Table 8-33
Academic article output per $1 million of academic R&D, by state: 1993, 1998, and 2003

State	Academic article output			Academic R&D ($ millions)			Academic articles/ $1 million academic R&D		
	1993	1998	2003	1993	1998	2003	1993	1998	2003
United States	142,134	144,980	156,373	19,438	25,317	39,369	7.31	5.73	3.97
Alabama	1,787	1,882	1,903	288	442	558	6.21	4.26	3.41
Alaska	169	160	196	67	76	141	2.53	2.10	1.39
Arizona	2,249	2,069	2,251	311	406	618	7.24	5.10	3.64
Arkansas	562	597	704	79	117	183	7.09	5.11	3.84
California	18,013	17,789	19,533	2,445	3,390	5,363	7.37	5.25	3.64
Colorado	2,355	2,563	2,736	335	489	695	7.02	5.24	3.94
Connecticut	2,723	2,924	2,897	367	407	595	7.41	7.19	4.87
Delaware	530	519	611	54	73	105	9.84	7.13	5.84
District of Columbia	1,187	1,260	1,225	152	233	263	7.82	5.41	4.65
Florida	4,146	4,299	4,831	492	713	1,205	8.42	6.03	4.01
Georgia	2,880	3,248	3,851	558	804	1,176	5.16	4.04	3.28
Hawaii	585	559	606	74	148	185	7.91	3.78	3.28
Idaho	297	283	320	50	72	105	5.89	3.91	3.05
Illinois	7,103	6,863	7,428	776	1,031	1,614	9.15	6.66	4.60
Indiana	3,077	3,122	3,243	304	426	726	10.12	7.32	4.47
Iowa	2,292	2,306	2,371	300	359	499	7.65	6.43	4.75
Kansas	1,244	1,169	1,308	155	213	310	8.04	5.49	4.22
Kentucky	1,310	1,311	1,505	128	242	378	10.26	5.43	3.99
Louisiana	1,787	1,887	1,845	264	353	524	6.77	5.34	3.52
Maine	245	259	281	26	35	75	9.41	7.34	3.74
Maryland	4,303	4,549	5,099	702	887	1,423	6.13	5.13	3.58
Massachusetts	8,624	9,226	9,974	1,121	1,348	1,822	7.69	6.84	5.47
Michigan	4,892	4,865	5,396	705	882	1,388	6.93	5.51	3.89
Minnesota	2,491	2,405	2,421	337	368	517	7.39	6.54	4.68
Mississippi	507	642	747	111	153	324	4.57	4.20	2.30
Missouri	2,946	3,158	3,251	352	485	807	8.37	6.52	4.03
Montana	265	313	371	50	77	141	5.26	4.08	2.63
Nebraska	1,067	1,048	1,040	137	186	301	7.78	5.62	3.46
Nevada	375	381	513	79	84	155	4.74	4.54	3.32
New Hampshire	586	621	653	99	117	252	5.89	5.29	2.59
New Jersey	2,898	2,952	3,300	375	485	747	7.74	6.09	4.41
New Mexico	734	771	829	187	229	307	3.92	3.37	2.70
New York	12,779	12,581	12,904	1,597	1,925	3,090	8.00	6.53	4.18
North Carolina	4,676	5,006	5,579	634	902	1,397	7.38	5.55	3.99
North Dakota	281	273	322	54	57	134	5.19	4.79	2.41
Ohio	5,216	5,139	5,385	597	810	1,269	8.73	6.34	4.24
Oklahoma	892	919	996	175	209	295	5.10	4.40	3.38
Oregon	1,574	1,577	1,713	227	314	437	6.93	5.02	3.92
Pennsylvania	7,784	8,203	8,718	1,029	1,348	2,013	7.56	6.08	4.33
Rhode Island	872	839	904	103	112	187	8.45	7.49	4.83
South Carolina	1,137	1,227	1,478	185	248	435	6.13	4.94	3.40
South Dakota	140	141	168	23	25	50	6.20	5.54	3.36
Tennessee	2,082	2,306	2,463	280	346	600	7.44	6.66	4.11
Texas	8,670	8,717	9,777	1,422	1,697	2,766	6.10	5.14	3.54
Utah	1,508	1,590	1,631	195	249	385	7.75	6.38	4.23
Vermont	393	370	398	51	59	107	7.76	6.32	3.73
Virginia	3,042	3,100	3,254	409	494	773	7.45	6.28	4.21
Washington	2,988	3,184	3,557	435	542	870	6.87	5.87	4.09
West Virginia	395	410	385	55	63	121	7.15	6.46	3.19
Wisconsin	3,258	3,201	3,287	453	536	881	7.19	5.98	3.73
Wyoming	218	197	215	33	49	60	6.70	4.06	3.58
Puerto Rico	168	192	214	48	88	78	3.51	2.19	2.73

NOTES: In 1998 and 2003, academic R&D was reported for all institutions. In 1993, academic R&D was reported for doctorate-granting institutions only.

SOURCES: Thomson ISI, *Science Citation Index* and *Social Sciences Citation Index;* ipIQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, *Academic Research and Development Expenditures,* various years.

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