

# Road Safety Guidelines

*for the Asian and Pacific Region*

## Appendix **D**

### COMPARATIVE STATISTICS



Asian Development Bank

# COMPARATIVE STATISTICS

## Appendix D

This Appendix contains basic statistics on Asian and Pacific countries to enable intercountry comparisons. The data are based on the database of road safety information that is to be established at the United Nations Economic and Social Commission for Asia and the Pacific (UN/ESCAP) in Bangkok, Thailand.

		KILOMETERS OF ROAD																
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994		
EAST/CENTRAL ASIA																EAST/CENTRAL ASIA		
<i>PRC ('000,000s)</i>		<i>888.25</i>	<i>897.462</i>	<i>906.963</i>	<i>915.079</i>	<i>926.746</i>	<i>942.395</i>	<i>962.769</i>	<i>982.243</i>	<i>999.553</i>	<i>1,014.34</i>	<i>1,028.35</i>	<i>1,041.14</i>	<i>1,056.71</i>	-	-	<i>PRC ('000,000s)</i>	
Hong Kong, China		1,162	1,182	1,217	1,244	1,279	1,323	1,350	1,395	1,434	1,465	1,484	1,529	1,559	-	-	Hong Kong, China	
DPR Korea		-	-	-	-	-	-	-	-	-	-	20,000	-	-	-	-	DPR Korea	
Republic of Korea		46,951	50,336	53,936	54,600	51,004	52,264	53,654	54,689	55,778	56,481	56,715	58,088	58,847	61,294	73,834	Republic of Korea	
Macao		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Macao	
Mongolia		-	-	-	-	-	-	-	-	-	-	-	-	49,200	-	-	Mongolia	
Taipei, China		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Taipei, China	
SOUTHEAST ASIA																SOUTHEAST ASIA		
Brunei		1,483	1,561	1,622	1,654	1,733	1,770	1,861	1,994	2,024	2,199	-	-	-	-	-	Brunei	
Cambodia		-	-	-	-	-	-	-	-	-	-	-	-	14,800	-	-	Cambodia	
Indonesia		142,314	154,181	165,138	184,648	194,944	207,237	214,033	222,924	250,314	266,326	283,516	-	-	-	-	Indonesia	
Lao PDR		-	-	13,971	-	-	12,983	-	-	-	-	-	-	13,298	-	-	Lao PDR	
Malaysia		28,721	31,406	35,864	37,409	38,503	39,702	39,915	39,339	52,606	52,695	53,986	61,649	-	-	-	Malaysia	
Myanmar		22,740	22,883	22,981	23,068	23,202	23,298	23,387	23,463	23,490	23,981	27,305	30,629	-	-	-	Myanmar	
Philippines		151,919	153,528	154,473	155,671	157,139	161,709	162,325	157,810	157,253	159,059	160,380	160,633	-	-	-	Philippines	
Singapore		2,356	2,483	2,533	2,568	2,597	2,645	2,686	2,760	2,810	2,836	2,882	2,924	2,967	2,989	-	Singapore	
Thailand		28,151	30,016	31,001	33,148	34,702	36,235	37,724	39,369	41,794	44,409	45,445	45,650	46,712	-	-	Thailand	
Viet Nam		81,136	-	-	-	-	85,136	85,681	86,327	86,643	87,267	87,507	105,061	105,500	-	-	Viet Nam	
SOUTH ASIA																SOUTH ASIA		
Afghanistan		-	18,852	18,974	19,010	-	-	-	-	-	18,000	-	-	-	-	-	Afghanistan	
Bangladesh		5,691	6,591	7,432	7,997	9,387	10,374	11,185	11,815	12,321	12,960	13,700	-	14,500	-	-	Bangladesh	
Bhutan		-	-	-	-	-	-	-	2,254	-	-	-	-	-	-	-	Bhutan	
<i>India ('000s)</i>		<i>1,190</i>	<i>1,231.1</i>	<i>1,530.3</i>	<i>1,579.1</i>	<i>1,627.5</i>	<i>1,686.9</i>	<i>1,726.1</i>	<i>1,780.6</i>	<i>1,843.4</i>	<i>1,905</i>	<i>1,970</i>	<i>2,037</i>	-	-	-	<i>India ('000s)</i>	
Iran		95,800	76,500	64,200	90,000	-	135,882	-	-	-	-	-	-	-	-	-	Iran	
Maldives		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Maldives	
Nepal		4,940	5,021	5,270	5,546	5,717	5,925	6,039	6,306	6,611	6,611	7,036	7,401	7,400	-	-	Nepal	
Pakistan		40,143	42,535	44,669	46,848	49,457	53,020	59,630	107,611	111,152	114,669	118,122	121,485	124,773	128,057	131,433	Pakistan	
Sri Lanka		24,643	24,564	24,752	25,466	25,466	25,494	25,634	25,688	25,749	25,952	-	-	-	-	-	Sri Lanka	
CENTRAL ASIAN REPS																CENTRAL ASIAN REPS		
Armenia		-	-	-	-	-	-	-	-	-	-	-	-	-	8,096	-	Armenia	
Azerbaijan		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Azerbaijan	
Kazakhstan		-	-	-	-	-	-	-	-	-	-	-	-	87,841	-	87,523	Kazakhstan	
Kyrgyz Republic		-	-	-	-	-	-	-	-	-	-	19,100	-	-	-	-	Kyrgyz Republic	
Russian Federation		-	-	-	-	-	-	-	-	-	-	-	-	-	934,000	-	Russian Federation	
Tajikistan		-	-	-	-	-	-	-	-	-	13,400	-	-	-	-	-	Tajikistan	
Turkmenistan		-	-	-	-	-	-	-	-	-	-	-	13,400	-	-	-	Turkmenistan	
Uzbekistan		-	-	-	-	-	-	-	-	-	39,800	-	-	-	-	-	Uzbekistan	
PACIFIC COUNTRIES																PACIFIC COUNTRIES		
American Samoa		-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	American Samoa	
Cmn. Nth. Mariana Is.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	Cmn. Nth. Mariana Is.	
Cook Islands		-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	Cook Islands	
Fiji		-	-	-	-	-	-	-	-	-	-	4,822	4,777	-	-	755	Fiji	
French Polynesia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	217	French Polynesia	
Guam		-	-	-	-	-	-	-	-	-	-	-	-	-	-	145	Guam	
Kiribati		-	-	-	-	-	-	-	-	-	-	-	-	-	-	78	Kiribati	
Marshall Islands		-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	Marshall Islands	
Micronesia, Fed. States. of		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Fed. States. of Micronesia	
Samoa		-	-	-	-	-	-	-	-	-	-	1,800	-	-	-	-	Samoa	
Tonga		-	-	-	-	-	-	-	-	-	305	-	-	-	-	-	Tonga	
Vanuatu		-	-	-	-	-	-	1,353	-	-	-	-	1,130	-	-	-	Vanuatu	
DEVELOPED NATIONS																DEVELOPED NATIONS		
Australia		810,900	-	-	801,600	804,800	-	808,500	805,400	-	810,300	-	-	-	-	-	Australia	
<i>Japan ('000s)</i>		<i>1,114</i>	<i>1,118</i>	<i>1,123</i>	<i>1,123</i>	<i>1,125</i>	<i>1,128</i>	<i>1,127</i>	<i>1,099</i>	<i>1,104</i>	<i>1,110</i>	<i>1,115</i>	<i>1,120</i>	<i>1,125</i>	<i>1,131</i>	<i>1,136</i>	<i>Japan ('000s)</i>	
New Zealand		-	-	93,000	93,000	93,000	93,000	93,000	-	93,000	-	-	-	-	-	-	New Zealand	

Notes: Sources: Statistical year books for each country;  
UN/ESCAP Statistical Yearbook for the Asian and the Pacific Region.

For presentational purposes, large values have been expressed as thousands. In these cases, entries are shown in italics.

## APPENDIX D

### POPULATION BY YEAR ('000s)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<b>EAST/CENTRAL ASIA</b>																<b>EAST/CENTRAL ASIA</b>
<i>PRC ('000,000s)</i>	<i>996.134</i>	<i>1,010.1</i>	<i>1,024.58</i>	<i>1,039.552</i>	<i>1,054.911</i>	<i>1,070.575</i>	<i>1,086.552</i>	<i>1,102.877</i>	<i>1,119.509</i>	<i>1,136.397</i>	<i>1,153.47</i>	<i>1,170.697</i>	<i>1,187.997</i>	<i>1,205.181</i>	<i>1,222.017</i>	<i>PRC ('000,000s)</i>
Hong Kong, China	5,039	5,144	5,237	5,318	5,300	5,456	5,516	5,570	5,618	5,664	5,709	5,755	5,800	5,845	5,890	Hong Kong, China
DPR Korea	18,260	18,581	18,901	19,221	19,549	19,888	20,239	20,602	20,978	21,368	21,771	22,188	22,618	23,055	23,491	DPR Korea
Republic of Korea	38,124	38,667	39,203	39,737	40,271	40,806	41,345	41,886	42,416	42,917	43,377	43,791	44,163	44,507	44,842	Republic of Korea
Macao	320	-	-	330	360	390	420	430	440	450	479	-	-	-	424	Macao
Mongolia	1,664	1,709	1,758	1,807	1,858	1,909	1,963	2,018	2,073	2,131	2,190	2,249	2,310	2,371	2,434	Mongolia
Taipei,China	17,800	18,100	18,400	18,700	19,010	19,260	19,460	19,680	19,900	20,120	20,340	20,560	20,780	21,000	21,220	Taipei,China
<b>SOUTHEAST ASIA</b>																<b>SOUTHEAST ASIA</b>
Brunei	194	200	206	213	220	226	233	239	245	251	257	263	269	276	282	Brunei
Cambodia	6,498	6,553	6,692	6,890	7,111	7,327	7,530	7,729	7,926	8,127	8,337	8,553	8,774	8,996	9,222	Cambodia
<i>Indonesia ('000,000s)</i>	<i>150.957</i>	<i>154.143</i>	<i>157.384</i>	<i>160.672</i>	<i>163.992</i>	<i>167.332</i>	<i>170.687</i>	<i>174.059</i>	<i>177.448</i>	<i>180.856</i>	<i>184.283</i>	<i>187.723</i>	<i>191.17</i>	<i>194.616</i>	<i>198.055</i>	<i>Indonesia ('000,000s)</i>
Lao PDR	3,206	3,262	3,330	3,409	3,497	3,595	3,702	3,818	3,942	4,070	4,202	4,335	4,469	4,606	4,742	Lao PDR
Malaysia	13,764	14,112	14,479	14,863	15,264	15,678	16,104	16,542	16,989	17,440	17,892	18,343	18,792	19,239	19,683	Malaysia
Myanmar	33,821	34,529	35,252	35,994	36,757	37,544	38,355	39,191	40,050	40,928	41,824	42,738	43,668	44,613	45,573	Myanmar
Philippines	48,684	49,949	51,263	52,620	54,001	55,395	56,798	58,211	59,627	61,038	62,437	63,819	65,186	66,543	67,898	Philippines
Singapore	2,414	2,443	2,471	2,500	2,528	2,558	2,588	2,618	2,649	2,679	2,710	2,740	2,768	2,798	2,825	Singapore
Thailand	46,718	47,695	48,636	49,533	50,384	51,187	51,938	52,640	53,315	53,988	54,677	55,393	56,128	56,869	57,586	Thailand
Viet Nam	53,711	54,904	56,116	57,351	58,611	59,898	61,214	62,556	63,921	65,299	66,688	68,083	69,485	70,902	72,342	Viet Nam
<b>SOUTH ASIA</b>																<b>SOUTH ASIA</b>
Afghanistan	16,063	15,815	15,441	15,027	14,690	14,519	14,528	14,706	15,085	15,698	16,556	17,688	19,062	20,547	21,968	Afghanistan
Bangladesh	88,221	90,701	93,223	95,777	9,832	100,861	103,384	105,898	108,429	111,014	113,684	116,444	119,288	122,21	125,201	Bangladesh
Bhutan	1,242	1,267	1,294	1,322	1,350	1,380	1,409	1,440	1,471	1,504	1,539	1,574	1,611	1,650	1,689	Bhutan
<i>India ('000,000s)</i>	<i>688.856</i>	<i>703.75</i>	<i>719.151</i>	<i>734.907</i>	<i>750.793</i>	<i>766.651</i>	<i>782.423</i>	<i>798.161</i>	<i>813.954</i>	<i>829.932</i>	<i>846.191</i>	<i>862.745</i>	<i>879.549</i>	<i>896.567</i>	<i>913.747</i>	<i>India ('000,000s)</i>
Iran	39,254	40,945	42,832	44,849	46,901	48,916	50,882	52,811	54,690	56,508	58,267	59,948	61,565	63,180	64,878	Iran
Maldives	158	163	168	173	178	183	189	195	201	207	214	220	227	234	241	Maldives
Nepal	14,858	15,285	15,730	16,191	16,661	17,136	17,615	18,097	18,584	19,075	19,571	20,072	20,576	21,086	21,601	Nepal
<i>Pakistan ('000,000s)</i>	<i>85.299</i>	<i>88.007</i>	<i>90.944</i>	<i>94.073</i>	<i>97.332</i>	<i>100.676</i>	<i>104.103</i>	<i>107.611</i>	<i>111.152</i>	<i>114.669</i>	<i>118.122</i>	<i>121.485</i>	<i>124.857</i>	<i>128.273</i>	<i>131.433</i>	<i>Pakistan ('000,000s)</i>
Sri Lanka	14,819	15,078	15,342	15,606	15,864	16,110	16,345	16,568	16,784	16,999	17,218	17,440	17,666	17,893	18,121	Sri Lanka
<b>CENTRAL ASIAN REPS</b>																<b>CENTRAL ASIAN REPS</b>
Armenia	3,067	-	-	3,243	3,292	3,339	3,387	3,435	3,453	3,482	3,545	3,612	3,686	4,000	-	Armenia
Azerbaijan	6,165	-	-	6,453	6,560	6,661	6,760	6,866	6,980	7,085	7,153	-	7,392	-	-	Azerbaijan
Kazakhstan	14,939	-	-	15,550	15,745	15,935	16,136	16,167	16,362	16,537	16,670	16,806	17,038	-	-	Kazakhstan
Kyrgyz Republic	3,630	-	-	3,857	3,937	4,014	4,093	4,173	4,250	4,327	4,395	4,453	4,493	4,500	-	Kyrgyz Republic
<i>Russian Fed. ('000,000s)</i>	<i>138.936</i>	-	-	-	-	-	-	-	-	-	-	<i>148.164</i>	-	-	-	<i>Russian Fed. ('000,000s)</i>
Tajikistan	3,967	-	-	4,298	4,428	4,567	4,719	4,874	5,027	5,175	5,303	5,465	5,562	-	-	Tajikistan
Turkmenistan	2,860	-	-	3,080	3,154	3,230	3,316	3,408	3,495	3,578	3,670	3,852	-	4,307	-	Turkmenistan
Uzbekistan	15,957	-	-	17,269	17,736	18,231	18,757	19,298	19,737	20,114	20,531	-	-	21,700	-	Uzbekistan
<b>PACIFIC COUNTRIES</b>																<b>PACIFIC COUNTRIES</b>
American Samoa	32	-	-	34	35	36	36	37	37	38	39	-	39	-	55	American Samoa
Cmn. Nth. Mariana Is.	-	-	17.3	17.9	19.6	27.7	30.5	33.5	36.9	40.6	44.6	49.1	54	-	59	Cmn. Nth. Mariana Is.
Cook Islands	19	-	17.4	17.4	17	17.2	17.1	17.1	17.7	17.9	18.4	18.5	18.7	-	19	Cook Islands
Fiji	662	675	689	699	708	713	634	647	717	721	726	732	740	747	755	Fiji
French Polynesia	147	-	-	165	170	174	179	183	188	193	206	207	207	-	217	French Polynesia
Guam	108	-	-	116	120	120	124	126	129	131	134	136	139	-	145	Guam
Kiribati	58	-	59.5	61	62.4	64.1	65.6	67.1	68.6	70.2	71.8	73.5	75.2	-	78	Kiribati
Marshall Islands	-	-	32.8	33.8	34.8	37.8	39.4	41.1	42.7	44.5	46.2	48	50	-	54	Marshall Islands
Micronesia, Fed. States of	-	-	82.4	85.3	88.2	94.1	96.8	99.6	102.5	105.4	108.5	111.6	114.8	-	107	Micronesia, Fed. States of
Nauru	7.9	8.1	8.4	8.1	8.2	8.5	8.7	8.9	9.1	9.2	9.4	9.6	9.8	-	10	Nauru
New Caledonia	142	-	-	145	148	151	154	160	164	167	170	173	177	-	182	New Caledonia
Niue	3.3	3.2	3.2	3	2.8	2.5	2.4	2.3	2.2	2.2	2.2	2.2	2.2	-	2	Niue
Palau	-	-	13.5	13.6	13.7	13.7	14	14.3	14.6	14.9	15.2	15.6	15.9	-	16	Palau
Papua New Guinea	3,086	-	3,110	3,185	3,261	3,337	3,407	3,482	3,557	3,630	3,699	3,772	3,847	-	4,246	Papua New Guinea
Samoa	157	-	157	158	159	159	160	161	162	163	164	165	165	-	163	Samoa
Solomon Islands	231	-	244	252	261	273	283	293	304	312	320	328	337	-	368	Solomon Islands
Tonga	96	-	94.7	95.5	96.4	97.3	94.5	95	95.6	96.1	96.6	97.1	97.4	-	99	Tonga
Tuvalu	6	-	7.8	8	8.1	8.2	8.3	8.5	8.6	8.8	9	9.1	9.3	-	10	Tuvalu
Vanuatu	118	-	120	123.8	127	129.3	132.7	136.3	139.6	143.4	146.8	150.9	154.5	-	165	Vanuatu
<b>DEVELOPED NATIONS</b>																<b>DEVELOPED NATIONS</b>
Australia	14,695	14,901	15,105	15,310	15,527	15,759	16,008	16,272	16,545	16,819	17,086	17,344	17,596	17,843	18,089	Australia
<i>Japan ('000,000s)</i>	<i>116.807</i>	<i>117.711</i>	<i>118.573</i>	<i>119.388</i>	<i>120.145</i>	<i>120.837</i>	<i>121.462</i>	<i>122.03</i>	<i>122.553</i>	<i>123.051</i>	<i>123.537</i>	<i>124.018</i>	<i>124.491</i>	<i>124.959</i>	<i>125.422</i>	<i>Japan ('000,000s)</i>
New Zealand	3,113	3,130	3,154	3,184	3,217	3,247	3,276	3,305	3,334	3,362	3,392	3,423	3,455	3,488	3,520	New Zealand

Notes: Source: UN/ESCAP population statistics.

For presentational purposes, large values have been expressed as millions rather than thousands. In these cases, entries are shown in italics.

## APPENDIX D

### TOTAL NUMBER OF REGISTERED MOTOR VEHICLES ('000s)<sup>(1)</sup>

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
<b>EAST/CENTRAL ASIA</b>																
PRC	3,803.4	4,436.8	5,061.7	5,677.3	6,616.4	8,360.5	9,316.15	10,610.3	11,902	13,185.3	14,762.7	16,576.6	19,450.3	23,316.4	27,355.8	EAST/CENTRAL ASIA
Hong Kong, China	299.395	330.309	339.567	327.803	311.87	300.561	300.995	322.29	347.402	376.153	405.407	437.769	471.221	503.509	-	PRC
DPR Korea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hong Kong, China
Republic of Korea	744.218	847.689	1,057.332	1,314.119	1,717.616	1,824.869	2,121.779	2,535.562	3,102.289	3,847.982	4,780.051	5,830.826	6,993.547	8,210.353	-	DPR Korea
Macao	15.4	18	19.6	21.2	22.1	22.3	24.3	24.5	26.3	28.7	31.1	-	-	-	-	Republic of Korea
Mongolia	-	-	-	-	-	-	-	37.422	35.642	36.001	-	-	39.737	-	-	Macao
Taipei,China	4,653.406	5,346.723	6,034.634	6,662.722	7,331.925	7,939.918	8,687.538	7,692.467	8,919.399	10,138.909	11,418.22	12,565.357	13,847.097	14,846.61	-	Mongolia
<b>SOUTHEAST ASIA</b>																
Brunei	54.507	62.047	67.804	77.68	86.772	95.425	100.888	105.973	110.747	118.113	126.556	134.902	144.159	-	-	SOUTHEAST ASIA
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Brunei
Indonesia	3,871.558	4,603.965	5,346.995	5,875.75	6,460.425	6,827.317	7,321.77	7,426.174	7,765.949	8,243.982	8,850.729	9,230.741	9,922.737	10,237.069	11,373.217	Cambodia
Lao PDR	25.293	-	-	-	-	40.866	45.104	50.009	55.825	85.015	84.099	95.836	104.039	113.899	134.334	Indonesia
Malaysia	2,323.574	2,855.177	3,187.07	3,545.784	3,898.895	4,190.195	4,406.087	4,544.446	4,727.127	5,014.176	5,400.934	5,847.034	6,245.991	6,627	-	Lao PDR
Myanmar	88	105.987	111.863	119.816	128.448	138.191	143.888	137.703	146.549	160.906	175.24	195.221	218.053	251.676	-	Malaysia
Philippines	1,111.433	1,006.03	1,087.18	1,200.803	1,165.557	1,120.172	1,185.632	1,176.753	1,210.483	1,431.464	-	1,715.366	1,879.563	2,125.115	-	Myanmar
Singapore	371.341	401.805	440.276	476.288	491.322	486.76	473.659	471.124	491.808	520.537	542.352	559.304	557.584	584.322	-	Philippines
Thailand	1,710.5	2,201.53	2,601.31	3,015.72	3,352.97	3,403.85	4,044.39	4,956.11	5,799.81	6,505.02	7,541.81	8,427.09	9,557.89	11,062.45	-	Singapore
Viet Nam	154.362	-	-	-	-	-	-	-	159.08	1,166.515	1,455.658	1,779.082	2,308.067	3,019.497	3,395.923	Thailand
<b>SOUTH ASIA</b>																
Afghanistan	-	79.7	73	70.9	59	57.5	55.9	55.8	56	56	56	55	75	-	-	SOUTH ASIA
Bangladesh	86.356	95.152	98.936	131.498	136.161	145.804	156.468	167.493	270.86	251.765	274.499	296.317	314.009	349.631	201.541	Afghanistan
Bhutan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bangladesh
India	4,990.06	5,782.99	6,466.07	7,480.7	8,460.93	9,539.17	10,563.8	12,517.7	14,717	16,557.1	18,704.9	21,374	23,507	25,299	-	Bhutan
Iran	211.386	158.393	128.973	193.65	221.607	204.9	91	96.91	50.478	45.364	48.884	41,138.197	4,318.3	4,488.008	4,640.694	India
Maldives	1.062	1.186	1.425	1.048	1.299	1.615	0.779	0.886	1.056	1.275	1.436	-	-	-	-	Iran
Nepal <sup>(2)</sup>	-	1.606	1.034	1.105	2.524	2.693	2.121	1.879	2.375	3.245	3.501	-	-	130	150	Islamic Republic of Iran
Pakistan	1,109.814	1,019.551	1,352.962	1,502.305	1,673.433	1,924.347	2,037.435	2,187.245	2,363.064	2,585.906	2,766.44	2,602.241	2,773.295	3,257.942	-	Maldives
Sri Lanka	278.055	307.75	339.924	371.966	406.017	452.39	484.964	497.523	534.449	612.402	710.4	781.296	864.518	-	-	Nepal <sup>(2)</sup>
<b>CENTRAL ASIAN REPS</b>																
Armenia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Armenia
Azerbaijan	-	-	-	-	-	-	-	431.068	442.094	463.165	466.389	468.375	-	-	-	Azerbaijan
Kazakhstan	-	-	-	-	-	-	-	-	-	-	-	-	1266.8	-	-	Kazakhstan
Kyrgyz Republic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Kyrgyz Republic
Russian Federation	-	-	-	-	-	20,900	21,400	22,400	23,200	23,600	23,300	24,200	24,500	27,200	-	Russian Federation
Tajikistan	-	-	-	-	-	-	-	-	-	-	17.6	18	18.2	13.8	-	Tajikistan
Turkmenistan	170.963	185.283	193.106	207.169	214.897	235.794	253.16	264.197	269.117	279.104	286.225	280.002	293.392	296.417	-	Turkmenistan
Uzbekistan	-	-	-	-	-	-	-	-	-	-	1,641.81	1,900.592	1,915.15	1,868.953	-	Uzbekistan
<b>PACIFIC COUNTRIES</b>																
American Samoa	2.7	3.5	3.1	3.3	3.8	4.5	-	-	-	-	-	-	5.3	-	-	American Samoa
Cmn. Nth. Mariana Is.	-	-	-	-	-	-	-	-	-	-	-	-	-	17.8	-	Cmn. Nth. Mariana Is.
Cook Islands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cook Islands
Fiji	38.9	43.1	46	53.7	56.8	59.7	65.6	67.1	68.2	75.3	80.1	83.9	87.8	90.1	-	Fiji
French Polynesia	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	French Polynesia
Guam	54.2	55.9	82.7	58.7	72.9	77	70	75.4	72.9	84.8	-	-	102	-	-	Guam
Kiribati	-	-	-	-	-	-	-	-	-	1.5	-	-	-	-	-	Kiribati
Marshall Islands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Marshall Islands
Micronesia, Fed. States of	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Micronesia, Fed. States of
Nauru	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Nauru
New Caledonia	-	54.3	56.8	58.2	60.4	60.1	63.1	65	68	72	73	-	75	-	-	New Caledonia
Niue	0.261	0.291	0.427	-	-	-	-	-	-	-	-	-	-	-	-	Niue
Republic of Palau	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Republic of Palau
Papua New Guinea	45.6	47.1	44.7	43.4	46.4	42.6	43.6	43.2	-	-	-	-	41.3	-	-	Papua New Guinea
Samoa	4	5.3	3.93	4.02	4.5	4.805	4.208	4.689	4.69	5.85	-	6.8	7.3	9.9	-	Samoa
Solomon Islands	0.975	1.148	2.785	-	-	3.425	3.676	-	-	-	-	-	-	-	-	Solomon Islands
Tonga	2.429	2.047	2.628	4.376	2.274	3.394	3.976	4.761	6.223	4.681	5.854	7.364	-	10.359	-	Tonga
Tuvalu	-	-	-	-	-	0.041	0.049	0.055	0.07	0.084	-	-	-	-	-	Tuvalu
Vanuatu	3.2	3.713	3.984	4.018	4.024	4.487	5.691	5.518	5.706	5.81	5.796	-	7.5	-	-	Vanuatu
<b>DEVELOPED NATIONS</b>																
Australia	7,731.6	8,086.3	8,521.8	8,763	9,002.4	9,286.2	9,459.5	9,543	9,715.3	9,977	10,256	10,060	10,423	10,613	-	DEVELOPED NATIONS
Japan	49,244	52,103	55,297	58,548	61,253	63,684	65,942	67,812	70,100	72,399	74,500	76,168	77,395	78,476	79,722	Australia
New Zealand	1,692.40	1,748.83	1,790.16	1,830.10	1,886.75	1,919.95	2,022.09	1,905.78	1,786.04	1,832.04	1,886.73	1,927.67	1,965.74	-	-	Japan
<b>Sources:</b> UN/ESCAP Questionnaire, 1980-1993. Country statistical yearbooks, various years. UN/ESCAP <i>Statistical Yearbook for Asia and the Pacific</i> .																
<b>Notes:</b> (1) The sum of motorcycles, cars, trucks, and buses, and other motorized vehicles from the previous tables, or data from other sources giving total motor vehicles. (2) Nepal: figures available up to 1990 are abnormally low. 1993 and 1994 values from an alternative source.																

## APPENDIX D

		TOTAL ROAD FATALITIES																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Death (1)		
EAST/CENTRAL ASIA																		EAST/CENTRAL ASIA	
PRC	21,818	22,499	22,164	23,944	25,251	40,906	50,063	53,439	54,814	50,441	49,243	53,204	58,723	63,508	66,362	7	PRC		
Hong Kong, China	402	474	453	340	322	309	310	280	301	346	321	315	328	351	-	30	Hong Kong, China		
DPR Korea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DPR Korea		
Republic of Korea	5,608	5,804	6,110	6,834	7,468	7,552	7,702	7,206	11,563	12,603	12,325	13,429	11,640	10,402	10,087	3	Republic of Korea		
Macao	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Macao		
Mongolia	-	-	-	-	-	-	182	221	209	245	351	374	-	-	-	-	Mongolia		
Taipei,China	4,039	3,840	3,596	3,392	3,540	3,564	4,139	4,373	4,190	3,930	3,910	3,305	2,717	2,349	-	1	Taipei,China		
SOUTHEAST ASIA																	SOUTHEAST ASIA		
Brunei	40	51	63	47	45	40	42	43	39	35	47	56	47	-	-	-	Brunei		
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cambodia		
Indonesia	11,456	11,105	10,805	10,862	10,881	10,283	10,692	10,809	10,456	10,726	10,887	10,610	9,819	10,038	11,004	1	Indonesia		
Lao PDR	-	-	-	-	-	80	92	79	65	-	99	105	152	166	200	-	Lao PDR		
Malaysia	2,568	2,769	3,266	3,523	2,951	2,379	2,358	2,240	2,354	3,090	3,345	3,514	3,263	3,651	-	30	Malaysia		
Myanmar	-	-	-	-	-	-	441	466	276	420	553	695	620	924	-	1	Myanmar		
Philippines	-	-	1,492	1,348	1,119	1,085	1,093	835	934	-	1,425	-	-	871	1,027	1	Philippines		
Singapore	259	275	307	298	327	265	251	205	226	232	236	243	240	258	254	30	Singapore		
Thailand	4,493	2,760	3,090	2,472	2,904	2,788	2,086	3,991	8,651	6,563	5,765	8,595	8,184	9,496	-	1	Thailand		
Viet Nam	2,221	2,982	1,938	2,050	2,017	2,048	2,278	2,516	2,477	2,112	2,087	2,395	2,069	3,940	4,533	7	Viet Nam		
SOUTH ASIA																	SOUTH ASIA		
Afghanistan	791	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Afghanistan		
Bangladesh	-	928	1,009	1,116	1,242	1,463	1,169	1,156	1,367	1,867	1,844	1,982	2,317	1,487	1,597	7	Bangladesh		
Bhutan	-	-	-	-	-	-	13	16	4	17	7	3	6	5	-	30	Bhutan		
India	24,600	27,333	30,067	32,800	35,100	39,200	40,000	44,400	46,600	50,700	54,100	56,500	59,400	-	-	30	India		
Iran	-	-	-	2,831	-	-	-	-	-	-	-	-	2,343	2,957	2,840	-	Iran		
Maldives	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Maldives		
Nepal	-	245	260	327	354	409	445	439	387	368	528	530	641	632	941	30	Nepal		
Pakistan	3,795	4,127	4,143	3,564	4,139	4,714	5,009	5,125	5,251	5,174	4,790	4,916	5,182	-	-	30	Pakistan		
Sri Lanka	1,106	1,247	1,257	1,365	1,310	1,311	1,286	1,226	1,386	1,596	1,795	1,271	1,343	1,599	-	30	Sri Lanka		
CENTRAL ASIAN REPS																	CENTRAL ASIAN REPS		
Armenia	394	379	370	461	430	429	412	404	399	725	721	633	519	318	-	-	Armenia		
Azerbaijan	891	954	853	832	825	819	998	974	1,088	1,090	1,264	1,281	1,265	1,152	-	7	Azerbaijan		
Kazakhstan	3,404	3,279	3,201	3,324	3,208	2,944	2,633	2,700	3,139	3,839	3,985	4,115	4,021	3,954	-	3	Kazakhstan		
Kyrgyz Republic	-	-	-	-	87	102	58	66	65	76	65	79	39	-	-	7	Kyrgyz Republic		
Russian Federation	-	-	-	-	-	-	-	-	-	-	35,366	37,522	36,471	37,120	-	7	Russian Federation		
Tajikistan	-	-	-	-	617	584	551	585	733	709	809	821	520	604	499	7	Tajikistan		
Turkmenistan	525	522	517	581	571	504	488	488	596	693	688	766	664	648	484	7	Turkmenistan		
Uzbekistan	2,477	2,436	2,449	2,594	2,590	2,440	2,418	2,462	2,654	2,930	3,166	3,184	2,688	2,153	2,032	7	Uzbekistan		
PACIFIC COUNTRIES																	PACIFIC COUNTRIES		
American Samoa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	American Samoa		
Cmn. Nth. Mariana Is.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cmn. Nth. Mariana Is.		
Cook Islands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Cook Islands		
Fiji	88	59	55	80	82	87	69	91	77	84	87	108	72	91	88	1 year	Fiji		
French Polynesia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	French Polynesia		
Guam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Guam		
Kiribati	-	-	10	8	22	18	8	14	-	-	-	-	-	-	-	-	Kiribati		
Marshall Islands	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Marshall Islands		
Micronesia, Fed. States of	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Micronesia, Fed. States of		
Nauru	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Nauru		
New Caledonia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	New Caledonia		
Niue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Niue		
Republic of Palau	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Republic of Palau		
Papua New Guinea	-	295	253	264	274	277	274	316	347	329	299	305	290	-	-	1	Papua New Guinea		
Samoa	11	19	18	22	10	13	9	13	14	18	18	15	9	10	-	3	Samoa		
Solomon Islands	4	-	2	4	6	5	5	-	-	-	-	-	-	-	-	-	Solomon Islands		
Tonga	7	6	5	13	7	8	8	10	6	11	11	15	16	6	-	-	Tonga		
Tuvalu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tuvalu		
Vanuatu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Vanuatu		
DEVELOPED NATIONS																	DEVELOPED NATIONS		
Australia	3,272	3,321	3,252	2,755	2,822	2,941	2,888	2,772	2,887	2,801	2,331	2,113	1,974	1,953	-	30	Australia		
Japan	8,760	8,719	9,073	9,520	9,262	9,261	9,317	9,347	10,344	11,086	11,227	11,105	11,451	10,942	10,649	1	Japan		
New Zealand	599	669	673	644	669	747	766	796	727	761	730	651	647	600	-	30	New Zealand		

Sources: UN/ESCAP Questionnaire, 1980-1993.  
Country statistical yearbooks, various years.  
UN/ESCAP *Statistical Yearbook for the Asian and Pacific Region*.

Note: (1) The international definition of death due to a road accident is death within 30 days of the accident. However, not all countries use this definition. This column in the table gives the definition where known. The number of deaths shown are the actual published figures. They can be adjusted to represent standardized 30-day deaths using the following European Union factors, for purposes of comparative analysis:

1 day	+ 3 percent
3 days	+ 15 percent
6 days	+ 9 percent
7 days	+ 8 percent
1 year	+ 3 percent

APPENDIX D

Country Data for Most Recent Year

Subregion	Year	GNP (US\$ billion)	Population ('000s)	Road Accident Casualties			Motor Vehicles ('000s)			Fatalities per 10,000 motor vehs	Severity Index	Fatalities per 100,000 population	Motor Vehs per 1,000 population
				Fatalities	Injuries	Total	Total	2/3 wh	percent 2/3 wh				
NIEs			74,397	155,661	323,880	339,541	25,755	13,966	54	6.1	5	21.1	346
Hong Kong, China	1993	104.7	5,845	351	20,558	20,909	504	27	5	7.0	2	6.0	86
Republic of Korea	1993	338.1	44,507	11,962	293,634	305,596	8,210	1,936	24	14.6	4	26.9	184
Singapore	1994	65.8	2,825	254	6,751	7,005	586	125	21	4.3	4	9.0	207
Taipei, China	1994	-	21,220	3,094	2,937	6,031	16,455	11,878	72	1.9	51	14.6	775
CENTRAL ASIA			1,245,662	76,582	154,734	231,316	28,659	10,952	38	26.7	33	6.1	23
People's Republic of China	1994	630.2	1,222,000	71,671	137,794	20,9465	27,356	10,938	40	26.2	34	5.9	22
Mongolia	1989	0.9	2,131	245	501	746	36	-	-	68.1	33	11.5	17
CENTRAL ASIAN REPUBLICS													
Kazakstan	1992	28.6	17,038	4,624	16,200	20,824	1,267	14	1	36.5	22	27.1	74
Kyrgyz Republic	1992	3.7	4,493	42	239	281	-	-	-	-	15	0.9	-
SOUTHEAST ASIA			419,373	44,123	117,303	161,426	36,039	23,515	65	12.2	27	10.5	86
Cambodia	1994	-	9,222	128	208	336	359	311	87	3.6	38	1.4	39
Indonesia	1994	167.6	198,055	14,305	18,002	32,307	11,373	7,788	68	12.6	44	7.2	57
Lao PDR	1994	1.5	4,742	200	3,479	3,679	134	109	81	14.9	5	4.2	28
Malaysia	1993	60.1	19,239	3,651	29,201	32,852	6,627	3,695	56	5.5	11	19.0	344
Myanmar	1993	-	44,613	1,201	-	-	252	69	27	47.7	-	2.7	6
Philippines	1988	37.7	59,627	1,214	10,783	11,997	1,210	281	23	10.0	10	2.0	20
Thailand	1994	129.9	57,586	19,729	43,541	63,270	12,940	8,248	64	15.2	31	34.3	225
Viet Nam	1994	13.8	70,902	4896	12,089	16,985	3,396	3,083	91	14.4	29	6.9	48
SOUTH ASIA			1,240,734	71,171	299,537	369,507	28,687	18,251	64	24.8	19	5.7	23
Afghanistan	1994	-	21,968	-	-	-	170	95	56	-	-	-	8
Bangladesh	1994	26.6	125,201	1,725	2,533	4,258	351	202	58	49.1	41	1.4	3
Bhutan	1992	0.3	1,611	6	14	20	14	5	36	4.3	30	0.4	9
India	1992	271.6	879,549	59,400	262,200	321,600	23,507	15,661	67	25.3	18	6.8	27
Maldives	1994	0.2	241	-	-	-	-	-	-	-	-	-	-
Nepal	1994	4.2	21,601	941	1,434	2,375	155	81	52	60.7	40	4.4	7
Pakistan	1993	53.3	128,057	6,299	14,753	21,052	3,258	1,568	48	19.3	30	4.9	25
Sri Lanka	1993	10.7	17,893	1,599	18,603	20,202	980	570	58	16.3	8	8.9	55
PACIFIC COUNTRIES			5,551	502	3,500	4002	163	5	3	30.8	13	9.0	29
Cook Islands	1994	-	19	-	-	-	-	-	-	-	-	-	-
Fiji	1993	1.6	747	88	1,165	1,253	90	4	4	9.8	7	11.8	120
Kiribati	1987	0.5	67	14	132	146	-	-	-	-	10	20.9	-
Marshall Islands	1994	-	54	-	-	-	-	-	-	-	-	-	-
Micronesia, Fed. States of	1994	-	107	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	1992	3.8	3,847	377	1,948	2,325	41	-	-	92.0	16	9.8	11
Samoa	1993	0.2	164	12	106	118	10	-	-	12.0	10	7.3	61
Solomon Islands	1986	0.3	283	5	84	89	4	-	-	12.5	6	1.8	14
Tonga	1993	0.2	98	6	65	71	10	1	10	6.0	8	6.1	102
Tuvalu	1994	-	10	-	-	-	-	-	-	-	-	-	-
Vanuatu	1992	0.2	155	-	-	-	8	-	-	-	-	-	52
DEVELOPED NATIONS			146,322	16,377	716,497	732,874	92,344	16,369	18	1.8	2	11.2	631
Australia	1993	310.0	17,843	1,953	21,473	23,426	10,613	292	3	1.8	8	10.9	595
Japan	1994	4,321.1	124,959	13,844	678,424	692,268	79,722	16,021	20	1.7	2	11.1	638
New Zealand	1994	46.6	3,520	580	16,600	17,180	2,009	56	3	2.9	3	16.5	571

# Road Safety Guidelines for the Asian and Pacific Region

The guidelines cover 14 individual sectors affecting road safety, with four introductory chapters and four appendices. Information is presented in a series of freestanding documents that can be extracted for distribution and discussion.

## Executive Summary

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- 4.1: Coordination and Management of Road Safety
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