

## Data supporting the figures and tables in *Monitoring Australia's Scientific Research*

Table I: World citation and publication data for Biological Sciences, 1995-99

Field/sub-field	World cites	World pubs	cpp
Biochemistry, cell biology	2265104	278634	8.13
Genetics	594338	74571	7.97
Microbiology	290696	58325	4.98
General	161101	32700	4.93
Biotechnology	353265	80300	4.40
Ecology, Evolution	137350	38934	3.53
Botany	208298	64447	3.23
Zoology	140411	57526	2.44
<b>BIOLOGICAL SCIENCES</b>	<b>3504445</b>	<b>572550</b>	<b>6.12</b>

Note: This table contains supporting data for Table 17 on page 73

Table II: Distribution of publications as a percentage of Australian total: Medical and Health Sciences, 1995-99 (institutions with between 100 and 200 publications)

Institution	No. Pubs	% Aust. Total	Sector
Howard Florey Institute	198	0.6	Med Res Inst
Dept Human Services & Health	194	0.6	Government
Concord Repatriation General Hospital	187	0.6	Hospital
Royal Melbourne Institute Technology	180	0.6	University
SA Government - Inst Med & Vet Science	180	0.6	Government
Princess Margaret Hospital Children	179	0.6	Hospital
University New England	176	0.6	University
Brisbane Mater Misericordiae Hospital	174	0.6	Hospital
Canberra Hospital	168	0.5	Hospital
James Cook University North Queensland	164	0.5	University
University South Australia	160	0.5	University
Mental Health Research Institute Victoria	157	0.5	Med Res Inst
QLD Government - Dept Health	151	0.5	Government
University Western Sydney	147	0.5	University
Murdoch University	146	0.5	University
Hanson Centre Cancer Research	140	0.5	Med Res Inst
University Technology Sydney	131	0.4	University
St Vincents Institute Medical Research	130	0.4	Med Res Inst
Royal Childrens Hospital Brisbane	127	0.4	Hospital
Macfarlane Burnet Centre Medical Research	125	0.4	Med Res Inst
Austin Research Institute	124	0.4	Med Res Inst
SA Governmentt - SA Health Commission	124	0.4	Government
Liverpool Hospital	121	0.4	Hospital
Newcastle Mater Misericordiae Hospital	118	0.4	Hospital
Centenary Inst Cancer Med & Cell Biology	113	0.4	Med Res Inst
Fairfield Hospital Communicable Diseases	113	0.4	Hospital
Ludwig Institute Cancer Research	111	0.4	Med Res Inst
WA Govt - Dept Health	106	0.3	Government
Prince Charles Hospital	104	0.3	Hospital
Australian Red Cross Society	103	0.3	Other
Repatriation General Hospital Adelaide	103	0.3	Hospital
<b>Australia</b>	<b>30909</b>	<b>100.0</b>	

Note: This table contains supporting data for Table 33 on page 117

**Tables 1 to 94 contain data supporting the 94 figures in *Monitoring Australia's Scientific Research*, and are presented in the same sequence as the figures appear in the text.**

*Table 1: Original analysis of Australia's citation performance, 1982-91*

Publication year	World		Australian		Australia's share	
	Pubs	Cites	Pubs	Cites	Pubs	Cites
1982	416487	5022019	8027	98232	1.93	1.96
1983	423182	4928847	8344	103879	1.97	2.11
1984	424287	4670764	8680	95321	2.05	2.04
1985	452309	4558559	8922	91807	1.97	2.01
1986	460973	4203931	9028	85274	1.96	2.03
1987	456834	3776027	9129	71652	2.00	1.90
1988	473570	3264738	9354	63451	1.98	1.94
1989	490818	2585190	9055	44759	1.84	1.73
1990	502066	1776382	9476	29525	1.89	1.66
1991	507586	861808	9664	13162	1.90	1.53

*Table 2: Australia's share of publications and citations in the Science Citation Index: fractionated publication counts, 1981-99*

Tape year	World		Australian		Australia's share	
	Pubs	Cites	Pubs	Cites	Pubs	Cites
1981	400310	6830418	8623	150507	2.15	2.20
1982	417882	6883232	8567	145283	2.05	2.11
1983	425394	7041279	8579	154975	2.02	2.20
1984	426215	7017630	8760	146942	2.06	2.09
1985	455111	7346116	9328	156199	2.05	2.13
1986	464150	7358014	9707	157390	2.09	2.14
1987	460649	7403578	9565	147303	2.08	1.99
1988	478817	7446983	9483	154733	1.98	2.08
1989	497848	7448997	10129	145278	2.03	1.95
1990	510284	7449955	10171	136225	1.99	1.83
1991	518396	7201416	10371	133826	2.00	1.86
1992	547239	7035636	11057	127458	2.02	1.81
1993	537521	6557195	11346	122700	2.11	1.87
1994	569942	5865424	12119	113678	2.13	1.94
1995	584293	4988981	12547	98935	2.15	1.98
1996	589670	3746163	12974	74247	2.20	1.98
1997	586275	2548098	12863	49713	2.19	1.95
1998	606074	1235786	13388	25225	2.21	2.04
1999	600073	209283	13357	4625	2.23	2.21

Table 3: *Australia's share of publications and citations in the Science Citation Index: fractional and whole counting, 1981-99*

Tape year	World		Australian - whole		Aust share - whole		Australian - fract		Aust share - fract	
	Pubs	Cites	Pubs	Cites	Pubs	Cites	Pubs	Cites	Pubs	Cites
1981	400310	6830418	9168	163035	2.29	2.39	8623	150507	2.15	2.20
1982	417882	6883232	9155	160358	2.19	2.33	8567	145283	2.05	2.11
1983	425394	7041279	9234	171725	2.17	2.44	8579	154975	2.02	2.20
1984	426215	7017630	9443	164144	2.22	2.34	8760	146942	2.06	2.09
1985	455111	7346116	10076	176683	2.21	2.41	9328	156199	2.05	2.13
1986	464150	7358014	10530	179808	2.27	2.44	9707	157390	2.09	2.14
1987	460649	7403578	10384	168857	2.25	2.28	9565	147303	2.08	1.99
1988	478817	7446983	10460	179934	2.18	2.42	9483	154733	1.98	2.08
1989	497848	7448997	11152	168349	2.24	2.26	10129	145278	2.03	1.95
1990	510284	7449955	11316	158450	2.22	2.13	10171	136225	1.99	1.83
1991	518396	7201416	11865	160538	2.29	2.23	10371	133826	2.00	1.86
1992	547239	7035636	12774	160087	2.33	2.28	11057	127458	2.02	1.81
1993	537521	6557195	13246	155194	2.46	2.37	11346	122700	2.11	1.87
1994	569942	5865424	14265	145213	2.50	2.48	12119	113678	2.13	1.94
1995	584293	4988981	14936	128240	2.56	2.57	12547	98935	2.15	1.98
1996	589670	3746163	15555	98309	2.64	2.62	12974	74247	2.20	1.98
1997	586275	2548098	15714	66773	2.68	2.62	12863	49713	2.19	1.95
1998	606074	1235786	16508	34975	2.72	2.83	13388	25225	2.21	2.04
1999	600073	209283	16519	6446	2.75	3.08	13357	4625	2.23	2.21

Table 7: *Aspects of Australia's citation performance in the Science Citation Index, 1981-98*

Tape year	World			Australian						
	Pubs	Cites	Av impact	Pubs	Exp cites	Act cites	Av impact	Relative Act/Exp Journal Impact	Act/Exp citation rate	RCI
1981	400310	6830418	17.06	9168	162914	163035	17.77	1.04	1.00	1.04
1982	417882	6883232	16.47	9155	155073	160358	16.94	1.03	1.03	1.06
1983	425394	7041279	16.55	9234	166563	171725	18.04	1.09	1.03	1.12
1984	426215	7017630	16.47	9443	165694	164144	17.55	1.07	0.99	1.06
1985	455111	7346116	16.14	10076	168727	176683	16.75	1.04	1.05	1.09
1986	464150	7358014	15.85	10530	173746	179808	16.50	1.04	1.03	1.08
1987	460649	7403578	16.07	10384	169346	168857	16.31	1.01	1.00	1.01
1988	478817	7446983	15.55	10460	173015	179934	16.54	1.06	1.04	1.11
1989	497848	7448997	14.96	11152	169580	168349	15.21	1.02	0.99	1.01
1990	510284	7449955	14.60	11316	161865	158450	14.30	0.98	0.98	0.96
1991	518396	7201416	13.89	11865	161419	160538	13.60	0.98	0.99	0.97
1992	547239	7035636	12.86	12774	161028	160087	12.61	0.98	0.99	0.97
1993	537521	6557195	12.20	13246	155768	155194	11.76	0.96	1.00	0.96
1994	569942	5865424	10.29	14265	143077	145213	10.03	0.97	1.01	0.99
1995	584293	4988981	8.54	14936	125585	128240	8.41	0.98	1.02	1.01
1996	589670	3746163	6.35	15555	93594	98309	6.02	0.95	1.05	0.99
1997	586275	2548098	4.35	15714	66522	66773	4.23	0.97	1.00	0.98
1998	606074	1235786	2.04	16508	33292	34975	2.02	0.99	1.05	1.04

Table 8: *Australia's share of publications and citations: yearly and fixed window citation counting 1981-99*

Year	World		Australian		Australia's share	
	Pubs	Cites	Pubs	Cites	Pubs	Cites
1981	400310	6830418	9168	163035	2.29	2.39
1982	417882	6883232	9155	160358	2.19	2.33
1983	425394	7041279	9234	171725	2.17	2.44
1984	426215	7017630	9443	164144	2.22	2.34
1985	455111	7346116	10076	176683	2.21	2.41
1986	464150	7358014	10530	179808	2.27	2.44
1987	460649	7403578	10384	168857	2.25	2.28
1988	478817	7446983	10460	179934	2.18	2.42
1989	497848	7448997	11152	168349	2.24	2.26
1990	510284	7449955	11316	158450	2.22	2.13
1991	518396	7201416	11865	160538	2.29	2.23
1992	547239	7035636	12774	160087	2.33	2.28
1993	537521	6557195	13246	155194	2.46	2.37
1994	569942	5865424	14265	145213	2.50	2.48
1995	584293	4988981	14936	128240	2.56	2.57
1996	589670	3746163	15555	98309	2.64	2.62
1997	586275	2548098	15714	66773	2.68	2.62
1998	606074	1235786	16508	34975	2.72	2.83
1999	600073	209283	16519	6446	2.75	3.08

Table 8 (cont)

Window	World		Australian		Australia's share	
	Pubs	Cites	Pubs	Cites	Pubs	Cites
1981-85	2089717	6365542	47076	143362	2.25	2.25
1982-86	2156078	6657429	48438	150699	2.25	2.26
1983-87	2202199	6886682	49667	157700	2.26	2.29
1984-88	2258684	7171759	50893	163637	2.25	2.28
1985-89	2332794	7521473	52602	173118	2.25	2.30
1986-90	2390187	7836880	53842	179375	2.25	2.29
1987-91	2445169	8173660	55177	182267	2.26	2.23
1988-92	2531600	8685336	57567	192045	2.27	2.21
1989-93	2590122	9160357	60353	198544	2.33	2.17
1990-94	2661508	9753284	63466	210537	2.38	2.16
1991-95	2735650	10410965	67086	234693	2.45	2.25
1992-96	2806751	11202365	70776	262299	2.52	2.34
1993-97	2845929	11725649	73716	286140	2.59	2.44
1994-98	2912776	12169809	76978	309107	2.64	2.54
1995-99	2940931	12705127	79232	334743	2.69	2.63

Table 10: Share of publications in the Science Citation Index appearing in Australian journals, 1981-99

Year	World	Pubs in Aust journals	
	Pubs	No.	%
1981	400310	3212	0.80
1982	417882	3132	0.75
1983	425394	2973	0.70
1984	426215	3099	0.73
1985	455111	3172	0.70
1986	464150	3433	0.74
1987	460649	3303	0.72
1988	478817	2830	0.59
1989	497848	3615	0.73
1990	510284	3760	0.74
1991	518396	3710	0.72
1992	547239	4013	0.73
1993	537521	3680	0.68
1994	569942	3532	0.62
1995	584293	3885	0.66
1996	589670	4146	0.70
1997	586275	3757	0.64
1998	606074	3807	0.63
1999	600073	3861	0.64

Table 11: Australian share of publications and citations in the Science Citation Index: 'local' and 'international' publications, 1981-98

Tape year	World		Australian - local		Australia's share - local		Australian - international		Australia's share - international	
	Pubs	Cites	Pubs	Cites	Pubs	Cites	Pubs	Cites	Pubs	Cites
1981	400310	6830418	8121	139316	2.03	2.04	1047	23719	0.26	0.35
1982	417882	6883232	8031	132102	1.92	1.92	1124	28256	0.27	0.41
1983	425394	7041279	7985	140651	1.88	2.00	1249	31074	0.29	0.44
1984	426215	7017630	8143	132312	1.91	1.89	1300	31832	0.31	0.45
1985	455111	7346116	8653	138599	1.90	1.89	1423	38084	0.31	0.52
1986	464150	7358014	8962	137549	1.93	1.87	1568	42259	0.34	0.57
1987	460649	7403578	8831	128278	1.92	1.73	1553	40579	0.34	0.55
1988	478817	7446983	8602	132671	1.80	1.78	1858	47263	0.39	0.63
1989	497848	7448997	9206	125244	1.85	1.68	1946	43105	0.39	0.58
1990	510284	7449955	9141	117395	1.79	1.58	2175	41055	0.43	0.55
1991	518396	7201416	9047	111438	1.75	1.55	2818	49100	0.54	0.68
1992	547239	7035636	9562	100683	1.75	1.43	3212	59404	0.59	0.84
1993	537521	6557195	9694	96704	1.80	1.47	3552	58490	0.66	0.89
1994	569942	5865424	10253	88594	1.80	1.51	4012	56619	0.70	0.97
1995	584293	4988981	10497	76684	1.80	1.54	4439	51556	0.76	1.03
1996	589670	3746163	10797	56244	1.83	1.50	4758	42065	0.81	1.12
1997	586275	2548098	10490	36985	1.79	1.45	5224	29788	0.89	1.17
1998	606074	1235786	10808	18194	1.78	1.47	5700	16781	0.94	1.36
1999	600073	209283	10751	3343	1.79	1.60	5768	3103	0.96	1.48

Table 12: Aspects of Australia's citation performance in the Science Citation Index: 'local' and 'international' publications, 1981-98

Tape Year	World cpp	Local						International					
		Actual cites	Exp cites	Pubs	Act/exp citation rate	Jrnl impact	Rel jrnl impact	Act cites	Exp cites	Pubs	Act/Exp citation rate -	Jrnl impact	Rel jrnl impact
1981	17.06	139316	139276	8121	1.00	17.15	1.01	23719	23638	1047	1.00	22.58	1.32
1982	16.47	132102	131784	8031	1.00	16.41	1.00	28256	23289	1124	1.21	20.72	1.26
1983	16.55	140651	139037	7985	1.01	17.41	1.05	31074	27526	1249	1.13	22.04	1.33
1984	16.47	132312	136140	8143	0.97	16.72	1.02	31832	29554	1300	1.08	22.73	1.38
1985	16.14	138599	137396	8653	1.01	15.88	0.98	38084	31331	1423	1.22	22.02	1.36
1986	15.85	137549	139690	8962	0.98	15.59	0.98	42259	34056	1568	1.24	21.72	1.37
1987	16.07	128278	135967	8831	0.94	15.40	0.96	40579	33379	1553	1.22	21.49	1.34
1988	15.55	132671	133486	8602	0.99	15.52	1.00	47263	39529	1858	1.20	21.27	1.37
1989	14.96	125244	132015	9206	0.95	14.34	0.96	43105	37565	1946	1.15	19.30	1.29
1990	14.60	117395	122280	9141	0.96	13.38	0.92	41055	39585	2175	1.04	18.20	1.25
1991	13.89	111438	114581	9047	0.97	12.67	0.91	49100	46838	2818	1.05	16.62	1.20
1992	12.86	100683	109245	9562	0.92	11.42	0.89	59404	51783	3212	1.15	16.12	1.25
1993	12.20	96704	102941	9694	0.94	10.62	0.87	58490	52827	3552	1.11	14.87	1.22
1994	10.29	88594	92407	10253	0.96	9.01	0.88	56619	50669	4012	1.12	12.63	1.23
1995	8.54	76684	79984	10497	0.96	7.62	0.89	51556	45601	4439	1.13	10.27	1.20
1996	6.35	56244	58086	10797	0.97	5.38	0.85	42065	35509	4758	1.18	7.46	1.17
1997	4.35	36985	39225	10490	0.94	3.74	0.86	29788	27297	5224	1.09	5.23	1.20
1998	2.04	18194	19148	10808	0.95	1.77	0.87	16781	14144	5700	1.19	2.48	1.22

Table 13: Australian universities' share of publications and citations in the Science Citation Index, 1981-99

Tape year	Univ pubs	World pubs	Share world pubs	Univ cites	World cites	Share world cites	RCI
1981	6105	400310	1.53	115060	6830418	1.68	1.10
1982	6026	417882	1.44	111182	6883232	1.62	1.12
1983	5969	425394	1.40	112029	7041279	1.59	1.13
1984	6190	426215	1.45	108080	7017630	1.54	1.06
1985	6562	455111	1.44	118285	7346116	1.61	1.12
1986	6801	464150	1.47	115420	7358014	1.57	1.07
1987	6714	460649	1.46	111833	7403578	1.51	1.04
1988	6938	478817	1.45	115562	7446983	1.55	1.07
1989	7282	497848	1.46	108084	7448997	1.45	0.99
1990	7507	510284	1.47	103729	7449955	1.39	0.95
1991	7700	518396	1.49	102807	7201416	1.43	0.96
1992	8377	547239	1.53	103058	7035636	1.46	0.96
1993	8823	537521	1.64	99830	6557195	1.52	0.93
1994	9623	569942	1.69	95567	5865424	1.63	0.97
1995	10367	584293	1.77	84524	4988981	1.69	0.95
1996	11153	589670	1.89	68729	3746163	1.83	0.97
1997	11334	586275	1.93	46564	2548098	1.83	0.95
1998	12202	606074	2.01	25558	1235786	2.07	1.03
1999	12378	600073	2.06	4671	209283	2.23	1.08

Table 14: Share of publications in the Science Citation Index: two groups of universities, 1981-99

Year	World pubs	Pre-1987 Universities		“New” universities	
		Pubs	Share of world pubs	Pubs	Share of world pubs
1981	400310	5982	1.49	164	0.04
1982	417882	5904	1.41	176	0.04
1983	425394	5835	1.37	192	0.05
1984	426215	6031	1.42	212	0.05
1985	455111	6411	1.41	210	0.05
1986	464150	6651	1.43	212	0.05
1987	460649	6581	1.43	203	0.04
1988	478817	6792	1.42	221	0.05
1989	497848	7105	1.43	253	0.05
1990	510284	7304	1.43	294	0.06
1991	518396	7465	1.44	377	0.07
1992	547239	8030	1.47	511	0.09
1993	537521	8408	1.56	603	0.11
1994	569942	9113	1.60	719	0.13
1995	584293	9772	1.67	840	0.14
1996	589670	10459	1.77	995	0.17
1997	586275	10510	1.79	1126	0.19
1998	606074	11306	1.87	1243	0.21
1999	600073	11446	1.91	1295	0.22

Table 15: Share of publications in the Science Citation Index: selected Australian research sectors, 1981-99

Tape Year	World Pubs	Government		Hospital		CSIRO	
		Pubs	Share of world pubs	Pubs	Share of world pubs	Pubs	Share of world pubs
1981	400310	1060	0.26	1208	0.30	1202	0.30
1982	417882	1124	0.27	1202	0.29	1190	0.28
1983	425394	1156	0.27	1244	0.29	1393	0.33
1984	426215	1126	0.26	1253	0.29	1340	0.31
1985	455111	1230	0.27	1379	0.30	1402	0.31
1986	464150	1446	0.31	1541	0.33	1454	0.31
1987	460649	1364	0.30	1615	0.35	1443	0.31
1988	478817	1366	0.29	1625	0.34	1306	0.27
1989	497848	1490	0.30	1757	0.35	1350	0.27
1990	510284	1585	0.31	1756	0.34	1278	0.25
1991	518396	1660	0.32	1979	0.38	1317	0.25
1992	547239	1791	0.33	2223	0.41	1418	0.26
1993	537521	1752	0.33	2331	0.43	1366	0.25
1994	569942	1830	0.32	2330	0.41	1537	0.27
1995	584293	1780	0.30	2510	0.43	1469	0.25
1996	589670	1724	0.29	2562	0.43	1496	0.25
1997	586275	1721	0.29	2517	0.43	1447	0.25
1998	606074	1826	0.30	2587	0.43	1404	0.23
1999	600073	1813	0.30	2645	0.44	1371	0.23

Table 16: *Share of publications in the Science Citation Index: UK research sectors, 1981-94*

Tape year	World pubs	University		Hospital		Research Council		Industry		Government	
		Pubs	Share of world pubs	Pubs	Share of world pubs	Pubs	Share of world pubs	Pubs	Share of world pubs	Pubs	Share of world pubs
1981	400310	18461	4.61	7576	1.89	3569	0.89	2547	0.64	1397	0.35
1982	417882	18926	4.53	7771	1.86	3673	0.88	2582	0.62	1260	0.30
1983	425394	19118	4.49	8006	1.88	3936	0.93	2710	0.64	1340	0.32
1984	426215	19065	4.47	8277	1.94	3704	0.87	2606	0.61	1236	0.29
1985	455111	20589	4.52	9290	2.04	4041	0.89	2771	0.61	1322	0.29
1986	464150	20145	4.34	9212	1.98	4269	0.92	2682	0.58	1355	0.29
1987	460649	20668	4.49	9344	2.03	3959	0.86	2660	0.58	1272	0.28
1988	478817	20580	4.30	9686	2.02	3804	0.79	2936	0.61	1255	0.26
1989	497848	21186	4.26	10242	2.06	3857	0.77	3001	0.60	1258	0.25
1990	510284	22135	4.34	10737	2.10	4123	0.81	3160	0.62	1348	0.26
1991	518396	23022	4.44	10688	2.06	4054	0.78	3180	0.61	1384	0.27
1992	547239	24912	4.55	11412	2.09	4345	0.79	3412	0.62	1457	0.27
1993	537521	25687	4.78	11417	2.12	4398	0.82	3351	0.62	1490	0.28
1994	569942	27686	4.86	11634	2.04	4368	0.77	3380	0.59	1523	0.27

Table 17: *Universities' share of publications in ISI's three main indexes, 1981-99*

Tape year	SCI			SSCI			A&HCI		
	World pubs	Univ pubs	Share of world pubs	World pubs	Univ pubs	Share of world pubs	World pubs	Univ pubs	Share of world pubs
1981	400310	6105	1.53	59376	1307	2.20	32202	323	1.00
1982	417882	6026	1.44	61112	1273	2.08	34700	421	1.21
1983	425394	5969	1.40	60887	1328	2.18	35356	391	1.11
1984	426215	6190	1.45	60625	1333	2.20	34284	333	0.97
1985	455111	6562	1.44	63341	1319	2.08	37334	363	0.97
1986	464150	6801	1.47	65846	1368	2.08	36728	447	1.22
1987	460649	6714	1.46	63163	1348	2.13	33220	361	1.09
1988	478817	6938	1.45	62071	1377	2.22	34555	428	1.24
1989	497848	7282	1.46	66071	1445	2.19	32001	403	1.26
1990	510284	7507	1.47	66963	1449	2.16	30675	343	1.12
1991	518396	7700	1.49	66920	1548	2.31	35430	420	1.19
1992	547239	8377	1.53	69379	1583	2.28	34692	431	1.24
1993	537521	8823	1.64	69158	1696	2.45	31179	343	1.10
1994	569942	9623	1.69	71415	1904	2.67	31680	426	1.34
1995	584293	10367	1.77	77896	2314	2.97	31432	374	1.19
1996	589670	11153	1.89	77460	2278	2.94	30618	405	1.32
1997	586275	11334	1.93	75140	2231	2.97	31162	448	1.44
1998	606074	12202	2.01	77578	2455	3.16	28752	496	1.73
1999	600073	12378	2.06	77476	2602	3.36	29129	466	1.60

Table 18: Universities' share of Australian publications in the Science Citation Index, 1981-99

Tape year	Pubs		
	Tot Aust	Tot univ	Share of Aust Total
1981	9168	6105	66.59
1982	9155	6026	65.82
1983	9234	5969	64.64
1984	9443	6190	65.55
1985	10076	6562	65.13
1986	10530	6801	64.59
1987	10384	6714	64.66
1988	10460	6938	66.33
1989	11152	7282	65.30
1990	11316	7507	66.34
1991	11865	7700	64.90
1992	12774	8377	65.58
1993	13246	8823	66.61
1994	14265	9623	67.46
1995	14936	10367	69.41
1996	15555	11153	71.70
1997	15714	11334	72.13
1998	16508	12202	73.92
1999	16519	12378	74.93

Table 19: Selected sectors' share of Australian publications in the Science Citation Index, 1981-99

Tape year	Aust pubs	Government		Hospital		MRI		Other		Business		CSIRO		
		Pubs	Share Aust pubs	Pubs	Share Aust pubs	Pubs	Share Aust pubs	Pubs	Share Aust pubs	Pubs	Share Aust pubs	Pubs	Share Aust pubs	Scientific Staff *
1981	9168	1060	11.56	1208	13.18	288	3.14	126	1.37	156	1.70	1202	13.11	
1982	9155	1124	12.28	1202	13.13	315	3.44	147	1.61	177	1.93	1190	13.00	
1983	9234	1156	12.52	1244	13.47	315	3.41	121	1.31	192	2.08	1393	15.09	
1984	9443	1126	11.92	1253	13.27	373	3.95	118	1.25	207	2.19	1340	14.19	
1985	10076	1230	12.21	1379	13.69	388	3.85	114	1.13	182	1.81	1402	13.91	
1986	10530	1446	13.73	1541	14.63	401	3.81	99	0.94	214	2.03	1454	13.81	2719
1987	10384	1364	13.14	1615	15.55	432	4.16	124	1.19	220	2.12	1443	13.90	2694
1988	10460	1366	13.06	1625	15.54	504	4.82	143	1.37	202	1.93	1306	12.49	2551
1989	11152	1490	13.36	1757	15.76	606	5.43	155	1.39	231	2.07	1350	12.11	2591
1990	11316	1585	14.01	1756	15.52	595	5.26	172	1.52	267	2.36	1278	11.29	2679
1991	11865	1660	13.99	1979	16.68	670	5.65	207	1.74	340	2.87	1317	11.10	2822
1992	12774	1791	14.02	2223	17.40	778	6.09	270	2.11	294	2.30	1418	11.10	2924
1993	13246	1752	13.23	2331	17.60	861	6.50	270	2.04	335	2.53	1366	10.31	2949
1994	14265	1830	12.83	2330	16.33	959	6.72	244	1.71	388	2.72	1537	10.77	2957
1995	14936	1780	11.92	2510	16.81	1055	7.06	262	1.75	358	2.40	1469	9.84	2984
1996	15555	1724	11.08	2562	16.47	1013	6.51	335	2.15	415	2.67	1496	9.62	2929
1997	15714	1721	10.95	2517	16.02	1149	7.31	349	2.22	409	2.60	1447	9.21	2846
1998	16508	1826	11.06	2587	15.67	1196	7.24	335	2.03	489	2.96	1404	8.50	2879
1999	16519	1813	10.98	2645	16.01	1231	7.45	367	2.22	433	2.62	1371	8.30	2935

\* Source: Unpublished data, Dr Andrew Pik, CSIRO

Table 20: Universities' share of Australian publications in the Science Citation Index by field of research, 1981-99

Tape year	Mathematics			Physics			Chemistry			Earth			Biology		
	Aust tot	Univ	Share Aust pubs	Aust tot	Univ	Share Aust pubs	Aust tot	Univ	Share Aust pubs	Aust tot	Univ	Share Aust pubs	Aust tot	Univ	Share Aust pubs
1981	377	328	87.0	941	780	82.9	1118	953	85.2	599	379	63.3	2225	1509	67.8
1982	386	352	91.2	1096	865	78.9	1099	888	80.8	591	373	63.1	2179	1494	68.6
1983	336	306	91.1	1010	766	75.8	1029	825	80.2	541	300	55.5	2344	1552	66.2
1984	336	300	89.3	1050	791	75.3	1122	914	81.5	621	376	60.5	2293	1548	67.5
1985	392	356	90.8	1179	911	77.3	1062	843	79.4	625	398	63.7	2507	1709	68.2
1986	394	349	88.6	1189	897	75.4	1093	892	81.6	749	488	65.2	2540	1725	67.9
1987	387	344	88.9	1081	856	79.2	1111	897	80.7	731	455	62.2	2522	1701	67.4
1988	411	377	91.7	1188	984	82.8	1086	914	84.2	704	468	66.5	2645	1723	65.1
1989	369	342	92.7	1179	959	81.3	1088	933	85.8	743	521	70.1	2816	1844	65.5
1990	345	334	96.8	1184	965	81.5	1177	1014	86.2	812	510	62.8	2908	1923	66.1
1991	359	340	94.7	1326	1110	83.7	1164	977	83.9	822	577	70.2	3001	1946	64.8
1992	429	407	94.9	1441	1217	84.5	1237	1047	84.6	868	585	67.4	3065	2019	65.9
1993	509	484	95.1	1633	1382	84.6	1313	1121	85.4	978	653	66.8	3256	2158	66.3
1994	566	535	94.5	1863	1605	86.2	1357	1170	86.2	1001	694	69.3	3497	2278	65.1
1995	577	565	97.9	1989	1741	87.5	1501	1301	86.7	1001	680	67.9	3565	2397	67.2
1996	654	627	95.9	2093	1835	87.7	1607	1433	89.2	1137	790	69.5	3741	2664	71.2
1997	632	616	97.5	2206	1918	86.9	1651	1468	88.9	1047	756	72.2	3786	2723	71.9
1998	632	601	95.1	2299	2011	87.5	1681	1505	89.5	1160	823	70.9	4070	2985	73.3
1999	654	622	95.1	2153	1907	88.6	1611	1451	90.1	1251	912	72.9	4086	3007	73.6

Table 20 (cont)

Tape year	Engineering			Agriculture			Medical Sciences			Total SCI		
	Aust tot	Univ	Share Aust pubs	Aust tot	Univ	Share Aust pubs	Aust tot	Univ	Share Aust pubs	Aust tot	Univ	Share Aust pubs
1981	873	558	63.9	1229	566	46.1	3100	1866	60.2	9168	6105	66.6
1982	890	540	60.7	1127	521	46.2	3084	1847	59.9	9155	6026	65.8
1983	958	554	57.8	1204	552	45.8	3173	1944	61.3	9234	5969	64.6
1984	968	583	60.2	1290	616	47.8	3219	1976	61.4	9443	6190	65.6
1985	1010	603	59.7	1384	623	45.0	3477	2159	62.1	10076	6562	65.1
1986	1025	598	58.3	1408	525	37.3	3668	2281	62.2	10530	6801	64.6
1987	1018	608	59.7	1396	570	40.8	3738	2305	61.7	10384	6714	64.7
1988	958	627	65.4	1327	606	45.7	3744	2309	61.7	10460	6938	66.3
1989	1003	665	66.3	1486	684	46.0	4127	2466	59.8	11152	7282	65.3
1990	1107	770	69.6	1519	741	48.8	4155	2562	61.7	11316	7507	66.3
1991	1138	792	69.6	1593	749	47.0	4427	2614	59.0	11865	7700	64.9
1992	1280	938	73.3	1662	800	48.1	4897	2829	57.8	12774	8377	65.6
1993	1402	1043	74.4	1715	878	51.2	4935	2852	57.8	13246	8823	66.6
1994	1538	1180	76.7	1873	958	51.1	5255	3084	58.7	14265	9623	67.5
1995	1766	1421	80.5	1740	959	55.1	5927	3597	60.7	14936	10367	69.4
1996	1741	1402	80.5	1895	1074	56.7	6023	3774	62.7	15555	11153	71.7
1997	1744	1419	81.4	1782	1125	63.1	6040	3733	61.8	15714	11334	72.1
1998	1930	1607	83.3	1870	1182	63.2	6432	4195	65.2	16508	12202	73.9
1999	1890	1581	83.7	1903	1237	65.0	6487	4343	66.9	16519	12378	74.9

Table 21: CSIRO and government shares of Australian publications in the Science Citation Index: selected fields of research, 1981-99

Tape year	Engineering					Agriculture				
	Aust pubs	Govt		CSIRO		Aust pubs	Govt		CSIRO	
		Pubs	Share Aust pubs	Pubs	Share Aust pubs		Pubs	Share Aust pubs	Pubs	Share Aust pubs
1981	873	130	14.89	162	18.56	1229	445	36.21	338	27.50
1982	890	141	15.84	194	21.80	1127	404	35.85	312	27.68
1983	958	130	13.57	250	26.10	1204	423	35.13	351	29.15
1984	968	119	12.29	244	25.21	1290	446	34.57	347	26.90
1985	1010	140	13.86	244	24.16	1384	519	37.50	354	25.58
1986	1025	153	14.93	246	24.00	1408	620	44.03	377	26.78
1987	1018	169	16.60	241	23.67	1396	573	41.05	386	27.65
1988	958	124	12.94	212	22.13	1327	526	39.64	334	25.17
1989	1003	152	15.15	204	20.34	1486	630	42.40	363	24.43
1990	1107	145	13.10	202	18.25	1519	595	39.17	368	24.23
1991	1138	148	13.01	181	15.91	1593	642	40.30	396	24.86
1992	1280	162	12.66	215	16.80	1662	696	41.88	416	25.03
1993	1402	163	11.63	217	15.48	1715	669	39.01	433	25.25
1994	1538	176	11.44	226	14.69	1873	739	39.46	470	25.09
1995	1766	152	8.61	251	14.21	1740	651	37.41	395	22.70
1996	1741	178	10.22	219	12.58	1895	643	33.93	455	24.01
1997	1744	162	9.29	250	14.33	1782	537	30.13	417	23.40
1998	1930	160	8.29	229	11.87	1870	566	30.27	458	24.49
1999	1890	154	8.15	227	12.01	1903	581	30.53	446	23.44

Table 22: Distribution of sector publications in the Science Citation Index by level of research, 1995-99

	University		CSIRO		MRI		Government		Industry		Hospital	
	Pubs	%	Pubs	%	Pubs	%	Pubs	%	Pubs	%	Pubs	%
1: Basic scientific research	21803	43.03	2530	39.91	1935	39.20	2409	31.26	362	19.98	1113	9.67
2: Applied research	14065	27.76	1737	27.40	1930	39.10	2029	26.33	612	33.77	2733	23.73
3: Engineering, technol sci	9462	18.67	1817	28.66	714	14.47	2448	31.76	588	32.45	3123	27.12
4: Applied technology	5339	10.54	255	4.02	357	7.23	821	10.65	250	13.80	4546	39.48
Total	50669	100	6339	100	4936	100	7707	100	1812	100	11515	100

Table 23: Distribution of sector publications in the Science Citation Index by field of science, 1995-99

Field	University		CSIRO		MRI		Government		Industry		Hospital	
	Pubs	%	Pubs	%	Pubs	%	Pubs	%	Pubs	%	Pubs	%
Mathematics	3031	5.28	116	1.61	8	0.14	40	0.45	13	0.62	12	0.09
Physical Sci	9412	16.39	1126	15.67	201	3.56	726	8.19	205	9.74	145	1.13
Chemical Sci	7158	12.46	684	9.52	103	1.82	513	5.79	259	12.31	131	1.02
Earth Sci	3961	6.90	981	13.65	2	0.04	1282	14.46	319	15.16	1	0.01
Biological Sci	13776	23.99	2373	33.02	2051	36.34	2724	30.73	385	18.30	1946	15.18
Inf, Comp, Comm	950	1.65	51	0.71	6	0.11	25	0.28	35	1.66	14	0.11
Engn & Technol	7430	12.94	1176	16.36	19	0.34	806	9.09	610	28.99	134	1.05
Agric, Vet, Env	5577	9.71	2171	30.21	66	1.17	2978	33.60	433	20.58	76	0.59
Med & Hlth Sci	19642	34.20	587	8.17	3947	69.93	2231	25.17	444	21.10	11947	93.18
SCI total	57434	100	7187	100	5644	100	8864	100	2104	100	12821	100

Table 24: Levels of collaboration in Australian publications in the Science Citation Index, 1981-99

<b>Tape year</b>	<b>Total</b>	<b>Single</b>	<b>%</b>	<b>Institut</b>	<b>%</b>	<b>National</b>	<b>%</b>	<b>Internat</b>	<b>%</b>
1981	9168	2560	27.9	5192	56.6	1264	13.8	1047	11.42
1982	9155	2371	25.9	5278	57.7	1340	14.6	1124	12.28
1983	9234	2330	25.2	5314	57.5	1448	15.7	1249	13.53
1984	9443	2264	24.0	5527	58.5	1457	15.4	1300	13.77
1985	10076	2399	23.8	5825	57.8	1529	15.2	1423	14.12
1986	10530	2410	22.9	6107	58.0	1756	16.7	1568	14.89
1987	10384	2258	21.7	6145	59.2	1877	18.1	1553	14.96
1988	10460	2105	20.1	6145	58.7	1998	19.1	1858	17.76
1989	11152	2124	19.0	6667	59.8	2121	19.0	1946	17.45
1990	11316	2086	18.4	6671	59.0	2234	19.7	2175	19.22
1991	11865	2260	19.0	6375	53.7	2571	21.7	2818	23.75
1992	12774	2150	16.8	7015	54.9	3019	23.6	3212	25.14
1993	13246	2140	16.2	7140	53.9	3271	24.7	3552	26.82
1994	14265	2223	15.6	7750	54.3	3447	24.2	4012	28.12
1995	14936	2138	14.3	8115	54.3	3793	25.4	4439	29.72
1996	15555	2149	13.8	8342	53.6	4245	27.3	4758	30.59
1997	15714	2064	13.1	8353	53.2	4278	27.2	5224	33.24
1998	16508	1992	12.1	8840	53.5	4652	28.2	5700	34.53
1999	16519	1962	11.9	8813	53.4	4745	28.7	5768	34.92

Table 25: Share of Australia's international collaborations in the Science Citation Index: selected regions, 1981-99

<b>Tape year</b>	<b>All inter-natl</b>	<b>European Union</b>		<b>USA</b>		<b>England</b>		<b>Dev Asian countries</b>		<b>Canada</b>		<b>South-east Asia</b>	
		<b>Pubs</b>	<b>%</b>	<b>Pubs</b>	<b>%</b>	<b>Pubs</b>	<b>%</b>	<b>Pubs</b>	<b>%</b>	<b>Pubs</b>	<b>%</b>	<b>Pubs</b>	<b>%</b>
1981	1047	388	37.06	439	41.93	219	20.92	28	2.67	80	7.64	28	2.67
1982	1124	433	38.52	429	38.17	253	22.51	38	3.38	108	9.61	24	2.14
1983	1249	460	36.83	519	41.55	263	21.06	48	3.84	109	8.73	29	2.32
1984	1300	490	37.69	512	39.38	251	19.31	37	2.85	107	8.23	29	2.23
1985	1423	506	35.56	531	37.32	269	18.90	46	3.23	126	8.85	31	2.18
1986	1568	547	34.89	637	40.63	288	18.37	68	4.34	139	8.86	29	1.85
1987	1553	525	33.81	637	41.02	284	18.29	60	3.86	137	8.82	36	2.32
1988	1858	581	31.27	757	40.74	306	16.47	100	5.38	146	7.86	46	2.48
1989	1946	659	33.86	780	40.08	330	16.96	103	5.29	140	7.19	54	2.77
1990	2175	710	32.64	845	38.85	368	16.92	122	5.61	163	7.49	73	3.36
1991	2818	1010	35.84	1094	38.82	556	19.73	165	5.86	239	8.48	85	3.02
1992	3212	1395	43.43	1272	39.60	614	19.12	207	6.44	273	8.50	75	2.33
1993	3552	1549	43.61	1358	38.23	696	19.59	261	7.35	329	9.26	105	2.96
1994	4012	1799	44.84	1434	35.74	735	18.32	261	6.51	364	9.07	118	2.94
1995	4439	1900	42.80	1633	36.79	754	16.99	335	7.55	390	8.79	129	2.91
1996	4758	2155	45.29	1693	35.58	871	18.31	423	8.89	371	7.80	109	2.29
1997	5224	2397	45.88	1842	35.26	907	17.36	517	9.90	441	8.44	139	2.66
1998	5700	2544	44.63	2036	35.72	1022	17.93	554	9.72	490	8.60	123	2.16
1999	5768	2615	45.34	2105	36.49	976	16.92	500	8.67	444	7.70	141	2.44

Table 26: Levels of collaboration in Australian publications in the Science Citation Index by sector, 1995-99

Level of collab	University		CSIRO		MRI		Government		Industry		Hospital	
	Pubs	%	Pubs	%	Pubs	%	Pubs	%	Pubs	%	Pubs	%
Single	6663	11.60	906	12.61	311	5.51	1204	13.58	269	12.79	1024	7.99
Group	29346	51.10	3271	45.51	3442	60.99	4187	47.24	972	46.20	7718	60.20
National	17652	30.73	3326	46.28	2852	50.53	4727	53.33	1348	64.07	7261	56.63
International	18748	32.64	2287	31.82	1887	33.43	2145	24.20	561	26.66	2985	23.28
Total	57434	100	7187	100	5644	100	8864	100	2104	100	12821	100

Table 27: University collaborations with selected sectors in Science Citation Index publications 1981-99

Tape year	Uni-CSIRO	Uni-Hosp	Uni-Govt	Uni-MRI	Uni-Other	Uni-Industry
1981	170	312	212	67	34	38
1982	157	308	211	64	49	53
1983	221	357	232	66	40	61
1984	184	373	230	78	27	64
1985	212	387	257	80	32	46
1986	262	461	299	104	30	53
1987	274	458	302	112	46	58
1988	277	524	325	116	42	78
1989	334	503	331	122	57	95
1990	306	561	402	138	55	98
1991	361	623	458	163	70	106
1992	415	686	515	195	89	110
1993	404	766	594	242	101	109
1994	470	729	607	259	94	167
1995	491	871	613	293	104	148
1996	559	953	670	307	135	204
1997	512	923	727	359	140	182
1998	513	1050	798	431	140	251
1999	491	1181	849	517	153	209

Table 28: Australia's share of world publications and citations: Mathematical Sciences 1981-85 to 1995-99

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	71381	92112	1827	2682	2.56	2.91	1.14
1982-86	73510	95595	1844	2681	2.51	2.80	1.12
1983-87	76239	100456	1845	2607	2.42	2.60	1.07
1984-88	78574	108087	1920	2765	2.44	2.56	1.05
1985-89	81898	115957	1953	2726	2.38	2.35	0.99
1986-90	84645	124376	1906	2759	2.25	2.22	0.99
1987-91	87226	129245	1871	2832	2.15	2.19	1.02
1988-92	90709	127891	1913	2752	2.11	2.15	1.02
1989-93	94924	124115	2011	2576	2.12	2.08	0.98
1990-94	99257	128786	2208	2827	2.22	2.20	0.99
1991-95	104499	139656	2440	3411	2.33	2.44	1.05
1992-96	108854	154766	2735	4120	2.51	2.66	1.06
1993-97	111835	169175	2938	4989	2.63	2.95	1.12
1994-98	116063	181060	3061	5311	2.64	2.93	1.11
1995-99	118074	191674	3149	5588	2.67	2.92	1.09

Table 29: Sectoral distribution of Australian publications:  
Mathematical Sciences, 1995-99

Sector	Pubs	Share
University	3031	96.25
CSIRO	116	3.68
Australia	3149	100.00

Table 30: Actual and expected citation rates:  
Mathematical Sciences, 1995-97

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	1163	1087	459	1.07	2.37	2.53
CSIRO	200	237	116	0.84	2.05	1.72
La Trobe University	162	198	122	0.82	1.62	1.33
Monash University	268	242	139	1.11	1.74	1.93
University Adelaide	203	238	174	0.85	1.37	1.17
University Melbourne	576	558	290	1.03	1.92	1.99
University New South Wales	1012	792	429	1.28	1.85	2.36
University Newcastle	130	142	103	0.92	1.37	1.26
University Queensland	400	384	251	1.04	1.53	1.59
University Sydney	452	450	276	1.00	1.63	1.64
University Western Australia	339	290	263	1.17	1.10	1.29
Australia	5588	5140	3149	1.09	1.63	1.77
SCI Total		192627	119272		1.62	

Table 31: Mathematical Sciences sub-field analysis, 1995-99

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel jourm impact
MATHEMATICAL SCIENCES	192627	119272	5588	5140	3149	1.09	1.01
Mathematics	87507	79581	2265	2247	1997	1.01	1.02
Statistics	27671	15924	1412	1288	706	1.10	1.05
Other mathematical sciences	90858	30894	2442	2123	718	1.15	1.01

Table 32: Australia's share of world publications and citations:  
Physical Sciences(excl. Astronomy), 1981-85 to 1995-99

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	314113	1041844	4404	14687	1.40	1.41	1.01
1982-86	323952	1088395	4516	15757	1.39	1.45	1.04
1983-87	329855	1124466	4458	15997	1.35	1.42	1.05
1984-88	343990	1189811	4623	16276	1.34	1.37	1.02
1985-89	361306	1275350	4751	16801	1.31	1.32	1.00
1986-90	375287	1326868	4771	16580	1.27	1.25	0.98
1987-91	390832	1375782	4949	16014	1.27	1.16	0.92
1988-92	414581	1418204	5232	16637	1.26	1.17	0.93
1989-93	427384	1446473	5588	17192	1.31	1.19	0.91
1990-94	444846	1503292	6172	18572	1.39	1.24	0.89
1991-95	462971	1563626	6830	21917	1.48	1.40	0.95
1992-96	480253	1636491	7402	24445	1.54	1.49	0.97
1993-97	488980	1667771	8034	27412	1.64	1.64	1.00
1994-98	503630	1713337	8562	30125	1.70	1.76	1.03
1995-99	511317	1785664	8730	32148	1.71	1.80	1.05

Table 33: Sectoral distribution of Australian publications:  
Physical Sciences (excl. Astronomy), 1995-99

Sector	Pubs	Share
University	7889	90.37
CSIRO	638	7.31
Industry	187	2.14
MRIs	201	2.30
Government	362	4.15
Australia	8730	100.00

Table 34: Actual and expected citation rates – institutions with more than 400 publications:  
Physical Sciences (excl. Astronomy), 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	7910	6964	1613	1.14	4.32	4.90
CSIRO	2226	1830	638	1.22	2.87	3.49
Monash University	1240	1511	405	0.82	3.73	3.06
University Melbourne	3511	3651	912	0.96	4.00	3.85
University New South Wales	3089	3452	1058	0.89	3.26	2.92
University Queensland	2473	2413	607	1.03	3.97	4.07
University Sydney	3583	3540	924	1.01	3.83	3.88
University Western Australia	1174	1367	458	0.86	2.98	2.56
Australia	32148	31870	8730	1.01	3.65	3.68
ISI Total		1785664	511317		3.49	

Table 35: Actual and expected citation rates – institutions with less than 400 publications:  
Physical Sciences (excl. Astronomy), 1995-99.

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Aust Nuclear Sci & Tech Org	374	458	171	0.82	2.68	2.19
Defence Sci & Technol Org	147	338	146	0.43	2.32	1.01
Flinders University South Aust	1487	1139	275	1.31	4.14	5.41
Griffith University	305	360	104	0.85	3.46	2.93
La Trobe University	464	624	156	0.74	4.00	2.97
Macquarie University	721	827	246	0.87	3.36	2.93
Royal Melbourne Inst Technol	318	454	140	0.70	3.24	2.27
University Adelaide	1688	1547	377	1.09	4.10	4.48
University Newcastle	587	647	196	0.91	3.30	2.99
University Wollongong	983	902	359	1.09	2.51	2.74
Australia	32148	31870	8730	1.01	3.65	3.68
ISI Total		1785664	511317		3.49	

Table 36: Australia's share of world publications and citations:  
Astronomical Sciences, 1981-85 to 1995-99

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	29173	126155	878	4209	3.01	3.34	1.11
1982-86	30143	125831	1017	4797	3.37	3.81	1.13
1983-87	31887	129607	1057	4884	3.31	3.77	1.14
1984-88	32930	131283	1070	4693	3.25	3.57	1.10
1985-89	33812	135292	1071	4840	3.17	3.58	1.13
1986-90	35292	139401	1058	4999	3.00	3.59	1.20
1987-91	36332	141834	1015	4710	2.79	3.32	1.19
1988-92	37526	147652	1092	5210	2.91	3.53	1.21
1989-93	39222	156883	1185	5629	3.02	3.59	1.19
1990-94	43071	170674	1286	5855	2.99	3.43	1.15
1991-95	45815	194870	1435	6644	3.13	3.41	1.09
1992-96	49050	223413	1630	7864	3.32	3.52	1.06
1993-97	50823	242292	1762	9253	3.47	3.82	1.10
1994-98	52229	249283	1897	10342	3.63	4.15	1.14
1995-99	52444	289798	2017	13952	3.85	4.81	1.25

Table 37: Sectoral distribution of Australian publications:  
Astronomical Sciences, 1995 – 99

Sector	Pubs	Share
University	1530	75.86
CSIRO	488	24.19
Government	364	18.05
Australia	2017	100.00

Table 38: Actual and expected citation rates:  
Astronomical Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Anglo Australian Observatory	1816	1621	245	1.12	6.62	7.41
Australian National University	5440	3477	528	1.56	6.58	10.30
CSIRO	3205	3104	488	1.03	6.36	6.57
University New South Wales	1829	1471	250	1.24	5.89	7.32
University Sydney	1768	1833	339	0.96	5.41	5.22
University Tasmania	527	596	105	0.88	5.68	5.02
Australia	13952	11612	2017	1.20	5.76	6.92
SCI Total		289887	52930		5.48	

Table 39: *Physical Sciences sub-field analysis, 1995-99*

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel journ impact
PHYSICAL SCIENCES	2074924	564985	46087	43464	10740	1.06	1.10
Astronomy	289887	52930	13952	11612	2017	1.20	1.05
Condensed matter physics	261346	89805	3554	3408	1199	1.04	0.98
Atomic & molecular	405675	97345	8322	7997	1864	1.04	1.03
Optical	100907	37085	3346	3252	1070	1.03	1.12
Classical	123140	47542	3249	3047	1092	1.07	1.08
Other physical sci	369246	89772	7386	7145	1773	1.03	0.98
General physical sci	682047	213495	10858	10944	3061	0.99	1.12

Table 40: *Australia's share of world publications and citations: Chemical Sciences, 1981-85 to 1995-99*

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	343479	843019	5430	17988	1.58	2.13	1.35
1982-86	352921	874425	5405	17833	1.53	2.04	1.33
1983-87	356599	873028	5417	17492	1.52	2.00	1.32
1984-88	364396	907521	5474	18161	1.50	2.00	1.33
1985-89	371766	903184	5440	17211	1.46	1.91	1.30
1986-90	379456	924455	5555	17480	1.46	1.89	1.29
1987-91	387603	927715	5626	16171	1.45	1.74	1.20
1988-92	402175	997055	5752	16803	1.43	1.69	1.18
1989-93	412052	1065099	5979	17104	1.45	1.61	1.11
1990-94	421407	1157900	6248	18582	1.48	1.60	1.08
1991-95	432931	1245620	6572	20500	1.52	1.65	1.08
1992-96	443822	1333907	7015	22946	1.58	1.72	1.09
1993-97	449865	1405654	7429	24808	1.65	1.76	1.07
1994-98	458921	1473950	7797	26654	1.70	1.81	1.06
1995-99	466384	1552051	8051	29066	1.73	1.87	1.08

Table 41: *Sectoral distribution of Australian publications: Chemical Sciences, 1995-99*

Sector	Pubs	Share
University	7158	88.91
CSIRO	684	8.50
Industry	259	3.22
Hospital	131	1.63
Government	513	6.37
	8051	100.00

Table 42: Actual and expected citation rates – institutions with more than 400 publications:  
Chemical Sciences, 1995-99

	<b>Act. Cites</b>	<b>Exp. Cites</b>	<b>No. Pubs</b>	<b>Act./Exp.</b>	<b>Av. Exp.</b>	<b>Av. Act.</b>
Australian National University	4502	3956	954	1.14	4.15	4.72
CSIRO	2360	2249	684	1.05	3.29	3.45
Monash University	2407	2733	725	0.88	3.77	3.32
University Adelaide	1605	1540	511	1.04	3.01	3.14
University Melbourne	2757	2601	680	1.06	3.82	4.05
University New South Wales	2686	2818	779	0.95	3.62	3.45
University Queensland	2221	2550	629	0.87	4.05	3.53
University Sydney	3608	3437	782	1.05	4.39	4.61
University Western Australia	2109	1778	588	1.19	3.02	3.59
Australia	29066	28665	8051	1.01	3.56	3.61
SCI Total		1552751	470803		3.30	

Table 43: Actual and expected citation rates – institutions with less than 400 publications:  
Chemical Sciences, 1995-99

	<b>Act. Cites</b>	<b>Exp. Cites</b>	<b>No. Pubs</b>	<b>Act./Exp.</b>	<b>Av. Exp.</b>	<b>Av. Act.</b>
Aust Nuclear Sci & Tech Org	402	518	187	0.78	2.77	2.15
Curtin University Technol	207	306	127	0.68	2.41	1.63
Deakin University	320	350	124	0.92	2.82	2.58
Flinders University South Aust	477	607	140	0.79	4.34	3.41
Griffith University	763	756	197	1.01	3.84	3.87
James Cook University North Qld	586	515	132	1.14	3.90	4.44
La Trobe University	1020	1084	268	0.94	4.04	3.81
Macquarie University	757	564	137	1.34	4.11	5.53
Murdoch University	284	291	116	0.98	2.51	2.45
Queensland University Technol	533	467	204	1.14	2.29	2.61
Royal Melbourne Inst Technol	347	411	142	0.84	2.89	2.44
University Newcastle	395	502	171	0.79	2.94	2.31
University South Australia	441	370	125	1.19	2.96	3.53
University Tasmania	1105	984	229	1.12	4.30	4.83
University Wollongong	773	717	233	1.08	3.08	3.32
Australia	29066	28665	8051	1.01	3.56	3.61
SCI Total		1552751	470803		3.30	

Table 44: Chemical Sciences sub-field analysis, 1995-99

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel journ impact
CHEMICAL SCIENCES	1552751	470803	29066	28665	8051	1.01	1.08
Physical Chemistry	504349	161212	10339	9645	2782	1.07	1.11
Inorganic Chemistry	200207	71989	5230	5269	1620	0.99	1.17
Organic Chemistry	273739	73029	4074	4176	1019	0.98	1.09
Analytical Chemistry	203709	64572	4411	4148	1228	1.06	1.07
Macromolecular Chemistry	119696	44336	2091	1721	604	1.22	1.06
Other Chemical Sci	51261	25328	1047	1013	374	1.03	1.34
General Chemical Sciences	421323	104213	6805	7294	1780	0.93	1.01

Table 45: Australia's share of world publications and citations: Earth Sciences, 1981-85 to 1995-99

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	69265	180893	2977	8271	4.30	4.57	1.06
1982-86	72180	184228	3127	8188	4.33	4.44	1.03
1983-87	75093	197623	3267	8935	4.35	4.52	1.04
1984-88	76425	198765	3430	9561	4.49	4.81	1.07
1985-89	78276	195603	3552	10243	4.54	5.24	1.15
1986-90	80611	199377	3739	11217	4.64	5.63	1.21
1987-91	82742	212880	3812	11016	4.61	5.17	1.12
1988-92	84927	217615	3949	11019	4.65	5.06	1.09
1989-93	88734	226824	4223	11510	4.76	5.07	1.07
1990-94	92381	237236	4481	12280	4.85	5.18	1.07
1991-95	95988	259208	4670	13676	4.87	5.28	1.08
1992-96	99790	282201	4985	14737	5.00	5.22	1.05
1993-97	102196	301110	5164	15969	5.05	5.30	1.05
1994-98	105000	310794	5346	16379	5.09	5.27	1.04
1995-99	107084	330596	5596	18370	5.23	5.56	1.06

Table 46: Sectoral distribution of Australian publications: Earth Sciences, 1995-99

Sector	Pubs	Share
University	3961	70.78
CSIRO	981	17.53
Industry	319	5.70
Government	1282	22.91
Australia	5596	100.00

Table 47: Actual and expected citation rates – institutions with more than 250 publications:  
Earth Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	3561	2676	713	1.33	3.75	4.99
Bureau Meteorology	1043	1088	291	0.96	3.74	3.58
CSIRO	4373	3572	981	1.22	3.64	4.46
James Cook University North Qld	686	651	254	1.05	2.56	2.70
Macquarie University	1110	1050	255	1.06	4.12	4.35
Monash University	1358	1247	366	1.09	3.41	3.71
University Adelaide	982	853	272	1.15	3.14	3.61
University New South Wales	838	874	311	0.96	2.81	2.69
University Tasmania	852	825	293	1.03	2.82	2.91
University Western Australia	708	683	294	1.04	2.32	2.41
Australia	18370	17071	5596	1.08	3.05	3.28
SCI Total		330734	107930		3.06	

Table 48: Actual and expected citation rates – institutions with less than 250 publications:  
Earth Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian Geol Survey Org	843	665	195	1.27	3.41	4.32
Curtin University Technol	458	498	179	0.92	2.78	2.56
DIST	430	442	132	0.97	3.35	3.26
La Trobe University	508	536	172	0.95	3.11	2.95
New South Wales Government	359	322	150	1.12	2.15	2.39
University Melbourne	638	667	217	0.96	3.07	2.94
University Newcastle	361	333	111	1.08	3.00	3.25
University Queensland	500	481	236	1.04	2.04	2.12
University Sydney	480	553	200	0.87	2.77	2.40
Western Aust Government	255	268	116	0.95	2.31	2.20
Australia	18370	17071	5596	1.08	3.05	3.28
SCI Total		330734	107930		3.06	

Table 49: Earth Sciences sub-field analysis, 1995-99

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel journ impact
EARTH SCIENCES	330734	107930	18370	17071	5596	1.08	1.00
Geology	46247	17432	3193	3073	1162	1.04	1.00
Geophysics & Geochemistry	119721	30680	6589	5558	1450	1.19	0.98
Oceanography	96904	23556	4780	4385	1241	1.09	0.86
Atmospheric Sciences	127145	33015	5451	5028	1237	1.08	1.06
Other Earth Sciences	9255	4750	602	611	243	0.99	1.29
General Earth Sciences	139807	44997	6838	6179	1994	1.11	1.00

Table 50: *Distribution of publications in Biological Sciences, by sub-field, 1995-99*

	World		Australian	
	Pubs	%	Pubs	%
Biochem, cell biology	278634	48.67	6600	34.29
Biotechnology	80300	14.02	2077	10.79
Genetics	74571	13.02	2658	13.81
Botany	64447	11.26	3253	16.90
Microbiology	58325	10.19	1676	8.71
Zoology	57526	10.05	3240	16.83
Ecology, Evolution	38934	6.80	2873	14.93
General	32700	5.71	1149	5.97
<b>BIOLOGICAL SCIENCES</b>	<b>572550</b>	<b>100.00</b>	<b>19248</b>	<b>100.00</b>

Table 51: *Australia's share of world publications and citations: Biological Sciences (high impact), 1981-85 to 1995-99*

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	202044	1085690	4190	19382	2.07	1.79	0.86
1982-86	210121	1161241	4399	22059	2.09	1.90	0.91
1983-87	215612	1225918	4646	24429	2.15	1.99	0.92
1984-88	224675	1299973	4932	26570	2.20	2.04	0.93
1985-89	235818	1387353	5238	28541	2.22	2.06	0.93
1986-90	244047	1468787	5457	27666	2.24	1.88	0.84
1987-91	253510	1584709	5766	29585	2.27	1.87	0.82
1988-92	265705	1732426	6095	33183	2.29	1.92	0.84
1989-93	275844	1868066	6390	34771	2.32	1.86	0.80
1990-94	287028	2029863	6760	37327	2.36	1.84	0.78
1991-95	299955	2221656	7109	43955	2.37	1.98	0.83
1992-96	310151	2390474	7477	48212	2.41	2.02	0.84
1993-97	317370	2505807	7805	51167	2.46	2.04	0.83
1994-98	324458	2597784	8132	56118	2.51	2.16	0.86
1995-99	327347	2673410	8364	59347	2.56	2.22	0.87

Table 52: *Sectoral distribution of Australian publications: Biological Sciences (high impact sub-fields), 1995-99*

Sector	Pubs	Share
University	5925	70.84
CSIRO	596	7.13
MRIs	1841	22.01
Hospital	1464	17.50
Government	350	4.18
<b>Australia</b>	<b>8364</b>	<b>100.00</b>

Table 53: Actual and expected citation rates – universities:  
Biological Sciences (high impact sub-fields), 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	4607	4823	651	0.96	7.41	7.08
Flinders University South Aust	1536	1414	220	1.09	6.43	6.98
La Trobe University	2158	2359	297	0.91	7.94	7.27
Macquarie University	1190	976	175	1.22	5.58	6.80
Monash University	3415	3783	556	0.90	6.80	6.14
University Adelaide	2801	3230	448	0.87	7.21	6.25
University Melbourne	6466	6423	880	1.01	7.30	7.35
University New South Wales	1940	2100	389	0.92	5.40	4.99
University Newcastle	467	675	106	0.69	6.37	4.41
University Queensland	6811	6059	849	1.12	7.14	8.02
University Sydney	4305	4317	759	1.00	5.69	5.67
University Tasmania	468	522	108	0.90	4.83	4.33
University Western Australia	2976	2840	480	1.05	5.92	6.20
Australia	59347	58895	8364	1.01	7.04	7.10
ISI total		2674790	328332		8.15	

Table 54: Actual and expected citation rates – other institutions:  
Biological Sciences (high impact sub-fields), 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Adelaide Med Ctr Women & Child	2632	3172	282	0.83	11.25	9.33
Baker Med Res Inst	1100	1153	140	0.95	8.24	7.86
CSIRO	3717	3251	596	1.14	5.45	6.24
Garvan Inst Med Res	900	1006	119	0.89	8.45	7.56
Hanson Ctr Canc Res	1537	1124	101	1.37	11.13	15.22
Ludwig Inst Canc Res	1529	1663	143	0.92	11.63	10.69
Murdoch Inst Res Birth Defects Ltd	1372	1441	138	0.95	10.44	9.94
Queensland Inst Med Res	2659	2192	250	1.21	8.77	10.64
St Vincents Inst Med Res	1151	1206	121	0.95	9.97	9.51
Walter & Eliza Hall Inst Med Res	4673	4166	323	1.12	12.90	14.47
Australia	59347	58895	8364	1.01	7.04	7.10
ISI total		2674790	328332		8.15	

Table 55: Australia's share of world publications and citations:  
Biological Sciences (low impact), 1981-85 to 1995-99

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	220291	581146	8142	22945	3.70	3.95	1.07
1982-86	227473	609312	8287	23817	3.64	3.91	1.07
1983-87	233393	626487	8434	24260	3.61	3.87	1.07
1984-88	239221	637693	8541	24289	3.57	3.81	1.07
1985-89	246064	657807	8864	25165	3.60	3.83	1.06
1986-90	251233	681569	9145	26462	3.64	3.88	1.07
1987-91	255702	717600	9431	27458	3.69	3.83	1.04
1988-92	262137	756867	9792	28866	3.74	3.81	1.02
1989-93	269214	806640	10204	30558	3.79	3.79	1.00
1990-94	277326	870804	10651	31943	3.84	3.67	0.96
1991-95	286249	946175	11054	34884	3.86	3.69	0.95
1992-96	294669	1032532	11576	38422	3.93	3.72	0.95
1993-97	301169	1093987	12094	41502	4.02	3.79	0.94
1994-98	307298	1143604	12749	45127	4.15	3.95	0.95
1995-99	310969	1201975	13161	48250	4.23	4.01	0.95

Table 56: Sectoral distribution of Australian publications:  
Biological Sciences (low impact sub-fields), 1995-99

Sector	Pubs	Share
University	9509	72.25
CSIRO	2084	15.83
Industry	317	2.41
MRIs	515	3.91
Hospital	714	5.43
Government	2570	19.53
Australia	13161	100.00

Table 57: Actual and expected citation rates – universities with medical schools:  
Biological Sciences (low impact sub-fields), 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	4741	4312	1009	1.10	4.27	4.70
Flinders University South Aust	856	854	213	1.00	4.01	4.02
James Cook University North Qld	1466	1467	443	1.00	3.31	3.31
Monash University	1629	2079	511	0.78	4.07	3.19
University Adelaide	2858	2700	705	1.06	3.83	4.05
University Melbourne	3755	3641	842	1.03	4.32	4.46
University New South Wales	2280	2364	640	0.96	3.69	3.56
University Newcastle	392	380	107	1.03	3.55	3.66
University Queensland	4285	4254	1287	1.01	3.31	3.33
University Sydney	4018	3496	976	1.15	3.58	4.12
University Tasmania	1729	1496	506	1.16	2.96	3.42
University Western Australia	2152	2292	726	0.94	3.16	2.96
Australia	48250	46704	13161	1.03	3.55	3.67
SCI total		1202782	312129		3.85	

Table 58: Actual and expected citation rates – other universities and medical research institutes:  
Biological Sciences (low impact sub-fields), 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Curtin University Technol	301	340	101	0.89	3.37	2.98
Griffith University	528	657	215	0.80	3.06	2.46
La Trobe University	1790	1780	456	1.01	3.90	3.93
Murdoch University	888	721	263	1.23	2.74	3.38
Northern Terr itory University	394	328	118	1.20	2.78	3.34
Queensland Inst Med Research	606	597	131	1.02	4.56	4.63
Queensland University Technol	302	383	102	0.79	3.76	2.96
University New England	978	889	305	1.10	2.91	3.21
University Wollongong	307	357	106	0.86	3.37	2.90
Walter & Eliza Hall Inst Med Res	1009	786	114	1.28	6.89	8.85
Australia	48250	46704	13161	1.03	3.55	3.67
SCI total		1202782	312129		3.85	

Table 59: Actual and expected citation rates- CSIRO and government sectors:  
Biological Sciences (low impact sub-fields), 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian Government	1421	1388	477	1.02	2.91	2.98
CSIRO	8094	7240	2084	1.12	3.47	3.88
New South Wales Government	1710	1497	639	1.14	2.34	2.68
Northern Territory Government	234	287	120	0.81	2.39	1.95
Queensland Government	1128	1208	510	0.93	2.37	2.21
South Australian Government	574	517	188	1.11	2.75	3.05
Tasmanian Government	174	239	127	0.73	1.88	1.37
Victorian Government	754	796	322	0.95	2.47	2.34
Western Aust Government	762	862	325	0.88	2.65	2.34
Australia	48250	46704	13161	1.03	3.55	3.67
SCI total		1202782	312129		3.85	

Table 60: Biological Sciences sub-field analysis, 1995-99

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel journ impact
BIOLOGICAL SCIENCES	3504445	572550	95701	93808	19248	1.02	0.80
Biochemistry and Cell Biology	2265104	278634	47573	46828	6600	1.02	0.87
Genetics	594338	74571	18382	18526	2658	0.99	0.87
Microbiology	290696	58325	8431	8366	1676	1.01	1.00
Botany	208298	64447	11442	10509	3253	1.09	1.00
Zoology	140411	57526	7473	7577	3240	0.99	0.96
Ecology and Evolution	137350	38934	9721	9414	2873	1.03	0.93
Biotechnology	353265	80300	9568	9166	2077	1.04	1.00
Other Biological Sciences	88336	23408	4055	3815	978	1.06	1.03
General Biological Sciences	161101	32700	5710	5682	1149	1.00	1.00

Table 61: Australia's share of world publications and citations:  
Information, Computing and Communication Sciences, 1981-85 to 1995-99

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	17239	25235	316	599	1.83	2.37	1.29
1982-86	18531	27627	331	666	1.79	2.41	1.35
1983-87	19883	29810	347	714	1.75	2.40	1.37
1984-88	20944	32496	379	521	1.81	1.60	0.89
1985-89	22760	35586	422	430	1.85	1.21	0.65
1986-90	24064	37074	455	528	1.89	1.42	0.75
1987-91	25637	38880	473	544	1.84	1.40	0.76
1988-92	27836	40083	521	675	1.87	1.68	0.90
1989-93	30559	44995	568	803	1.86	1.78	0.96
1990-94	33195	48903	621	747	1.87	1.53	0.82
1991-95	36180	53740	701	833	1.94	1.55	0.80
1992-96	38519	62062	796	1006	2.07	1.62	0.78
1993-97	39756	64212	903	1273	2.27	1.98	0.87
1994-98	41096	70580	986	1287	2.40	1.82	0.76
1995-99	41082	75576	1024	1505	2.49	1.99	0.80

Table 62: Sectoral distribution of Australian publications:  
Information, Computing and Communication Sciences, 1995-99

Sector	Pubs	Share
University	950	92.77
CSIRO	51	4.98
Industry	35	3.42
Government	25	2.44
Australia	1024	100.00

Table 63: Actual and expected citation rates:  
Information, Computing and Communication Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
University New South Wales	209	174	104	1.20	1.67	2.01
University Queensland	150	182	107	0.83	1.70	1.40
University Sydney	234	238	156	0.98	1.53	1.50
Australia	1505	1690	1024	0.89	1.65	1.47
SCI Total		76535	42347		1.81	

Table 64: Australia's share of world publications and citations:  
Engineering and Technology, 1981-85 to 1995-99

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	279690	381560	4699	7714	1.68	2.02	1.20
1982-86	291635	400704	4851	8255	1.66	2.06	1.24
1983-87	299739	416594	4979	8601	1.66	2.06	1.24
1984-88	307370	428357	4979	8581	1.62	2.00	1.24
1985-89	319440	450333	5014	8788	1.57	1.95	1.24
1986-90	330183	461075	5111	9073	1.55	1.97	1.27
1987-91	343593	477008	5224	8849	1.52	1.86	1.22
1988-92	365933	517260	5486	9227	1.50	1.78	1.19
1989-93	381509	552675	5930	9705	1.55	1.76	1.13
1990-94	399292	602144	6465	10920	1.62	1.81	1.12
1991-95	416991	647660	7124	12175	1.71	1.88	1.10
1992-96	428467	699294	7727	13866	1.80	1.98	1.10
1993-97	432836	718758	8191	15149	1.89	2.11	1.11
1994-98	444316	757618	8719	16334	1.96	2.16	1.10
1995-99	449446	814452	9071	17925	2.02	2.20	1.09

Table 65: Sectoral distribution of Australian publications:  
Engineering and Technology, 1995-99

Sector	Pubs	Share
University	7430	81.91
CSIRO	1176	12.96
Industry	610	6.72
Government	806	8.89
Australia	9071	100.00

Table 66: Actual and expected citation rates – institutions with more than 300 publications:  
Engineering and Technology, 1995-99

	<b>Act. Cites</b>	<b>Exp. Cites</b>	<b>No. Pubs</b>	<b>Act./Exp.</b>	<b>Av. Exp.</b>	<b>Av. Act.</b>
Australian National University	1435	1181	558	1.22	2.12	2.57
CSIRO	3258	2518	1176	1.29	2.14	2.77
Monash University	928	1077	565	0.86	1.91	1.64
University Melbourne	1554	1329	644	1.17	2.06	2.41
University New South Wales	2181	2317	1137	0.94	2.04	1.92
University Newcastle	673	672	355	1.00	1.89	1.90
University Queensland	1389	1379	780	1.01	1.77	1.78
University Sydney	1909	1712	946	1.12	1.81	2.02
University Western Australia	993	935	477	1.06	1.96	2.08
University Wollongong	565	601	343	0.94	1.75	1.65
Australia	17925	17315	9071	1.04	1.91	1.98
SCI Total		815799	458504		1.78	

Table 67: Actual and expected citation rates – institutions with less than 300 publications:  
Engineering and Technology, 1995-99

	<b>Act. Cites</b>	<b>Exp. Cites</b>	<b>No. Pubs</b>	<b>Act./Exp.</b>	<b>Av. Exp.</b>	<b>Av. Act.</b>
Aust Nuclear Sci & Technol Org	418	417	194	1.00	2.15	2.15
Curtin University Technol	235	299	214	0.79	1.40	1.10
Defence Sci & Technol Org	197	323	211	0.61	1.53	0.93
Griffith University	233	263	143	0.89	1.84	1.63
La Trobe University	226	212	104	1.07	2.04	2.17
Macquarie University	558	376	136	1.49	2.76	4.10
Queensland University Technol	234	294	195	0.80	1.51	1.20
Royal Melbourne Inst Technol	425	439	236	0.97	1.86	1.80
University Adelaide	458	426	232	1.08	1.83	1.97
University South Australia	232	336	175	0.69	1.92	1.33
University Tasmania	224	263	118	0.85	2.23	1.90
University Technol Sydney	175	229	147	0.76	1.56	1.19
Australia	17925	17315	9071	1.04	1.91	1.98
SCI Total		815799	458504		1.78	

Table 68: Sectoral share of Australian publications in Engineering and Technology, 1981-99

Tape year	Total Aust pubs	Government		Industry		CSIRO	
		Pubs	Share Aust tot	Pubs	Share Aust tot	Pubs	Share Aust tot
1981	873	130	14.89	48	5.50	162	18.56
1982	890	141	15.84	72	8.09	194	21.80
1983	958	130	13.57	79	8.25	250	26.10
1984	968	119	12.29	76	7.85	244	25.21
1985	1010	140	13.86	66	6.53	244	24.16
1986	1025	153	14.93	79	7.71	246	24.00
1987	1018	169	16.60	86	8.45	241	23.67
1988	958	124	12.94	62	6.47	212	22.13
1989	1003	152	15.15	63	6.28	204	20.34
1990	1107	145	13.10	81	7.32	202	18.25
1991	1138	148	13.01	110	9.67	181	15.91
1992	1280	162	12.66	81	6.33	215	16.80
1993	1402	163	11.63	104	7.42	217	15.48
1994	1538	176	11.44	102	6.63	226	14.69
1995	1766	152	8.61	112	6.34	251	14.21
1996	1741	178	10.22	125	7.18	219	12.58
1997	1744	162	9.29	108	6.19	250	14.33
1998	1930	160	8.29	146	7.56	229	11.87
1999	1890	154	8.15	119	6.30	227	12.01

Table 69: Engineering and Technology sub-fields analysis: sub-fields with less than 500 publications, 1995-99

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel journ impact
ENGINEERING & TECHNOL	815799	458504	17925	17315	9071	1.04	1.07
Aerospace engineering	9254	9979	74	92	103	0.80	0.97
Mechanical & industrial engn	26247	23190	540	532	453	1.02	1.04
Geomatic engineering	10950	5504	298	362	166	0.82	1.10
Environmental engineering	29473	8458	301	302	97	1.00	0.89
Maritime engineering	3030	2321	144	128	90	1.13	1.09
Biomedical engineering	48789	17053	1067	941	327	1.13	1.01
Computer hardware	11837	7052	167	215	106	0.78	1.21
Communications technologies	20858	13999	486	499	292	0.97	1.15

Table 70: *Engineering and Technology sub-fields analysis: sub-fields with more than 500 publications, 1995-99*

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel journ impact
ENGINEERING & TECHNOL	815799	458504	17925	17315	9071	1.04	1.07
Industrial biotech & food sci	72442	33430	1779	1544	693	1.15	1.03
Manufacturing engineering	19369	15977	896	809	554	1.11	1.20
Chemical engineering	94710	52481	2025	1972	975	1.03	1.12
Resources engineering	30653	24757	1130	1049	754	1.08	1.12
Civil engineering	33830	23915	1289	1301	937	0.99	0.98
Electrical & electronic engn	160728	90428	3353	3278	1750	1.02	1.05
Metallurgy	61087	39618	1497	1349	659	1.11	1.33
Materials engineering	257684	129800	4724	4481	2192	1.05	1.03
Interdisciplinary engineering	51307	30599	1461	1575	789	0.93	1.19
Other engineering & technol	88713	60073	1880	1817	970	1.03	1.27

Table 71: *Australia's share of world publications and citations: Agricultural, Veterinary and Environmental Sciences, 1981-85 to 1995-99*

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	142379	202818	6234	9946	4.38	4.90	1.12
1982-86	147504	211242	6413	9943	4.35	4.71	1.08
1983-87	151367	219525	6682	10584	4.41	4.82	1.09
1984-88	154276	221100	6805	10841	4.41	4.90	1.11
1985-89	158821	222293	7001	10904	4.41	4.91	1.11
1986-90	163600	227904	7136	11622	4.36	5.10	1.17
1987-91	166893	235363	7321	11966	4.39	5.08	1.16
1988-92	171159	248094	7587	12345	4.43	4.98	1.12
1989-93	174912	263710	7975	13452	4.56	5.10	1.12
1990-94	178362	277212	8362	14593	4.69	5.26	1.12
1991-95	180949	295661	8583	15982	4.74	5.41	1.14
1992-96	182759	324315	8885	17054	4.86	5.26	1.08
1993-97	184534	350836	9005	17746	4.88	5.06	1.04
1994-98	188422	372363	9160	18176	4.86	4.88	1.00
1995-99	189294	394266	9190	19238	4.85	4.88	1.01

Table 72: *Sectoral distribution of Australian publications: Agricultural, Veterinary and Environmental Sciences, 1995-99*

Sector	Pubs	Share
University	5577	60.69
CSIRO	2171	23.62
Industry	433	4.71
Other	333	4.00
Government	2978	32.40
Australia	9190	100.00

Table 73: Actual and expected citation rates – institutions with more than 250 publications: Agricultural, Veterinary and Environmental Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
CSIRO	6054	4991	2171	1.21	2.30	2.79
Murdoch University	443	510	292	0.87	1.74	1.52
NSW Govt - Dept Agr & Fish	1340	1397	659	0.96	2.12	2.03
QLD Govt - Dept Primary Ind, Fish & Forest	1206	1257	638	0.96	1.97	1.89
University Adelaide	1118	900	377	1.24	2.39	2.97
University Melbourne	935	992	471	0.94	2.11	1.99
University New England	508	529	260	0.96	2.03	1.95
University Queensland	1781	1802	969	0.99	1.86	1.84
University Sydney	1098	1138	659	0.96	1.73	1.67
University Tasmania	437	458	251	0.95	1.82	1.74
University Western Australia	1139	1038	506	1.10	2.05	2.25
VIC Govt - Dept Agriculture	774	747	385	1.04	1.94	2.01
WA Govt - Dept Agriculture	712	651	345	1.09	1.89	2.06
Australia	19238	18680	9190	1.03	2.03	2.09
SCI Total		394666	191371		2.06	

Table 74: Actual and expected citation rates – institutions with less than 250 publications: Agricultural, Veterinary and Environmental Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	671	579	244	1.16	2.37	2.75
Dept Primary Industry & Energy	192	209	105	0.92	1.99	1.83
Griffith University	356	368	198	0.97	1.86	1.80
James Cook University North Qld	454	466	234	0.97	1.99	1.94
La Trobe University	396	376	184	1.05	2.04	2.15
Macquarie University	322	248	111	1.30	2.23	2.90
Monash University	351	349	164	1.01	2.13	2.14
SA Govt - S Australian Res & Dev Inst	254	205	114	1.24	1.80	2.23
Tasmanian Government	183	211	118	0.87	1.78	1.55
University New South Wales	550	572	233	0.96	2.46	2.36
VIC Govt - Dept Conserv & Nat Resources	180	195	110	0.93	1.77	1.64
Australia	19238	18680	9190	1.03	2.03	2.09
SCI Total		394666	191371		2.06	

Table 75: Sectoral share of Australian publications:  
Agricultural, Veterinary and Environmental Sciences 1981-99

Tape year	Total Aust pubs	Government		Industry		CSIRO	
		Pubs	Share Aust tot	Pubs	Share Aust tot	Pubs	Share Aust tot
1981	1229	445	36.21	25	2.03	338	27.50
1982	1127	404	35.85	28	2.48	312	27.68
1983	1204	423	35.13	29	2.41	351	29.15
1984	1290	446	34.57	35	2.71	347	26.90
1985	1384	519	37.50	37	2.67	354	25.58
1986	1408	620	44.03	36	2.56	377	26.78
1987	1396	573	41.05	37	2.65	386	27.65
1988	1327	526	39.64	28	2.11	334	25.17
1989	1486	630	42.40	36	2.42	363	24.43
1990	1519	595	39.17	39	2.57	368	24.23
1991	1593	642	40.30	70	4.39	396	24.86
1992	1662	696	41.88	55	3.31	416	25.03
1993	1715	669	39.01	54	3.15	433	25.25
1994	1873	739	39.46	71	3.79	470	25.09
1995	1740	651	37.41	64	3.68	395	22.70
1996	1895	643	33.93	101	5.33	455	24.01
1997	1782	537	30.13	82	4.60	417	23.40
1998	1870	566	30.27	105	5.61	458	24.49
1999	1903	581	30.53	81	4.26	446	23.44

Table 76: Agricultural, Veterinary and Environmental Sciences sub-field analysis, 1995-99

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel journ impact
AGR, VET & ENV SCI	394666	191371	19238	18680	9190	1.03	0.99
Soil and water	66157	32999	3721	3851	1625	0.97	1.18
Crop and pasture production	66938	37255	5114	4713	2588	1.08	1.01
Horticulture	7068	5648	179	199	150	0.90	1.06
Animal production	40111	20075	3029	2906	1588	1.04	0.92
Veterinary sciences	69996	42740	3724	3756	2016	0.99	1.14
Forestry sciences	18177	9154	1136	958	381	1.19	1.27
Fisheries sciences	23569	10758	1976	1803	857	1.10	0.96
Environmental sciences	163450	63087	4374	4449	2010	0.98	0.85

Table 77: *Australia's share of world publications and citations: Medical and Health Sciences, 1981-85 to 1995-99*

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	753628	2429148	16053	54180	2.13	2.23	1.05
1982-86	782036	2530189	16621	56202	2.13	2.22	1.05
1983-87	804057	2613178	17275	59329	2.15	2.27	1.06
1984-88	824793	2692595	17846	61497	2.16	2.28	1.06
1985-89	855347	2831699	18754	67660	2.19	2.39	1.09
1986-90	876583	2963048	19432	71243	2.22	2.40	1.08
1987-91	895188	3091851	20191	73087	2.26	2.36	1.05
1988-92	922173	3302194	21350	77952	2.32	2.36	1.02
1989-93	944212	3510096	22541	80395	2.39	2.29	0.96
1990-94	966486	3722430	23669	85083	2.45	2.29	0.93
1991-95	995337	3974669	25441	94310	2.56	2.37	0.93
1992-96	1023627	4352335	27037	106805	2.64	2.45	0.93
1993-97	1044904	4622969	28180	116943	2.70	2.53	0.94
1994-98	1073500	4840551	29677	128614	2.76	2.66	0.96
1995-99	1088487	5069512	30909	140255	2.84	2.77	0.97

Table 78: *Sectoral distribution of Australian publications: Medical and Health Sciences, 1995-99*

Sector	Pubs	Share
University	19642	63.55
CSIRO	587	1.90
Other	1179	4.00
Med Res Inst	3947	12.77
Hospital	11947	38.65
Government	2231	7.22
Australia	30909	100.00

Table 79: *Actual and expected citation rates – medical research institutes: Medical and Health Sciences, 1995-99*

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Baker Med Res Inst	2815	2735	443	1.03	6.17	6.35
Garvan Inst Med Res	2573	1889	227	1.36	8.32	11.33
Prince Henrys Inst Med Res	1534	1317	254	1.16	5.18	6.04
Prince Wales Med Res Inst	1139	1210	210	0.94	5.76	5.42
Queensland Inst Med Res	4034	3751	489	1.08	7.67	8.25
Tvw Telethon Inst Child Hlth Res	1660	1377	264	1.21	5.22	6.29
Walter & Eliza Hall Inst Med Res	6002	5283	494	1.14	10.69	12.15
Australia	140255	136339	30909	1.03	4.41	4.54
SCI Total		5089849	1097409		4.64	

Table 80: Actual and expected citation rates – hospitals with more than 400 publications:  
Medical and Health Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Adel Med Ctr Women & Child	1898	2185	465	0.87	4.70	4.08
Amalg Melb & Ess Hosps	3267	2781	544	1.17	5.11	6.01
Austin Hosp	3056	2565	459	1.19	5.59	6.66
Monash Med Ctr	2174	2047	411	1.06	4.98	5.29
Prince Wales & Prince Henry Hosp Grp	3741	3696	725	1.01	5.10	5.16
Royal Adelaide Hosp	2624	2166	528	1.21	4.10	4.97
Royal Childrens Hosp Melbourne	2736	2692	695	1.02	3.87	3.94
Royal N Shore Hosp	2726	2596	630	1.05	4.12	4.33
Royal Perth Hosp	1663	1461	405	1.14	3.61	4.11
Royal Prince Alfred Hosp	5323	4154	898	1.28	4.63	5.93
Sir Charles Gairdner Hosp	1802	1499	404	1.20	3.71	4.46
St Vincents Hosp Melbourne	1764	1409	404	1.25	3.49	4.37
St Vincents Hosp Sydney	3409	2884	556	1.18	5.19	6.13
Westmead Hosp & Med Ctr	2516	2905	690	0.87	4.21	3.65
Australia	140255	136339	30909	1.03	4.41	4.54
SCI Total		5089849	1097409		4.64	

Table 81: Actual and expected citation rates – hospitals with less than 400 publications:  
Medical and Health Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Alfred Group Hosps	1798	1675	376	1.07	4.46	4.78
John Hunter Hosp	1188	1407	300	0.84	4.69	3.96
New Childrens Hosp	732	783	351	0.94	2.23	2.09
Princess Alexandra Hosp	1125	1020	288	1.10	3.54	3.91
Queen Elizabeth Hosp Adelaide	1334	1253	292	1.06	4.29	4.57
Royal Alexandra Hosp Children	824	1031	210	0.80	4.91	3.92
Royal Brisbane Hosp	1611	1543	321	1.04	4.81	5.02
Royal Womens Hosp Melbourne	762	788	219	0.97	3.60	3.48
St George Hosp Sydney	1009	1070	298	0.94	3.59	3.39
Australia	140255	136339	30909	1.03	4.41	4.54
SCI Total		5089849	1097409		4.64	

Table 82: Actual and expected citation rates – universities without medical schools:  
Medical and Health Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Curtin University Technol	508	499	226	1.02	2.21	2.25
Deakin University	880	760	281	1.16	2.70	3.13
Griffith University	455	611	221	0.74	2.77	2.06
La Trobe University	2006	2034	553	0.99	3.68	3.63
Macquarie University	867	821	227	1.06	3.61	3.82
Queensland University Technol	1036	1031	341	1.01	3.02	3.04
University Wollongong	804	1134	254	0.71	4.46	3.17
Australia	140255	136339	30909	1.03	4.41	4.54
SCI Total		5089849	1097409		4.64	

Table 83: Actual and expected citation rates – universities with medical schools:  
Medical and Health Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	5874	5934	999	0.99	5.94	5.88
Flinders University South Australia	6369	5757	1148	1.11	5.01	5.55
Monash University	8955	9774	2014	0.92	4.85	4.45
University Adelaide	5446	5185	1274	1.05	4.07	4.27
University Melbourne	14046	13409	2870	1.05	4.67	4.89
University New South Wales	8420	7865	1835	1.07	4.29	4.59
University Newcastle	3068	3309	728	0.93	4.55	4.21
University Queensland	9410	9961	2308	0.94	4.32	4.08
University Sydney	15109	14071	3341	1.07	4.21	4.52
University Tasmania	1108	1427	384	0.78	3.72	2.89
University Western Australia	6970	6540	1549	1.07	4.22	4.50
Australia	140255	136339	30909	1.03	4.41	4.54
SCI Total		5089849	1097409		4.64	

Table 84: Actual and expected citation rates – other institutions:  
Medical and Health Sciences, 1995-99

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
CSIRO	2713	2424	587	1.12	4.13	4.62
NSW Govt - Dept Health	1732	1462	555	1.18	2.63	3.12
Peter MacCallum Canc Inst	965	978	228	0.99	4.29	4.23
VIC Govt - Dept Hlth & Comm Serv	860	777	271	1.11	2.87	3.17
Australia	140255	136339	30909	1.03	4.41	4.54
SCI Total		5089849	1097409		4.64	

Table 85: Medical and Health Sciences sub-field analysis, 1995-99:  
sub-fields with more than 1000 publications

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel jour impact
MEDICAL & HEALTH SCI	5089849	1097409	140255	136339	30909	1.03	0.95
Immunology	616847	91355	19459	18868	2644	1.03	1.06
Pharmacology & pharmaceutical sci	482259	125078	9741	10635	2683	0.92	1.03
Medical physiology	216454	55818	7709	7923	2264	0.97	0.90
Neurosciences	761382	125504	16209	17075	2974	0.95	0.95
Clinical Sciences	3233437	715134	93425	88153	20033	1.06	0.97
Public health & health services	288851	90952	9907	9606	3346	1.03	0.90
General medicine	383967	70358	11482	10848	2181	1.06	0.91

Table 86: *Medical and Health Sciences sub-field analysis, 1995-99:  
sub-fields with less than 1000 publications*

	World		Australian				
	Cites	Pubs	Act cites	Exp cites	Pubs	Act/exp cites	Rel journ impact
MEDICAL & HEALTH SCI	5089849	1097409	140255	136339	30909	1.03	0.95
Clinical chemistry	89974	25886	1152	1385	391	0.83	1.02
Dentistry	39031	18524	901	948	537	0.95	0.84
Nursing	12372	10840	489	491	381	1.00	1.13
Human movement & sports sci	29005	10236	1202	1094	435	1.10	0.89
Other medical & health sci	43098	10909	768	797	204	0.96	0.99

Table 87: *Actual and expected citation rates – universities with medical schools:  
all fields of science, 1995-99*

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	35949	33414	6465	1.08	5.17	5.56
Flinders University South Australia	9731	9146	1853	1.06	4.94	5.25
James Cook University North Qld	4055	4183	1264	0.97	3.31	3.21
Monash University	18626	20392	4520	0.91	4.51	4.12
University Adelaide	14725	14561	3688	1.01	3.95	3.99
University Melbourne	30550	29241	6513	1.04	4.49	4.69
University New South Wales	20721	20661	5597	1.00	3.69	3.70
University Newcastle	5245	5722	1505	0.92	3.80	3.49
University Queensland	24412	24650	6348	0.99	3.88	3.85
University Tasmania	5761	6164	1683	0.93	3.66	3.42
University Western Australia	15974	15417	4340	1.04	3.55	3.68
Australia	334743	325008	79232	1.03	4.10	4.22

Table 88: *Actual and expected citation rates – other universities:  
all fields of science, 1995-99*

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Curtin University Technol	1628	1922	778	0.85	2.47	2.09
Deakin University	1469	1474	531	1.00	2.78	2.77
Griffith University	2606	2881	895	0.90	3.22	2.91
La Trobe University	7009	7802	1781	0.90	4.38	3.94
Macquarie University	5486	5170	1308	1.06	3.95	4.19
Murdoch University	2472	2229	868	1.11	2.57	2.85
Queensland University Technol	2574	2483	914	1.04	2.72	2.82
Royal Melbourne Inst Technol	2153	2342	677	0.92	3.46	3.18
University New England	2492	2498	879	1.00	2.84	2.84
University Technol Sydney	1656	1639	588	1.01	2.79	2.82
University Wollongong	3509	3868	1279	0.91	3.02	2.74
Australia	334743	325008	79232	1.03	4.10	4.22

Table 89: Actual and expected citation rates – medical research institutes:  
all fields of science, 1995-99

	<b>Act. Cites</b>	<b>Exp. Cites</b>	<b>No. Pubs</b>	<b>Act./Exp.</b>	<b>Av. Exp.</b>	<b>Av. Act.</b>
Baker Med Res Inst	3468	3406	525	1.02	6.49	6.61
Queensland Inst Med Res	8218	6481	847	1.27	7.65	9.70
Walter & Eliza Hall Inst Med Res	12609	10206	827	1.24	12.34	15.25
Australia	334743	325008	79232	1.03	4.10	4.22

Table 90: Actual and expected citation rates – CSIRO, government departments and agencies:  
all fields of science, 1995-99

	<b>Act. Cites</b>	<b>Exp. Cites</b>	<b>No. Pubs</b>	<b>Act./Exp.</b>	<b>Av. Exp.</b>	<b>Av. Act.</b>
Australian Government	10047	10781	2908	0.93	3.71	3.45
CSIRO	29832	26861	7187	1.11	3.74	4.15
New South Wales Government	4942	4932	1845	1.00	2.67	2.68
Queensland Government	2814	3170	1296	0.89	2.45	2.17
South Australian Government	2717	2642	730	1.03	3.62	3.72
Victorian Government	2831	2874	1086	0.99	2.65	2.61
Western Aust Government	2396	2390	939	1.00	2.55	2.55
Australia	334743	325008	79232	1.03	4.10	4.22

Table 91: Actual and expected citation rates – hospitals with more than 500 publications:  
all fields of science, 1995-99

	<b>Act. Cites</b>	<b>Exp. Cites</b>	<b>No. Pubs</b>	<b>Act./Exp.</b>	<b>Av. Exp.</b>	<b>Av. Act.</b>
Adel Med Ctr Women & Children	4798	5544	731	0.87	7.58	6.56
Amalg Melb & Ess Hosps	4005	3560	600	1.12	5.93	6.68
Prince Wales & Prince Henry Hosp Grp	4041	4057	748	1.00	5.42	5.40
Royal Adelaide Hosp	2806	2418	537	1.16	4.50	5.23
Royal Childrens Hosp Melbourne	3473	3380	769	1.03	4.40	4.52
Royal North Shore Hosp	2927	2883	675	1.02	4.27	4.34
Royal Prince Alfred Hosp	5650	4519	962	1.25	4.70	5.87
St Vincents Hosp Sydney	3749	3168	568	1.18	5.58	6.60
Westmead Hosp & Med Ctr	3070	3259	724	0.94	4.50	4.24
Australia	334743	325008	79232	1.03	4.10	4.22

Table 92: *Australia's share of world publications and citations: Behavioural and Cognitive Sciences, 1981-85 to 1995-99*

Tape year	World		Australian				
	Pubs	Cites	Pubs	Cites	Share pubs	Share cites	RCI
1981-85	85147	141438	2156	3526	2.53	2.49	0.98
1982-86	87962	148527	2195	3686	2.50	2.48	0.99
1983-87	88559	150763	2180	3718	2.46	2.47	1.00
1984-88	89706	153037	2242	3686	2.50	2.41	0.96
1985-89	91830	163582	2333	3851	2.54	2.35	0.93
1986-90	92793	169296	2345	3979	2.53	2.35	0.93
1987-91	92807	171067	2403	4085	2.59	2.39	0.92
1988-92	95296	181113	2452	4417	2.57	2.44	0.95
1989-93	95979	191294	2461	4238	2.56	2.22	0.86
1990-94	97224	198326	2583	4485	2.66	2.26	0.85
1991-95	100449	212066	2766	4782	2.75	2.25	0.82
1992-96	102491	230081	2902	5357	2.83	2.33	0.82
1993-97	103369	242240	3044	6235	2.94	2.57	0.87
1994-98	105681	258964	3209	6885	3.04	2.66	0.88
1995-99	106412	270086	3348	7174	3.15	2.66	0.84

Table 93: *Sectoral distribution of Australian publications: Behavioural and Cognitive Sciences, 1995-99*

Sector	Pubs	Share
University	3146	93.97
Other	68	2.03
Med Res Inst	82	2.45
Hospital	288	8.60
Government	107	3.20
Australia	3348	100.00

Table 94: *Actual and expected citation rates: Behavioural and Cognitive Sciences, 1995-99*

	Act. Cites	Exp. Cites	No. Pubs	Act./Exp.	Av. Exp.	Av. Act.
Australian National University	463	452	178	1.02	2.54	2.60
Flinders University South Aust	284	322	143	0.88	2.25	1.99
Griffith University	156	167	103	0.93	1.62	1.51
La Trobe University	502	494	205	1.02	2.41	2.45
Macquarie University	457	449	180	1.02	2.49	2.54
Monash University	392	448	200	0.87	2.24	1.96
University Adelaide	289	238	150	1.21	1.59	1.93
University Melbourne	597	736	288	0.81	2.56	2.07
University New South Wales	991	937	296	1.06	3.17	3.35
University Queensland	1008	915	391	1.10	2.34	2.58
University Sydney	779	807	312	0.97	2.59	2.50
University Western Australia	455	430	182	1.06	2.36	2.50
Australia	7174	7432	3348	0.97	2.22	2.14
SCI Total	271637		112194		2.42	