,952	3,033	2,830	3,210	3,265	3,450	3,393	3,306	3,525	3,319	3,662
Industry.....	104	100	89	126	126	121	125	114	106	88	88

Appendix table 5-36

(Page 2 of 3)

U.S. S&E articles, by field and sector: 1995–2005

Field/sector	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Private nonprofit.....	37	35	37	43	46	50	44	36	28	33	33
Joint sectors.....	0	0	0	0	1	0	1	0	1	0	2
Unknown sector.....	8	9	6	7	11	9	9	9	12	7	8
Computer sciences.....	1,914	1,923	1,929	1,952	2,008	2,075	2,083	1,999	2,254	2,173	2,390
FFRDCs.....	27	27	42	47	51	30	44	31	36	38	41
Federal government.....	41	44	50	49	62	41	44	41	35	35	44
State/local government.....	1	1	1	1	1	1	1	0	2	0	1
Academic institutions.....	1,398	1,412	1,352	1,364	1,397	1,475	1,482	1,455	1,736	1,730	1,912
Industry.....	399	390	433	445	448	481	461	442	409	342	365
Private nonprofit.....	30	23	28	23	27	32	31	19	22	17	20
Joint sectors.....	0	0	1	0	0	1	2	1	2	1	2
Unknown sector.....	17	25	24	24	23	14	18	11	12	9	6
Agricultural sciences.....	3,648	3,346	3,605	3,464	2,804	3,640	3,203	3,924	3,903	3,526	3,561
FFRDCs.....	19	17	16	12	8	12	8	9	20	11	17
Federal government.....	635	531	610	586	464	656	548	628	669	627	649
State/local government.....	30	28	34	24	19	18	50	27	19	22	17
Academic institutions.....	2,598	2,454	2,612	2,531	2,043	2,639	2,258	2,926	2,888	2,584	2,593
Industry.....	289	228	240	234	199	251	261	260	231	220	219
Private nonprofit.....	55	49	52	38	40	44	48	43	52	47	48
Joint sectors.....	1	0	1	0	0	1	2	1	0	4	3
Unknown sector.....	23	39	40	38	32	20	28	28	23	13	16
Biological sciences.....	54,076	53,301	51,718	52,076	51,443	50,997	52,696	50,108	52,981	51,502	55,502
FFRDCs.....	649	629	634	568	550	543	549	539	537	582	620
Federal government.....	5,088	4,872	4,638	4,579	4,505	4,475	4,521	4,263	4,411	4,258	4,555
State/local government.....	542	536	505	513	483	514	531	501	506	529	557
Academic institutions.....	38,685	38,554	37,508	38,017	37,607	37,187	38,673	36,902	39,164	38,263	41,441
Industry.....	4,228	3,893	3,656	3,626	3,600	3,583	3,518	3,279	3,498	3,145	3,306
Private nonprofit.....	4,656	4,586	4,529	4,481	4,435	4,484	4,667	4,391	4,579	4,489	4,717
Joint sectors.....	16	12	11	13	15	20	36	29	41	74	74
Unknown sector.....	211	221	238	278	249	190	202	204	246	164	232
Medical sciences.....	51,943	51,404	52,146	52,402	52,550	51,886	53,437	51,384	56,128	53,541	60,130
FFRDCs.....	188	185	182	183	147	137	127	125	137	126	144
Federal government.....	3,892	4,037	3,797	3,860	3,640	3,630	3,784	3,548	3,769	3,529	3,859
State/local government.....	814	745	768	786	775	751	806	706	755	733	904
Academic institutions.....	36,547	36,010	36,922	36,833	36,968	36,272	37,221	35,964	39,331	37,522	42,330
Industry.....	2,078	2,077	2,130	2,220	2,282	2,314	2,428	2,433	2,607	2,601	2,820
Private nonprofit.....	7,906	7,741	7,754	7,877	8,098	8,285	8,601	8,067	8,949	8,555	9,525
Joint sectors.....	23	16	19	17	26	37	31	33	35	48	66
Unknown sector.....	495	593	573	627	615	460	440	508	545	427	481
Other life sciences.....	2,338	2,811	3,009	3,009	2,876	2,942	3,146	2,958	2,964	2,699	3,670
FFRDCs.....	2	0	1	0	0	1	1	1	2	0	1
Federal government.....	121	129	140	123	116	136	170	143	135	115	239
State/local government.....	44	75	47	73	51	54	59	56	49	42	50
Academic institutions.....	1,606	2,038	2,181	2,181	2,081	2,151	2,337	2,121	2,208	2,019	2,686
Industry.....	112	105	151	150	156	141	148	154	145	136	188
Private nonprofit.....	369	369	369	361	380	378	359	400	355	344	435
Joint sectors.....	0	0	0	0	1	2	1	3	2	2	5
Unknown sector.....	84	95	120	120	91	81	70	78	68	41	66
Psychology.....	7,830	8,258	8,130	7,736	7,806	7,499	7,809	7,691	7,892	7,410	8,482
FFRDCs.....	5	0	2	4	2	1	0	2	1	0	1
Federal government.....	223	280	246	225	241	237	220	217	218	208	235
State/local government.....	109	114	115	105	83	70	67	66	59	71	63
Academic institutions.....	6,858	7,116	7,049	6,754	6,850	6,575	6,869	6,794	7,056	6,613	7,582
Industry.....	170	190	166	145	168	163	177	143	132	130	168
Private nonprofit.....	317	390	386	349	345	353	375	358	336	326	349
Joint sectors.....	2	1	2	1	2	2	1	3	4	2	4
Unknown sector.....	146	167	163	154	116	99	101	108	85	59	79
Social sciences.....	9,751	10,094	9,935	9,745	9,763	9,888	9,985	9,763	10,501	9,754	10,790
FFRDCs.....	32	29	26	25	15	20	28	14	16	23	19
Federal government.....	481	425	386	344	354	368	353	381	358	326	406
State/local government.....	58	51	74	55	47	56	42	44	48	45	41

Appendix table 5-36

(Page 3 of 3)

U.S. S&E articles, by field and sector: 1995–2005

Field/sector	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Academic institutions	8,208	8,577	8,456	8,416	8,462	8,616	8,774	8,539	9,200	8,591	9,529
Industry	221	252	269	204	201	190	170	139	158	142	149
Private nonprofit.....	658	652	623	585	586	574	546	568	633	562	572
Joint sectors.....	1	1	1	4	4	3	2	1	1	1	2
Unknown sector	93	109	101	113	93	62	70	78	87	65	73

FFRDC = federally funded research and development center

NOTES: Article counts from set of journals covered by Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles classified by year they entered database, rather than year of publication, and assigned to sector on basis of institutional address(es) listed on article. Articles on fractional-count basis, i.e., for articles with collaborating institutions from multiple sectors, each sector receives fractional credit on basis of proportion of its participating institutions. Detail may not add to total because of rounding.

SOURCES: Thomson Scientific, SCI and SSCI, <http://scientific.thomson.com/products/categories/citation/>; iPLQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

Science and Engineering Indicators 2008