

# **APPENDIXES**

**Table A1.1: Primary-Level Gross Enrollment Rates,  
1975–1995 (%)**

Economy	1975			1980			1985			1990			1995		
	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F
Afghanistan	25	41	8	34	54	12	20	27	13	27	35	19	49	64	32
Bangladesh	73	95	51	61	75	46	64	72	54	79	84	73	—	—	—
Bhutan	9	13	15	16	—	—	27	34	19	—	—	—	—	—	—
Cambodia	—	—	—	—	—	—	—	—	—	113	—	—	126	138	113
PRC	122	130	114	113	121	104	123	132	114	127	132	121	118	118	117
Cook Islands	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fiji Islands	137	138	137	119	119	119	122	122	122	125	—	—	128	128	127
Hong Kong, China	119	122	117	107	107	106	105	106	105	102	102	103	94	93	95
India	81	96	64	83	98	67	96	110	80	98	111	84	100	111	90
Indonesia	86	94	78	107	115	100	117	120	114	115	117	114	113	116	111
Kazakhstan	—	—	—	85	—	—	88	—	—	88	—	—	98	98	98
Kiribati	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korea	107	107	107	110	109	111	97	96	98	105	105	105	95	95	96
Kyrgyz Republic	—	—	—	116	118	115	123	123	123	112	112	112	104	105	103
Lao PDR	67	—	—	113	123	104	111	121	100	98	112	84	112	123	100
Malaysia	94	97	92	93	93	92	101	101	100	93	93	93	103	103	104
Maldives	—	—	—	145	—	—	—	—	—	130	132	128	132	134	130
Marshall Islands	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Micronesia, F.S.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mongolia	108	111	104	107	107	107	101	—	—	97	95	100	88	87	90
Myanmar	83	—	—	91	93	89	98	101	96	105	107	104	120	122	117
Nauru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nepal	51	86	16	84	117	49	75	101	47	103	128	77	109	126	91
Pakistan	41	56	25	39	51	27	44	56	30	56	76	36	74	101	45
Papua New Guinea	57	69	44	59	66	51	—	—	—	72	78	66	80	87	74
Philippines	107	—	—	112	114	110	107	108	107	111	113	109	114	115	113
Samoa <sup>a</sup>	—	—	—	—	—	—	—	—	—	122	117	127	102	102	102
Singapore	110	113	106	108	109	106	108	110	106	104	105	102	95	96	94
Solomon Islands	—	—	—	76	85	65	79	—	—	84	90	78	97	103	89
Sri Lanka	77	81	74	103	105	100	103	104	101	105	106	104	113	115	112
Taipei, China	101	101	101	101	101	101	99	99	100	100	100	101	101	100	103
Thailand	84	87	80	99	100	97	96	—	—	99	100	99	86	—	—
Tonga	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tuvalu	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Uzbekistan	—	—	—	82	83	80	87	88	85	82	83	81	78	79	76
Vanuatu	—	—	—	—	—	—	100	—	—	106	109	103	106	105	107
Viet Nam	107	106	108	109	111	106	103	106	100	103	—	—	114	—	—

— = Data not available. M = Male, F = Female.

Note: For Myanmar, Solomon Islands, and Uzbekistan, 1995 figures are not available in UNESCO 1999; values shown are for 1994.

<sup>a</sup> The official age range for primary education in Samoa switched from ages 5–11 to ages 5–12 in statistics for 1995 and thereafter. Thus, GERs shown for 1990 and 1995 are not directly comparable, since they use different populations in the denominator.

Sources: UNESCO 1981, 1989, 1996a, 1997, 1998b, 1999; country sources.

**Table A1.2: Secondary-Level Gross Enrollment Rates, 1975–1995 (%)**

Economy	1975			1980			1985			1990			1995		
	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F
Afghanistan	7	13	2	10	16	4	8	11	5	9	8	9	22	32	11
Bangladesh	19	29	8	18	26	9	18	26	11	19	25	13	—	—	—
Bhutan	1	2	0.3	—	—	—	4	6	1	—	—	—	—	—	—
Cambodia	—	—	—	—	—	—	—	—	—	27	—	—	26	33	20
PRC	46	54	38	46	54	37	39	45	33	48	53	41	66	69	62
Cook Islands	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fiji Islands	44	43	44	55	53	57	51	51	51	—	—	—	64	64	65
Hong Kong, China	49	51	47	64	63	65	71	69	73	80	—	—	73	71	76
India	28	37	18	30	39	20	37	48	26	44	54	32	49	59	38
Indonesia	20	25	15	29	35	23	41	—	—	44	48	40	51	55	48
Kazakhstan	—	—	—	93	—	—	103	—	—	98	—	—	84	84	85
Kiribati	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korea	56	64	48	78	82	74	92	93	91	90	91	88	101	101	101
Kyrgyz Republic	—	—	—	110	112	108	110	111	108	101	100	102	79	75	83
Lao PDR	8	—	—	21	25	16	23	27	19	25	31	20	27	32	21
Malaysia	46	53	39	48	50	46	53	53	53	58	56	60	59	55	63
Maldives	—	—	—	44	—	—	—	—	—	—	—	—	56	55	57
Marshall Islands	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Micronesia, F.S.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mongolia	81	77	84	91	85	97	92	—	—	86	—	—	59	51	68
Myanmar	—	—	—	22	—	—	23	24	22	23	23	23	30	29	30
Nauru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nepal	13	23	4	21	33	9	25	37	12	31	43	18	40	49	30
Pakistan	15	22	7	14	20	8	17	24	10	23	30	15	—	—	—
Papua New Guinea	12	16	7	12	15	8	—	—	—	12	15	10	14	17	11
Philippines	54	—	—	64	60	69	64	64	65	73	—	—	77	77	78
Samoa	—	—	—	—	—	—	—	—	—	—	—	—	47	44	50
Singapore	52	51	53	60	60	60	62	63	61	68	70	66	73	—	—
Solomon Islands	—	—	—	16	22	9	19	—	—	14	17	11	17	21	14
Sri Lanka	48	47	49	55	52	57	63	60	66	74	71	77	75	72	78
Taipei, China	74	78	69	80	81	80	90	89	91	95	93	97	96	94	98
Thailand	25	28	22	29	30	28	30	—	—	30	31	29	54	—	—
Tonga	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tuvalu	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Uzbekistan	—	—	—	106	117	94	107	117	97	100	104	95	94	100	88
Vanuatu	—	—	—	—	—	—	—	—	—	16	18	14	20	23	18
Viet Nam	39	38	41	42	44	40	43	44	41	33	—	—	47	48	46

— = Data not available. M = Male, F = Female.

Note: For Myanmar, Solomon Islands, and Uzbekistan, 1995 figures are not available in UNESCO 1999; values shown are for 1994.

Sources: UNESCO 1981, 1989, 1996a, 1997, 1998b, 1999; country sources.

**Table A1.3: Tertiary-Level Gross Enrollment Rates,  
1975–1995 (%)**

Economy	1975			1980			1985			1990			1995		
	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F
Afghanistan	1.0	1.7	0.3	—	—	—	—	—	—	1.7	2.3	1.1	1.7	—	—
Bangladesh	—	—	—	2.8	4.6	0.8	4.8	7.5	1.9	3.9	6.4	1.3	6.1	—	—
Bhutan	—	—	—	0.3	0.4	0.1	—	—	—	—	—	—	0.2	—	—
Cambodia	—	—	—	—	—	—	—	—	—	1.2	—	—	1.6	2.7	0.5
PRC	0.6	0.7	0.4	1.7	2.3	1.0	2.8	3.9	1.7	2.9	4.0	1.8	5.7	7.3	4.0
Cook Islands	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fiji Islands	2.9	4.2	1.6	2.5	—	—	3.2	3.9	2.4	12	—	—	13.0	—	—
Hong Kong, China	10.0	15.0	5.3	10.0	14.0	6.6	13.0	17.0	9.4	20.0	23.0	16.0	21.9	23.9	19.7
India	8.6	13.0	4.2	5.2	7.4	2.9	6.0	8.1	3.8	6.0	7.7	4.2	6.4	7.9	4.8
Indonesia	2.4	—	—	—	—	—	—	—	—	8.5	—	—	11.1	13.5	8.6
Kazakhstan	—	—	—	34.0	—	—	37.0	—	—	40.0	—	—	32.7	28.7	36.8
Kiribati	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korea	10.0	15.0	5.9	15.0	21.0	7.5	34.0	46.0	21.0	39.0	51.0	25.0	52.0	65.5	37.6
Kyrgyz Republic	—	—	—	27.0	—	—	28.0	—	—	26.0	—	—	12.2	11.6	12.8
Lao PDR	37.0	—	—	0.4	0.6	0.3	1.6	2.0	1.1	1.2	1.7	0.8	1.5	2.2	0.8
Malaysia	—	—	—	4.1	5.2	3.1	5.9	6.6	5.2	7.2	7.4	6.8	10.6	—	—
Maldives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marshall Islands	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Micronesia, F.S.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mongolia	8.4	8.2	8.6	—	—	—	22.0	—	—	14.0	—	—	15.2	9.1	21.3
Myanmar	—	—	—	4.7	—	—	4.5	4.2	4.8	4.3	3.8	4.9	5.4	4.2	6.7
Nauru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nepal	2.3	—	—	2.7	4.2	1.1	4.3	—	—	4.9	7.5	2.3	5.2	—	—
Pakistan	1.9	2.7	0.9	—	—	—	2.5	3.5	1.4	2.9	3.7	2.0	3.4	—	—
Papua New Guinea	2.5	3.5	1.4	1.8	2.7	0.9	1.6	2.2	0.8	—	—	—	3.2	4.2	2.1
Philippines	18.0	—	—	24.0	23.0	26.0	25.0	—	—	27.0	23.0	32.0	27.4	23.4	31.5
Samoa	—	—	—	—	—	—	—	—	—	—	—	—	4.6	—	—
Singapore	8.0	10.0	7.0	7.8	9.1	6.3	14.0	17.0	10.0	19.0	22.0	15.0	33.7	36.7	30.7
Solomon Islands	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sri Lanka	1.3	1.7	1.0	2.7	3.1	2.4	3.7	4.4	3.0	5.2	6.2	4.1	5.1	6.0	4.3
Taipei,China	15.7	19.3	11.9	17.9	20.2	15.5	23.2	24.9	21.3	34.1	34.4	33.9	46.4	45.1	47.8
Thailand	3.5	4.3	2.7	15.0	—	—	19.0	—	—	16.0	—	—	20.1	—	—
Tonga	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tuvalu	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Uzbekistan	—	—	—	29.0	—	—	30.0	—	—	31.0	—	—	31.7	—	—
Vanuatu	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Viet Nam	2.1	2.6	1.6	2.1	3.4	0.9	2.4	—	—	2.8	—	—	4.1	—	—

— = Data not available. M = Male, F = Female.

Note: For Myanmar, Solomon Islands and Uzbekistan, 1995 figures are not available in UNESCO 1999; values shown are for 1994.

Sources: UNESCO 1981, 1989, 1996a, 1997, 1998b, 1999; World Bank 2000; country sources.

**Table A1.4: Primary and Secondary Education Net Enrollment Rates, 1985–1995 (%)**

Economy	Primary Education						Secondary Education					
	Total		Male		Female		Total		Male		Female	
	1985	1995	1985	1995	1985	1995	1985	1995	1985	1995	1985	1995
Afghanistan	17	—	23	—	11	—	—	—	—	—	—	—
Bangladesh	57	—	64	—	48	—	17	—	—	—	—	—
Bhutan	—	—	—	—	—	—	—	—	—	—	—	—
Cambodia	—	—	—	—	—	—	—	—	—	—	—	—
PRC	—	99	—	99	—	98	—	—	—	—	—	—
Cook Islands	—	—	—	—	—	—	—	—	—	—	—	—
Fiji Islands	97	99	97	99	97	100	—	—	—	—	—	—
Hong Kong, China	96	91	96	90	96	92	65	71	63	69	68	73
India	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	98	97	100	99	95	95	—	42	—	45	—	39
Kazakhstan	—	—	—	—	—	—	—	—	—	—	—	—
Kiribati	—	—	—	—	—	—	—	—	—	—	—	—
Korea	94	99	94	98	95	99	84	96	85	96	84	96
Kyrgyz Republic	—	97	—	99	—	95	—	—	—	—	—	—
Lao PDR	—	68	—	75	—	61	—	18	—	21	—	15
Malaysia	—	91	—	91	—	92	—	—	—	—	—	—
Maldives	—	—	—	—	—	—	—	—	—	—	—	—
Marshall Islands	—	—	—	—	—	—	—	—	—	—	—	—
Micronesia, F.S.	—	—	—	—	—	—	—	—	—	—	—	—
Mongolia	—	80	—	78	—	81	—	57	—	48	—	65
Myanmar	—	—	—	—	—	—	—	—	—	—	—	—
Nauru	—	—	—	—	—	—	—	—	—	—	—	—
Nepal	—	—	—	—	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Philippines	96	100	97	—	96	—	50	60	49	—	50	—
Samoa	—	—	—	—	—	—	—	45	—	42	—	48
Singapore	99	—	99	—	99	—	—	—	—	—	—	—
Solomon Islands	—	—	—	—	—	—	—	—	—	—	—	—
Sri Lanka	100	—	100	—	100	—	—	—	—	—	—	—
Taipei, China	96	99	96	99	96	99	78	89	78	87	79	91
Thailand	—	—	—	—	—	—	—	—	—	—	—	—
Tonga	—	—	—	—	—	—	—	—	—	—	—	—
Tuvalu	—	—	—	—	—	—	—	—	—	—	—	—
Uzbekistan	—	—	—	—	—	—	—	—	—	—	—	—
Vanuatu	—	—	—	—	—	—	—	—	—	—	—	—
Viet Nam	—	—	—	—	—	—	—	—	—	—	—	—

— = Data not available.

Sources: UNESCO 1998b; country sources.

**Table A1.5: Student/Teacher Ratios by Level of Education**

Economy	Preprimary		Primary		Secondary General	
	1985	1995	1985	1995	1985	1995
Afghanistan	19	—	37	58	18	28
Bangladesh	—	—	47	—	28	—
Bhutan	—	—	37	30	—	—
Cambodia	23	25	38	45	39	18
PRC	27	31	25	24	18	16
Cook Islands	26	—	—	—	—	—
Fiji Islands	21	—	28	—	17	—
Hong Kong, China	30	21	27	24	23	20
India	62	62	47	63	26	25
Indonesia	22	17	25	23	15	14
Kazakhstan	—	6	26	20	15	10
Kiribati	—	—	29	27	16	18
Korea	34	21	38	32	37	24
Kyrgyz Republic	—	9	19	20	17	13
Lao PDR	16	16	25	30	12	13
Malaysia	32	23	24	20	22	19
Maldives	—	—	—	—	—	—
Marshall Islands	—	—	—	—	—	—
Micronesia, F.S.	—	—	—	—	—	—
Mongolia	28	12	30	25	22	18
Myanmar	—	—	54	48	23	16
Nauru	—	—	—	—	—	—
Nepal	23	—	35	39	—	—
Pakistan	—	—	41	—	18	—
Papua New Guinea	—	32	30	33	25	24
Philippines	41	—	31	35	32	36
Samoa	—	—	26	24	24	19
Singapore	23	—	27	—	22	—
Solomon Islands	—	—	26	24	19	—
Sri Lanka	—	—	35	28	22	22
Taipei, China	19	15	32	22	21	18
Thailand	20	—	19	20	18	20
Tonga	—	—	23	22	19	18
Tuvalu	—	—	22	—	—	—
Uzbekistan	16	11	24	21	13	9
Vanuatu	—	—	21	31	—	19
Viet Nam	26	25	34	34	23	25

— = Data not available.

Sources: UNESCO 1998b; country sources.

**Table A1.6: Public Current Expenditures on Education:  
Percentage Distribution by Level of Education**

Economy	1980					1985				
	Prep.	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	Other	Prep.	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	Other
Afghanistan	1.6	41.6	22.3	18.4	4.8	—	—	—	—	—
Bangladesh	—	45.3	39.2	12.9	0	—	46.1	34.7	10.4	0
Bhutan	—	—	—	—	—	—	—	—	—	—
Cambodia	—	—	—	—	—	—	—	—	—	—
PRC	0.5	27.1	34.3	20.1	18.1	0.9	28.6	33.2	21.8	15.5
Cook Islands	1.8	38.9	27.5	4.5	0	2.7	35.1	35.8	6.0	0
Fiji Islands	—	53.0	45.1	1.9	0	—	—	—	—	—
Hong Kong, China	—	33.7	35.7	24.6	6.1	0.1	31.4	37.9	25.1	4.6
India	—	38.2	25.8	15.4	4.5	—	38.0	25.3	15.3	3.6
Indonesia	—	—	—	—	—	—	—	—	—	—
Kazakhstan	—	—	—	—	—	—	—	—	—	—
Kiribati	—	37.6	44.8	—	—	—	—	—	—	—
Korea	—	49.9	33.2	8.7	0.1	0.3	46.7	36.7	10.9	0.6
Kyrgyz Republic	—	—	—	—	—	10.9	—	60.4	8.8	6.4
Lao PDR	—	—	—	—	—	—	—	—	—	—
Malaysia	—	35.0	34.0	12.4	2.0	—	37.8	37.1	14.6	0.5
Maldives	—	—	—	—	—	—	—	—	—	—
Marshall Islands	—	—	—	—	—	—	—	—	—	—
Micronesia, F.S.	—	—	—	—	—	—	—	—	—	—
Mongolia	—	10.4	52.6	16.6	20.5	—	10.7	51.2	17.3	20.8
Myanmar	—	—	—	—	—	—	—	—	—	—
Nauru	—	—	—	—	—	—	—	—	—	—
Nepal	—	—	58.8	35.0	2.1	—	35.7	19.9	33.4	0
Pakistan	—	39.4	31.0	18.8	0	—	36.0	33.3	18.2	0
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Philippines	—	61.4	15.7	22.1	0.1	—	63.9	10.1	22.5	0
Samoa	—	—	—	—	—	—	—	—	—	—
Singapore	—	35.8	41.1	17.1	3.1	—	30.1	36.9	28.4	0.5
Solomon Islands	—	44.1	42.2	13.3	0.4	—	—	—	—	—
Sri Lanka	—	—	91.1	8.9	0	—	—	90.2	9.8	0
Taipei,China	1.0	31.1	16.9	1.5	6.0	1.0	27.1	12.7	16.3	8.5
Thailand	0.2	55.1	28.3	13.3	1.8	—	58.4	21.1	13.2	2.2
Tonga	—	55.0	25.4	14.7	0	—	44.7	30.9	17.9	0
Tuvalu	—	—	—	—	—	—	—	—	—	—
Uzbekistan	—	—	—	—	—	—	—	—	—	—
Vanuatu	—	—	—	—	—	—	—	—	—	—
Viet Nam	—	—	—	—	—	—	—	—	—	—

— = Data not available.

*Notes:* (1) Figures indicate the share of total public education expenditures allocated to each level of schooling. The category "other" refers to expenditures on special, adult, and other types of education not included in the basic levels shown. Figures may not sum to 100%, indicating general administrative expenditures and other "not distributed" public expenditures. (2) In some cases (i.e., Bangladesh), data do not distinguish between expenditures on preprimary and primary education. Similarly, for Sri Lanka and for Nepal in 1980, distinct values are not available for preprimary, primary, and secondary education, hence figures given for the secondary level include expenditures on all three levels of education.

*Sources:* UNESCO 1989, 1996a, 1999; country sources.

**Table A1.6: Public Current Expenditures on Education: Percentage Distribution by Level of Education (cont'd.)**

Economy	1990					1995				
	Prep.	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	Other	Prep.	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	Other
Afghanistan	—	87.6	—	12.4	—	—	—	—	—	—
Bangladesh	—	45.6	42.2	8.7	—	—	—	—	—	—
Bhutan	—	—	—	—	—	—	—	—	—	—
Cambodia	—	—	—	—	—	—	—	—	—	—
PRC	—	—	36.5	—	—	—	—	—	—	—
Cook Islands	2.1	27.7	33.4	11.9	9.1	—	—	—	—	—
Fiji Islands	—	50.5	—	—	1.6	—	—	—	—	—
Hong Kong, China	0.7	26.3	39.3	—	3.2	—	—	—	—	—
India	—	38.1	25.5	14.9	5.8	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	47.1	17.6	1.4
Kazakhstan	—	—	—	—	—	—	—	—	—	—
Kiribati	—	50.5	28.7	7.9	—	—	—	—	—	—
Korea	0.1	44.3	34.1	7.4	1.2	—	40.9	—	7.6	1.1
Kyrgyz Republic	8.5	—	57.9	—	7.1	7.3	—	68.8	10.8	8.5
Lao PDR	2.7	39.5	43.5	3.9	5.3	—	—	—	—	—
Malaysia	—	34.3	34.4	19.9	0.2	0.3	33.2	37.7	16.8	6.4
Maldives	—	—	—	—	—	—	66.7	31.9	—	1.4
Marshall Islands	—	—	—	—	—	—	—	—	—	—
Micronesia, F.S.	—	—	—	—	—	—	—	—	—	—
Mongolia	18.8	—	63.9	17.2	—	23.5	—	58.6	17.8	0.2
Myanmar	—	—	—	—	—	—	47.7	40.3	11.7	—
Nauru	—	—	15.7	—	—	—	—	—	—	—
Nepal	—	48.2	15.7	23.3	—	—	—	—	—	—
Pakistan	—	47.4	19.1	18.3	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—
Philippines	1.2	31.5	34.4	18.6	14.3	1.4	35.5	31.5	16.5	15.2
Samoa	—	—	—	—	—	—	—	—	—	—
Singapore	—	29.6	36.5	29.3	0.4	—	26.8	35.3	—	—
Solomon Islands	0.3	56.3	29.8	13.7	0.1	—	—	—	—	—
Sri Lanka	—	—	84.3	13.4	—	—	—	72.1	11.3	1.7
Taipei,China	—	—	—	—	—	—	—	—	—	—
Thailand	0.2	—	21.6	14.6	2.3	1.8	—	21.5	16.5	2.5
Tonga	—	38.8	24.2	7.3	—	—	—	—	—	—
Tuvalu	—	35.9	—	—	—	—	—	—	—	—
Uzbekistan	—	—	—	—	—	16.8	—	69.9	9.7	0.6
Vanuatu	—	59.8	26.6	3.4	—	—	—	—	—	—
Viet Nam	—	—	—	—	—	—	—	—	—	—

— = Data not available.

*Notes:* (1) Figures indicate the share of total public education expenditures allocated to each level of schooling. The category "other" refers to expenditures on special, adult, and other types of education not included in the basic levels shown. Figures may not sum to 100%, indicating general administrative expenditures and other "not distributed" public expenditures. (2) In some cases (i.e., Bangladesh), data do not distinguish between expenditures on preprimary and primary education. Similarly, for Sri Lanka and for Nepal in 1980, distinct values are not available for preprimary, primary, and secondary education, hence figures given for the secondary level include expenditures on all three levels of education.

*Sources:* UNESCO 1989, 1996, 1999; country sources.

## Appendix 2: Organization of National Education Systems

Economy	Compulsory Education <sup>a</sup>			Student Age														
	Age Limits <sup>b</sup>	Duration (years) <sup>c</sup>	Entry Age <sup>d</sup>	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Duration of Primary and Secondary (General) Education																	
Afghanistan	7–13	6	3			P	P	P	P	P	P	S	S	S	S	S	S	
Bangladesh	5–10	5	5		P	P	P	P	P	S1	S1	S1	S1	S1	S2	S2		
Bhutan	—	—	5		P	P	P	P	P	P	P	S1	S1	S2	S2			
Cambodia	—	—	3		P	P	P	P	P	P	S1	S1	S1	S2	S2	S2		
PRC	7–15	9	3			P	P	P	P	P	S1	S1	S1	S2	S2			
Cook Islands	6–15	9	4	P	P	P	P	P	P	S1	S1	S1	S2	S2	S2			
Fiji Islands	6–15	8	3		P	P	P	P	P	P	S	S	S	S	S	S		
Hong Kong, China	7–15	9	3		P	P	P	P	P	P	S1	S1	S1	S1	S1	S2	S2	
India	6–14	8	4		P	P	P	P	P	S1	S1	S1	S2	S2	S2	S2		
Indonesia	7–15	9	5			P	P	P	P	P	P	S1	S1	S1	S1	S2	S2	
Kazakhstan	6–17	11	3			P	P	P	P	S1	S1	S1	S1	S1	S2	S2		
Kiribati	6–15	9	4		P	P	P	P	P	P	P	S	S	S	S	S		
Korea	6–15	9	5		P	P	P	P	P	P	S1	S1	S1	S1	S2	S2	S2	
Kyrgyz Republic	7–16	10	3			P	P	P	P	S1	S1	S1	S1	S1	S2	S2		
Lao PDR	6–15	5	3		P	P	P	P	P	S1	S1	S1	S2	S2	S2			
Malaysia	—	—	4		P	P	P	P	P	P	S1	S1	S1	S2	S2	S2	S2	
Maldives	—	—	4		P	P	P	P	P	S1	S1	S1	S1	S1	S2	S2		
Mongolia	8–16	8	4				P	P	P	P	S1	S1	S1	S1	S2	S2		
Myanmar	5–10	5	4	P	P	P	P	P	S1	S1	S1	S1	S2	S2				
Nauru	6–16	10	5		P	P	P	P	P	P	P	S	S	S	S			
Nepal	6–11	5	3		P	P	P	P	P	S1	S1	S1	S2	S2				
Pakistan	—	—	3		P	P	P	P	P	S1	S1	S1	S2	S2	S2	S2		
Papua New Guinea	—	—	5			P	P	P	P	P	P	S1	S1	S1	S1	S2	S2	
Philippines	6–12	6	5			P	P	P	P	P	P	S	S	S	S			
Samoa	5–14	8	3		P	P	P	P	P	P	P	S1	S1	S1	S2	S2		
Singapore	—	—	4			P	P	P	P	P	P	S1	S1	S1	S1	S2	S2	
Solomon Islands	—	—	3			P	P	P	P	P	P	S1	S1	S1	S2	S2		
Sri Lanka	5–14	9	4		P	P	P	P	P	S1	S1	S1	S1	S1	S1	S2	S2	
Taipei, China	6–14	9	4			P	P	P	P	P	P	S1	S1	S1	S1	S1	S2	
Thailand	7–15	6	3			P	P	P	P	P	P	S1	S1	S1	S2	S2		
Tonga	6–14	8	3			P	P	P	P	P	P	S	S	S	S	S	S	
Tuvalu	7–14	7	3		P	P	P	P	P	P	P	S	S	S	S	S		
Uzbekistan	—	—	3			P	P	P	P	S1	S1	S1	S1	S1	S2	S2		
Vanuatu	6–12	6	3			P	P	P	P	P	P	S1	S1	S1	S1	S2	S2	
Viet Nam	6–11	5	3			P	P	P	P	P	S1	S1	S1	S1	S2	S2		
<b>Other regional economies</b>																		
Australia	6–15	10	4			P	P	P	P	P	P	S1	S1	S1	S2	S2	S2	
Japan	6–15	9	3			P	P	P	P	P	P	S1	S1	S1	S2	S2	S2	
New Zealand	6–16	11	2		P	P	P	P	P	P	S1	S1	S1	S1	S2	S2	S2	

— = Data not available.

Note: P = primary; S = secondary; S1 = lower secondary; S2 = upper/senior secondary.

<sup>a</sup> Figures reflect official regulations for compulsory education. However, in some countries and territories, exemptions are made depending on the situation (i.e., exempting children for whom there is no suitable school within a reasonable distance of the home).

<sup>b</sup> Refers to lower and upper age limits specified under the regulations for compulsory education. For example, age limits of 6–14, imply that (unless exempted) children are subject to compulsory education laws from their sixth to their fourteenth birthday.

<sup>c</sup> Number of years of compulsory school attendance. For example, regulations in Thailand state that the duration of compulsory education shall be six grades between the ages of seven and 15, meaning that a child ceases to be subject to the regulations either on the fifteenth birthday or on completion of six years of schooling even if not yet 14.

<sup>d</sup> Entry age to preprimary education. Denotes the age at which children are generally accepted for preprimary education, which is often publicly provided on a limited basis. In many cases, only a small proportion of children (disproportionately urban children) actually receive preschool education.

Source: UNESCO 1999; country sources.

# BIBLIOGRAPHY

- Adams, D. 1998. Education and National Development in Asia: Implications for Priorities, Policies, and Planning. Technical Working Paper prepared for the Asian Development Bank.
- Adams, D., and Boediono. 1997. Information for Improving School Practice: Three Indonesian Cases and a Conceptual Model. In *From Planning to Action: Government Initiatives for Improving School-Level Practice*. Edited by D.W. Chapman et al. Paris: Pergamon Press and the International Institute for Educational Planning.
- Adams, D., and E. Gottlieb. 1993. *Education and Social Change in Korea*. New York: Garland Publishing.
- Amadio, M. 1997. Primary Education: Length of Studies and Instructional Time. *Educational Innovation and Information*. International Bureau of Education, Geneva, 92:2–7.
- Approach Paper to the Ninth Five-Year Plan (India) 1997–2002*. 1997. New Delhi: Nabhi Publications.
- Asia and the Pacific Programme of Educational Innovation for Development. 1992. *Towards Developing New Teacher Competencies in Response to Mega-Trends in Curriculum Reforms*. Bangkok: UNESCO, Principal Regional Office for Asia and the Pacific.
- Asian Development Bank (ADB). 1987. Distance Education in Asia and the Pacific: Proceedings of the Regional Seminar on Distance Education, 26 November–3 December 1986, Bangkok, Thailand. (Two vols.). Manila.
- . 1990. Distance Education in South Asia. Proceedings of the Round Table Conference on Distance Education for South Asian Countries, 6–8 November 1989, Islamabad, Pakistan. Manila.
- . 1991a. *Education and Development in Asia and the Pacific*. Second Edition. Manila.
- . 1991b. *Health, Population and Development in Asia and the Pacific*. Manila.
- . 1993a. *Lao People's Democratic Republic. Education and Development in Asia and the Pacific Series*. Vol. 1. Manila.
- . 1993b. *Gender Indicators of Developing Asian and Pacific Countries*. Manila.

- . 1994a. *Framework and Criteria for the Appraisal and Socioeconomic Justification of Education Projects*. Manila.
- . 1994b. *Mongolia: Education and Human Resources*. Manila.
- . 1994c. *Population Policy 1994*. Manila.
- . 1994d. *Women in Development: Issues, Challenges and Strategies in Asia and the Pacific*. Manila.
- . 1995a. Asia: Development Experience and Agenda. *ADB Theme Paper Series 3*. Manila.
- . 1995b. *Cook Islands: Economic Performance, Issues and Strategies*. Manila.
- . 1995c. *Human Resource Development: Small Pacific Island Countries*. Pacific Studies Series. Office of Pacific Operations. Manila.
- . 1995d. *Medium-Term Strategic Framework (1995–1998)*. The President's Office, March 1995. Manila.
- . 1995e. *Women in Development: Kiribati*. Office of Pacific Operations and Social Development Division. Manila.
- . 1995f. Women in Development in Selected Countries, in *Human Resource Development: Small Pacific Island Countries*. (185–201). Pacific Studies Series. Office of Pacific Operations. Manila.
- . 1996a. *Annual Report 1996*. Manila.
- . 1996b. *Federated States of Micronesia: 1996 Economic Report*. Office of Pacific Operations. Manila.
- . 1996c. *Key Indicators of Developing Asian and Pacific Countries*. Manila.
- . 1996d. *Report and Recommendation of the President to the Board of Directors on a Proposed Loan to the People's Republic of Bangladesh for the Second Primary Education Sector Project*. Manila.
- . 1996e. *Sociocultural Issues and Economic Development in the Pacific Islands*. Pacific Studies Series. Manila.
- . 1996f. *Vanuatu: Economic Performance, Policy and Reform Issues*. Manila.
- . 1996g. *Viet Nam: Human Development Perspectives*. Manila.
- . 1996h. Cambodia: Education Sector Strategy Study. Manila.
- . 1996i. Kazakhstan: Country Operational Strategy Study. Manila.
- . 1996j. Kyrgyz Republic: Country Operational Strategy Study. Manila.

- . 1997a. Borrowing Developing Member Countries (DMCs): Basic Statistical Indicators. Programs West Department, Division II. Manila.
- . 1997b. *Country Assistance Plan (CAP): Philippines 1998–2000*. Manila.
- . 1997c. *Emerging Asia: Changes and Challenges*. Manila.
- . 1998. *Asian Development Outlook 1998, Part III*. Manila.
- . 2000a. Lao People's Democratic Republic: Education Sector Development Report. Manila.
- . 2000b. *Moving the Poverty Reduction Agenda Forward in Asia and the Pacific: The Long-Term Strategic Framework of the Asian Development Bank (2001–2015)*. Manila.
- Avalos, Beatrice, and Paul Koro. 1997. Information and the Reform of Initial Teacher Education in Papua New Guinea: Strategies, Challenges and Results. In *From Planning to Action: Government Initiatives for Improving School-Level Practice*. Edited by D.W. Chapman et al. Paris: UNESCO.
- Beebout, H.S. 1972. The Production Surface for Academic Achievement: An Economic Study of Malaysian Secondary Education. Ph.D. Dissertation. Madison: Department of Economics, University of Wisconsin.
- Behrman, J., and N. Birdsall. 1985. The Quality of Schooling: Quantity Alone is Misleading. *American Economic Review* 75 (3):928–46.
- Behrman, J., and R. Schneider. 1994. An International Perspective on Schooling Investments in the Last Quarter Century in Some Fast-Growing East and South East Asian Countries. *Asian Development Review* 12(2).
- Bennell, P. 1995. *Rates of Return to Education in Asia: A Review of the Evidence*. Brighton, UK: University of Sussex, Institute of Development Studies.
- . 1996. Using and Abusing Rates of Return: A Critique of the World Bank's 1995 Education Sector Review. *International Journal of Educational Development* 16(3).
- Birdsall, N. 1996. Public spending on higher education in developing countries: Too much or too little? *Economics of Education Review* 15(4):407–19.
- Bishop, G. 1989. *Alternative Strategies for Education*. London: Macmillan.

- Bloom, D., and J. Silliamson. 1996. *Demographic Transitions and Economic Miracles in Emerging Asia*. Harvard University. Unpublished Paper.
- Bray, M. 1987. *Are Small Schools the Answer?: Cost-Effective Strategies for Rural School Provision*. London: Commonwealth Secretariat Publications.
- . 1989. *Multiple-Shift Schooling: Design and Operation for Cost-Effectiveness*. London: Commonwealth Secretariat Publications.
- . 1991a. *Making Small Practical: The Organization and Management of Ministries of Education in Small States*. London: Commonwealth Secretariat Publications.
- . Ed. 1991b. *Ministries of Education in Small States: Case Studies of Organization and Management*. London: Commonwealth Secretariat Publications.
- . 1992. *Educational Planning in Small Countries*. Paris: UNESCO.
- . 1996. *Counting the Full Cost: Parental and Community Financing of Education in East Asia*. Directions and Development Series. Washington, DC: World Bank.
- . 1997. Financing Higher Education in Asia and the Pacific. Paper presented at the World Congress on Higher Education and Human Resource Development in Asia and the Pacific in the 21<sup>st</sup> Century. Manila: Commission for Higher Education.
- . 1998. Financing Education in Developing Asia: Patterns, Trends, and Policy Implications. Technical Working Paper prepared for ADB.
- Bray, M., and K. Lillis. 1988. *Community Financing of Education: Issues and Policy Implications in Less Developed Countries*. Oxford: Pergamon Press.
- Burgess, R. 1997. Fiscal Reform and the Extension of Basic Health and Education Coverage. In *Marketizing Education and Health in Developing Countries: Miracle or Mirage?* Edited by C. Colclough. Oxford: Clarendon Press, 307–46.
- Carnoy, M. 1995. Structural adjustment and the changing face of education. *International Labour Review* 134(6):653–73.
- Carvalho, S., and H. White. 1996. *Implementing Projects for the Poor: What Has Been Learned?* Washington, DC: World Bank.
- Center for Educational Research and Innovation. 1994. *Quality in Teaching*. Paris: OECD.

- Cernea, M.M. 1992. *The Building Blocks of Participation: Testing Bottom-Up Planning*. Washington, DC: World Bank.
- Chagnon, J. 1996. *Women in Development: Lao People's Democratic Republic*. Manila: ADB.
- Chapman, D., and C. Carrier. 1990. *Improving Educational Quality: A Global Perspective*. New York: Greenwood Press.
- Chapman, D.W. 1993. *Improving the Effectiveness and Efficiency of Schooling: What Have We Learned from Eight Years of IEES Research?* Tallahassee: Improving the Efficiency of Education Systems (IEES) Project, Learning Systems Institute, Florida State University.
- . 1998. Trends, Issues and Policies in Education Management and Efficiency in Asia. Technical Working Paper prepared for ADB.
- Chapman, D., and M. Dughana. 1991. Education Data Quality in Nepal. *Evaluation and Program Planning* 14.
- Chapman, D. and D. Adams. 1998. The Quality of Education: Dimensions and Strategies. Technical Working Paper prepared for ADB.
- Chapman, David W., Lars O. Mählck, Anna E.M. Smulders. 1997. *From Planning to Action: Government Initiatives for Improving School-Level Practice*. Paris: UNESCO.
- Chapman, D.W., and C.W. Snyder, Jr. 1993. Teacher Incentives in the Third World. *Teachers and Teacher Education*, 301–16.
- Cheng, Kai-Ming. 1994. The Changing Legitimacy in a Decentralizing System: The State and Education Development in China. *The International Encyclopedia of Education*, 2<sup>nd</sup> Edition. 14(3):265–69.
- Chuard, D. 1996. *Analysis of Dropout and Student Learning in Primary Education in South Asia: Bangladesh, Bhutan, Nepal, and Pakistan*. Manila: ADB.
- Chuard, D., and A. Mingat. 1996. *Analysis of Dropout and Student Learning in Primary Education in Bhutan*. Manila: ADB.
- Clark, David H. 1983. How Secondary School Graduates Perform in the Labor Market: A Study of Indonesia. World Bank Staff Working Paper No. 615. Washington, DC: World Bank.
- Colclough, C. with K. Lewin. 1993. *Educating All the Children: Strategies for Primary Schooling in the South*. Oxford: Clarendon Press.

- Comber, L.C., and J.P. Keeves. 1973. *Science Education in Nineteen Countries*. International Association for the Evaluation of Educational Achievement, International Studies in Evaluation I. New York: Halsted Press.
- Cook, P., and C. Kirkpatrick. 1994. *Human Resource Development in Micronesia: An Analysis of Labour Market and Employment Policy*. Manila: ADB.
- Coombs, P., and J. Hallak. 1987. *Cost Analysis in Education: A Tool for Policy and Planning*. Baltimore: Johns Hopkins University Press.
- Cummings, W.K., G.B. Gunawardena, and J.H. Williams. 1992. *The Implementation of Management Reforms: The Case of Sri Lanka*. BRIDGES Research Report series.
- Deininger, Klaus, and Lyn Squire. 1996. A New Data Set Measuring Income Inequality. *World Bank Economic Review* 10:565–91.
- Del Rosso, J.M., and T. Marek. 1996. *Class Action: Improving School Performance in the Developing World through Better Health and Nutrition*. Washington, DC: World Bank.
- Demery, L., M. Ferroni., C. Grootaert, eds., with J. Wong-Valle. *Understanding the Social Effects of Policy Reform*. Washington, DC: World Bank.
- Department of Planning and Construction. 1997. *Essential Statistics of Education in China*. Beijing: State Education Commission, People's Republic of China.
- Development Academy of the Philippines (DAP). 1997. *Policies, Trends and Issues in Philippine Education*. Country sector study prepared for ADB.
- Dhanarajan, G. 1996. Distance Education: Status and Issues. Paper presented at the ADB/UNESCO Regional Seminar on Capacity Building in Distance Education for Training of Primary School Teachers, Bangkok, 21 October.
- Dhand, H. 1996. How effective is teachers' training through distance education in India? *Perspectives in Education* 12(3):1242.
- Dove, L. 1986. *Teachers and Teacher Education in Developing Countries*. Surry Hills: Croom Helm Ltd.
- Emberson-Bain, A. 1995. *Women in Development: Kiribati*. Manila: ADB.
- Farrell, J., and S. Heyneman. 1989. *Textbooks in the Developing World: Economic and Educational Choices*. Washington, DC: World Bank.

- Farrell, J., and J. Oliveira, eds. 1993. *Teachers in Developing Countries: Improving Effectiveness and Managing Costs*. Economic Development Institute Seminar Series. Washington, DC: World Bank, 217.
- Filmer, D., E. King, and L. Pritchett. 1998. *Gender Disparity in South Asia: Comparisons Between and Within Countries*. Policy Research Paper 1867. Washington, DC: World Bank.
- Florestal, K., and R. Cooper. 1997. *Decentralization of Education: Legal Issues*. Washington, DC: World Bank.
- Floro, M., and J.M. Wolf. 1990. *The Economic and Social Impacts of Girls' Primary Education in Developing Countries*. Washington, DC: Creative Associates International.
- Foster, Andrew W., and Mark R. Rosenzweig. 1999. Missing Women, the Marriage Market and Economic Growth. Forthcoming in *Handbook of Economics*.
- Fuller, B., and P. Clarke. 1994. Raising School Effects while Ignoring Culture? Local Conditions and the Influence of Classroom Tools, Rules and Pedagogy. *Review of Educational Research* 64(1).
- Fuller, B., et al. 1993. *Secondary Education in Developing Countries: Issues Review*. Washington, DC: World Bank.
- Fuller, W., and A. Chantavanich. 1976. *A Study of Primary Schooling in Thailand: Factors Affecting Scholastic Achievement of the Primary School Pupils*. Bangkok: Office of the National Education Commission.
- Gertler, P.J., and O. Rahman. 1994. Social Infrastructure and Urban Poverty. In *Urban Poverty in Asia: A Survey of Critical Issues*. Edited by E.N. Pernia,. Hong Kong: Oxford University Press, 127–94.
- Gerson, Philip. 1998. "Poverty, Income Distribution, and Economic Policy in the Philippines." IMF Working Paper WP/98/20.
- Glewwe, P. 1991. Schooling Skills and the Returns to Government Investment in Education: An Exploration using Data from Ghana. Living Standards Measurement Study Working Paper 79, Washington, DC: Policy Research Department, World Bank.
- Glick, Peter, and David E. Sahn. 2000. Schooling of Girls and Boys in a West African Country: The Effects of Parental Education, Income, and Household Structure. *Economics of Education Review* 19(1):63–87.
- Government of Bhutan. 1996. *General Statistics, June 1996*. Thimphu: Education Division, Ministry of Health and Education.

- Government of the Philippines. 1996. *Decentralization for School-Based Management and School Effectiveness*. August. Department of Education, Culture and Sports.
- Greenhalgh, Susan. 1985. Sexual Stratification: The Other Side of "Growth with Equity" in East Asia. Population Council. Center for Policy Studies. Working Paper No. 111. April.
- Haddad, W.D. 1994. *The Dynamics of Education Policymaking: Case Studies of Burkina Faso, Jordan, Peru, and Thailand*. Washington, DC: World Bank.
- Handa, Sudhanshu. 1996. The Determinants of Teenage Schooling in Jamaica: Rich vs. Poor, Females vs. Males. *Journal of Development Studies* 32(4):554–80.
- Hannum, Emily. 1999. Political Change and the Urban-Rural Gap in Education in China, 1949–1990. *Comparative Education Review* 43 (2):193–211.
- Harijati, A. 1998. The In-School Factors that Influence Students' Academic Achievement in Indonesian Junior High Schools. Ph.D. Dissertation. Pittsburgh: University of Pittsburgh, School of Education.
- Haq, M. 1997. *Human Development in South Asia 1997*. Karachi: Oxford University Press.
- Heaver, R.A., and J.M. Hunt. 1995. *Improving Early Childhood Development: An Integrated Program for the Philippines*. Washington, DC: World Bank.
- Heneveld, W. 1994. "Planning and Monitoring the Quality of Primary Education in Sub-Saharan Africa." Washington, DC: Technical Department Africa Region, World Bank.
- Heyneman, S.P. 1993. Educational Quality and Crisis of Educational Research. *International Review of Education* 39(6).
- . 1995. Economics of Education: Disappointments and Potential. *Prospects* 25(4).
- . 1997. Economic Growth and the International Trade in Education Reform. Submitted to UNESCO *Prospects*, June.
- Heyneman, S.P., D.T. Jamison, and X. Montenegro. 1983. Textbooks in the Philippines: Evaluation of the Pedagogical Impact of a Nationwide Investment. *Educational Evaluation and Policy Analysis* 6:139–50.

- Heyneman, S.P., and W. Loxley. 1983. The Effect of Primary School Quality on Academic Achievement across Twenty-Nine High- and Low-Income Countries. *The American Journal of Sociology* 88(6):1162–94.
- Hinchcliffe, K. 1986. *Monetary and Non-Monetary Returns to Education in Africa*. Discussion Paper 46. Washington DC: Education and Training Department, World Bank.
- Horn, R. 1992. *The Fundamental Quality Indicators: A Policy Note*. Washington, DC: Agency for International Development.
- Irvine, J. 1998. Changing Roles for Donors: A UNICEF View. Unpublished paper.
- Institute of National Affairs (INA). 1997. *Regional Study of Trends, Issues and Policies in Education: Papua New Guinea Country Case Study*. Country sector study prepared for ADB.
- International Association for the Evaluation of Educational Achievement (IEA). 1995. *Third International Mathematics and Science Study (TIMSS), 1994–95*.
- James, J. 1993. *Privatization of Secondary Education: Issues and Policy Implications*. International Commission on Education for the 21<sup>st</sup> Century, Paris: UNESCO.
- Jain, S. P., and T.W. Hochgesang, eds. 1995. *Emerging Trends in Panchayati Raj: Rural Local Self-Government in India*. National Institute of Rural Development.
- Jayaweera, S. 1991. *Women in Development: Sri Lanka*. Manila: ADB.
- Jiang, M. 1996. Education Sector in Transitional Economies: China Case Study Report. Document for the Project “Social Sectors in Asian Transition Economies.” Manila: ADB.
- Jimenez, E., M. Lockheed, E. Luna, and V. Paqueo. 1991. School Effects and Costs for Private and Public Schools in the Dominican Republic. *International Journal of Educational Research* 15(5):393–410.
- Kemmerer, F. 1990. An Integrated Approach to Primary Teacher Initiatives. In *Improving Educational Quality: A Global Perspective*. Edited by D.W. Chapman and C.A. Carrier. Westport, CT: Greenwood Press.
- Khandker, S.R. 1996. *Education Achievements and School Efficiency in Rural Bangladesh*. Washington, DC: World Bank.
- King, Elizabeth and Ann Hill, eds. 1993. *Women's Education in Developing Countries: Barriers, Benefits, and Policies*. Baltimore, MD: Johns Hopkins University Press.

- King, M. and K. Gannicott. 1993. As quoted in P. Schoeffel, 1996. *Sociocultural Issues and Economic Development in the Pacific Islands*. Manila: ADB.
- Kingdon, G. 1994. An Economic Evaluation of School Management-Types in Urban India: A Case Study of Uttar Pradesh. PhD. Dissertation, University of Oxford.
- Klugman, J., Marnie J. Micklewright, and P. O'Keefe. 1997. Enterprise divestiture of kindergartens and childcare arrangements in Central Asia. In *Household Welfare in Central Asia*. Edited by J. Falkingham et al. London: Macmillan.
- Knight, J., and R. Sabot. 1990. *Education, Productivity, and Inequality: The East African Natural Experiment*. Oxford: Oxford University Press for the World Bank.
- Kumar, K., ed. 1995. *School Effectiveness and Learning Achievement of Primary Stage: International Perspectives*. New Delhi: National Council of Educational Research and Training.
- Kwong, J. 1996. The New Educational Mandate in China: Running Schools, Running Businesses. *International Journal of Educational Development* 16(2):285–94.
- Lam, David, and Suzanne Duryea. 1999. Effects of Schooling on Fertility, Labor Supply and Investments in Children, with Evidence from Brazil. *Journal of Human Resources* 34(1):160–92.
- Ledgerwood, J.L. 1996. *Women in Development: Cambodia*. Manila: ADB.
- Lee, C. 1985. *Financing Technical Assistance in LDCs: Economic Implications from a Survey of Training Modes in the Republic of Korea*. Washington, DC: Education Department, World Bank.
- Lee, V., and A. Bryk. 1989. A Multilevel Model of the Social Distribution of High School Achievement. *Sociology and Education* 62(3):172–92.
- Lee, W.O. 1998. Equity and Access to Education in Developing Asia. Technical Working Paper prepared for ADB.
- Lee, W.O., and Z. Li. 1995. Education, Development and Regional Disparity in Guangzhou. In *Social Change and Educational Development: Mainland China, Taiwan and Hong Kong*. Edited by Postiglione and Lee. Hong Kong: Centre of Asian Studies, University of Hong Kong, 46–81.
- Levin, H. 1987. Education as a Public and Private Good. *Journal of Policy Analysis and Management* 6(4):628–41.

- Lewin, K.M. 1996. *Access to Education in Emerging Asia: Trends, Challenges and Policy Options*. Manila:ADB.
- Lewin, Keith, Angela Little, Hui Xu, and Jiwei Zheng. 1994. *Educational Innovation in China: Tracing the Impact of the 1985 Reforms*. Essex, UK: Longman Group Limited.
- Lewin, K. and Y. Wang. 1994. *Implementing Basic Education in China: Progress and Prospects in Rich, Poor, and National Minority Areas*. Research Report No. 101, Paris: International Institute for Educational Planning.
- Lockheed, M., and A. Verspoor. 1991. *Improving Primary Education in Developing Countries*. Washington, DC: World Bank.
- Lockheed, M., and E. Jimenez. 1994. Public and Private Schools in Developing Countries. HRO Working Paper No. 43. Washington, DC: World Bank.
- Lovell, C.H. 1992. *Breaking the Cycle of Poverty: The BRAC Strategy*. West Hartford: Kumarian Press.
- Lovell, C. H., and K. Fatema. 1989. *The BRAC Non-Formal Primary Education Programme in Bangladesh*. New York:UNICEF.
- Loxley, W. 1997. Preventing Primary School Dropout. *ADB Review* May-June:21-24.
- Lucas, R.E.B., and D.W. Verry. 1996. Growth and Income Distribution. *International Labor Review* 35(5):553-75.
- Lynch, J., C. Modgil, and S. Modgil. 1997. *Education and Development: Tradition and Innovation, 1, 2 and 3*. London: The Bath Press.
- Mackerras, C. 1995. *China's Minority Cultures*. New York: St. Martin's Press.
- Maitra, T. 1985. *Public Services in India*. Delhi:Mittal.
- Martin, A. 1996. A Case Study of School-Parent-Community Partnerships via the Parent Teacher Associations (PTA). Bangkok: East Asia and Pacific Regional Office, UNICEF.
- McDonald, M. 1995. *Women in Development: Viet Nam*. Manila: ADB.
- McGinn, N.F., and A.M. Borden. 1995. *Framing Questions, Constructing Answers: Linking Research with Education Policy for Developing Countries*. Cambridge: Harvard University Press.
- Middleton, J., J. Terry, and D. Bloch. 1992. Building Educational Evaluation Capacity. In D.W. Chapman and H.J. Walberg, *International Perspectives on Educational Productivity, Advances in Educational Productivity Series*. Vol. 2. Greenwich, Conn.: JAI Press.

- Miguel, Marcelina M., and Eligio Barsaga. 1997. Multi-grade Schooling in the Philippines: a Strategy for Improving Access to and Quality of Primary Education. In *From Planning to Action: Government Initiatives for Improving School-Level Practice*. Edited by D.W. Chapman et al. Paris: UNESCO.
- Mingat, A., 1995. Towards Improving our Understanding of the Strategy of High Performing Asian Economies in the Education Sector. Paper presented at the International Conference on Financing Human Resource Development in Advanced Asian Economies, ADB, Manila, 17–18 November.
- . 1996. *Elements on the Cost and Financing of Education in Lao PDR*. Dijon: University of Dijon.
- Mingat, A., and J.P. Tan. 1985. On Equity in Education Again: An International Comparison. *Journal of Human Resources* 20(2) (Spring):298–308.
- . 1996. The Full Social Returns to Education: Estimates Based on Countries' Economic Growth Performance. Working Paper. Washington, DC: World Bank.
- Moegiadi. 1976. *Indonesia Quality of Basic Education*. Jakarta: Ministry of Education and Culture.
- Mok, Ka-Ho 1997. Retreat of the State: Marketization of Education in the Pearl River Delta. *Comparative Education Review* 41(3):260–76.
- Morris, P. 1996. The Management of Participation in the Policy-Making Process: The Case of the Education Commission in Hong Kong. *Educational Policy* 11(3):319–36.
- Morris, P., and A. Sweeting, eds. 1995. *Education and Development in East Asia*. New York: Garland Publishing.
- Muhammad, H. 1997. The Relationship Between School Resources and Student Academic Achievement in Indonesian Senior Secondary Schools. Ph.D. Dissertation. Pittsburgh: University of Pittsburgh, School of Education.
- Murnane, R.J. 1975. *The Impact of School Resources on Learning on Inner City Children*. Cambridge: Ballinger.
- Murnane, R.J., and D. Cohen. 1986. Merit Pay and the Evaluation of the Problem: Why Some Merit Plans Fail and Few Survive. *Harvard Educational Review* 56(1):1–17.

- National Center for Education Development Research (NCEDR). 1997. *Regional Study of Trends, Issues and Policies in Education: Final Report of Country Case Study of the People's Republic of China*. Country sector study prepared for ADB.
- National Institute for Educational Development (NIED). 1997. *Regional Study of Trends, Issues and Policies in Education: Viet Nam Case Study*. Country sector study prepared for ADB.
- Nielsen, H.D., and W. Cummings, eds. 1997. *Quality Education for All: Community-Oriented Approaches*. New York: Garland Publishing.
- Nielsen, H.D., and M. Tatto. 1991. *The Cost-Effectiveness of Distance Education for Teacher Training*. BRIDGES Research Report Series (9). Cambridge: Harvard Institute for International Development.
- Organisation for Economic Co-operation and Development (OECD). 1994. *Conceptual Framework: Quality, Policy, and Local Context. Quality in Teaching*. Paris: OECD Publications.
- . 1997. *Education at a Glance: OECD Indicators*. Paris: OECD Publications.
- Office of Educational and Cultural Research and Development (OECRD). 1997. *Study of Trends, Issues and Policies in Education (Indonesia Case Study)*. Country sector study prepared for ADB.
- Pakistan Institute of Development Economics (PIDE). 1997. *Trends, Issues and Policies in Education: A Case Study of Pakistan*. Country sector study prepared for ADB.
- Patrinos, H., and D. Ariasingam. 1998. *Decentralization of Education*. Washington, DC: World Bank.
- Penn World Tables, version 5.6. 1994. University of Pennsylvania.
- Penrose, P. 1993. *Affording the Unaffordable: Planning and Financing Education Systems in Sub-Saharan Africa*. Occasional Papers on Education, No. 7. London: Overseas Development Administration.
- Philippine Congressional Committee on Education. 1992. *Making Education Work: Areas of Concern in Philippine Education*. Vol. 2, *Teacher Welfare, Compensation and Benefits, A report to the Congressional Commission on Education*.
- Postlethwaite, N., and D. Wiley. 1992. *Science Achievements in 23 Countries*. Oxford: Pergamon Press.
- Prather, C. J., ed. 1993. *Primary Education for All: Learning from the Brac Experience, A Case Study*. Washington, DC: ABEL Project, Academy for Educational Development.

- Prather, C. J., I. Balouch, C. Monde, E. Monterroso, and T. Rahman. 1996. *Exploring Incentives: Promising Strategies for Improving Girls' Participation in School*. Washington, DC: ABEL Project, Creative Associates International.
- Presidential Commission on Education Reform. 1997. *Education Reform for the 21<sup>st</sup> Century*. Seoul, Republic of Korea.
- Psacharopoulos, G. 1973. *Returns to Education: An International Comparison*. San Francisco: Jossey-Bass.
- . 1975. *Earning and Education in OECD Countries*. Paris: OECD.
- . 1994. Returns to investment in education: A global update. *World Development* 22(9):1325–43.
- Quibria, M.G., ed. 1994. *Rural Poverty in Developing Asia*. Vol. 1, Bangladesh, India and Sri Lanka. Manila: ADB.
- . 1995. *Critical Issues in Asian Development: Theories, Experiences and Policies*. Hong Kong: Oxford University Press.
- Raudenbush, S., and C. Bhumirat. 1991. The Distribution of Resources for Primary Education and its Consequences for Educational Achievement in Thailand. *International Journal of Educational Research* 17(2).
- Raudenbush, S., and J. Williams. 1991. The Organization of Schooling and its Methodological Implications. In Raudenbush and Williams, eds., *Schools, Classrooms, and Pupils: International Studies of Schooling from a Multilevel Perspective*. New York: Academic Press.
- Reimers, F. 1997. Changing Schools Through Participatory Knowledge Management in El Salvador: Can Education Systems Learn? In *From Planning to Action: Government Initiatives for Improving School-Level Practice*. Edited by D.W. Chapman et al. Paris: UNESCO.
- Reimers, F., and N. McGinn. 1997. *Informed Dialogue: Using Research to Shape Education Policy Around the World*. Westport, CT: Praeger.
- Reimers, F., and D. Warwick. 1991. *Influences on Academic Achievement in Pakistan: Students, Teachers, and Classrooms*. BRIDGES School Effectiveness Studies. Cambridge: Harvard Institute for International Development.

- Research Centre for Educational Innovation and Development (RCEID), Tribhuvan University. 1997. *Trends Issues and Policies of Education in Nepal: A Case Study*. Country sector study prepared for ADB.
- Research Institute for Higher Education Problems (RIHEP), Ministry of Education, Science and Culture of the Kyrgyz Republic. 1997. *Country Report: Regional Study of Trends, Issues and Policies in Education*. Country sector study prepared for ADB.
- Reyes, Flordeliza C., and Salud Evangelista. 1992. Government Subsidy to Private Education: A Review and an Assessment. Manila: College of Education, De La Salle University. Paper prepared for the Educational Development Projects Implementing Task Force.
- Rowe, E. 1971. Special Education in Hong Kong. Paper presented at the Pan-Pacific Conference on the Education of Exceptional Children, 9–12 February.
- Rust, V., and P. Dalin. 1990. *Teachers and Teaching in the Developing World*. New York: Garland Publishing.
- Samuelson, R.J. 1998. "It's still a depression." *Time* 18 May, 53.
- Sarason, S.B. 1971. *The Culture of the School and the Problem of Change*. Boston: Allyn and Bacon.
- Schultz, T. Paul, ed. 1998. *Economic Demography*. Cheltenham, UK: Elgar Publishers.
- Schwille, J., and C. Wheeler. 1992. Variable Role of the State in Education: The Thai Experience. *International Journal of Educational Research* 17(2).
- Selvaratnam, V. 1994. *Innovations in Higher Education: Singapore at the Competitive Edge*. Technical Paper No. 222. Washington, DC: World Bank.
- Sembering, R., and I. Livingston. 1981. *National Assessment of the Quality of Indonesian Education*. Jakarta, Indonesia: Ministry of Education and Culture.
- Shaeffer, S. 1991. *A Framework for Collaborating for Educational Change*. Research and Studies Programme Series on Increasing and Improving the Quality of Basic Education, Monograph No. 3. IIEP/UNESCO.
- . 1992. Collaborating for educational change: The role of parents and the community in school improvement. *International Journal of Educational Development* 12(4).

- Shrestha, G., S. Lamichane, B. Thapa, R. Chitrakar, M. Useem, and J. Comings. 1986. Determinants of Educational Participation in Rural Nepal. *Comparative Education Review* 30:508–22.
- Shrestha, G., K.M. Pradhan, S. Ghimier, and S. Singh. 1990. Participation of Women in Higher Education in Nepal. *Women's Participation in Higher Education: China, Nepal and the Philippines*. Bangkok: UNESCO Principal Regional Office for Asia and the Pacific, 65–114.
- Solmon, L., and C. Fagnano. 1995. Benefits of Education. In *International Encyclopedia of Economics of Education*. Edited by M. Carnoy. 2nd ed. Oxford: Pergamon Press, 114–25.
- Spohr, Chris A. 2000. "Essays on Household and the Workforce in Taiwan." MIT Department of Economics. PhD. dissertation.
- Stromquist, N. P. 1994. *Gender and Basic Education in International Development Cooperation*. New York: UNICEF.
- Suryadi, A. 1989. *Improving the Educational Quality of Primary Schools*. Jakarta: Ministry of Education and Culture.
- Swetz, F., H. Langgulung, and A. Johar. 1983. Attitudes Toward Mathematics and School Learning in Malaysia and Indonesia: Urban-Rural and Male-Female Dichotomies. *Comparative Education Review* 27:394–402.
- Tan, J. P., and A. Mingat. 1992. *Education in Asia: A Comparative Study of Cost and Financing*. Washington, DC: World Bank.
- Tangyong, A.F., Wahyudi, R. Gardner, and H. Hawes. 1989. *Quality Through Support for the Teacher*. Jakarta, Indonesia: Ministry of Education and Culture.
- Teddlie, C., and S. Stringfield. 1993. *Schools Make a Difference*. New York: Columbia University Teachers College Press.
- Thomas, Duncan, Robert F. Schoeni, and John Strauss. 1996. Parental Investments in Schooling: The Roles of Gender and Resources in Urban Brazil. RAND Corporation Report DRU/1303/NICHD.
- Thorndike, Robert L. 1973. The Relation of School Achievement to Differences in the Backgrounds of Children. Paper presented at the Conference on Educational Achievement, Harvard University, Cambridge, November.
- Tilak, J.B.G. 1994. *Education for Development in Asia*. New Delhi: Sage Publications.

- . 1997a. Lessons from Cost Recovery in Education. In *Marketizing Education and Health in Developing Countries: Miracle or Mirage?* Edited by C. Colclough. Oxford: Clarendon Press, 63–89.
- . 1997b. The Effects of Adjustment on Education: A Review of Asian Experience. *Prospects* 27(1).
- Todaro, M.P. 1997. *Economic Development*. London: Longman.
- United Nations Development Programme (UNDP). 1996a. *Human Development Report 1996: Kazakhstan*. Almaty.
- . 1996b. *Human Development Report 1996*. New York and Oxford: Oxford University Press.
- . 1997. *Human Development Report 1997*. New York and Oxford: Oxford University Press.
- . 1998a. *Human Development Report 1998*. New York and Oxford: Oxford University Press.
- . 1998b. *Human Development Report 1998: Uzbekistan*. Tashkent.
- UNDP, UNESCO, UNICEF, and World Bank. 1990. *World Declaration on Education for All and Framework for Action to Meet Basic Learning Needs*. Jomtien, Thailand, 5–9 March.
- United Nations Educational, Scientific and Cultural Organization (UNESCO). 1981. *Statistical Yearbook 1981*. Paris.
- . 1989. *Statistical Yearbook 1989*. Paris.
- . 1993a. *Statistical Yearbook 1993*. Paris.
- . 1993b. *Trends and Projections of Enrollment by Level of Education, by Age and by Sex*. Paris: UNESCO.
- . 1993c. *World Education Report 1993*. Paris.
- . 1994. *Education in Asia and the Pacific: Reviews, Reports and Notes*. No. 27, 1991–1992. Bangkok: UNESCO Principal Regional Office for Asia and the Pacific.
- . 1995a. *Secondary Education in Bhutan*. Paris.
- . 1995b. *World Education Report 1995*. Paris.
- . 1996a. *Statistical Yearbook 1996*. Paris.
- . 1996b. *Education and Human Resources Sector Analysis: A Training Manual*. Bangkok: Principal Regional Office for Asia and the Pacific.
- . 1996c. *Mid-Decade Review of Education of all in South Asia*. Bangkok: Principal Regional Office for Asia and the Pacific.
- . 1997. *Statistical Yearbook 1997*. Paris.
- . 1998a. *Literacy Estimates and Projections*. Paris.

- . 1998b. *World Education Report 1998*. Paris.
- . 1999. *Statistical Yearbook 1999*. Paris.
- . 2000. *Statistical Yearbook 2000*. Paris.
- UNESCO and ADB. 1995. *Kazakhstan: Technical Assistance for the Education and Training Sector, Annex 1, Review of Education Organizations and Management*. Bangkok: Principal Regional Office for Asia and the Pacific and Manila: ADB.
- United Nations Children's Fund (UNICEF). 1995. *The Progress of Nation; The Nations of the World Ranked According to Their Achievements in Child Health, Nutrition, Education, Family Planning, and Progress for Women*. New York.
- . 1996a. *Atlas of South Asian Children and Women*. Kathmandu, Nepal: Regional Office of South Asia.
- . 1996b. *Nepal Multiple Indicator Surveillance, Second Cycle, April–June 1995: Primary Education Final Report*. National Planning Commission Secretariat, Kathmandu.
- United Nations. 1991. *The World's Women: Trends and Statistics, 1970–90*. New York.
- . 1995a. *Global Population Policy*. New York.
- . 1995b. *Human Resources Development: Effectiveness of Programme Delivery at the Local Level in Countries of the ESCAP Region*. Development Paper No. 16. Bangkok: United Nations Economic and Social Commission for Asia and the Pacific.
- . 1995c. *Women in the Philippines: A Country Profile*. Statistical Report, No. 3. New York.
- . 1995d. *Trends, Patterns, and Implications of Rural-Urban Migration in India, Nepal and Thailand*. New York.
- . 1995e. *Women of Bangladesh: A Country Profile*. Statistical Report, No. 2. New York.
- . 1996a. *Women in the Solomon Islands. A Country Profile*. Statistical Report, No. 7. New York.
- . 1996b. *Women in Vanuatu: A Country Profile*. Statistical Report, No. 6. New York.
- . 1996c. *Women of Nepal: A Country Profile*. Statistical Report, No. 4. New York.
- Verspoor, A. 1989. *Pathways to Change: Improving the Quality of Education in Developing Countries*. Washington, DC: World Bank.
- Vieira da Cunha, P., and Junha Pena, M. 1997. *The Limits and Merits of Participation*. Policy Working Paper 1838. Washington, DC: World Bank.

- Viswanath, V. 1995. *Building Partnerships for Poverty Reduction: The Participatory Project Planning Approach of the Women's Enterprise Management Training Outreach Program (WEMTOP)*. Washington, DC: World Bank.
- Walton, M. 1990. Combating poverty: Experience and prospect. *Finance and Development*, September: 2–5.
- Weale, M. 1993. A Critical evaluation of rate-of return analysis. *Economic Journal* 103:729–37.
- Williams, J. 1997. Improving School-Community Relations in the Periphery. In *Quality Education for All*. Edited by Nielsen and Cummings. New York: Garland Publishing.
- Windham, D. 1988. *Improving the Efficiency of Educational Systems: Indicators of Educational Effectiveness and Efficiency*. Tallahassee: Improving the Efficiency of Education Systems (IEES) Project, Learning Systems Institute, Florida State University.
- Wong, S.Y., ed. 1993. *Distance Education in Asia and the Pacific: Country Papers*. Paris: UNESCO.
- Woodhall, M. 1987. *Lending for Learning: Designing a Student Loan Programme for Developing Countries*. London: Commonwealth Secretariat Publications.
- . 1991. *Student Loans in Higher Education: Asia*. Paris: International Institute for Educational Planning.
- . 1997. The Reform of Higher Education Finance in Developing Countries; Some Implementation Issues. Paper presented at the World Bank Human Development Week, University of Maryland, College Park.
- World Bank. 1990. *Primary Education: A World Bank Policy Paper*. Washington, DC.
- . 1991. *Developing the Private Sector: The World Bank's Experience and Approach*. Washington, DC.
- . 1993. *The East Asian Miracle: Economic Growth and Public Policy*. New York: Oxford University Press.
- . 1994a. *Higher Education: The Lessons of Experience*. Washington, DC.
- . 1994b. *Nepal: Critical Issues in Secondary Education and Options for Reform*. Washington, DC.
- . 1994c. *Enhancing Women's Participation in Economic Development*. Washington, DC.
- . 1995a. *Priorities and Strategies for Education: A World Bank Sector Review*. Washington, DC.

- . 1995b. *Social Indicators of Development*. Washington, DC.
- . 1995c. *World Tables*. Washington, DC.
- . 1996a. *Bangladesh: Education Expenditure Review*. Washington, DC.
- . 1996b. *Trends in Developing Economies*. Washington, DC.
- . 1996c. *Viet Nam: Education Financing Sector Study*. Human Resources Operations Division Country Department 1, East Asia and Pacific Region. Washington, DC.
- . 1996d. *World Debt Tables*. Washington, DC.
- . 1997a. *China: Higher Education Reform*. Washington, DC.
- . 1997b. *Indonesia: Sustaining High Growth with Equity*. Country Department III, East Asia and Pacific Region. Washington, DC.
- . 1997c. *Primary Education in India*. Washington, DC.
- . 1997d. *World Development Indicators*. Washington, DC.
- . 1997e. *World Development Report: The State in a Changing World*. New York: Oxford University Press.
- . 2000. *World Development Indicators*. Washington, DC.
- Young, M.E. 1995. *Investing in Young Children*. Washington, DC. World Bank.
- Zhang, M. 1997. *Conceptions and Choices: A Comparative Study on Student Financial Support Policies*. Beijing: People's Education Press.
- Zhao, Z. Y., S.Q. Chen, and H.Y. Liu. 1993. A Report on the Survey of the Value Orientations of the Adolescent Students of Three Ethnic Groups in China. *Studies in Ethnic Education [Minzu Jiaoyu Yanjiu]* 1:34–44.
- Ziderman, A., and D. Albrecht. 1995. *Financing Universities in Developing Countries*. London: Falmer Press.