



LATIN AMERICA AND THE CARIBBEAN: INVENTORY OF WATER  
RESOURCES AND THEIR USE

Volume I

MEXICO, CENTRAL AMERICA AND THE CARIBBEAN

Corrigenda

1. Page 5, table 1  
Replace entire table with attached new table 1.
2. Pages 120-121, table 8.1  
Replace entire table with attached new table 8.1.
3. Page 130, table 8.8  
Replace entire table with attached new table 8.8.
4. Pages 131-133, table 8.9  
Replace entire table with attached new table 8.9
5. Pages 141-142, table 9.1  
Replace entire table with attached new table 9.1.
6. Page 152, table 9.8  
Replace entire table with attached new table 9.8.
7. Pages 153-155, table 9.9  
Replace entire table with attached new table 9.9.



Table 1

## LATIN AMERICA AND THE CARIBBEAN: DISTRIBUTION OF HUMAN ACTIVITY BY MAJOR HYDROGRAPHIC SYSTEM

Hydrographic system	Area km <sup>2</sup>	Population 1960	Population 1970	Population 1980	Density 1980	Annual avg. percentage increase (1960-1980)	GDP 1980 (millions of dollars)	GDP 1985 (millions of dollars)	Agric.	% GDP Indus.	Serv.
<b>CENTRAL AMERICA &amp; THE CARIBBEAN</b>											
California	471 473	2 820 032	4 132 946	5 739 565	12.17	3.62	15 100.8	16 620.4	16.2	20.9	63.0
Caribbean	646 213	16 760 322	22 245 028	28 241 894	43.70	2.64	32 857.4	36 332.2	22.5	24.8	52.6
Caribbean Islands	230 789	20 328 660	24 430 255	30 044 411	130.18	1.97	55 517.0	63 565.5	12.7	33.7	53.6
Gulf of Mexico	474 552	19 724 062	28 113 599	39 783 373	83.83	3.57	109 288.7	120 005.2	8.5	35.4	56.1
North Pacific	328 406	8 121 876	10 618 230	13 820 162	42.08	2.69	26 095.6	28 673.9	19.6	21.8	58.6
Northern Endorheic, Mexico	140 840	699 272	919 139	1 143 122	8.12	2.49	2 807.6	3 090.2	19.5	27.6	52.8
Rio Bravo	214 096	1 621 683	2 243 483	3 112 607	14.54	3.31	10 672.9	11 747.0	8.5	44.0	47.5
Southern Endorheic, Mexico	236 637	2 257 220	2 829 615	3 727 082	15.75	2.54	8 493.3	9 348.0	35.4	23.9	40.7
Yucatan	141 523	832 437	1 098 061	1 710 271	12.08	3.67	3 518.4	3 872.4	17.0	26.6	56.4
<b>SOUTH AMERICA</b>											
Amazonas	6 157 253	10 414 471	13 684 801	18 416 972	2.99	2.89	19 242.7	19 924.1	22.9	22.1	55.0
Central Chile	116 002	5 466 021	6 809 934	8 324 396	71.76	2.13	18 245.3	18 022.3	7.6	36.8	55.6
Central Venezuela	142 419	4 356 758	6 346 751	8 661 137	60.81	3.50	30 562.5	28 189.1	7.0	29.8	63.2
Guayanas	468 235	895 431	1 149 533	1 186 631	2.53	1.42	1 702.0	1 655.0	14.8	35.3	49.9
Endorheic, Argentina	706 869	3 923 597	4 405 305	5 333 450	7.55	1.55	11 556.8	10 127.7	19.4	27.8	52.8
Maracaibo	101 688	2 450 814	3 296 334	4 114 182	40.46	2.62	12 062.3	11 265.3	8.2	29.3	62.5
North-east Brazil	881 361	12 415 643	15 647 407	19 175 848	21.76	2.20	13 284.2	14 466.3	18.2	16.0	65.8
Orinoco	1 116 599	3 490 445	4 475 929	5 646 580	5.06	2.43	12 278.3	12 069.5	19.0	27.1	53.9
Pacific: Arid Climate	590 419	6 630 031	9 575 465	12 795 372	21.67	3.34	19 070.3	18 977.5	10.7	41.5	47.8
Pacific: Tropical Climate	348 495	12 920 865	17 413 221	21 762 159	62.45	2.64	26 547.9	28 283.2	28.8	22.9	48.3
Pampa	621 207	2 347 099	2 887 705	3 666 148	5.90	2.25	9 896.1	8 672.4	14.9	45.8	39.3
Patagonia	487 645	201 851	285 909	402 784	0.83	3.51	1 691.3	1 482.1	14.5	49.6	35.9
Plate	3 878 926	42 987 903	56 231 529	70 061 929	18.06	2.47	204 115.6	207 430.0	11.3	37.1	51.6
Sao Francisco	617 778	10 758 761	13 051 100	15 607 537	25.26	1.88	20 445.7	22 265.0	17.6	21.7	60.7
South Atlantic	795 875	16 634 026	20 799 476	30 500 661	38.32	3.08	73 943.9	80 471.3	9.5	26.9	63.6
South Pacific	343 471	1 405 130	1 564 822	1 736 796	5.06	1.07	2 698.6	2 664.7	27.0	18.0	55.0
Titicaca	112 501	753 130	912 488	1 089 602	9.69	1.86	671.3	619.0	17.7	34.6	47.7
<b>TOTAL LATIN AMERICA</b>	<b>20 371 272</b>	<b>211 217 540</b>	<b>275 168 065</b>	<b>355 804 671</b>	<b>17.47</b>	<b>2.64</b>	<b>742 366.5</b>	<b>779 839.3</b>			

**Sources:**

GDP 1980 and 1985: ECLAC, Statistics Division, national accounts (computer printout), 1988.  
 GDP Caribbean Islands and Guayanas: United Nations, National Accounts Statistics: Analysis of Main Aggregates, 1982 (ST/ESA/STAT/SER.X/2), New York, 1985, Sales No. E.85.XVII.4.  
 Population and Area: National censuses and United Nations Statistical Yearbook. Structure of GDP: ECLAC and national reports.  
 GDP by sector: Economic Commission for Latin America (ECLA), Distribución regional del producto interno bruto sectorial en los países de América Latina, Cuadernos Estadísticos de la CEPAL series, No. 6, (E/CEPAL/G.1115), Santiago, Chile, 1981.

**Notes:**

1. Year for the structure of GDP by country: Argentina 1968/Brazil 1980/Chile 1980/Colombia 1975/Ecuador 1965/Panama 1968/Peru 1980/Mexico 1980/Uruguay 1961.
2. The regional distribution of GDP for Bolivia, Costa Rica, Guatemala, Honduras, Nicaragua and Venezuela has been calculated in proportion to the distribution of population in 1980 by administrative region, and the base of national GDP.

Table 8.1

CARIBBEAN HYDROGRAPHIC SYSTEM: DISTRIBUTION OF MEAN MONTHLY PRECIPITATION  
AND TEMPERATURES AT SELECTED CITIES (SEE MAP 8.1)

City <u>a/</u> <u>b/</u> <u>c/</u>	Months <u>d/</u>											
	J	F	M	A	M	J	J	A	S	O	N	D
BARRANQUILLA, Colombia (30) 10°54'N-74°46'W Altitude: 14 m mmp (map: 846 mm) mmt (mat: 28.1°C) Climate: Aw												
	1	0	1	11	87	103	54	102	138	202	82	65
	26.8	26.9	27.4	28.4	28.9	28.7	28.7	28.9	28.6	28.2	28.1	28.0
BOGOTA, Colombia (86) 04°42'N-74°08'W Altitude: 2 547 m mmp (map: 989 mm) mmt (mat: 13.2°C) Climate: Cf												
	52	55	88	124	108	58	49	50	58	151	122	74
	12.8	13.2	13.7	13.7	13.7	13.2	12.9	12.9	12.8	12.9	13.1	13.1
MEDELLIN, Colombia (30) 06°13'N-75°36'W Altitude: 1 498 m mmp (map: 1 325 mm) mmt (mat: 21.4°C) Climate: Aw												
	41	49	75	147	178	112	105	133	129	160	114	82
	21.2	21.7	21.7	21.8	21.7	21.7	21.5	21.5	21.3	21.1	21.1	20.9
BELICE City, Colombia (39) 17°30'N-88°11'W Altitude: 5 m mmp (map: 1 866 mm) mmt (mat: 25.9°C) Climate: Af												
	136	63	38	51	105	205	163	168	235	307	209	185
	23.5	24.2	25.5	26.7	27.3	27.3	27.2	27.6	27.2	26.1	24.4	23.6

Source: United Nations Food and Agriculture Organization (FAO), Datos Agroclimatológicos para América Latina y el Caribe, Rome, 1985.

a/ The number in parentheses beside the name of the country indicates the length of time such records have been kept, in years.

b/ The meanings of the abbreviations used in this column are:

- Af: tropical jungle climate
- Aw: tropical savanna climate
- Cf: temperate climate, constantly wet
- map: mean annual precipitation
- mmp: mean monthly precipitation
- mat: mean annual temperature
- mmt: mean monthly temperature

c/ Cities are listed in ascending order of mean annual precipitation (map).

d/ Mean monthly precipitation (mmp) is expressed in millimetres (mm). Mean monthly temperatures (mmt) are expressed in Centigrade degrees (°C).

Table 8.8

CARIBBEAN HYDROGRAPHIC SYSTEM: CITIES HAVING POPULATIONS  
OVER 100 000 AS OF 1980

River or body of water	City	Population				Administrative division
		1950	1960	1970	1980	
(Colombia)						
Bogotá	Bogotá	715 250	1 661 935	2 557 461	3 974 813	Bogotá Federal District
Cauca	Armenia	78 380	125 022	135 415	180 221	Quindío
Cauca	Cali	284 186	618 215	901 714	1 323 944	Valle
Cauca	Palmira	80 957	106 502	140 481	175 186	Valle
Chinchina	Manizales	126 201	190 036	199 517	275 067	Caldas
Combeima	Ibagué	98 695	125 233	182 425	269 495	Tolima
Guatapuri	Valledupar	26 442	43 553	87 953	142 771	César
Lebrija	Bucaramanga	112 252	216 821	270 332	341 513	Santander
Magdalena	Barrancabermeja	35 493	59 625	87 191	137 406	Santander
Magdalena	Barranquilla	279 627	493 034	664 811	896 649	Atlántico
Magdalena	Neiva	50 494	75 886	105 551	178 130	Huila
Caribbean Sea	Cartagena	128 877	217 910	291 428	491 368	Bolívar
Caribbean Sea	Santa Marta	47 354	89 161	103 426	177 922	Magdalena
Medellín	Medellín	358 189	717 865	1 053 964	1 418 554	Antioquia
Otún	Pereira	115 342	147 487	172 302	233 271	Risaralda
Sinú	Montería	77 057	70 531	93 304	157 466	Córdoba
(Guatemala)						
Las Vacas	Guatemala	284 276	572 671	700 504	855 736	Guatemala
(Honduras)						
Chamelecón	San Pedro Sula	21 139	58 632	102 516	259 000	Cortés
(Nicaragua)						
Lake Managua	Managua		234 580	398 514	853 000	Managua

Source: James W. Wilkie and Stephen Haber (ed.), Statistical Abstract of Latin America, vol. 21, Los Angeles, UCLA Latin American Center Publications, University of California, 1981, and ECLAC on the basis of official data.

Table 8.9 (concl.)

Administrative division	Area (km <sup>2</sup> )	1960		1970		1980	
		Population	Density	Population	Density	Population	Density
(Panamá) <sup>b/</sup>							
Bocas del Toro	8 917	32 600	3.7	43 531	4.9	53 487	6.0
Colón	7 465	85 332	11.4	109 605	14.7	137 997	18.5
Total - Panamá	: 16 382	117 932	7.2	153 136	9.3	191 484	11.7
Total - Hydrographic system	: 646 213	16 760 322	25.9	22 245 028	34.4	28 241 894	43.7

Source: Organization of American States (OAS), and Inter-American Statistical Institute (IASI), América en cifras, 1974. Situación demográfica: Estado y movimiento de la población, Washington D.C., OAS General Secretariat, 1974, and national censuses.

Note: The figures appearing under the headings 1960, 1970 and 1980 actually correspond to the census dates given for each country.

a/ The figures given for population and density for 1960 and 1970 are estimates. Date of census in Belize: 12/05/80.

b/ Dates of censuses: Colombia: 15/07/64, 24/10/73, 1985; Costa Rica: 31/03/63, 14/05/73, 10/06/84; Guatemala: 18/04/64, 26/03/73, 26/03/81; Honduras: 17/04/61, 06/03/74, 30/06/80 (estimates as of date shown); Nicaragua: 25/04/63, 20/04/71, estimates; Panama: 11/12/60, 10/05/70, 11/05/80.

Table 8.9 (cont. 1)

Administrative division	Area (km <sup>2</sup> )	1960		1970		1980	
		Population	Density	Population	Density	Population	Density
<b>(Guatemala)</b>							
Petén	21 512	15 937	0.7	38 468	1.8	79 156	3.7
Quiché	838	24 994	29.8	29 869	35.7	32 818	39.2
Sacatepéquez	465	80 942	174.1	99 988	215.0	121 127	260.5
Solola	987	100 274	101.6	118 359	120.0	143 452	145.4
Totonicapán	371	49 620	133.6	58 383	157.2	71 547	192.7
Zacapa	2 690	96 554	35.9	105 739	39.3	115 712	43.0
<hr/>							
Total - Guatemala :	49 361	1 143 173	30.5	1 368 659	38.2	1 610 388	45.0
<b>(Honduras) b/</b>							
Atlántida	4 251	92 914	21.9	148 285	34.9	214 102	50.4
Colón	8 875	41 904	4.7	77 750	8.8	113 864	12.8
Comayagua	5 196	96 442	18.6	136 619	26.3	191 111	36.8
Copán	3 203	126 183	39.4	151 859	47.4	201 172	62.8
Cortés	3 954	200 099	50.6	369 616	93.5	542 693	137.3
El Paraíso	5 053	74 776	14.8	98 555	19.5	132 486	26.2
Francisco Morazán	4 768	90 212	18.9	132 793	27.9	138 281	29.0
Gracias a Dios	16 630	10 905	0.7	20 738	1.2	31 084	1.9
Intibuca	1 536	36 569	23.8	40 908	26.6	52 364	34.1
Islas de La Bahía	261	8 961	34.4	13 194	50.6	17 472	67.0
La Paz	932	24 240	26.0	26 418	28.3	33 134	35.5
Lempira	1 930	50 196	26.0	57 502	29.8	73 839	38.3
Ocotepeque	840	26 270	31.3	25 519	30.4	31 077	37.0
Olancho	24 351	110 744	4.5	151 436	6.2	206 775	8.5
Santa Bárbara	5 115	146 909	28.7	186 106	36.4	259 769	50.8
Yoro	7 939	130 547	16.4	195 037	24.6	271 430	34.2
<hr/>							
Total - Honduras :	94 834	1 267 871	13.4	1 832 335	19.3	2 510 653	26.5
<b>(Nicaragua) b/</b>							
Boaco	4 271	71 615	16.8	70 850	16.6	96 299	22.5
Chontales	4 947	75 575	15.3	69 530	14.1	109 626	22.2
Estelí	2 173	69 257	31.9	78 630	36.2	111 775	51.4
Granada	992	65 643	66.2	73 150	73.7	123 872	124.9
Jinotega	9 640	76 935	8.0	92 340	9.6	136 510	14.2
Madriz	1 612	50 229	31.2	53 560	33.2	78 223	48.5
Managua	2 189	207 237	94.7	313 690	143.3	536 310	245.0
Masaya	690	76 580	111.0	94 200	136.5	163 245	236.6
Matagalpa	6 929	171 465	24.7	172 180	24.8	257 095	37.1
Nueva Segovia	3 594	45 900	12.8	66 650	18.5	128 152	35.7
Río San Juan	7 402	15 676	2.1	20 250	2.7	32 702	4.4
Zelaya	60 035	88 963	1.5	148 830	2.5	296 263	4.9
<hr/>							
Total - Nicaragua :	104 474	1 015 075	10.7	1 253 860	13.5	2 070 072	22.3

Table 8.9

## CARIBBEAN HYDROGRAPHIC SYSTEM: DEMOGRAPHIC DATA BY ADMINISTRATIVE DIVISION

Administrative division	Area (km <sup>2</sup> )	1960		1970		1980	
		Population	Density	Population	Density	Population	Density
(Belize) a/	22 963	91 000	4.0	109 771	4.8	142 847	6.2
Total - Belize :	22 963	91 000	4.0	109 771	4.8	142 847	6.2
(Colombia) b/							
Antioquía	63 612	2 477 299	38.9	3 176 695	49.9	3 888 067	61.1
Atlántico	3 388	717 406	211.7	1 028 934	303.7	1 428 601	421.7
Bogotá Federal District	1 587	1 697 311	1 069.5	2 861 913	1 803.3	3 982 941	2 509.7
Bolívar	25 978	694 853	26.7	980 606	37.7	1 197 623	46.1
Caldas	7 888	712 916	90.4	744 221	94.3	838 094	106.2
Cauca	11 723	242 879	20.7	286 742	24.5	318 335	27.2
César	22 905	260 917	11.4	470 055	20.5	584 631	25.5
Chocó	27 918	109 118	3.9	150 734	5.4	145 661	5.2
Córdoba	25 020	585 714	23.4	744 424	29.8	913 636	36.5
Cundinamarca	11 312	561 107	49.6	588 002	52.0	691 180	61.1
Guajira	20 848	147 140	7.1	249 637	12.0	255 310	12.2
Huila	19 890	416 289	20.9	486 853	24.5	647 756	32.6
Magdalena	23 188	528 493	22.8	720 902	31.1	769 141	33.2
Quindío	1 845	305 745	165.7	353 868	191.8	377 860	204.8
Risaralda	4 140	437 210	105.6	498 609	120.4	625 451	151.1
Santander	15 269	500 607	32.8	616 788	40.4	719 113	47.1
Sucre	10 917	311 494	28.5	412 047	37.7	529 059	48.5
Tolima	23 562	841 424	35.7	957 193	40.6	1 051 852	44.6
Valle	13 284	1 039 832	78.3	1 435 629	108.1	1 708 252	128.6
Total - Colombia :	334 273	12 587 752	36.4	16 763 851	47.9	20 672 563	58.6
(Costa Rica) b/							
Alajuela	9 025	228 638	25.3	309 730	34.3	406 564	45.0
Cartago	2 600	155 433	59.8	204 699	78.7	271 671	104.5
Heredia	2 900	85 063	29.3	133 844	46.2	197 575	68.1
Limón	9 400	68 385	7.3	115 143	12.2	168 076	17.9
Total - Costa Rica :	23 925	537 519	22.5	763 416	32.0	1 043 886	43.7
(Guatemala) b/							
Alta Verapaz	5 212	156 299	30.0	168 314	32.3	193 205	37.1
Chimaltenango	1 781	146 838	82.4	174 937	98.2	207 053	116.3
Chiquimula	2 376	149 752	63.0	158 177	66.6	168 863	71.1
El Progreso	1 922	65 582	34.1	73 122	38.0	81 188	42.2
Guatemala	106	40 543	381.4	55 409	521.3	65 560	616.7
Izabal	9 038	116 685	12.9	169 818	18.8	194 618	21.5
Jalapa	2 063	99 153	48.1	118 074	57.2	136 091	66.0

Table 9.1

TROPICAL PACIFIC HYDROGRAPHIC SYSTEM: DISTRIBUTION OF MEAN MONTHLY  
PRECIPITATION AND TEMPERATURES AT SELECTED CITIES (SEE MAP 9.1)

City a/ b/ c/	Months d/											
	J	F	M	A	M	J	J	A	S	O	N	D
GUAYAQUIL, Ecuador (30) 02°09'S-79°53'W Altitude: 9 m mmp (map: 936 mm) mmt (mat: 24.9°C) Climate: Aw	191	229	250	173	46	10	4	7	1	2	4	19
	25.5	26.0	26.4	26.3	25.6	24.4	23.5	23.2	23.8	24.0	24.6	25.4
MANAGUA, Nicaragua (28) 12°07'N-86°11'W Altitude: 53 m mmp (map: 1 184 mm) mmt (mat: 27.3°C) Climate: Aw	3	1	3	11	147	211	136	110	216	292	44	10
	26.3	27.2	28.6	29.3	29.4	27.2	26.9	27.2	26.9	26.5	26.3	26.1
QUITO, Ecuador (74) 00°09'S-78°29'W Altitude: 2 811 m mmp (map: 1 185 mm) mmt (mat: 14.8°C) Climate: Cwb	114	127	150	171	122	47	20	23	77	125	108	101
	15.0	15.0	15.0	14.7	14.7	14.5	14.5	15.0	15.0	15.0	14.7	15.0
SAN JOSE, El Salvador (30) 13°55'N-90°49'W Altitude: 2 m mmp (map: 1 435 mm) mmt (mat: 27.6°C) Climate: Aw	-	1	6	27	107	283	227	223	274	245	38	4
	25.8	26.5	27.7	28.8	28.8	28.3	28.2	28.1	27.6	27.4	27.4	26.7
SAN SALVADOR, El Salvador (66) 13°43'N-89°10'W Altitude: 680 m mmp (map: 1 781 mm) mmt (mat: 23.3°C) Climate: Aw	6	5	9	54	187	318	307	297	314	235	38	10
	22.4	22.8	23.8	24.4	24.3	23.5	23.6	23.6	23.1	22.9	22.6	22.5
SAN JOSE, Costa Rica (88) 09°56'N-84°05'W Altitude: 1 171 m mmp (map: 1 868 mm) mmt (mat: 20.5°C) Climate: Aw	11	4	13	44	221	269	213	240	325	332	149	46
	19.2	19.4	20.4	21.1	21.4	20.4	20.7	21.0	21.0	20.7	20.1	19.7

Table 9.1 (concl.)

City <u>a/</u> <u>b/</u> <u>c/</u>	Months <u>d/</u>											
	J	F	M	A	M	J	J	A	S	O	N	D
SAN LORENZO, Ecuador (30)												
01°15'N-78°49'W												
Altitude: 6 m												
mmp (map: 2 548 mm)	255	288	294	347	236	290	204	115	114	126	86	143
mmt (mat: 25.8°C)	25.6	26.1	26.3	26.2	26.1	25.8	25.5	25.4	25.6	25.6	25.5	25.5
Climate: Af												
SANTIAGO, Panama (30)												
08°05'N-80°57'W												
Altitude: 80 m												
mmp (map: 2 659 mm)	33	22	20	116	344	315	255	372	377	465	269	71
mmt (mat: 26.7°C)	26.3	27.0	27.8	28.1	27.2	26.7	26.6	26.5	26.3	26.1	26.2	26.0
Climate: Aw												
TEGUCIGALPA, Honduras (31)												
14°03'N-87°13'W												
Altitude: 1 006 m												
mmp (map: 920 mm)	11	5	9	29	152	164	88	95	182	133	39	13
mmt (mat: 21.7°C)	19.5	20.6	21.8	23.2	23.5	23.4	22.5	22.7	22.9	21.9	20.8	19.8
Climate: Af												

Source: United Nations Food and Agriculture Organization (FAO), Datos Agroclimatológicos para América Latina y el Caribe, Rome, 1985.

a/ The number in parentheses beside the name of the country indicates the length of time such records have been kept, in years.

b/ The meanings of the abbreviations used in this column are:

Af: tropical jungle climate

Aw: tropical savanna climate

Cwb: mesothermal temperate climate, dry season in winter

map: mean annual precipitation

mmp: mean monthly precipitation

mat: mean annual temperature

mmt: mean monthly temperature

c/ Cities are listed in ascending order of mean annual precipitation (map).

d/ Mean monthly precipitation (mmp) is expressed in millimetres (mm). Mean monthly temperatures (mmt) are expressed in Centigrade degrees (°C).

Table 9.8

## TROPICAL PACIFIC HYDROGRAPHIC SYSTEM: CITIES HAVING POPULATIONS OVER 100 000 AS OF 1980

River or body of water	City	Population				Administrative division
		1950	1960	1970	1980	
(Colombia)						
Guevara	Pasto	81 103	82 546	120 298	197 407	Nariño
Pacific Ocean	Buenaventura	54 973	70 079	115 770	160 342	Valle
(Costa Rica)						
Torres	San José	86 909	168 938	211 176	259 126	San José
(Ecuador)						
Guayas	Guayaquil	266 637	515 489	827 490	1 204 532	Guayas
Guayllabamba	Quito	226 547	371 027	624 094	890 355	Pichincha
(El Salvador)						
...	Santa Ana			176 646	417 000	
Acelhuate	San Salvador	161 951	255 744	368 686	915 000	San Salvador
(Honduras)						
Grande	Tegucigalpa	72 385	134 075	232 276	425 800	Francisco Morazán
(Panama)						
Pacific Ocean	Panama City	127 874	273 440	411 996	452 000	Panama

Source: Jame W. Wilkie and Stephen Haber (eds.), Statistical Abstract of Latin America, vol. 21, Los Angeles, UCLA Latin American Center Publications, University of California, 1981, and ECLAC, on the basis of official data.

Table 9.9

## TROPICAL PACIFIC HYDROGRAPHIC SYSTEM: DEMOGRAPHIC DATA BY ADMINISTRATIVE DIVISION

Administrative division	Area (km <sup>2</sup> )	1960		1970		1980	
		Population	Density	Population	Density	Population	Density
<b>(Colombia) a/</b>							
Cauca	17 585	364 318	20.7	430 113	24.5	477 503	27.2
Chocó	18 612	72 745	3.9	100 489	5.4	97 107	5.2
Nariño	33 268	705 611	21.2	882 389	26.5	1 019 098	30.6
Valle	8 856	693 221	78.3	957 086	108.1	1 138 835	128.6
Total Colombia	: 78 321	1 835 896	24.6	2 370 077	32.3	2 732 543	37.4
<b>(Costa Rica) a/</b>							
Alajuela	475	12 034	25.3	16 302	34.3	21 398	45.0
Guanacaste	10 400	142 555	13.7	178 691	17.2	195 208	18.8
Puntarenas	11 311	156 508	13.8	218 208	19.3	265 883	23.5
San José	4 900	487 658	99.5	695 163	141.9	890 434	181.7
Total Costa Rica	: 27 086	798 755	28.5	1 108 364	39.3	1 372 923	49.3
<b>(Ecuador) a/</b>							
Azuay	7 701	274 642	35.7	367 324	47.7	442 019	57.4
Bolívar	3 254	139 612	42.9	144 593	44.4	152 101	46.7
Cañar	3 908	112 733	28.8	146 570	37.5	174 510	44.7
Carchi	3 699	94 649	25.6	120 857	32.7	127 779	34.5
Chimborazo	5 637	286 212	50.8	304 316	54.0	341 874	60.6
Cotopaxi	5 287	192 704	36.4	236 313	44.7	277 678	52.5
Esmeraldas	15 216	124 881	8.2	203 151	13.4	249 008	16.4
Guayas	20 902	979 223	46.8	1 512 333	72.4	2 038 454	97.5
Imbabura	4 986	174 039	34.9	216 027	43.3	247 287	49.6
Los Ríos	6 254	250 062	40.0	383 432	61.3	455 869	72.9
Manabí	18 400	612 542	33.3	817 966	44.5	906 676	49.3
Pichincha	16 599	587 835	35.4	988 306	59.5	1 382 125	83.3
Tungurahua	2 896	213 932	73.9	279 920	96.7	326 777	112.8
Total Ecuador	: 114 739	4 043 066	35.2	5 721 108	49.9	7 122 157	62.1

Table 9.9 (cont.1)

Administrative division	Area (km <sup>2</sup> )	1960		1970		1980	
		Population	Density	Population	Density	Population	Density
(El Salvador) <u>a/</u>	18 163	2 176 845	119.9	3 087 144	170.0	3 940 177	216.9
Total El Salvador :	18 163	2 176 845	119.9	3 087 144	170.0	3 940 177	216.9
(Guatemala) <u>a/</u>							
Chimaltenango	198	16 315	82.4	19 438	98.2	23 006	116.3
Escuintla	4 384	270 267	61.6	277 031	63.2	334 666	76.3
Guatemala	2 020	770 315	381.4	1 052 777	521.3	1 245 632	616.7
Jutiapa	3 219	194 774	60.5	233 232	72.5	251 068	78.0
Quetzaltenango	1 951	270 916	138.9	312 787	160.3	366 949	188.1
Retalhuleu	1 856	117 562	63.3	127 235	68.6	150 923	81.3
Santa Rosa	2 955	157 040	53.1	177 159	60.0	194 168	65.7
Solola	74	7 548	101.6	8 909	120.0	10 797	145.4
Suchitepéquez	2 510	186 634	74.4	202 253	80.6	237 554	94.6
Total Guatemala :	19 167	1 991 371	103.4	2 410 820	125.2	2 814 764	146.6
(Honduras) <u>a/</u>							
Choluteca	4 211	149 175	35.4	193 336	45.9	264 328	62.8
El Paraíso	2 165	32 047	14.8	42 238	19.5	56 780	26.2
Francisco Morazán	3 178	194 216	61.1	320 804	100.9	517 988	163.0
Intibuca	1 536	36 569	23.8	40 908	26.6	52 364	34.1
La Paz	1 398	36 360	26.0	39 628	28.3	49 702	35.5
Lempira	2 359	61 350	26.0	70 280	29.8	90 248	38.3
Ocotepeque	840	26 270	31.3	25 519	30.4	31 077	37.0
Valle	1 565	80 907	51.7	91 901	58.7	117 909	75.3
Total Honduras :	17 254	616 894	35.8	824 613	47.8	1 180 394	68.4
(Nicaragua) <u>a/</u>							
Carazo	1 097	65 888	60.1	71 810	65.5	92 326	84.2
Chinandega	4 789	128 624	26.9	158 210	33.0	264 034	55.1
León	5 243	150 051	28.6	166 270	31.7	246 348	47.0
Managua	1 179	111 589	94.7	168 910	143.3	288 783	245.0
Rivas	2 190	64 361	29.4	75 630	34.5	96 417	44.0
Total Nicaragua :	14 498	520 513	43.6	640 830	57.2	987 908	91.3

Table 9.9 (concl.)

Administrative division	Area (km <sup>2</sup> )	1960		1970		1980	
		Population	Density	Population	Density	Population	Density
(Panama) <sup>a/</sup>							
Chiriquí	8 758	188 350	21.5	236 154	27.0	287 350	32.8
Coclé	5 035	93 156	18.5	118 003	23.4	140 903	28.0
Darién	16 803	19 715	1.2	22 685	1.4	26 524	1.6
Herrera	2 427	61 672	25.4	72 549	29.9	81 963	33.8
Los Santos	3 867	70 554	18.2	72 380	18.7	70 261	18.2
Panama	11 292	372 393	33.0	576 645	51.1	831 048	73.6
Veraguas	11 086	131 685	11.9	151 849	13.7	173 245	15.6
Total Panama	: 59 268	937 525	15.8	1 250 265	21.1	1 611 294	27.2
Total - Hydrographic system	: 348 495	12 920 865	37.1	17 413 221	50.0	21 762 159	62.4

**Source:** Organization of American States (OAS) and Inter-American Statistical Institute (IASI), América en cifras, 1974. Situación demográfica: estado y movimiento de la población, Washington D.C., OAS General Secretariat, 1974, and national censuses.

**Note:** The figures appearing under the headings 1960, 1970 and 1980 actually correspond to the census dates given for each country.

<sup>a/</sup> Dates of censuses: Colombia: 15-07-64, 24-10-73, 1985; Costa Rica: 31-03-63, 14-05-73, 10-06-84; Ecuador: 25-11-62, 08-06-74, 28-11-82; El Salvador: 02-05-61, 28-06-71, 31-12-78 (estimates as of date shown); Guatemala: 18-04-64, 26-03-73, 26-03-81; Honduras: 17-04-61, 06-03-74, 30-06-80 (estimates as of date shown); Nicaragua: 25-04-63, 20-04-71, estimates; Panama: 11-12-60, 10-05-70, 11-05-80.



