

TABLE F. OTHER EDUCATIONAL DATA

Country	Summary Publication and Citation Statistics on Research in the Sciences and Social Sciences				Nationals Studying Abroad as % of	Tertiary Science Enrollment as % of	
	Number of Papers	Number of Papers	Number of Citations	Number of Citations	Students at Home	Total Tertiary	
	1981	1995	1981-85	1993-97	1995 or LYA**	1987-88	1995
Afghanistan						22	
Albania						35	24
Algeria	103	291	561	1,814	7.4	14	52
Angola						26	
Argentina	1,051	2,589	10,015	28,240		37	30
Armenia		248		1,249			
Australia	10,519	18,088	147,733	301,320		32	29
Austria	2,735	5,287	28,921	94,144	4.1	34	29
Azerbaijan		208		444			38
Bahamas, The							
Bahrain							39
Bangladesh	123	355	1,385	2,299		34	
Barbados						39	19
Belarus		1,033		4,220	2.2		35
Belgium	4,273	8,167	67,888	166,223		15	25
Belize							
Benin						18	19
Bermuda							
Bolivia						21	
Botswana						26	24
Brazil	1,913	5,440	14,446	55,170	0.7	40	22
Brunei							6
Bulgaria	1,109	1,374	4,683	11,198		48	25
Burkina Faso						21	18
Burundi						45	
Cambodia							
Cameroon	38	144	149	1,386	18.2	35	
Canada	19,560	33,426	299,529	669,313	1.4	22	
Central African Republic						34	
Chad						12	14
Chile	673	1,376	6,521	15,940		17	42
China	1,293	11,435	8,517	77,841	2.1	18	37
Colombia	135	294	1,015	4,138		36	31
Comoros							
Congo, Dem. Rep. of						34	
Congo, Rep. of						8	11
Costa Rica	71	193	538	1,882		41	18
Côte d'Ivoire	163	98	520	1,515		28	26
Croatia		898		8,138			38
Cuba	139	344	382	2,289		25	23
Cyprus					104.1	33	19
Czech Republic		3,150		21,106			36
Denmark	3,855	6,414	73,093	147,212		38	24
Djibouti							
Dominican Republic							
Ecuador						21	
Egypt, Arab Rep. of	1,304	2,091	5,133	9,730	0.9	38	15
El Salvador						50	25
Eritrea							
Estonia		390		4,314			34

TABLE F, *continued*

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	Number of Papers	Number of Papers	Number of Citations	Number of Citations	Students at Home	Total Tertiary	
	1981	1995	1981-85	1993-97	1995 or LYA**	1987-88	1995
Ethiopia	47	193	521	1,609		37	36
Fiji						35	
Finland	2,615	5,732	41,094	119,304		50	37
France	23,101	41,039	319,296	782,069	1.5		24
French Polynesia							
Gabon						22	
Gambia, The							
Georgia							48
Germany	33,602	53,160	467,933	1,068,338	2.1	46	35
Ghana	81	116	435	892		30	
Greece	968	3,259	8,981	34,790	13.3	43	30
Guam							
Guatemala						39	
Guinea							
Guinea-Bissau							
Guyana						41	43
Haiti							
Honduras						29	26
Hong Kong, China	375	2,382	3,770	24,706	36.1	43	36
Hungary	2,598	3,047	21,591	39,407		32	29
Iceland	44	255	852	5,521			
India	13,623	14,883	56,464	90,162	0.7	32	
Indonesia	89	310	694	3,364	1.0	39	28
Iran, Islamic Rep. of	253	438	894	2,441	2.6	39	37
Iraq	208	84	774	327		33	
Ireland	881	1,891	9,047	27,772	9.1	35	31
Israel	4,934	8,279	73,973	148,182	4.8	13	27
Italy	9,618	24,695	133,715	442,636	2.1	39	28
Jamaica	136	154	1,143	1,261		37	
Japan	27,177	58,910	378,092	930,981	1.6	26	23
Jordan	56	278	263	1,018	15.4		28
Kazakhstan		221		690	3.4		42
Kenya	362	542	2,963	6,364		21	
Korea, Rep. of	234	5,393	2,656	43,561	3.1	31	39
Kuwait	134	324	695	1,576		35	23
Kyrgyz Republic							28
Lao PDR						42	45
Latvia		275		2,234			34
Lebanon	111	110	572	715	12.9	45	17
Lesotho						16	25
Liberia							
Libya							
Lithuania		292		3,218			
Luxembourg							
Macao							
Macedonia, FYR							41
Madagascar						20	23
Malawi						37	18
Malaysia	229	587	1,332	3,450	21.5	34	
Maldives							

TABLE F, continued

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	Number of Papers	Number of Papers	Number of Citations	Number of Citations	Students at Home	Total Tertiary	
	1981	1995	1981-85	1993-97	1995 or LYA**	1987-88	1995
Mali						3	
Malta						38	13
Mauritania						12	8
Mauritius							
Mexico	907	2,901	8,779	28,589	0.8	36	33
Moldova					8.0		34
Mongolia						56	24
Morocco	92	554	597	3,031	11.9	59	29
Mozambique						25	50
Myanmar						32	36
Namibia						9	5
Nepal						30	17
Netherlands	7,270	16,702	143,320	384,977	2.3	30	20
New Caledonia							
New Zealand	2,200	3,539	23,181	53,775		29	20
Nicaragua						43	
Niger						24	
Nigeria	1,062	741	3,670	3,559		30	41
Norway	2,306	4,264	34,601	70,109	4.7	30	19
Oman						34	
Pakistan	189	618	935	2,803	2.4		
Panama	32	80	525	1,818		32	26
Papua New Guinea	114	105	584	989		11	
Paraguay						50	25
Peru	72	143	620	1,614	1.1	25	
Philippines	243	294	1,379	2,893			31
Poland	4,563	7,097	30,960	71,003	1.4	37	29
Portugal	237	1,580	2,956	19,617	2.7	35	30
Puerto Rico							
Qatar						10	
Reunion							
Romania	950	1,154	3,970	7,894	2.0		51
Russian Federation		24,958		159,065	0.3		49
Rwanda						25	
Samoa							14
Saudi Arabia	299	1,409	1,494	7,826	2.8	34	
Senegal						31	
Seychelles							45
Sierra Leone							30
Singapore	192	1,914	1,302	16,257	19.7	29	
Slovak Republic		1,901		8,691			
Slovenia		693		7,969			18
Solomon Islands							29
Somalia						18	
South Africa	2,211	3,413	19,549	35,056		47	57
Spain	3,462	15,367	31,272	227,637	1.3	32	
Sri Lanka	121	139	616	967		37	
St. Kitts and Nevis						14	
St. Lucia						40	
St. Vincent and the Grenadines							

TABLE F, continued

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	1981	1995	1981-85	1993-97	1995 or LYA**	1987-88	1995
Sudan	133	101	615	852		27	
Suriname							22
Swaziland							
Sweden	6,891	12,825	145,644	289,268	3.5	42	29
Switzerland	6,160	11,510	146,664	341,129	5.2	40	32
Syrian Arab Republic					6.8	31	29
Tajikistan							23
Tanzania	98	198	554	2,638		9	39
Thailand	373	648	2,419	8,398	1.3	25	19
Togo						52	16
Trinidad and Tobago	57	82	269	557		43	45
Tunisia	111	300	567	2,148	9.4	31	24
Turkey	332	2,449	2,139	15,404	3.2		21
Turkmenistan							
Uganda						41	13
Ukraine		3,723		16,679	1.4		
United Arab Emirates	11	224	30	1,352		46	
United Kingdom	38,580	61,734	684,437	1,334,782	1.3	42	31
United States	174,123	249,386	3,496,945	6,475,200	0.2		
Uruguay	42	170	588	2,763		48	
Uzbekistan		356		1,371			
Vanuatu							
Venezuela	348	660	3,962	7,847		26	
Vietnam	49	192	203	1,657			
Yemen, Rep. of						12	
Yugoslavia, FR (Serb./Mont.)	1,148	747	8,150	5,618	4.5		
Zambia	46	81	242	552			
Zimbabwe	96	212	522	1,687		32	23
World	459,457	772,036	7,138,219	15,116,724		29	33
Low and middle income	72,871	108,929	365,818	830,881		28	34
Sub-Saharan Africa	4,337	5,839	29,740	56,110		29	36
East Asia and Pacific	2,390	13,571	15,128	98,592		22	35
South Asia	14,056	15,995	59,400	96,231		32	17
Europe and Central Asia	43,975	53,543	201,892	398,790		38	39
Latin America and the Caribbean	5,576	14,426	48,803	152,108		35	27
Middle East and N. Africa	2,537	5,555	10,855	29,050		35	30
High income	386,586	663,107	6,772,401	14,285,843		34	29

**LYA Last year available.

Source: Columns 1 through 4: ISI 1998; column 5: UNESCO 1998a; column 6: UNDP 1992; columns 7 and 9: UNDP 1998; column 8: UNDP 1990 and UNDP 1998. Data for column 5 are not aggregated by region because only 50 countries are represented.