

Table 2-1 ESTIMATION OF GROUNDWATER RECHARGE BY WRR

Water Resources Region (WRR)	Area (km ²)	Average Rainfall (mm/year)	Estimated Storage		Estimated Inflow (MCM/year)	
			(mm)	(MCM/year)	Gross	Net
WRR I	14,103	2,878	4,620	66,528	4,144	2,072
WRR II	37,986	2,082	11,850	170,640	7,186	3,592
WRR III	23,546	1,832	54,700	787,680	7,186	3,592
WRR IV	47,475	1,250	37,000	532,800	8,137	4,068
WRR V	17,631	1,750	8,625	124,200	4,130	2,065
WRR VI	20,223	2,500	55,242	795,485	5,050	2,525
WRR VII	14,952	1,277	2,053	29,563	2,235	1,111
WRR VIII	21,532	2,800	8,400	120,960	5,712	2,856
WRR IX	18,740	1,774	14,700	211,680	3,605	1,802
WRR X	28,018	2,277	15,950	229,680	5,805	2,902
WRR XI	24,224	2,645	12,635	181,944	6,525	3,262
WRR XII	29,962	1,747	36,000	518,400	6,482	3,241
Total	298,393	2,124	24,680	3,769,560	66,197	33,038

Data Source: Groundwater in the Philippines (1980)

Table 2-2 ESTIMATION OF GROUNDWATER RECHARGE BY MAJOR RIVER BASIN

Water Resources Region (WRR)	River Basin	Area (km ²)	Average Rainfall (mm/year)	GW Storage (MCM/year)	GW Recharge (MCM/year)
WRR I	Iloilo	3,694	2,800	17,732	797
	Abra	5,125	2,370	13,261	1,106
	Bauang-Amboyan	3,437	2,310	16,279	750
	sub-total	12,256		47,272	2,653
WRR II	Abulog	4,445	2,712	17,085	1,197
	Chico	5,247	2,390	17,635	1,924
	Lower Cagayan	6,256	1,900	24,926	1,686
	Upper Cagayan	6,250	2,462	22,969	1,684
	Iligan	4,464	2,451	25,469	1,723
	Magat	6,830	2,460	24,324	1,841
	sub-total	33,492		132,408	10,055
WRR III	Agno	13,877	2,208	40,620	2,600
	Pampanga	14,465	2,067	77,140	3,300
	sub-total	28,342		117,760	5,900
WRR IV	Quezon Province	10,106	2,264	13,500	900
	Laguna Lake	5,078	2,148	15,000	1,000
	Taal Lake	3,942	2,026	8,200	540
	Palawan Island	14,896	2,058	3,900	1,230
	Mindoro, Romblon, Marinduque	12,560	2,129	5,275	1,880
sub-total	46,582		45,875	5,550	
WRR V	Albay-Sorsogon	3,777	2,846	9,150	779
	Bicol	10,058	3,037	11,496	2,074
	Masbate	4,048	2,692	1,803	531
	sub-total	17,883		22,449	3,384
WRR VI	Alilan	2,420	3,803		1,598
	Bago-Binalbagan	4,526	2,905	12,426	575
	Ilog Hilabangan	5,520	2,640		1,463
	Jalaur	1,827	2,356		434
	Panay	2,182	2,865		580
	Sibalom-Guimbal	2,800	3,068		368
sub-total	19,275		12,426	5,018	
WRR VII	Bohol	4,117	2,175		207
	Cebu	5,088	2,321		77
	Negros Oriental	5,694	2,280		236
sub-total	14,899		0	520	
WRR VIII	Leyte	8,003	2,900	17,407	1,714
	Samar	13,492	3,085	29,207	2,876
	sub-total	21,495		46,614	4,590
WRR IX	Mapangidipolog	6,646	2,457		305
	Sibuguey-Ingin	1,211	2,583	3,775	146
	Siocon-Quipit-Taguile-Tumaga	9,540	2,090		204
	sub-total	17,397		3,775	655
WRR X	Agusan	14,507	2,759	8,191	2,867
	Misamis Oriental	8,750	2,552	19,912	2,877
	sub-total	23,257		28,103	5,744
WRR XI	Davao Oriental	9,012	2,746	3,292	2,197
	Tagum-Libuganon	7,901	2,476	5,812	859
	South Cotabato	6,945	2,317	9,689	512
	sub-total	23,858		18,793	3,568
WRR XII	Agus	5,686	2,997	1,726	555
	Mindanao-Allah	13,219	2,552	25,455	1,108
	Pulangui	16,306	2,573		795
	sub-total	35,211		27,181	2,458
Grand Total		293,947		502,656	50,095

Data Source: Frame Work Plan (1979 to 1983), UNDP-NWRC

Table 2-3 ESTIMATION OF GROUNDWATER POTENTIAL

Water Resources Region (WRR)	Area (km ²)	Area by Groundwater Availability			Estimated Groundwater Storage			Estimated Recharge (MCM/year)
		S/D (km ²)	Dp (km ²)	Dif. (km ²)	S/D (MCM)	Dp (MCM)	total (MCM)	
WRR I	14,103	1,737	6,939	5,427	8,787	25,396	34,183	2,029
WRR II	37,986	5,433	18,694	13,860	32,054	103,719	135,773	3,954
WRR III	23,546	9,225	4,589	9,731	141,505	33,449	174,954	2,157
WRR IV	47,475	6,564	11,900	29,011	60,793	78,585	139,378	4,154
WRR V	17,631	1,999	6,011	9,622	17,689	36,612	54,301	2,069
WRR VI	20,223	2,825	5,854	11,544	24,094	34,154	58,248	2,528
WRR VII	14,952	1,137	10,494	3,321	10,141	58,649	68,790	1,115
WRR VIII	21,532	813	17,323	3,397	8,870	105,086	113,956	3,015
WRR IX	18,740	1,257	10,621	6,863	10,520	51,002	61,522	1,662
WRR X	28,018	3,305	14,836	9,878	26,690	69,636	96,326	3,190
WRR XI	24,224	2,532	14,927	6,765	22,946	100,437	123,383	3,204
WRR XII	29,962	7,459	12,148	10,355	93,129	68,953	162,082	2,617
Total	298,393	44,285	134,336	119,772	457,218	765,678	1,222,896	31,694

Notes:

1. The areas by the groundwater availability were measured by planimetering the groundwater availability maps.
2. The groundwater storage was estimated based on the average depth of wells and area of each category.
3. The isohyetal maps of Mindanao Island were re-investigated due to the inappropriate previous data.
4. Areas defined in accordance with the availability of groundwater
 - S/D area ; area of the Quaternary Formation (shallow & deep well area)
 - Dp area ; area of the Tertiary Formation (deep well area)
 - Dif area ; other area which is difficult to exploit groundwater

Table 2-5 LAND USE AREA FOR GROUNDWATER RECHARGE

WRR	Base Data		Land Use Area (km ²)					Rechargeable Land Ratio (%)	
	ID	Province	Area (km ²)	Agriculture (km ²)	Grass/Shrubland (km ²)	Woodland (km ²)	Wetland (km ²)		Miscellaneous (km ²)
1	1	Abra	3,975.6	231.4	2,255.3	1,314.9	-	133.8	1.0
1	2	Benguet	2,655.4	319.4	1,362.4	899.1	-	74.4	1.0
1	3	Ilocos Norte	3,399.3	740.7	1,349.5	930.1	0.5	178.5	0.9
1	4	Ilocos Sur	2,579.9	650.3	1,459.4	256.7	4.5	199.1	0.9
1	5	La Union	1,493.1	354.6	806.4	115.2	10.8	116.1	0.9
Total			14,103.3	2,326.5	7,523.1	3,516.0	15.8	721.9	0.9
2	6	Bataan	209.3	40.8	41.7	28.9	90.4	7.6	0.5
2	7	Cagayan	8,664.1	2,066.1	1,910.7	4,450.6	21.0	215.7	1.0
2	8	Iligao	2,507.8	251.9	1,530.2	693.7	-	32.0	1.0
2	9	Isabela	10,817.2	3,466.9	2,430.3	4,283.2	-	636.9	0.9
2	10	Kalinga-Apayao	6,729.5	942.2	2,174.0	3,479.7	-	127.6	1.0
2	11	Mountain Province	2,097.3	194.8	896.0	965.4	-	41.1	1.0
2	12	Nueva Vizcaya	3,903.9	719.7	1,249.2	1,838.6	-	96.4	1.0
2	13	Quirino	3,057.2	243.3	782.7	1,066.2	-	53.7	1.0
Total			37,986.3	7,936.6	11,021.9	17,706.1	111.4	1,210.3	1.0
3	14	Bataan	1,373.0	229.4	294.9	238.0	43.3	47.4	0.9
3	15	Bulacan	2,623.0	829.7	451.8	827.0	208.0	308.4	0.8
3	16	Nueva Ecija	5,331.3	2,447.8	1,687.0	847.5	28.3	320.7	0.9
3	17	Pampanga	2,180.7	1,044.5	495.3	158.9	423.5	358.5	0.6
3	18	Pangasinan	5,367.9	2,466.6	2,405.3	307.7	174.1	314.2	0.9
3	19	Tarlac	2,953.4	1,328.8	819.8	524.7	3.4	276.8	0.9
3	30	Zambales	3,214.4	423.4	2,108.2	997.4	32.2	153.3	1.0
Total			23,545.7	8,720.1	8,162.5	3,921.2	912.8	1,779.2	0.9
4	21	Aurora	3,239.6	359.0	269.4	2,447.3	19.4	109.6	1.0
4	22	Batangas	3,166.0	2,023.4	825.0	188.7	24.4	104.6	1.0
4	23	Cavite	1,205.4	714.0	367.0	4.0	8.3	112.1	0.9
4	24	Laguna	1,756.6	970.2	382.8	258.5	1.5	143.6	0.9
4	25	Marinduque	959.2	350.8	397.4	148.4	45.5	17.1	0.9
4	26	Metro Manila	636.0	-	-	-	-	636.0	0.0
4	27	Occidental Mindoro	5,879.8	1,235.9	2,118.8	2,202.1	66.6	256.3	0.9
4	28	Oriental Mindoro	4,364.7	1,543.9	855.6	1,614.5	83.7	237.1	0.9
4	29	Palawan	14,896.3	1,542.5	3,829.7	7,932.5	700.5	891.1	0.9
4	30	Quezon	8,706.6	3,289.9	2,059.2	2,752.7	300.2	304.6	0.9
4	31	Rizal	1,308.9	236.3	674.1	163.9	14.6	220.0	0.8
4	32	Rondbon	1,355.9	486.7	421.4	417.8	14.6	15.4	1.0
Total			47,475.0	12,792.6	12,230.3	18,125.4	1,279.2	3,041.4	0.9
5	33	Albay	2,557.6	1,370.1	807.3	228.6	27.3	779.3	0.9
5	34	Camarines Norte	2,111.7	1,265.8	462.7	275.1	76.8	31.2	0.9
5	35	Camarines Sur	5,266.6	2,754.5	1,509.9	706.2	119.0	172.1	0.9
5	36	Catanduanes	1,511.5	468.8	602.8	383.9	25.9	30.1	1.0
5	37	Mabute	4,047.3	2,706.6	1,110.3	11.4	122.6	46.4	0.9
5	38	Sorsogon	2,141.4	1,423.6	342.8	269.3	72.2	33.5	1.0
Total			17,631.1	9,589.3	4,835.9	1,874.5	493.7	477.6	0.9
6	39	Alain	1,817.9	542.3	608.1	499.0	122.4	46.1	0.9
6	40	Antique	2,522.0	679.0	1,229.2	523.5	11.4	78.9	1.0
6	41	Capiz	2,632.2	947.6	1,026.0	349.4	236.4	23.9	0.9
6	42	Guimaras	604.6	326.0	252.1	-	20.6	5.9	1.0
6	43	Iloilo	4,719.4	2,424.6	1,649.9	284.5	189.1	171.3	0.9
6	44	Negros Occidental	2,926.1	4,592.5	2,218.2	686.6	235.7	156.2	0.9
Total			20,733.2	9,519.0	7,033.4	2,342.9	815.6	512.3	0.9
7	45	Bohol	4,112.4	1,848.8	1,565.1	390.0	223.6	89.9	0.9
7	46	Cebu	5,088.4	2,255.2	2,499.2	101.6	95.9	136.5	1.0
7	47	Negros Oriental	5,402.3	2,363.8	2,642.9	237.1	49.8	48.7	1.0
7	48	Siquijor	343.5	171.3	153.1	16.4	0.7	2.0	1.0
Total			14,956.6	6,639.1	6,860.3	805.2	369.9	277.1	1.0
8	49	Biliran	555.5	266.8	226.4	50.7	5.1	6.5	1.0
8	50	Eastern Samar	4,339.6	1,624.3	1,284.1	1,306.9	86.0	38.4	1.0
8	51	Leyte	5,712.8	3,258.5	1,655.6	487.1	169.5	142.3	0.9
8	52	Northern Samar	3,498.0	1,994.2	347.6	1,012.6	110.7	32.8	1.0
8	53	Southern Leyte	1,734.8	905.1	525.6	256.1	8.3	30.7	1.0
8	54	Western Samar	5,691.2	1,580.9	1,628.8	2,290.9	161.4	29.3	1.0
Total			21,531.9	9,629.8	5,668.1	5,404.3	540.8	289.0	1.0
9	55	Basilan	1,206.1	832.6	138.2	122.0	85.2	28.3	0.9
9	56	Sulu	1,562.7	907.9	377.0	24.9	234.8	18.0	0.8
9	57	Tawi-Tawi	1,087.4	323.2	310.0	253.4	191.3	9.5	0.8
9	58	Zamboanga del Norte	6,065.2	1,945.2	2,476.6	1,585.6	35.2	22.5	1.0
9	59	Zamboanga del Sur	8,818.9	3,658.0	3,116.1	1,404.8	574.6	65.4	0.9
Total			18,740.3	7,666.9	6,417.9	3,390.7	1,121.1	143.6	0.9
10	60	Agusan del Norte	2,500.3	703.7	450.4	1,293.8	46.4	96.1	0.9
10	61	Agusan del Sur	8,965.5	1,158.4	1,558.1	5,681.8	454.3	22.8	0.9
10	62	Bukidnon	7,970.8	2,594.5	2,960.9	2,381.0	-	34.4	1.0
10	63	Comigwin	229.8	133.3	42.6	49.2	0.4	5.3	1.0
10	64	Misamis Occidental	1,939.3	1,189.3	333.4	322.8	45.6	43.1	1.0
10	65	Misamis Oriental	3,570.1	1,742.9	1,116.6	652.8	8.5	49.4	1.0
10	66	Surigao del Norte	2,752.2	859.9	428.0	1,131.6	172.4	150.2	0.9
Total			28,018.0	8,381.9	6,930.0	11,511.9	717.8	466.4	1.0
11	67	Davao del Norte	8,129.8	2,340.3	3,872.4	1,854.6	21.4	31.1	1.0
11	68	Davao del Sur	6,372.6	2,840.1	2,176.4	1,110.1	36.6	214.4	1.0
11	69	Davao Oriental	5,164.5	1,593.0	1,472.7	1,999.3	26.7	72.9	1.0
11	70	Surigao del Sur	4,552.2	795.3	701.5	2,939.6	64.5	51.2	1.0
Total			24,229.1	7,568.7	8,223.0	7,913.7	149.1	369.6	1.0
12	71	Tanao del Norte	2,945.9	653.9	1,149.3	835.0	74.1	233.4	0.9
12	72	Tanao del Sur	2,905.6	720.1	672.2	1,397.8	18.9	46.6	1.0
12	73	Maguindano	4,848.6	1,525.6	1,772.1	700.2	694.4	156.3	0.8
12	74	North Cotabato	6,529.9	2,416.2	2,910.5	884.4	271.5	47.4	1.0
12	75	Sarangani	3,723.4	1,420.5	1,175.4	1,007.1	3.4	117.0	1.0
12	76	South Cotabato	3,745.4	1,510.1	1,162.0	950.0	4.2	119.2	1.0
12	77	Sultan Kudarat	5,263.4	1,489.4	2,031.2	1,574.0	45.9	122.8	1.0
Total			29,962.2	9,785.8	10,872.7	7,128.5	1,142.4	852.7	0.9
Grand Total			258,392.7	101,996.4	55,729.1	83,840.3	7,649.6	10,117.2	0.9

Notes

- 1. Land use area : categorized & surveyed by the NWRB since 1993 until 1995
- 2. Rechargeable land ratio : ratio of area of agriculture, grass/shrubland & woodland to the total area

Table 2-6 ADDITIONAL GROUNDWATER RECHARGE BY IRRIGATION WATER (2/2)

WR	No.	Province	Irrigable Area (km ²)	Present		2015		2020		2025	
				Irrigated (km ²)	Irrigated (km ²)	ADD Rech. (MCM/year)	Irrigated (km ²)	ADD Rech. (MCM/year)	Irrigated (km ²)	ADD Rech. (MCM/year)	
1	1	Alba	167.4	129.3	167.4	9.0	167.4	9.0	167.4	9.0	
1	2	Benguet	83.4	107.8	107.8	-	107.8	-	107.8	-	
1	3	Ilocos Norte	496.6	376.3	496.6	28.5	496.6	28.5	496.6	28.5	
1	4	Ilocos Sur	300.3	175.3	246.8	16.9	262.4	20.6	300.3	29.6	
1	5	La Union	169.9	153.3	169.9	3.9	169.9	3.9	169.9	3.9	
	Total		1,217.6	945.0	1,188.5	58.3	1,204.1	62.0	1,242.0	71.0	
2	6	Ratones	0.0	0.3	0.3	-	0.3	-	0.3	-	
2	7	Cagayan	1,472.8	494.0	695.3	47.6	739.2	58.0	851.5	84.6	
2	8	Ifugao	194.1	71.2	100.2	6.9	106.5	8.3	122.7	12.2	
2	9	Isabela	2,528.7	1,209.2	1,702.1	116.6	1,809.6	142.0	2,084.6	207.0	
2	10	Kalinga-Apayao	476.6	210.9	296.9	20.3	315.7	24.8	361.6	36.1	
2	11	Mountain Province	75.0	79.4	79.4	-	79.4	-	79.4	-	
2	12	Nueva Vircaya	485.2	242.2	311.0	23.4	362.5	28.5	417.6	41.5	
2	13	Quirino	239.7	45.4	63.9	4.4	67.9	5.3	78.2	7.8	
	Total		5,472.1	2,352.6	3,279.1	219.1	3,481.1	268.9	3,992.9	389.1	
3	14	Bataan	115.2	78.2	110.1	7.5	115.2	8.8	115.2	8.8	
3	15	Bulacan	519.7	357.0	502.5	34.4	519.7	38.5	519.7	38.5	
3	16	Nueva Ecija	2,085.4	1,201.5	1,691.3	115.8	1,798.2	141.1	2,071.3	205.7	
3	17	Pampanga	573.7	430.4	533.7	33.9	573.7	33.9	573.7	33.9	
3	18	Pangasinan	1,805.0	984.0	1,385.1	94.9	1,472.6	115.6	1,666.2	168.4	
3	19	Tarlac	1,145.3	397.3	559.3	38.3	594.6	46.7	684.9	68.0	
3	20	Zambales	382.0	144.2	203.0	13.9	215.8	16.9	248.6	24.7	
	Total		6,627.3	3,597.6	5,025.0	338.8	5,289.8	401.4	5,909.6	548.0	
4	21	Aurora	166.3	118.5	166.3	11.3	166.3	11.3	166.3	11.3	
4	22	Barangas	92.6	37.5	52.8	3.6	56.1	4.4	64.6	6.4	
4	23	Cavite	237.6	134.1	188.8	12.9	200.7	15.8	231.2	23.0	
4	24	Laguna	275.1	149.2	210.0	14.4	223.3	17.5	257.2	25.5	
4	25	Marikina	21.9	10.2	14.3	1.0	15.2	1.2	17.5	1.7	
4	26	Metro Manila	0.0	0.0	0.0	-	0.0	-	0.0	-	
4	27	Occidental Mindoro	561.7	223.7	314.9	21.6	334.8	26.3	385.6	38.3	
4	28	Oriental Mindoro	567.3	203.1	286.0	19.6	304.1	23.9	350.3	34.8	
4	29	Palawan	286.1	143.6	202.1	13.8	214.9	16.9	247.5	24.6	
4	30	Quezon	278.5	147.4	207.5	14.2	220.6	17.3	254.1	25.2	
4	31	Rizal	93.3	33.1	46.6	3.2	49.5	3.9	57.0	5.7	
4	32	Romblon	55.7	20.0	28.1	1.9	29.9	2.3	34.4	3.4	
	Total		2,633.9	1,290.4	1,717.4	117.6	1,815.4	143.7	2,065.7	199.9	
5	33	Ailao	546.2	338.5	476.5	32.6	506.6	39.8	546.2	49.1	
5	34	Camarines Norte	225.9	60.8	85.6	5.9	91.0	7.1	104.8	10.4	
5	35	Camarines Sur	1,237.0	560.5	789.0	54.0	838.9	68.8	966.3	96.0	
5	36	Catanduanes	37.7	15.9	26.6	1.8	28.3	2.2	32.6	3.2	
5	37	Masbate	198.8	46.3	65.2	4.5	69.3	5.4	79.8	7.9	
5	38	Sorsogon	151.0	100.8	142.0	9.7	151.0	11.9	151.0	11.9	
	Total		2,396.6	1,125.8	1,584.9	108.6	1,685.7	137.3	1,850.7	178.5	
6	39	Aklan	165.1	74.4	104.7	7.2	105.1	7.3	105.1	7.3	
6	40	AniQue	240.2	143.1	201.4	13.8	214.1	16.8	240.2	23.0	
6	41	Capiz	136.7	42.1	59.2	4.0	62.9	4.9	72.5	7.2	
6	42	Guimaras	89.1	42.4	59.7	4.1	63.5	5.0	73.1	7.3	
6	43	Iloilo	662.5	315.4	443.9	30.4	472.0	37.0	543.7	54.0	
6	44	Negros Occidental	738.9	176.3	248.1	17.0	261.8	20.7	303.9	30.2	
	Total		1,912.5	793.7	1,117.0	76.5	1,181.4	91.7	1,338.5	128.9	
7	45	Bohol	300.9	107.5	151.3	10.4	160.9	12.6	185.3	18.4	
7	46	Cebu	58.6	36.1	50.9	3.5	54.1	4.3	58.6	5.3	
7	47	Negros Oriental	137.9	76.3	107.4	7.4	114.2	9.0	131.5	13.1	
7	48	Siquijor	10.0	5.5	7.7	0.5	8.2	0.6	9.4	0.9	
	Total		507.4	225.4	317.3	21.7	337.4	26.5	384.8	37.7	
8	49	Biliran	42.1	29.1	41.0	2.8	42.1	3.1	42.1	3.1	
8	50	Eastern Samar	40.7	23.3	32.8	2.2	34.9	2.7	40.2	4.0	
8	51	Leyte	514.1	354.8	409.4	34.2	514.1	37.7	514.1	37.7	
8	52	Northern Samar	108.6	30.6	43.0	2.9	45.7	3.6	52.6	5.2	
8	53	Southern Leyte	56.9	53.6	56.9	0.8	56.9	0.8	56.9	0.8	
8	54	Western Samar	81.4	16.9	23.8	1.6	25.3	2.0	29.1	2.9	
	Total		843.8	508.3	696.9	41.6	719.0	49.8	735.0	53.6	
9	55	Basilan	4.2	1.9	2.7	0.2	2.9	0.2	3.3	0.3	
9	56	Sulu	0.0	1.5	1.5	-	1.5	-	1.5	-	
9	57	Tawi-Tawi	0.0	0.1	0.1	-	0.1	-	0.1	-	
9	58	Zamboanga del Norte	323.1	58.0	81.6	5.6	85.8	6.8	100.0	9.9	
9	59	Zamboanga del Sur	437.7	284.0	399.8	27.4	425.1	33.4	437.7	36.4	
	Total		765.0	345.5	485.7	33.2	515.4	40.4	512.6	46.6	
10	60	Agusan del Norte	524.9	96.6	136.0	9.3	144.6	11.4	166.6	16.6	
10	61	Agusan del Sur	564.5	135.8	191.2	13.1	203.3	16.0	214.2	21.3	
10	62	Bukidnon	872.0	291.1	409.8	28.1	435.7	34.2	501.9	49.9	
10	63	Camiguin	14.1	2.8	3.9	0.3	4.1	0.3	4.7	0.4	
10	64	Misamis Occidental	125.9	24.8	34.9	2.4	37.1	2.9	42.7	4.2	
10	65	Misamis Oriental	64.4	61.3	64.4	0.7	64.4	0.7	64.4	0.7	
10	66	Surigao del Norte	130.7	65.3	91.9	6.3	97.7	7.7	112.5	11.2	
	Total		2,301.5	677.7	932.1	60.2	985.9	73.1	1,127.0	106.3	
11	67	Davao del Norte	985.6	312.6	440.0	30.1	467.8	36.7	538.8	53.5	
11	68	Davao del Sur	213.2	130.7	184.0	12.6	195.6	15.4	213.2	19.5	
11	69	Davao Oriental	177.7	43.3	61.0	4.2	64.9	5.1	74.8	7.5	
11	70	Surigao del Sur	402.9	70.3	99.0	6.8	105.3	8.3	121.3	12.1	
	Total		1,779.4	556.9	784.0	53.7	833.6	65.4	948.1	92.5	
12	71	Lanao del Norte	125.6	143.6	143.6	-	143.6	-	143.6	-	
12	72	Lanao del Sur	471.9	39.3	55.5	3.8	59.0	4.7	68.0	6.8	
12	73	Maguindanao	1,091.1	140.8	198.3	13.6	210.8	16.6	242.8	24.1	
12	74	North Cotabato	1,413.6	313.5	441.2	30.2	469.1	36.8	540.3	53.6	
12	75	Sarangani	119.6	73.3	103.2	7.1	109.7	8.6	119.6	11.0	
12	76	South Cotabato	1,003.8	267.4	376.4	25.8	400.2	31.4	461.0	45.8	
12	77	Sultan Kudarat	518.7	298.6	420.3	28.8	446.9	35.1	514.8	51.1	
	Total		4,744	1,277	1,739	109	1,839	133	2,060	192	
Grand Total			21,263	13,617	18,866	1,241	19,890	1,483	22,262	2,045	

Table 2-8 GROUNDWATER RECHARGE FORECASTING BY PROVINCE

(Unit: MCM/year)

WRR	ID	Province	1995	2000	2005	2010	2015	2020	2025
1	1	Alba	535	537	539	537	535	533	532
1	2	Benguet	473	489	485	481	475	470	464
1	3	Ilocos Norte	471	483	495	493	491	490	488
1	4	Ilocos Sur	343	345	351	350	348	350	358
1	5	La Union	188	189	185	184	181	179	178
2	6	Batanes	27	27	27	26	26	26	26
2	7	Cagayan	1,084	1,100	1,122	1,124	1,122	1,130	1,156
2	8	Ifugao	203	205	208	208	208	209	212
2	9	Isabela	1,141	1,172	1,218	1,218	1,208	1,225	1,285
2	10	Kalinga-Apayao	615	621	628	627	623	624	632
2	11	Mountain Province	175	174	174	174	173	173	173
2	12	Nueva Vizcaya	372	380	391	392	390	394	406
2	13	Quirino	338	338	339	338	337	337	338
3	14	Bataan	140	142	145	145	144	145	145
3	15	Bulacan	316	324	333	328	322	321	316
3	16	Nueva Ecija	463	506	562	571	569	592	655
3	17	Pampanga	184	193	205	200	195	190	186
3	18	Pangasinan	454	456	528	532	526	541	588
3	19	Tarlac	222	233	248	248	245	250	269
3	20	Zambales	377	379	385	385	383	385	392
4	21	Aurora	393	393	394	390	384	378	372
4	22	Batangas	230	230	230	229	227	226	227
4	23	Cavite	92	96	102	101	100	100	106
4	24	Laguna	141	141	148	145	141	142	146
4	25	Marinduque	77	77	77	77	77	77	78
4	26	Metro Manila	52	52	52	52	52	52	52
4	27	Occidental Mindoro	488	491	494	488	478	471	474
4	28	Oriental Mindoro	378	382	389	388	385	386	394
4	29	Palawan	1,174	1,161	1,144	1,117	1,081	1,044	1,004
4	30	Quezon	905	905	907	904	899	898	901
4	31	Rizal	120	118	114	109	103	96	90
4	32	Romblon	404	404	405	405	404	404	405
5	33	Albay	293	304	318	320	318	324	333
5	34	Camarines Norte	355	356	358	358	357	358	360
5	35	Camarines Sur	551	567	591	592	588	596	622
5	36	Catanduanes	202	202	202	201	199	198	198
5	37	Masbate	433	434	436	436	436	436	439
5	38	Sorsogon	236	240	245	245	245	247	247
6	39	Aklan	178	180	182	181	179	178	176
6	40	Antique	293	297	302	302	300	301	306
6	41	Capiz	339	339	340	340	338	338	338
6	42	Guimaras	69	70	72	72	72	73	75
6	43	Iloilo	556	562	573	571	567	569	582
6	44	Negros Occidental	1,093	1,095	1,099	1,097	1,094	1,096	1,103
7	45	Bohol	263	265	269	267	265	265	268
7	46	Cebu	403	403	403	401	399	398	398
7	47	Negros Oriental	425	427	430	430	429	430	433
7	48	Siquijor	24	24	24	24	24	24	25
8	49	Biliran	78	79	80	80	80	80	80
8	50	Eastern Samar	688	688	689	688	687	687	688
8	51	Leyte	652	662	676	676	672	672	668
8	52	Northern Samar	589	589	590	589	588	588	589
8	53	Southern Leyte	190	189	188	187	186	185	184
8	54	Western Samar	818	818	818	817	815	814	814
9	55	Basilan	99	98	98	97	96	96	95
9	56	Sulu	137	137	137	136	136	135	135
9	57	Tawi-Tawi	100	100	99	99	99	98	98
9	58	Zamboanga del Norte	574	576	578	579	578	579	582
9	59	Zamboanga del Sur	752	761	772	773	770	774	774
10	60	Agusan del Norte	298	301	304	303	302	303	308
10	61	Agusan del Sur	1,118	1,121	1,125	1,124	1,120	1,119	1,122
10	62	Bukidnon	924	933	946	947	945	949	963
10	63	Carniguin	22	22	22	22	22	22	22
10	64	Misamis Occidental	162	162	162	162	161	160	161
10	65	Misamis Oriental	274	274	273	272	271	271	271
10	66	Surigao del Norte	391	389	389	387	385	385	387
11	67	Davao del Norte	1,035	1,045	1,060	1,062	1,062	1,068	1,084
11	68	Davao del Sur	671	674	677	675	673	674	676
11	69	Davao Oriental	643	643	644	643	642	642	644
11	70	Surigao del Sur	856	856	857	856	853	853	855
12	71	Lanao del Norte	287	278	266	253	239	225	211
12	72	Lanao del Sur	255	255	256	255	253	253	254
12	73	Maguindanao	351	354	357	356	352	352	356
12	74	North Cotabato	639	649	663	665	664	669	685
12	75	Sarangani	331	332	332	329	326	324	323
12	76	South Cotabato	357	365	374	373	369	371	382
12	77	Sultan Kudarat	398	407	420	420	418	422	436

Table 2-9 HISTORICAL TENDENCY OF POPULATION BY REGION

Region Administrative No. Region	Annual Population (x 1000 persons)						Annual Average Growth Rate (%)					
	1960	1970	1975	1980	1990	1995	(1960~1970)	(1970~1975)	(1975~1980)	(1980~1990)	(1990~1995)	(1960~1995)
NCR	2,462	3,967	4,970	5,926	7,948	9,454	4.76	4.61	3.58	2.98	3.31	3.92
CAR	552	731	811	914	1,146	1,255	2.78	2.10	2.42	2.29	1.72	2.37
Ilocos	2,043	2,488	2,726	2,923	3,551	3,804	1.94	1.84	1.41	1.97	1.30	1.79
II Cagayan Valley	1,036	1,512	1,665	1,919	2,341	2,536	3.76	1.95	2.88	2.01	1.51	2.59
III Central Luzon	2,525	3,714	4,210	4,803	6,199	6,933	3.84	2.54	2.67	2.58	2.12	2.93
IV Southern Tagalog	3,082	7,074	5,304	6,119	8,263	9,941	8.44	-5.60	2.90	3.05	3.53	3.40
V Bicol	2,363	2,967	3,194	3,477	3,910	4,325	2.25	1.49	1.71	1.18	1.91	1.74
VI Western Visayas	3,078	3,618	4,146	4,526	5,393	5,777	1.59	2.76	1.77	1.77	1.30	1.82
VII Central Visayas	2,523	3,096	3,387	3,787	4,594	5,015	2.02	1.81	2.26	1.95	1.66	1.98
VIII Eastern Visayas	2,041	2,381	2,600	2,800	3,055	3,367	1.51	1.78	1.49	0.88	1.84	1.44
IX Western Mindanao	1,024	1,443	1,665	1,973	2,460	2,795	3.40	2.90	3.45	2.23	2.42	2.91
X Northern Mindanao	831	1,262	1,502	1,765	2,197	2,483	4.16	3.54	3.28	2.21	2.32	3.18
XI Southern Mindanao	1,189	1,942	2,412	2,969	4,007	4,604	4.90	4.43	4.24	3.04	2.64	3.94
XII Central Mindanao	693	1,794	1,222	1,468	2,033	2,360	9.72	-7.39	3.74	3.31	2.84	3.56
ARMM	1,017	1,240	1,231	1,360	1,837	2,021	1.95	-0.15	2.01	3.05	1.81	1.98
CARAGA	631	951	1,114	1,571	1,764	1,942	4.08	3.21	4.24	2.55	1.82	3.26
Total	27,090	40,180	42,159	48,100	60,698	68,612	3.92	0.97	2.67	2.35	2.52	2.69

Data Source : National Statistics Office and Philippine Statistical Yearbook, 1996 (NSCB).

**Table 2-10 HISTORICAL TENDENCY OF GDP BY SECTOR
(AT CONSTANT PRICE OF 1985)**

No. Sector	Subsector	Annual Sectoral GDP (Million Pesos)											Annual Average Growth Rate (%)										
		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1990-	1995-	1990-	1991-	1992-	1993-	1994-	1995-	1996-	
I. Agriculture																							
a. Agriculture Industry																							
Agriculture																							
Crops																							
Livestock																							
Poultry																							
Sub-total																							
b. Fishery																							
Forestry																							
Sub-total																							
II. Industry																							
1. Mining & Quarrying																							
2. Manufacturing																							
3. Construction																							
4. Electricity, Gas & Water																							
Sub-Total																							
III. Service																							
1. Transportation, Communication and Storage																							
2. Trade																							
3. Finance																							
4. Ownership of Dwellings and Real Estate																							
5. Private Services																							
6. Government Services																							
Sub-Total																							
Total																							

Data Sources: 1. The figures during the period from 1985 to 1995 Philippine Statistical Yearbook, 1996

2. The growth rate of 1996 by sector was provided by NSCB.

Table 2-11 HISTORICAL TENDENCY OF GDP PER CAPITA BY REGION

Item	Annual Per Capita GDP (Pesos)											Annual Average Growth Rate (%)										
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1990-	1991-	1992-	1993-	1994-	1995-	1996-			
A. Estimates in Current Pesos																						
1. Gross Domestic Product																						
2. Gross National Product																						
3. Personal Consumption, Expenditures																						
B. Estimates in Constant (1985) Pesos																						
1. Gross Domestic Product																						
2. Gross National Product																						
3. Personal Consumption, Expenditures																						
C. Population (mill. persons)																						

Data Source: Philippine Statistical Yearbook, 1996, NSCB.

Table 2-12 MAJOR ECONOMIC INDICATORS, 1993-95

(Unit: %)

Indicators	Average Growth Rate		1993				1994				1995				Average Growth Rate	
	1987-92		Actual	Plan	Deviation	Actual	Planned/Target		Deviation		Actual	Planned/Target		Deviation		1993-95
	4.20	2.10					Estimate	2.40	(0.3)	5.30		Low	High	Low	High	
Gross National Product, Real ¹	4.10	3.00	3.00	3.00	0.00	3.70	3.00	3.80	0.70	(0.1)	3.80	3.30	4.00	0.50	(0.2)	3.50
Personal Consumption	4.10	6.20	(7.0)	6.10	13.20	6.10	8.30	8.50	(2.2)	(2.4)	3.60	5.50	6.10	(1.9)	(2.5)	5.30
Government Consumption	10.20	7.90	10.10	8.60	(2.2)	19.80	13.20	14.00	6.60	5.80	11.90	14.50	16.00	(2.6)	(4.10)	12.60
Exports	7.10	6.20	6.20	19.80	13.20	14.50	8.50	9.50	6.00	5.00	16.60	11.50	9.50	5.10	7.10	14.20
Imports	13.50	11.50	13.00	14.50	(1.5)	14.50	8.50	9.50	6.00	5.00	16.60	11.50	9.50	5.10	7.10	14.20
Gross Domestic Product, Real	3.30	2.10	2.00	4.40	0.10	4.40	3.40	4.40	1.00	--	4.80	4.10	6.20	0.70	(1.4)	3.80
Agri., Fishery & Forestry	2.00	2.10	2.00	2.60	0.10	2.60	2.20	2.70	0.40	(0.1)	0.90	2.40	3.00	(1.5)	(2.1)	1.90
Industry	3.20	1.60	1.80	5.80	(2)	5.80	4.70	5.70	1.10	0.1	7.20	5.20	7.90	2.0	(0.7)	4.90
Services	4.20	2.50	2.10	4.20	0.40	4.20	3.00	4.30	1.20	(0.1)	4.90	4.10	6.40	0.8	(1.5)	3.90

Note: Difference in percentage points; negative deviation means that the actual rates/estimates were below the target, while a positive deviation implies that the actual growth rates exceeded the targets.

Data Sources: 1. National Statistical Coordination Board (NSCB)

2. "Updated Medium-Term Philippine Development Plan (1996-1998)", NEDA

Table 2-13 GROWTH RATES OF INDUSTRY AND SHARE TO GDP, 1993-95

(Unit: %)

Indicators	Average Growth Rate		1993				1994				1995				Average Growth Rate	
	1987-92		Actual	Plan	Deviation	Actual	Planned/Target		Deviation		Actual	Planned/Target		Deviation		1993-95
	3.2	35.0					Estimate	33.4	0.3	33.8		34.8	(1.0)	34.4	35.2-35.4	
- Real GVA in Industry	3.2	1.6	1.8	5.8	(0.2)	5.8	4.7-5.7	1.1-0.1	7.2	5.2-7.9	2.0-(0.7)	4.9	4.9			
Growth rate	35.0	33.7	33.4	33.8	0.3	33.8	34.8	(1.0)	34.4	35.2-35.4	0.3-0.1	34.0	34.0			
- Mining and Quarrying	(1.0)	0.7	0.7	(7.0)	2.0-(12.5)	5.9	5.2-5.5	0.7-0.4	(0.2)	1.5	1.5	(0.2)	1.5			
Growth rate	1.6	1.6	1.5	1.4	0.1	1.4	1.6	(0.2)	1.4	1.5	(0.2)	1.5	1.5			
- Manufacturing	3.6	0.8	0.7	5.0	0.4-(0.5)	6.8	5.0-8.2	1.8-(1.4)	4.2	4.2	4.2	(0.2)	4.2			
Growth rate	25.4	24.7	24.1	24.2	0.6	24.2	25.1	(0.9)	24.5	25.3-25.6	(0.5)-(0.8)	24.9	24.9			
- Construction	4.6	5.7	6.7	9.0	4.0-2.2	6.5	6.0-8.0	0.5-(1.5)	7.1	7.1	7.1	(0.2)	7.1			
Growth rate	5.3	5.1	5.1	5.3	0.0	5.3	5.3	0.0	5.4	5.4	0.1	5.4	5.4			
- Electricity, Gas & Water	1.9	2.9	2.9	13.8	8.7-7.8	13.0	5.5-6.1	7.5-6.9	9.9	9.9	9.9	(0.2)	9.9			
Growth rate	2.7	2.7	2.7	2.9	0.0	2.9	2.8	0.1	3.1	2.8	0.4	3.0	3.0			

Data Sources: 1. NSCB (Naiti) Accounts as of May 1996

2. "Updated Medium-Term Philippine Development Plan (1996-1998)", NEDA

**Table 2-14 HISTORICAL PERFORMANCE OF GRDP BY REGION
(AT CONSTANT PRICE OF 1985)**

(Unit: Million Pesos)

Region No.	Administrative Region	Annual Average Growth Rate																			
		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	(1985~(1990- 1990)	(1990~(1991- 1991)	(1991~(1992- 1992)	(1992~(1993- 1993)	(1993~(1994- 1994)	(1994~(1995- 1995)	(1995~(1996- 1996)	
	NCR	164,246	169,358	180,609	197,266	214,663	221,753	220,972	215,465	216,149	227,348	240,121	254,649	6.19	1.60	-0.35	-2.49	0.32	5.18	5.62	6.05
	CAR	-	-	11,342	12,195	13,252	13,549	14,042	13,591	14,637	15,928	16,762	17,699	6.11	4.35	3.64	-3.21	7.70	8.82	5.24	5.59
1	Ilocos	25,033	26,947	18,294	19,238	20,435	21,869	21,579	20,344	20,893	22,295	24,021	26,004	-2.67	1.89	-1.33	-5.72	2.70	6.71	7.74	8.25
2	Cagayan Valley	15,309	15,668	13,087	13,994	14,725	15,548	14,714	13,974	14,460	15,428	16,485	17,699	0.31	1.18	-5.36	-5.03	3.48	6.69	6.85	7.36
3	Central Luzon	53,774	54,853	57,459	61,831	64,158	68,250	66,309	70,736	72,955	75,371	78,383	82,324	4.88	2.81	-2.84	6.68	3.14	3.31	4.00	5.03
4	Southern Tagalo	82,615	86,473	90,978	98,333	104,972	109,509	109,844	113,545	114,787	121,155	126,303	132,107	5.80	2.89	0.31	3.37	1.09	5.55	4.25	4.60
5	Bicol	19,366	19,530	18,913	20,103	21,041	21,687	21,734	21,902	22,422	23,087	23,520	24,042	2.29	1.64	0.22	0.77	2.37	2.97	1.88	2.22
6	Western Visayas	42,418	43,554	44,858	46,699	50,113	50,747	50,451	53,331	55,487	57,058	58,227	59,618	3.65	2.79	-0.58	5.71	4.04	2.83	2.05	2.39
7	Central Visayas	35,754	37,680	39,662	43,107	45,813	47,193	46,971	47,086	47,757	49,663	52,680	57,167	5.71	2.22	-0.47	0.24	1.43	3.99	6.07	8.52
8	Eastern Visayas	16,218	16,057	16,175	17,297	17,373	17,322	17,396	17,088	17,851	18,387	19,374	20,941	1.33	2.26	0.43	-1.77	4.47	3.00	5.37	8.09
9	Western Mindanao	18,561	19,163	19,191	19,569	20,214	21,132	20,773	21,186	20,862	21,125	21,599	22,370	2.63	0.44	-1.70	1.99	-1.53	1.26	2.24	3.57
10	Northern Mindanao	32,412	33,239	34,381	35,603	37,313	37,099	37,104	37,345	37,913	39,726	41,758	44,179	2.74	2.39	0.01	0.65	1.52	4.78	5.12	5.80
11	Southern Mindanao	43,727	45,317	48,383	48,691	49,970	50,074	50,155	48,953	50,671	52,644	54,200	55,989	2.75	1.60	0.16	-2.40	3.51	3.89	2.96	3.30
12	Central Mindanao	22,452	23,582	23,592	24,657	25,407	24,959	24,477	24,396	20,405	20,815	22,052	23,895	2.14	-2.45	-1.93	-0.33	-16.36	2.01	5.94	8.36
	ARMM	-	-	-	-	-	-	-	-	6,908	7,420	7,965	8,579	-	-	-	-	-	7.41	7.35	7.71
	Total	571,885	591,421	616,924	658,583	699,449	720,691	716,521	718,942	734,157	767,450	803,450	847,262	4.73	2.20	-0.58	0.34	2.12	4.53	4.69	5.45

Data Source: Philippine Statistical Yearbook, 1996, NSCB

Table 2-15 NUMBER OF FAMILIES, AVERAGE ANNUAL INCOME AND EXPENDITURES BY REGION

Region No.	Administrative Region	Indicators	Nos. of Families				Annual Average Growth Rate (%)			
			1985	1988	1991	1994	1985-1988	1988-1991	1991-1994	1985-1991
	Philippines	No. of Families (1,000)	9,940	10,534	11,976	12,755	1.92	4.37	2.12	2.85
		Average Income	31,052	40,408	65,185	81,161	9.18	17.28	8.46	11.57
		Average Expenditures	26,865	32,521	51,991	67,661	6.58	15.93	9.18	10.81
		Savings	4,187	7,887	13,195	15,500	23.50	18.71	5.51	15.65
	NCR (Metro Manila)	No. of Families (1,000)	1,311	1,435	1,614	1,767	3.06	4.64	2.43	3.37
		Average Income	57,193	79,314	138,256	193,599	11.52	20.35	7.88	13.13
		Average Expenditures	48,453	60,355	105,731	138,427	7.60	20.55	9.40	12.37
		Savings	8,740	18,959	32,525	35,172	29.45	19.71	2.64	16.73
	CAR	No. of Families (1,000)	158	214	228	241	2.62	2.13	1.87	2.21
	Cardifera	Average Income	-	33,838	59,895	74,609	-	20.97	7.63	-
		Average Expenditures	-	28,722	43,816	60,317	-	15.12	11.24	-
		Savings	-	5,116	15,169	14,352	-	43.66	-1.83	-
1	Ilocos	No. of Families (1,000)	578	625	672	706	2.64	2.45	1.65	2.25
		Average Income	31,463	34,031	56,678	66,125	2.65	18.53	5.23	8.60
		Average Expenditures	26,322	27,670	45,016	54,175	1.68	17.61	6.37	8.35
		Savings	5,131	6,361	11,662	11,950	7.43	22.39	0.82	9.85
2	Cagayan Valley	No. of Families (1,000)	397	438	489	523	3.33	3.74	2.27	3.11
		Average Income	27,441	32,939	50,850	68,851	6.28	15.57	10.63	10.76
		Average Expenditures	23,002	24,582	39,991	53,251	2.24	17.61	10.02	9.78
		Savings	4,439	8,357	10,859	15,600	23.48	9.12	12.84	14.99
3	Central Luzon	No. of Families (1,000)	937	1,038	1,195	1,275	2.75	4.81	2.18	3.24
		Average Income	38,819	46,855	76,203	94,092	6.47	17.60	7.28	10.34
		Average Expenditures	34,727	38,660	61,904	75,427	3.64	16.99	6.81	9.00
		Savings	4,092	8,195	14,229	18,665	26.05	20.19	9.47	18.37
4	Southern Tagalog	No. of Families (1,000)	1,304	1,284	1,616	1,731	-0.51	7.97	2.32	3.20
		Average Income	29,895	37,978	68,960	87,627	8.30	22.00	8.31	12.69
		Average Expenditures	26,459	32,058	54,818	71,085	6.61	19.58	9.05	11.61
		Savings	3,526	5,920	14,142	16,542	18.85	33.68	5.36	18.74
5	Bicol	No. of Families (1,000)	668	738	824	878	3.38	3.74	2.14	3.08
		Average Income	20,221	26,570	39,823	54,161	9.53	14.41	10.80	11.57
		Average Expenditures	19,092	23,233	33,911	46,343	6.79	13.40	10.97	10.36
		Savings	1,129	3,337	5,912	7,824	43.22	21.24	9.79	24.00
6	Western Visayas	No. of Families (1,000)	882	957	1,070	1,133	2.76	3.79	1.93	2.82
		Average Income	24,807	31,154	47,723	64,078	7.90	15.26	10.32	11.12
		Average Expenditures	22,310	27,162	42,670	57,868	6.78	16.25	10.60	11.17
		Savings	3,497	4,002	5,053	6,210	4.60	8.08	2.11	6.59
7	Central Visayas	No. of Families (1,000)	784	830	904	952	1.92	2.89	1.74	2.18
		Average Income	20,756	27,972	45,255	57,579	10.46	17.39	8.36	12.60
		Average Expenditures	18,932	22,157	35,480	46,883	9.38	16.99	9.73	11.98
		Savings	3,824	5,815	9,775	10,696	14.99	18.90	3.05	12.11
8	Eastern Visayas	No. of Families (1,000)	568	598	661	694	1.73	3.40	1.64	2.25
		Average Income	17,767	25,345	38,475	49,912	12.57	14.93	9.06	12.16
		Average Expenditures	15,684	20,533	31,760	37,522	8.93	15.65	5.71	10.02
		Savings	1,883	4,812	6,715	12,390	36.72	11.75	22.65	23.29
9	Western Mindanao	No. of Families (1,000)	495	427	479	509	-4.81	3.99	2.05	0.31
		Average Income	23,779	31,984	42,622	50,784	10.39	10.04	6.01	8.50
		Average Expenditures	19,456	24,624	32,605	43,486	8.17	9.81	10.07	9.35
		Savings	4,323	7,360	10,017	7,298	19.41	10.82	-10.02	5.99
10	Northern Mindanao	No. of Families (1,000)	565	607	686	734	2.42	4.16	2.28	2.95
		Average Income	27,402	35,804	45,179	57,831	9.32	8.06	8.58	8.65
		Average Expenditures	22,703	28,865	37,641	46,363	8.33	9.25	7.19	8.26
		Savings	4,699	6,936	7,538	11,468	13.85	2.81	15.01	10.42
11	Southern Mindanao	No. of Families (1,000)	706	738	830	887	1.49	3.99	2.24	2.57
		Average Income	28,222	37,132	51,722	70,711	9.58	11.68	10.99	10.74
		Average Expenditures	24,068	30,061	41,011	59,542	7.69	10.91	13.23	10.59
		Savings	4,154	7,071	10,711	11,169	19.40	14.85	1.41	11.62
12	Central Mindanao	No. of Families (1,000)	255	299	338	365	5.45	4.17	2.59	4.07
		Average Income	24,366	35,090	44,398	61,282	12.93	8.16	11.34	10.79
		Average Expenditures	22,509	27,696	37,165	50,527	7.16	10.30	10.78	9.40
		Savings	1,857	7,394	7,233	10,755	58.50	-0.73	14.14	21.55
	ARMM (Autonomous Region of Muslim Mindanao)	No. of Families (1,000)	281	306	340	361	2.68	3.57	2.02	2.82
		Average Income	-	-	43,677	51,304	-	-	5.51	-
		Average Expenditures	-	-	34,260	38,802	-	-	4.24	-
		Savings	-	-	6,417	12,502	-	-	24.90	-

Data Source: Philippine Statistical Yearbook, 1996, NSCB

Table 2-16 CONSUMER PRICE INDEX FOR ALL INCOME HOUSEHOLD AND INFLATION RATE

Region No.	Administrative Region	Ratio to Consumer Price in 1988							Annual Average Inflation Rate (%)	
		1988	1989	1990	1991	1992	1993	1994		1995
	Philippines	100.0	112.2	128.1	152.0	165.6	178.2	194.3	210.0	11.24
	Inflation Rate(%)	-	12.2	14.2	18.7	8.9	7.6	9.0	8.1	11.24
	NCR (Metro Manila)	100.0	109.6	127.3	153.6	172.4	190.3	209.8	226.8	12.49
	Inflation Rate(%)	-	9.6	16.2	20.7	12.2	10.4	10.2	8.1	12.49
	CAR	100.0	115.2	129.4	149.7	159.5	171.7	190.6	205.7	10.91
	Inflation Rate(%)	-	15.2	12.3	15.7	6.5	7.6	11.0	7.9	10.91
1	Ilocos	100.0	113.7	128.5	149.3	160.4	177.9	192.9	209.1	11.15
	Inflation Rate(%)	-	13.7	13.0	16.2	7.4	10.9	8.4	8.4	11.15
2	Cagayan Valley	100.0	110.8	127.7	147.5	163.5	176.3	186.3	198.4	10.34
	Inflation Rate(%)	-	10.8	15.3	15.5	10.8	7.8	5.7	6.5	10.34
3	Central Luzon	100.0	110.9	124.5	150.2	161.5	170.4	187.4	199.8	10.49
	Inflation Rate(%)	-	10.9	12.3	20.6	7.5	5.5	10.0	6.6	10.49
4	Southern Tagalog	100.0	113.9	129.1	153.2	165.1	174.8	190.5	205.7	10.93
	Inflation Rate(%)	-	13.9	13.3	18.7	7.8	5.9	9.0	8.0	10.93
5	Bicol	100.0	114.5	132.9	154.7	165.7	178.2	192.9	213.4	11.50
	Inflation Rate(%)	-	14.5	16.1	16.4	7.1	7.5	8.2	10.6	11.50
6	Western Visayas	100.0	115.0	131.9	157.0	166.6	180.5	193.3	211.1	11.35
	Inflation Rate(%)	-	15.0	14.7	19.0	6.1	8.3	7.1	9.2	11.35
7	Central Visayas	100.0	112.6	134.5	163.9	177.1	188.4	203.5	217.7	11.91
	Inflation Rate(%)	-	12.6	19.4	21.9	8.1	6.4	8.0	7.0	11.91
8	Eastern Visayas	100.0	114.8	125.7	148.6	162.3	173.3	189.5	208.1	11.10
	Inflation Rate(%)	-	14.8	9.5	18.2	9.2	6.8	9.3	9.8	11.10
9	Western Mindanao	100.0	111.4	128.6	150.1	160.1	170.6	187.1	204.0	10.78
	Inflation Rate(%)	-	11.4	15.4	16.7	6.7	6.6	9.7	9.0	10.78
10	Northern Mindanao	100.0	113.1	126.3	145.9	159.3	168.2	183.8	198.4	10.33
	Inflation Rate(%)	-	13.1	11.7	15.5	9.2	5.6	9.3	7.9	10.33
11	Southern Mindanao	100.0	109.8	120.6	138.0	150.8	157.9	171.6	185.5	9.26
	Inflation Rate(%)	-	9.8	9.8	14.4	9.3	4.7	8.7	8.1	9.26
12	Central Mindanao	100.0	112.7	126.4	146.9	161.1	171.1	185.8	201.1	10.54
	Inflation Rate(%)	-	12.7	12.2	16.2	9.7	6.2	8.6	8.2	10.54
	ARMM (Autonomous Region of Muslim Mindanao)	100.0	116.2	133.9	163.2	176.4	187.4	200.8	216.3	11.79
	Inflation Rate(%)	-	16.2	15.2	21.9	8.1	6.2	7.2	7.7	11.79

Data Source : Philippine Statistical Yearbook, 1996. NSCB

Note : A consumer price in 1988 is given 100.

Table 2-17 NUMBER OF SCHOOLS BY LEVEL OF EDUCATION

Level of Education	Kind of School	Nos. of School											Annual Average Growth Rate (%)	
		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		Nos. of Schools Per 100,000 population
Pre-School	Public	1257	1,246	1,292	2,548	2,646	2,888	3,660	3,714	3,143	4,095	4,352	0.7	13.22
	Private	997	997	1,280	1,143	1,191	1,313	1,659	1,701	1,892	2,267	2,511	0.4	9.68
	Total	2,254	2,243	2,572	3,691	3,837	4,201	5,319	5,415	5,035	6,362	6,863	1.0	11.78
Elementary	Public	31817	32,057	32,000	32,875	32,811	32,449	32,768	32,630	33,035	33,425	34,483	5.2	6.09
	Private	1339	1,448	1,544	1,651	1,571	1,632	1,814	1,940	2,032	2,246	2,418	0.4	1.08
	Total	33,156	33,485	33,544	34,526	34,382	34,081	34,582	34,570	35,067	35,671	36,901	5.5	1.24
Secondary	Public	3357	3,327	3,307	3,347	3,364	3,394	3,463	3,536	3,586	3,676	3,799	0.6	1.82
	Private	2018	2,067	2,103	2,149	2,154	2,156	2,212	2,292	2,294	2,379	2,418	0.4	1.47
	Total	5,375	5,394	5,410	5,496	5,518	5,550	5,675	5,828	5,880	6,055	6,217	0.9	6.03
Tertiary	Public	293	351	428	424	504	510	505	522	545	522	526	0.1	9.44
	Private	785	818	1,178	1,251	1,251	1,561	1,415	1,549	1,665	1,935	1,935	0.3	8.60
	Total	1,078	1,169	1,606	1,675	1,755	2,071	1,920	2,054	2,210	2,457	2,461	0.4	1.65
Grand Total	Public	36,724	36,961	37,027	39,194	39,325	39,241	40,396	40,385	40,309	41,718	43,160	6.5	6.09
	Private	5,139	5,330	6,105	6,194	6,167	6,662	7,100	7,482	7,903	8,827	9,282	1.4	2.28
	Total	41,863	42,291	43,132	45,388	45,492	45,903	47,496	47,867	48,212	50,545	52,442	7.9	

Data Source : Department of Education, Culture and Sports and Philippine Statistical Yearbook, 1996, NSCB.

Table 2-18 NUMBER OF SCHOOL ENROLMENT BY LEVEL OF EDUCATION

Level of Education	Kind of School	Nos. of School (x 1000 nos.)											Annual Average Growth Rate (%) (1985/95)
		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	School Per 100 population	
Pre-School	Public	64	80	137	151	166	185	191	197	226	212	0.3	14.2
	Private	100	125	137	170	231	224	222	220	254	239	0.4	10.2
	Total	164	205	274	321	397	409	413	417	480	452	0.7	11.9
Elementary	Public	8,575	8,885	9,187	9,453	9,562	9,704	9,703	9,717	9,852	10,470	15.7	2.2
	Private	490	512	512	510	468	483	563	598	561	619	0.9	2.6
	Total	9,065	9,396	9,698	9,963	10,030	10,187	10,266	10,315	10,423	11,090	16.6	2.3
Secondary	Public	1,996	2,090	2,355	2,517	2,564	2,696	2,879	3,057	3,258	3,327	5.0	5.8
	Private	1,361	1,404	1,382	1,445	1,470	1,478	1,543	1,533	1,504	1,483	2.2	1.0
	Total	3,357	3,494	3,737	3,962	4,034	4,174	4,423	4,590	4,763	4,810	7.2	4.1
Grand Total	Public	10,636	11,055	11,678	12,121	12,292	12,585	12,773	12,970	13,346	14,009	21.0	3.1
	Private	1,951	2,041	2,031	2,125	2,169	2,185	2,329	2,351	2,320	2,342	3.5	2.1
	Total	12,587	13,096	13,710	14,247	14,461	14,769	15,102	15,321	15,666	16,351	24.5	3.0

Data Source : Department of Education, Culture and Sports and Philippine Statistical Yearbook, 1996, NSCB.

Table 2-19 NUMBER OF SCHOOLS BY LEVEL OF EDUCATION BY REGION

(Unit: Nos.)

Region No.	Administrative Region	Pre-School		Total	Elementary		Total	Secondary		Total	Grand Total	
		Public	Private		Public	Private		Public	Private		Public	Private
	NCR	372	665	1,037	473	543	1,016	115	569	684	900	1,577
	CAR	102	61	163	1,201	47	1,248	117	81	198	1,420	1,609
	Ilocos	598	89	687	2,343	115	2,458	378	173	551	3,219	3,596
1	Cagayan Valley	35	31	66	1,960	68	2,028	149	94	243	2,144	2,337
2	Central Luzon	435	249	684	2,569	235	2,804	285	233	518	3,289	4,006
3	Southern Tagalog	999	573	1,572	4,151	474	4,625	521	378	899	5,671	7,086
4	Bicol	360	105	465	2,886	103	2,989	358	141	499	3,604	3,953
5	Western Visayas	310	146	456	3,080	147	3,227	378	152	530	3,768	4,213
6	Central Visayas	197	140	337	2,682	129	2,811	273	169	442	3,152	3,590
7	Eastern Visayas	112	46	158	3,327	44	3,371	318	80	398	3,757	3,927
8	Western Mindanao	119	33	152	2,037	53	2,090	177	68	245	2,333	2,487
9	North Mindanao	15	111	127	1,524	87	1,611	148	124	272	1,888	2,010
10	Southern Mindanao	295	140	435	2,023	239	2,262	215	158	373	2,533	3,070
11	ARMM	188	75	263	1,768	80	1,848	146	93	241	1,604	1,852
12	CARAGA	62	3	65	1,604	8	1,612	86	24	110	1,752	1,787
	Total	4,352	2,811	7,163	34,483	2,418	36,901	3,799	2,418	6,217	42,634	49,981

Data Source: Department of Education, Culture and Sports.
 Note: Number in school year of 1995 to 1996

Table 2-20 NUMBER OF SCHOOL ENROLMENT BY LEVEL OF EDUCATION BY REGION

(Unit: Nos.)

Region No.	Administrative Region	Pre-School		Total	Elementary		Total	Secondary		Total	Grand Total	
		Public	Private		Public	Private		Public	Private		Public	Private
	NCR	38,748	67,257	106,005	904,518	250,538	1,155,056	426,046	275,048	701,094	1,369,532	1,962,475
	CAR	4,124	5,632	9,756	200,976	13,330	214,306	66,179	34,307	100,486	271,279	324,548
	Ilocos	23,458	9,757	33,215	573,295	19,534	592,849	250,991	76,579	327,570	847,744	953,434
1	Cagayan Valley	419	3,003	3,422	421,548	9,927	431,475	136,095	53,057	189,152	538,062	624,049
2	Central Luzon	27,610	29,866	57,476	992,361	65,770	1,058,131	312,236	191,204	503,440	1,337,207	1,624,047
3	Southern Tagalog	35,469	58,378	93,847	1,464,067	91,223	1,555,290	459,828	267,107	726,935	1,939,304	2,376,012
4	Bicol	6,428	4,816	11,244	809,740	15,796	825,536	224,605	75,133	299,738	1,040,773	1,134,638
5	Western Visayas	17,891	9,069	26,960	956,277	31,719	987,996	359,637	85,553	445,190	1,233,805	1,460,341
6	Central Visayas	19,729	16,400	36,129	787,455	29,258	816,713	218,308	120,754	339,062	1,025,492	1,191,904
7	Eastern Visayas	5,714	3,336	9,070	579,411	6,610	586,021	170,958	38,592	209,460	756,083	804,551
8	Western Mindanao	7092	4,508	11,597	501,516	7,536	509,052	137,340	31,563	168,903	645,948	689,552
9	North Mindanao	1,623	4,869	6,492	459,783	16,388	446,181	107,374	61,216	168,590	538,780	621,263
10	Southern Mindanao	9,885	14,326	24,211	382,115	38,215	797,459	222,797	76,773	299,570	991,926	1,121,240
11	ARMM	8,720	5,315	14,035	393,474	12,911	406,385	117,784	51,261	169,045	519,978	589,465
12	CARAGA	2,507	2,101	4,608	352,991	2,970	355,961	28,110	12,889	40,999	384,216	400,534
	Total	212,472	239,409	451,881	10,470,246	619,453	11,089,699	3,326,552	1,483,311	4,809,863	14,009,280	16,351,433

Data Source: Department of Education, Culture and Sports.
 Note: Number in school year of 1995 to 1996

Table 2-21 NUMBER OF HOSPITALS BY TYPE AND BY REGION

No.	Region	Kind of Hospital	Nos of Hospital								Nos of Hospital Per 100,000 population	Annual Average Growth Rate (%)			
			1987	1988	1989	1990	1991	1992	1993	1994		1995	1987-90	1990-95	1987-95
	Philippines	Public	590	596	597	598	562	639	537	503	589	0.9	0.45	-0.30	-0.02
		Private	1,209	1,186	1,170	1,135	1,101	1,103	1,095	1,068	1,111	1.6	-2.08	-0.43	-1.05
		Total	1,799	1,782	1,767	1,733	1,663	1,742	1,632	1,571	1,700	2.5	-1.24	-0.38	-0.71
	NCR	Public	41	41	38	38	39	39	30	34	42	0.4	-2.50	2.02	0.30
		Private	137	136	134	134	116	123	113	122	126	1.3	-0.74	-1.22	-1.04
		Total	178	177	172	172	155	162	143	156	168	1.8	-1.14	-0.47	-0.72
	CAR	Public	-	-	34	31	31	31	29	15	28	2.2	-	-2.02	-
		Private	-	-	36	36	32	32	28	24	28	2.2	-	-4.90	-
		Total	-	-	67	67	63	63	57	39	56	4.5	-	-3.52	-
1	Ilocos	Public	46	47	32	32	30	32	30	31	34	0.9	-11.39	1.22	-3.71
		Private	99	94	59	66	66	67	66	70	73	1.9	-12.64	2.04	-3.74
		Total	145	141	91	98	96	99	96	101	107	2.8	-12.24	1.77	-3.73
2	Cagayan Valley	Public	49	49	34	35	35	38	35	36	36	1.4	-10.61	0.57	-3.78
		Private	60	57	44	44	42	45	44	46	41	1.6	-9.82	-1.40	-4.65
		Total	109	106	78	79	77	83	79	82	77	3.0	-10.17	-0.51	-4.25
3	Central Luzon	Public	51	51	52	53	51	54	46	49	45	0.6	1.29	-3.22	-1.55
		Private	125	126	124	122	114	114	113	120	114	1.6	-0.81	-1.35	-1.14
		Total	176	177	176	175	165	168	159	169	159	2.3	-0.19	-1.90	-1.26
4	Southern Tagalog	Public	77	85	83	83	88	101	72	72	93	0.9	2.53	2.30	2.39
		Private	147	151	152	143	129	152	145	140	156	1.6	-0.92	1.76	0.75
		Total	224	236	235	226	187	253	217	212	249	2.5	0.30	1.96	1.33
5	Bicol	Public	44	44	44	44	44	48	44	48	48	1.1	0.00	1.76	1.09
		Private	108	103	102	94	94	94	92	93	91	2.1	-4.52	-0.65	-2.12
		Total	152	147	146	138	138	142	136	141	139	3.2	-3.17	0.14	-1.11
6	Western Visayas	Public	49	50	50	49	50	50	48	49	50	0.9	0.00	0.40	0.25
		Private	30	31	32	31	30	41	32	32	30	0.5	1.10	-0.65	0.00
		Total	79	81	82	80	80	91	80	81	80	1.4	0.42	0.00	0.16
7	Central Visayas	Public	42	43	43	41	41	42	40	43	44	0.9	-0.80	1.42	0.58
		Private	56	53	52	51	49	49	46	49	50	1.0	-3.07	-0.40	-1.41
		Total	98	96	95	92	90	91	86	92	94	1.9	-2.08	0.43	-0.52
8	Eastern Visayas	Public	49	49	49	49	48	49	45	45	48	1.4	0.00	-0.41	-0.26
		Private	30	26	23	23	25	26	24	26	26	0.8	-8.48	2.48	-1.77
		Total	79	75	72	72	73	75	69	71	74	2.2	-3.05	0.55	-0.81
9	Western Mindanao	Public	39	38	38	38	37	27	23	20	30	1.1	-0.86	-4.62	-3.23
		Private	46	43	46	46	49	49	49	50	50	1.8	0.00	1.68	1.05
		Total	85	81	84	84	86	76	72	70	80	2.9	-0.39	-0.97	-0.75
10	Northern Mindanao	Public	48	46	46	46	43	45	37	15	19	0.8	-1.41	-16.21	-10.94
		Private	103	101	103	96	104	45	100	60	73	2.9	-2.32	-5.33	-4.21
		Total	151	147	149	142	147	90	137	75	92	3.7	-2.03	-8.31	-6.01
11	Southern Mindanao	Public	31	27	31	33	30	42	31	22	24	0.5	2.11	-6.17	-3.15
		Private	163	167	164	153	158	162	164	152	145	3.1	-2.09	-1.07	-1.45
		Total	194	194	195	186	188	204	195	174	169	3.7	-1.39	-1.90	-1.71
12	Central Mindanao	Public	24	26	26	26	25	19	9	8	13	0.6	2.70	-12.94	-7.38
		Private	105	98	99	96	93	100	68	72	74	3.1	-2.94	-5.07	-4.28
		Total	129	124	125	122	118	119	77	80	87	3.7	-1.84	-6.54	-4.80
	ARMM	Public	-	-	-	-	-	22	18	16	19	0.9	-	-	-
		Private	-	-	-	-	-	4	11	12	10	0.5	-	-	-
		Total	-	-	-	-	-	26	29	28	29	1.4	-	-	-
	CARAGA	Public	-	-	-	-	-	-	-	-	16	0.8	-	-	-
		Private	-	-	-	-	-	-	-	-	24	1.2	-	-	-
		Total	-	-	-	-	-	-	-	-	40	2.1	-	-	-

Data Source: Bureau of Medical Services, Department of Health and Philippine Statistical Yearbook, 1996, NSCB

Table 2-22 NATIONAL GOVERNMENT REVENUES BY TYPE

Item	(Unit: Mill. pesos)							
					Annual Average Growth Rate(%)			
	1985	1990	1995	1996	1985-1990	1990-1995	1985-1995	
1. Tax Revenue	61,253	151,698	310,517	367,894	19.9	15.4	17.6	
a. Taxes on net income and profits	18,655	49,366	111,165	-	21.5	17.6	19.5	
b. Taxes on property	173	279	417	-	10.0	8.4	9.2	
c. Taxes on goods and services	22,677	50,745	84,840	-	17.5	10.8	14.1	
d. Taxes on international trade and transactions	18,441	45,570	97,965	-	20.4	16.0	18.2	
e. Other taxes	1,307	4,738	16,130	-	29.4	27.8	28.6	
2. Non-tax revenue	7,708	29,204	50,683	42,555	30.5	11.7	20.7	
a. Non-tax revenue proper	7,325	22,642	26,866	36,326	25.3	3.5	13.9	
b. Capital revenue	3	4,181	22,829	5,660	325.4	40.4	144.4	
c. Grants	380	2,381	988	569	44.3	-16.1	10.0	
Total	68,961	180,902	361,200	410,449	21.3	14.8	18.0	

Source : Department of Budget and Management

Table 2-23 EXPENDITURE PROGRAM BY SECTOR

Particulars	Level (in million pesos)			Percent Disbursement			Increase Rate (1997-1995)
	1995	1996	1997	1995	1996	1997	
	I. Social Services	99,953	135,019	156,397	26.9	30.3	
1. Education, Culture, and Manpower Development	61,658	78,989	93,512	16.6	17.7	19.6	1.52
2. Health	8,381	13,934	15,919	2.3	17.7	3.3	1.90
3. Social Security, labor and Employment	6,913	8,910	11,450	1.9	3.1	2.4	1.66
4. Housing and Community Development	3,276	2,611	2,141	0.9	2.0	0.4	0.65
5. Land Distribution	0	5,535	3,169	0.0	0.6	0.7	
6. Other Special Services	498	4,100	3,918	0.1	1.2	0.8	2.87
7. Subsidy to Local Government Units	19,256	20,940	26,288	5.2	0.9	5.5	1.37
II. Economic Services	102,413	119,595	124,955	27.5	26.8	26.2	1.22
1. Agriculture, Agrarian Reform, and Natural Resources	23,586	29,763	31,597	6.3	6.7	6.6	1.34
2. Trade and Industry	6,391	3,833	4,292	1.7	0.9	0.9	0.67
3. Tourism	793	701	705	0.2	0.2	0.1	0.69
4. Power and Energy	3,490	1,147	753	0.9	0.3	0.2	0.22
5. Water Resources Development and Flood Control	3,949	3,733	4,656	1.1	0.8	0.9	1.03
6. Communications, Roads, and Other Transport	40,853	51,026	50,665	11.0	11.4	10.6	0.70
7. Other Economic Services	5,145	9,584	8,019	1.4	2.2	1.7	4.83
8. Subsidy to Local Government Units	18,215	19,868	24,567	4.9	4.4	5.2	4.90
III. Defense	27,493	34,849	37,092	7.4	7.8	7.8	1.35
1. Domestic Security	27,493	34,699	36,942	7.4	7.8	7.8	1.34
2. Peace and Order	0	150	150	0.0	0.0	0.0	
IV. General Public Services	65,613	74,875	82,384	17.6	16.8	17.3	1.26
1. General Administration	25,619	27,064	27,609	6.9	6.1	5.8	1.08
2. Public Order and Safety	22,799	30,457	33,854	6.1	6.8	7.1	1.19
3. Other General Public Services	2,546	1,471	980	0.7	0.3	0.2	0.38
4. Subsidy to Local Government Units	14,619	15,853	19,931	3.9	3.6	4.2	1.36
V. Net Lending	3,696	2,504	1,111	1.0	0.6	0.2	0.30
VI. Interest Payments	72,551	78,893	74,201	19.6	17.7	15.6	1.02
Total	372,681	445,735	476,170	100.0	100.0	100.0	1.28

Note: Principal amortization is included under financing account.
Data Source : Department of Budget and Management

Table 2-24 FOREIGN TRADE OF THE PHILIPPINES

(Unit : F.O.B. value in million U.S. dollars)

Year	Total Trade	Export		Import		Balance of Trade Favorable Unfavorable (-)
		Value	Percent to Total Trade	Value	Percent to Total Trade	
1971	2,450.1	1,189.3	48.5	1,260.8	51.5	-71.6
1972	2,502.0	1,168.4	46.7	1,333.6	53.3	-165.2
1973	3,433.8	1,837.2	53.5	1,596.6	46.5	240.6
1974	5,868.3	2,725.0	46.4	3,143.3	53.6	-418.3
1975	5,753.7	2,294.5	39.9	3,459.2	60.1	-1,164.7
1976	6,207.2	2,573.7	41.5	3,633.5	58.5	-1,059.8
1977	7,065.7	3,150.9	44.6	3,914.8	55.4	-763.9
1978	8,157.1	3,424.9	42.0	4,732.2	58.0	-1,307.3
1979	10,742.9	4,601.2	42.8	6,141.7	57.2	-1,540.5
1980	13,514.7	5,787.8	42.8	7,726.9	57.2	-1,939.1
1981	13,666.1	5,720.4	41.9	7,945.7	58.1	-2,225.3
1982	12,687.5	5,020.6	39.6	7,666.9	60.4	-2,646.3
1983	12,491.9	5,005.3	40.1	7,486.6	59.9	-2,481.3
1984	11,460.2	5,390.6	47.0	6,069.6	53.0	-679.0
1985	9,739.6	4,629.0	47.5	5,110.7	52.5	-481.7
1986	9,885.4	4,841.8	49.0	5,043.6	51.0	-201.8
1987	12,457.2	5,720.2	45.9	6,737.0	54.1	-1,016.7
1988	15,233.6	7,074.2	46.4	8,159.4	53.6	-1,085.2
1989	18,239.5	7,820.7	42.9	10,418.8	57.1	-2,598.1
1990	20,392.2	8,186.0	40.1	12,206.2	59.9	-4,020.1
1991	20,890.9	8,839.5	42.3	12,051.4	57.7	-3,211.9
1992	24,343.2	9,824.3	40.4	14,518.9	59.6	-4,694.6
1993	28,972.2	11,374.8	39.3	17,597.4	60.7	-6,222.6
1994	34,815.5	13,482.9	38.7	21,332.6	61.3	-7,849.7
1995	43,984.8	17,447.2	39.7	26,537.6	60.3	-9,090.4
1996 *p)	52,969.5	20,542.6	38.8	32,426.9	61.2	-11,884.4
Annual Average Growth Rate (%)	13.1	12.1	-0.9	13.9	0.7	22.7
Increase Rate (1971=1.00)	21.6	17.3	0.8	25.7	1.2	166.0

Note : *p) Preliminary data

Data Source : National Statistics Office (NSO) and the Central bank of Philippines

Table 2-25 VALUE OF EXPORTS BY MAJOR COMMODITY GROUP

		(Unit: Million U.S. \$)							Annual
Commodity Group	1990	1991	1992	1993	1994	1995	1996	Average Growth Rate (%)	
I. Coconut Product	503	417	643	532	639	989	730	6.40	
1. Copra	20	19	11	7	9	13	1	-39.30	
2. Coconut Oil	361	299	481	358	475	826	571	7.94	
3. Desiccated Coconuts	61	66	88	84	70	68	85	5.69	
4. Copra Meal Cake	54	55	53	45	53	67	56	0.61	
5. Aircraft, Ships & Boats	7	8	10	38	32	15	17	15.94	
II. Sugar and Products	133	136	110	129	77	74	139	0.74	
1. Centrifugal & Refines	111	115	88	102	61	66	136	3.44	
2. Molasses	22	21	21	26	14	7	3	-28.26	
3. Others			1	1	2	1	0		
III. Fruits and Vegetables	326	393	371	439	429	458	486	6.88	
1. Canned Pineapple	89	95	96	94	90	81	93	0.74	
2. Pineapple Juice	7	9	7	8	9	10	11	7.82	
3. Pineapple Concentrates	24	27	24	22	22	24	27	1.98	
4. Bananas	149	173	158	226	215	224	237	8.04	
5. Mangoes	15	24	29	27	30	43	40	17.76	
6. Others	42	65	57	62	63	76	78	10.57	
IV. Other Agro-Based Products	431	504	432	476	530	575	506	2.71	
1. Fish, Fresh or reserved	294	353	290	343	379	378	296	0.11	
of which: Shrimps & Prawns	219	273	211	225	246	215	149	-6.22	
2. Coffee, Raw, not Roasted	8	5	1	1	8	7	1	-29.29	
3. Abaca, Fibers	16	17	24	19	20	23	21	4.64	
4. Tobacco Unmanufactured	20	43	34	26	23	21	29	6.39	
5. Natural Rubber	12	13	9	12	14	28	33	18.36	
6. Ramie Fibers, Raw or Roasted	5	3	1	1	1	0	0		
7. Seaweed's, Dried	50	21	19	18	22	39	42	-2.86	
8. Rice		2	9			0	0		
9. Others	26	47	48	56	63	79	84	21.59	
V. Forest Products	94	73	57	45	26	38	42	-12.56	
1. Logs	0		
2. Lumber	19	20	19	26	10	18	25	4.68	
3. Plywood	59	44	31	17	4	6	5	-33.72	
4. Veneer Sheets Corestocks	13	8	7	2	12	14	12	-1.33	
4. Others	3	1				0	0		
VI. Mineral Products	723	610	633	686	780	893	772	1.10	
1. Copper Concentrates	207	174	140	109	113	134	52	-20.57	
2. Copper Metals	281	222	217	264	270	341	297	0.93	
3. Gold	90	65	128	51	65	62	55	-7.88	
4. Iron Ore Agglomerates	81	78	63	62	74	74	70	-2.40	
5. Chromium Ore	17	16	14	9	8	12	8	-11.81	
6. Nickel		1				0	0		
7. Others	47	54	71	191	250	270	290	35.43	
VII. Petroleum Products	155	175	150	136	132	171	273	9.89	
VIII. Manufactures	5,707	6,403	7,298	8,729	10,615	13,868	17,106	20.08	
1. Elec. & Elec. Eqpt Parts & Telecom	1,964	2,293	2,753	3,551	4,984	7,413	9,990	31.14	
2. Ganerents	1,276	1,861	2,140	2,272	2,375	2,570	2,423	5.31	
3. Textile Yarns/Fabrics	93	100	121	118	173	208	253	18.15	
4. Footwear	109	141	144	168	210	207	171	7.79	
5. Travel Goods and Handbags	43	45	53	54	76	110	121	18.82	
6. Wood Manufactures	117	117	113	105	129	134	151	4.34	
7. Furniture & Fixtures	189	177	181	203	240	276	293	7.58	
8. Chemicals	261	304	268	262	306	343	353	5.16	
9. Non-Metallic Mineral Manufactures	57	74	80	87	96	108	95	8.89	
10. Machinery & transport Equipment	150	181	288	363	469	741	1,296	43.25	
11. Processed Food and Beverages	207	233	220	271	303	292	334	8.30	
12. Iron & Steel	77	53	23	50	53	56	60	0.64	
13. Baby Carr., Toys, Games & Sporting	67	117	149	168	190	231	224	22.28	
14. Basketwork, Wickerwork & Other Articles of Plaiting Materials	128	122	133	132	134	125	101	-3.87	
15. Misc. Manufactured Articles, n.e.s	133	146	163	187	194	200	220	8.75	
16. Others	336	439	469	738	683	854	1,001	19.95	
IX. Special Transactions	19	17	32	38	74	108	157	42.19	
X. Re-Exports	95	82	98	165	181	273	332	23.19	
Total	8,186	8,840	9,824	11,375	13,483	17,447	20,543	16.57	

Data Source : National Statistics Office (NSO)

Table 2-26 VALUE OF IMPORTS BY COMMODITY GROUPS

Commodity Group	(Unit: Million U.S. \$)							Annual Average Growth Rate (%)
	1990	1991	1992	1993	1994	1995	1996	
I. Capital Goods	3,122	2,952	4,023	5,610	6,865	8,029	10,472	22.35
1. Power Generating & Specialized machines	1,282	1,047	1,434	2,073	2,502	2,874	3,647	19.03
2. Office & EDP machines	126	151	369	274	333	525	867	37.91
3. Telecommunication Eqpt. & Elect. Mach.	972	1,186	1,471	1,914	2,531	3,211	4,211	27.68
4. Land Transport Eqpt., excl. Passengers cars & Motorized Cycle	295	186	271	370	401	602	822	18.62
5. Aircraft, Ships & Boats	305	238	305	723	799	459	459	7.05
6. Prof. Sci. & Cont. Inst., Photographic Eqpt. & Optical Goods	142	144	173	251	302	358	466	21.90
II. Raw Materials & Intermediate Goods	5,808	5,851	6,759	7,855	9,606	12,174	14,048	15.86
1. Unprocessed Raw materials	862	841	947	981	1,278	1,562	1,720	12.20
Wheat	220	172	235	260	324	349	375	9.30
Corn	50	-	-	-	-	33	86	9.46
Unmilled cereals excl. rice & corn	1	1	7	1	2	2	2	12.25
Crude Materials, inedible	532	597	613	664	862	1,090	1,195	14.41
Tobacco, unmanufactured	59	71	92	56	90	88	62	0.83
2. Semi-Processed Raw Materials	4,946	5,010	5,812	6,874	8,328	10,612	12,328	16.41
Feeding stuffs for animals	174	153	186	234	195	263	187	1.21
Animal & vegetable oils & fats	25	22	34	24	38	38	57	14.72
Chemical	1,367	1,328	1,492	1,668	2,016	2,406	2,574	11.12
Manufactured goods	1,794	1,714	2,139	2,590	2,893	3,572	3,948	14.05
Paper & paper products	139	125	155	189	261	310	309	14.24
Textile yarn, fabrics & made-up articles	547	539	642	704	780	872	825	7.09
Non-metallic mineral manufactures	114	63	126	104	118	156	276	15.88
Iron & steel	572	564	676	820	870	1,312	1,436	16.58
Non-ferrous metals	177	170	209	209	260	335	347	11.87
Metal products	132	146	176	366	391	297	405	20.54
Others	113	107	155	198	213	260	350	20.73
Embroideries	426	514	502	468	411	472	349	-3.27
Mat/Acc for the mfr. of elec. eqpt.	1,106	1,208	1,401	1,808	2,711	3,772	5,130	29.14
Iron ore, not agglomerated	54	71	58	82	64	89	83	7.43
III. Mineral Fuels & Lubricant	1,842	1,784	2,050	2,016	2,040	2,461	3,008	8.52
1. Coal, Coke	36	65	30	31	33	59	81	14.47
2. Petroleum, Crude	1,583	1,400	1,627	1,316	1,308	1,931	2,458	7.61
3. Others	223	319	393	669	699	471	469	13.19
IV. Consumer Goods	1,061	990	1,241	1,587	2,109	2,784	3,331	21.01
1. Durable	392	478	620	842	1,124	1,459	1,653	27.11
Passenger cars & motorized cycle	215	256	333	471	625	801	932	27.69
Home appliances	25	34	50	59	95	152	123	30.41
Misc. manufactures	152	188	237	312	404	506	598	25.64
2. Non-Durable	669	512	621	745	985	1,325	1,678	16.56
Food & live animals chiefly for food	628	460	562	637	815	1,204	1,578	16.69
Dairy products	253	211	253	260	316	409	389	7.43
Fish & fish preparation	48	62	61	49	53	59	69	6.24
Rice	117	-	-	36	0	76	294	16.60
Fruits & vegetables	50	37	54	66	99	97	123	16.19
Others	160	150	194	226	347	563	703	27.98
Beverage & tobacco mfire.	28	33	37	77	138	72	46	8.63
Article of apparel, access	13	19	22	31	32	49	54	26.79
V. Special Transactions	373	474	446	529	710	943	1,016	18.18
1. Articles Temporarily imported & exported	150	198	179	266	434	530	705	29.42
2. Others	223	276	267	263	276	413	311	5.70
Total	12,206	12,051	14,519	17,597	21,333	26,391	31,875	17.35

Data Source : National Statistics Office (NSO)

Table 2-27 BALANCE OF PAYMENT

Item	(Unit: Million U.S. \$)							Annual Average Growth Rate (%)	Increased Amount (1990-1996)
	1990	1991	1992	1993	1994	1995	1996		
I. Current Account									
A. Trade Net	-3,281	-4,606	-1,675	-3,715	-3,886	-4,179	-4,503	5.4	-1,222
(As percent of GNP)	-7.4	-3.7	-3.1	-6.7	-5.9	-5.5	-5.2		2.2
Goods Net	-4,020	-3,214	-4,695	-6,222	-7,850	-8,944	-11,342	18.9	-7,322
(As percent of GNP)	-9.1	-7.0	-8.7	-11.2	-11.9	-11.7	-13.0		-3.9
Exports	8,186	8,840	9,824	11,375	13,483	17,447	20,543	16.6	12,357
Imports	12,206	12,051	14,519	17,597	21,333	26,391	31,885	17.4	19,679
Service Net	739	1,515	3,020	2,507	3,964	4,765	6,839	44.9	6,100
Receipts	4,842	5,624	7,443	7,497	10,550	14,374	19,006	25.6	14,164
Payments	4,103	4,109	4,423	4,990	6,586	9,609	12,167	19.9	8,064
B. Transfers Net	714	827	817	699	936	882	589	-3.2	-125
Inflow	717	828	826	746	1,011	1,147	1,185	8.7	468
Outflow	3	1	9	47	105	265	595	141.6	593
Current Account Net	-2,567	-869	-858	-3,016	-2,950	-3,297	-3,914	7.3	-1,347
(As percent of GNP)	-5.8	-1.9	-1.6	-5.5	-4.5	-4.3	-4.5		1.3
II. Capital and Financial Account									
A. Medium & Long-Term Loans, Net	674	835	633	2,455	1,313	1,276	2,690	25.9	2,016
Availment	4,575	3,622	7,432	5,205	4,369	3,927	6,329	5.6	1,754
Repayment	3,901	2,787	6,799	2,750	3,056	2,651	3,639	-1.2	-262
B. Investments, Net	450	654	737	812	1,558	1,609	1,168	16.0	688
Non-Res. Investments in the Phils	498	681	931	2,135	2,492	2,944	3,621	39.2	3,123
Residents Investments Abroad	18	27	194	1,323	934	1,335	2,453	126.8	2,435
C. Change in the NFA of KBs	603	40	289	-299	674	1,574	4,211	38.3	3,608
D. Purchase of Collateral	-	-	-469	-	-	-	-	-	-
E. Short-Term Capital Net	19	349	660	-148	1,002	-56	540	74.7	521
Capital and Financial Account, Net	1,776	1,878	1,850	2,820	4,547	4,403	8,609	30.1	6,833
III. Others									
A. Monetization of Gold	218	245	130	113	154	177	198	-1.6	-20
B. Revaluation Adjustments	500	387	527	431	100	-96	-203	14.5	-1,003
Others Total	1,018	632	657	544	254	81	-5	12.3	-1,023
IV. Net Unclassified Items	-320	462	-157	-514	-49	-556	-583	-10.5	-263
V. Overall BOP position	-93	2,103	1,492	-166	1,802	631	4,107	88.7	4,200
(As percent of GNP)	-0.2	4.6	2.8	-0.3	2.7	0.8	4.7		

Data Source: F.D. MEOD, TD, D.R. BSP

Table 2-28 SELECTED EXTERNAL DEBT RATIOS

Item	(Unit: Million U.S. \$)							Annual Average Growth Rate (%)
	1990	1991	1992	1993	1994	1995	1996	
I. Debt Service Burden (DSB)								
Principal	1,712	1,140	1,607	1,791	2,647	2,853	2,795	8.51
Interest	1,835	1,688	1,335	1,438	1,541	2,179	2,166	2.60
Total	3,547	2,828	2,942	3,229	4,188	5,032	4,961	5.75
II. Export Shipment	8,186	8,840	9,824	11,375	13,483	17,447	20,543	16.57
III. Exports of Goods & Services	13,028	14,464	17,267	18,872	24,033	31,821	39,549	20.33
IV. Current Account Receipts	13,745	15,292	18,093	19,618	25,074	32,968	40,734	19.85
V. Gross National Product	44,073	45,656	53,889	55,321	65,742	76,150	87,084	12.02
VI. Foreign Exchange Liabilities (End of Period)	28,549	29,956	30,934	34,282	37,079	37,778	41,875	6.59
VII. Gross International Reserves (End of Period)	2,048	4,526	5,338	5,922	7,122	7,762	11,745	33.79
VIII. Ratios (%)								
1. DSB to Export Shipments	43.33	31.99	29.95	28.39	31.06	28.84	24.15	-9.28
2. DSB to Export of Goods & Service	27.23	19.55	17.04	17.11	17.13	15.81	12.54	-12.12
3. DSB to Current Account Receipts	25.81	18.49	16.26	16.46	16.70	15.26	12.18	-11.76
4. DSB to Gross National Products	8.05	6.19	5.46	5.84	6.37	6.61	5.70	-5.60
5. Foreign Exchange Liabilities to Gross National Product	64.78	65.61	57.40	61.97	56.40	49.59	48.09	-4.84
6. Gross International Reserves to Debt Service Burden	57.74	160.04	181.44	183.40	170.06	154.25	236.75	26.54

Data Source: Central Bank of Philippines.

Table 2-29 LONG-TERM TREND OF PESO TO U.S. DOLLAR RATE

Year	Exchange Rate		Index (1976=1.00)	
	Peso per US Dollar Rate	US Dollar per Peso Rate	Peso per US Dollar Rate	US Dollar per Peso Rate
1976	7.4403	0.1344	1.00	1.00
1977	7.4028	0.1351	0.99	1.01
1978	7.3658	0.1358	0.99	1.01
1979	7.3776	0.1355	0.99	1.01
1980	7.5114	0.1331	1.01	0.99
1981	7.8997	0.1266	1.06	0.94
1982	8.5400	0.1171	1.15	0.87
1983	11.1127	0.0900	1.49	0.67
1984	16.6987	0.0599	2.24	0.45
1985	18.6073	0.0537	2.50	0.40
1986	20.3857	0.0491	2.74	0.36
1987	20.5677	0.0486	2.76	0.36
1988	21.0947	0.0474	2.84	0.35
1989	21.7367	0.0460	2.92	0.34
1990	24.3105	0.0411	3.27	0.31
1991	27.4786	0.0364	3.69	0.27
1992	25.5125	0.0392	3.43	0.29
1993	27.1198	0.0369	3.65	0.27
1994	26.4172	0.0379	3.55	0.28
1995	26.7144	0.0374	3.59	0.28
1996	26.2157	0.0381	3.52	0.28
1997	28.7707	0.0348	3.87	0.26

Note: 1. The figure of 1997 is the average of eleven months of January to November.

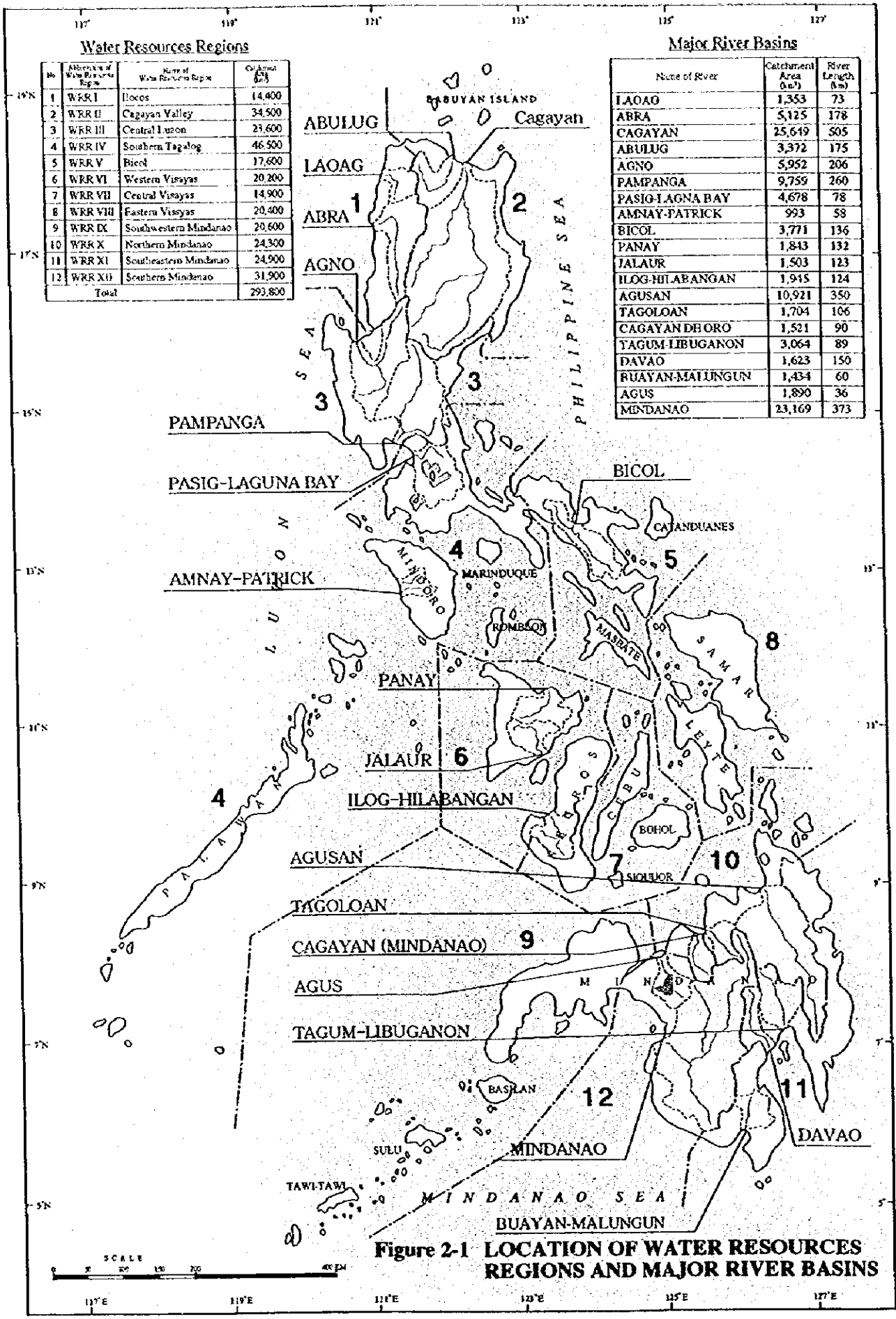
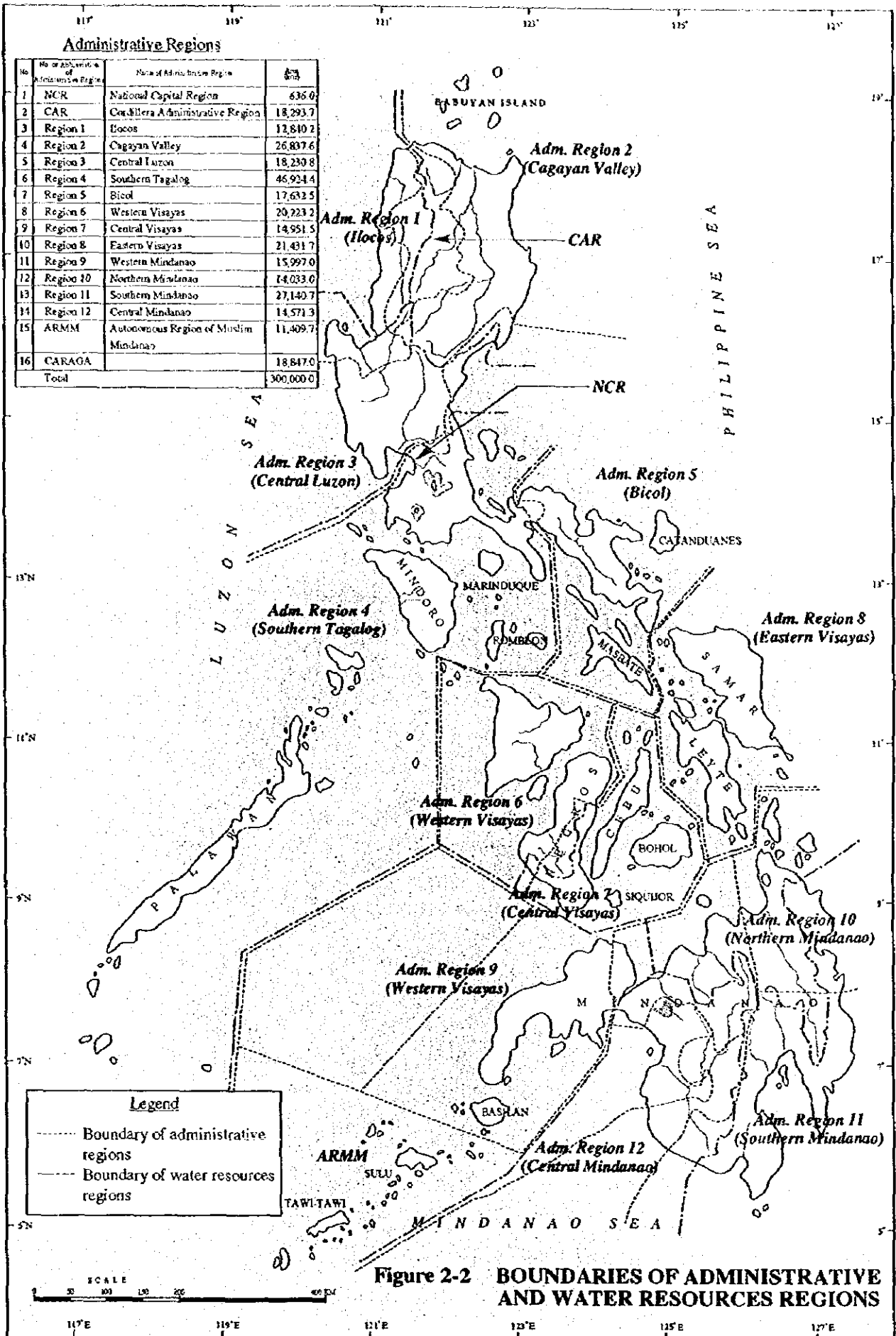
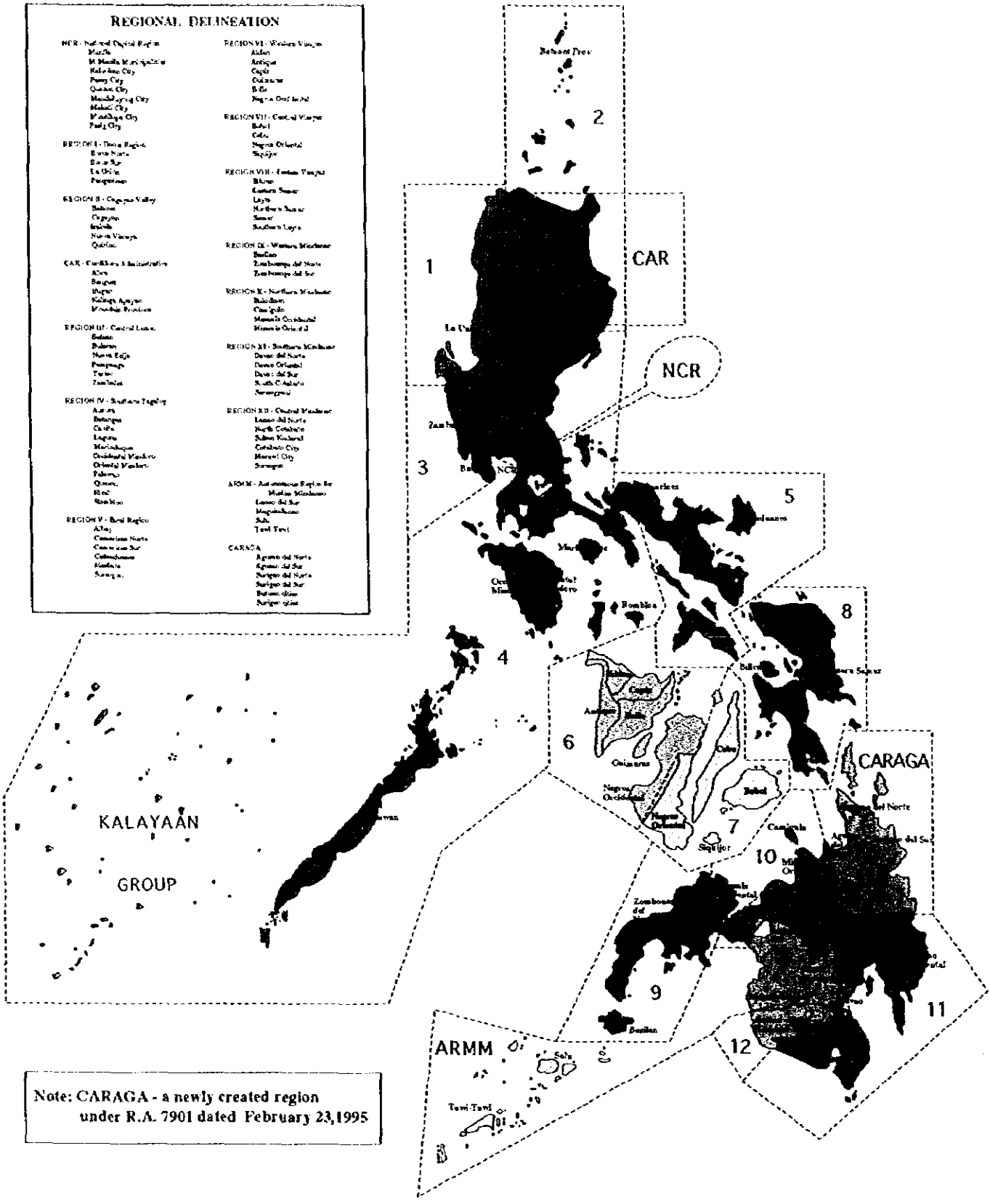


Figure 2-1 LOCATION OF WATER RESOURCES REGIONS AND MAJOR RIVER BASINS



Map of the Philippines 1995

REGIONAL DELINEATION	
REGION I - Ilocos Region Ilocos Norte Ilocos Sur La Union Pangasinan	REGION VI - Western Visayas Aklan Antique Capele Cebu Iloilo Negros Occidental Siquijor
REGION II - Cagayan Valley Bataan Cagayan Isabela Nueva Vizcaya Quirino	REGION VII - Central Visayas Bacolod Cebu Negros Oriental Siquijor
REGION III - Central Luzon Bataan Bulacan Marikina Pangasinan Tarlac Zambales	REGION VIII - Eastern Visayas Eastern Samar Leyte Northern Samar Samar Southern Leyte
REGION IV - Southern Tagalog Agusan Boracay Cebu Laguna Marikina Occidental Mindoro Oriental Mindoro Palawan Quezon Rizal Samarang	REGION IX - Northern Mindanao Bukidnon Cebu Misamis Occidental Misamis Oriental
REGION V - Basil Region Abaco Camarines Norte Camarines Sur Cebu Iloilo Samarang	REGION X - Southern Mindanao Davao del Norte Davao Oriental Davao del Sur Mindanao Surigao
CAR - Cordillera Administrative Region Abaco Boracay Cebu Kalinga Munoz Munoz Province	REGION XI - Central Mindanao Davao del Norte North Cotabato South Cotabato Cotabato City Maguindao Surigao
ARM - Autonomous Region in Muslim Mindanao Maguindao Cotabato Maguindao Sulu Tawi-Tawi	CARAGA Agusan del Norte Agusan del Sur Surigao del Norte Surigao del Sur Davao Oriental Surigao



Note: CARAGA - a newly created region under R.A. 7901 dated February 23, 1995

Figure 2-3 PROVINCES IN EACH ADMINISTRATIVE REGION

Map of the Philippines 1995

REGIONAL DELINEATION

<p>III - Ilocos Region</p> <p>Abra Bataan Bukidnon Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>	<p>II - Luzon</p> <p>Albay Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>
<p>IV - MIMAROPA</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>	<p>V - CALABARZON</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>
<p>VI - CAGAYAN</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>	<p>VII - CENTRAL LUZON</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>
<p>VIII - MINDANAO</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>	<p>IX - SOUTH LUZON</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>
<p>X - WESTERN VISAYAS</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>	<p>XI - EASTERN VISAYAS</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>
<p>XII - CORDILLERA</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>	<p>XIII - SOUTH MINDANAO</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>
<p>XIV - NORTH MINDANAO</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>	<p>XV - CARAGA</p> <p>Abra Bataan Bulacan Cebu Davao Iloilo Luzon Mindanao Negros Palawan</p>

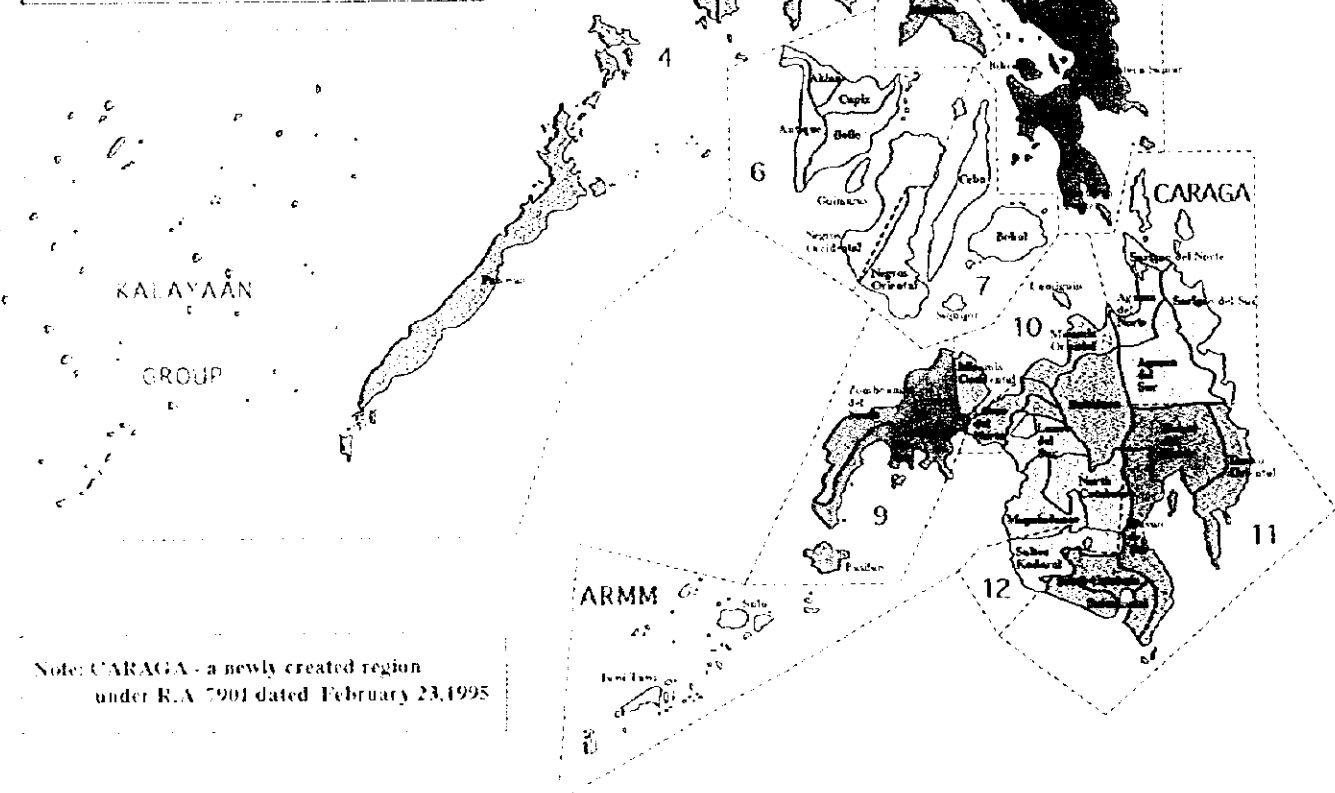


Figure 2-3 PROVINCES IN EACH ADMINISTRATIVE REGION

Map of the Philippines 1995

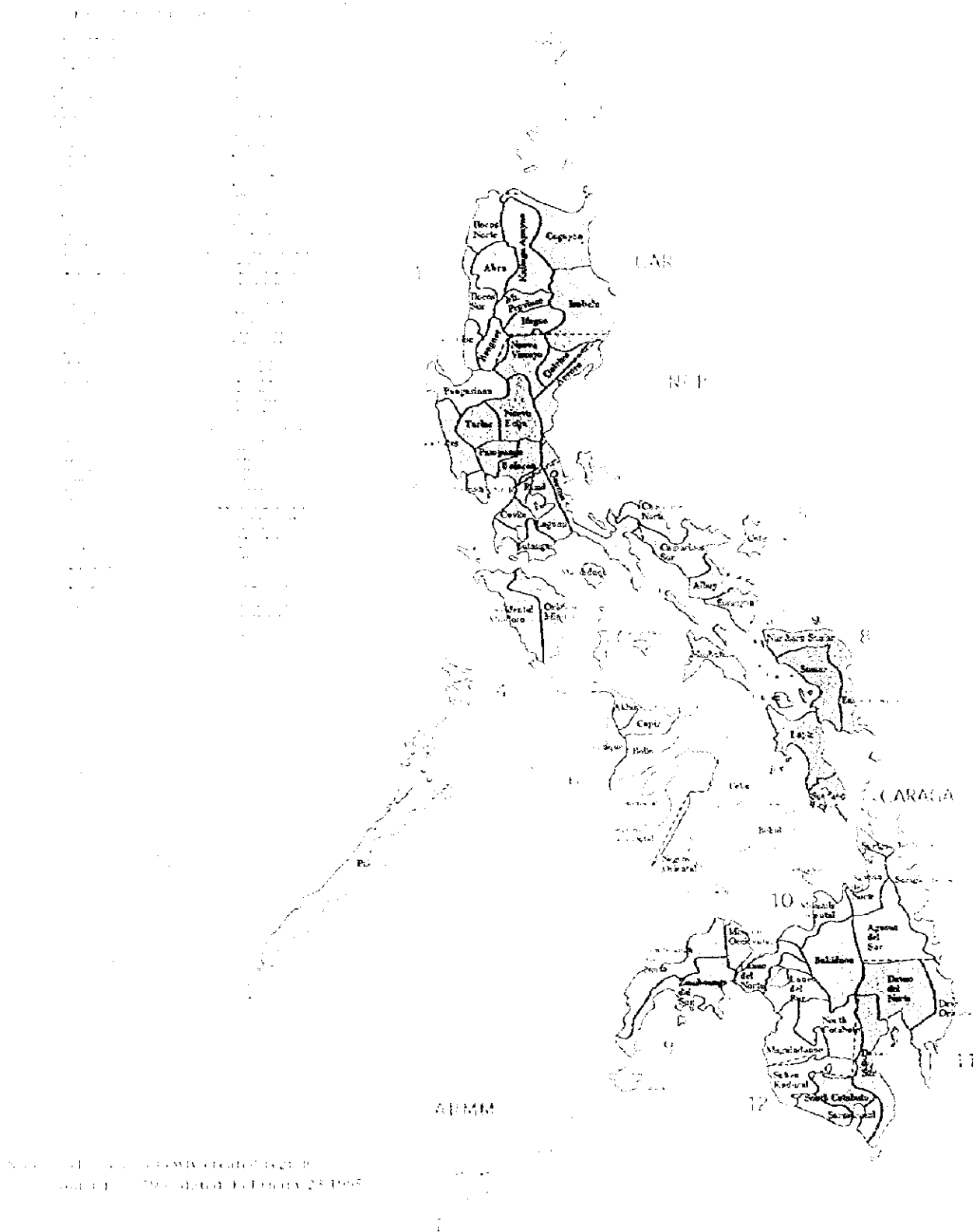


Figure 2-3 PROVINCES IN EACH ADMINISTRATIVE REGION

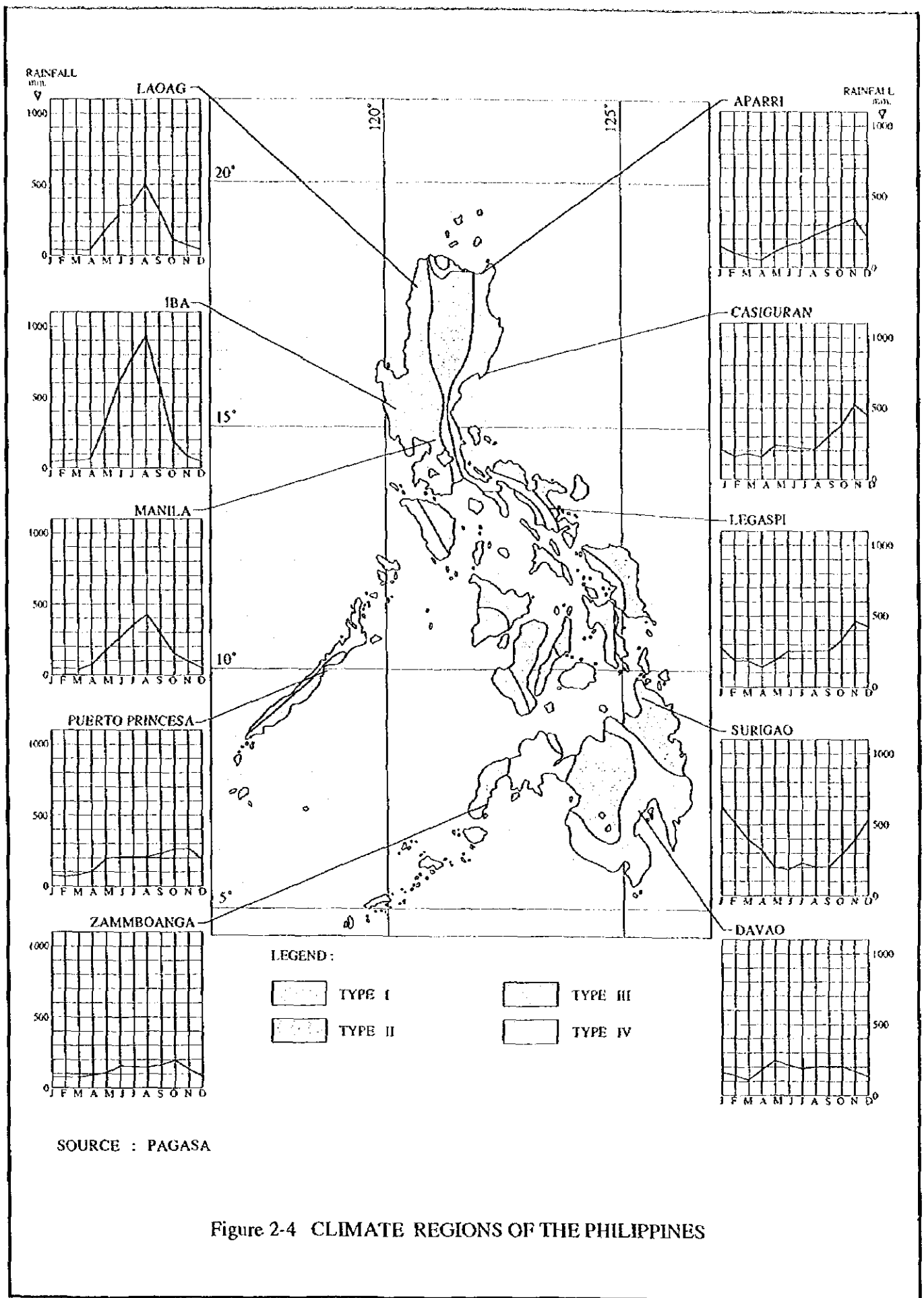


Figure 2-4 CLIMATE REGIONS OF THE PHILIPPINES



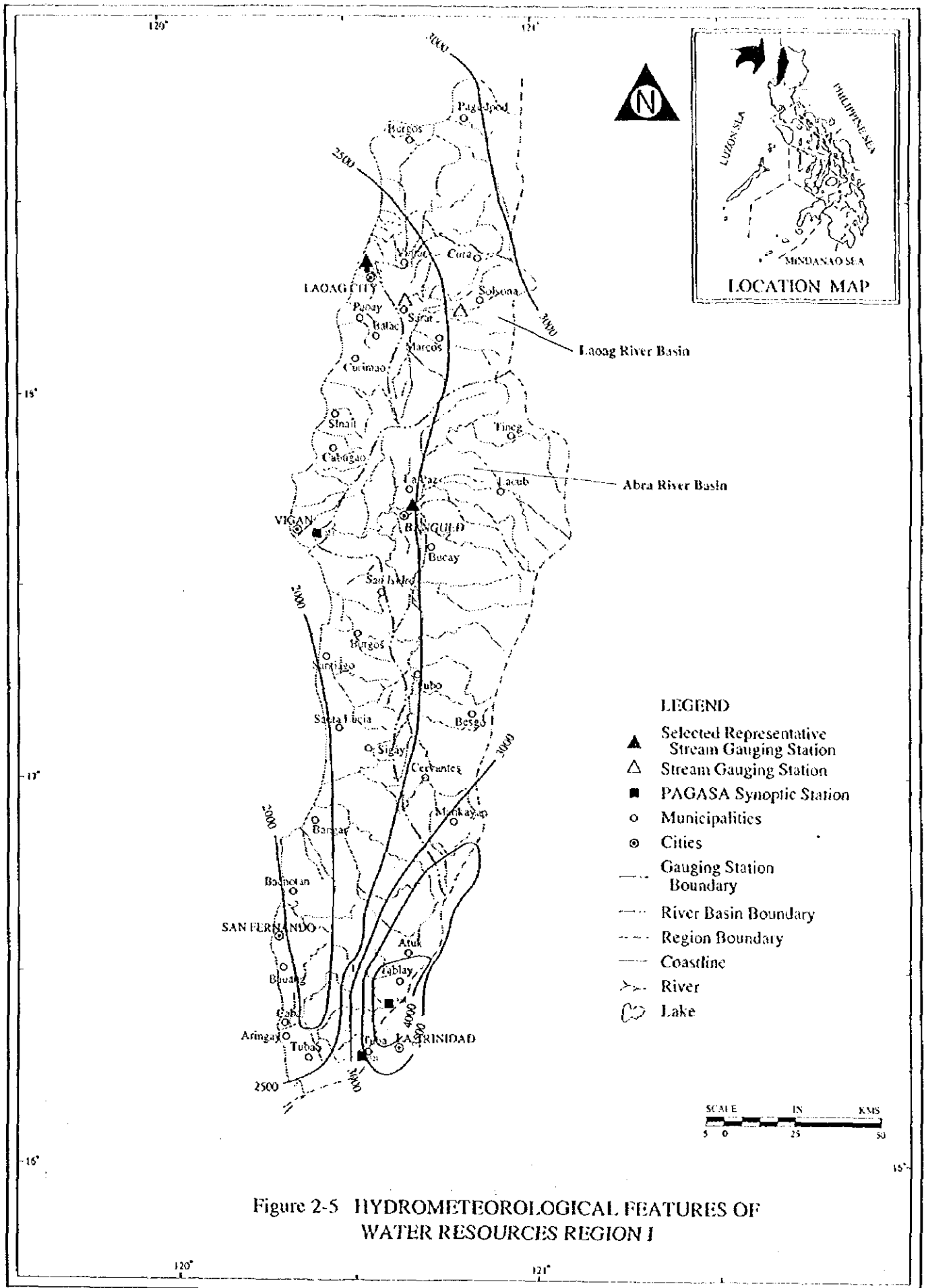


Figure 2-5 HYDROMETEOROLOGICAL FEATURES OF WATER RESOURCES REGION I

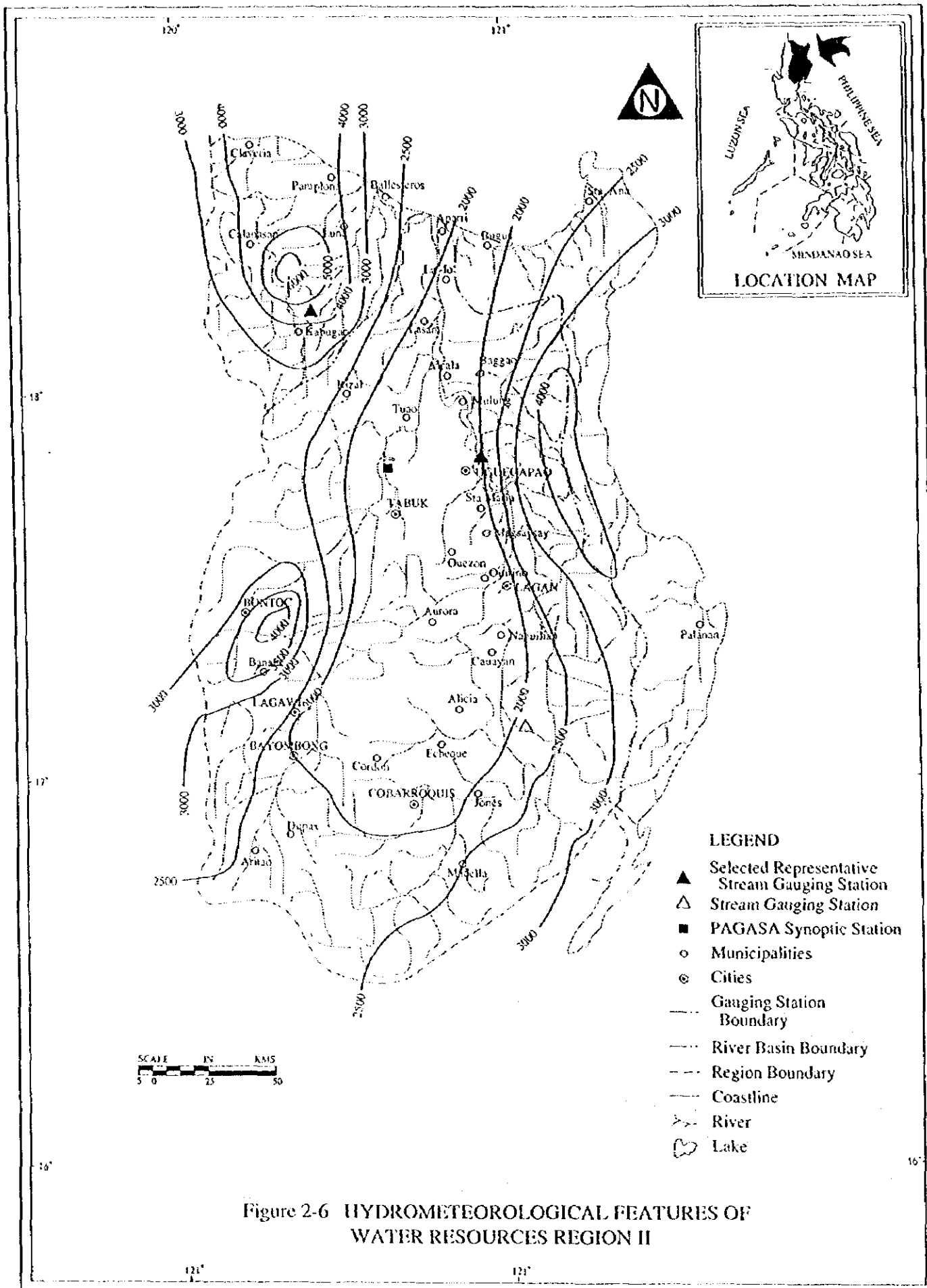


Figure 2-6 HYDROMETEOROLOGICAL FEATURES OF WATER RESOURCES REGION II

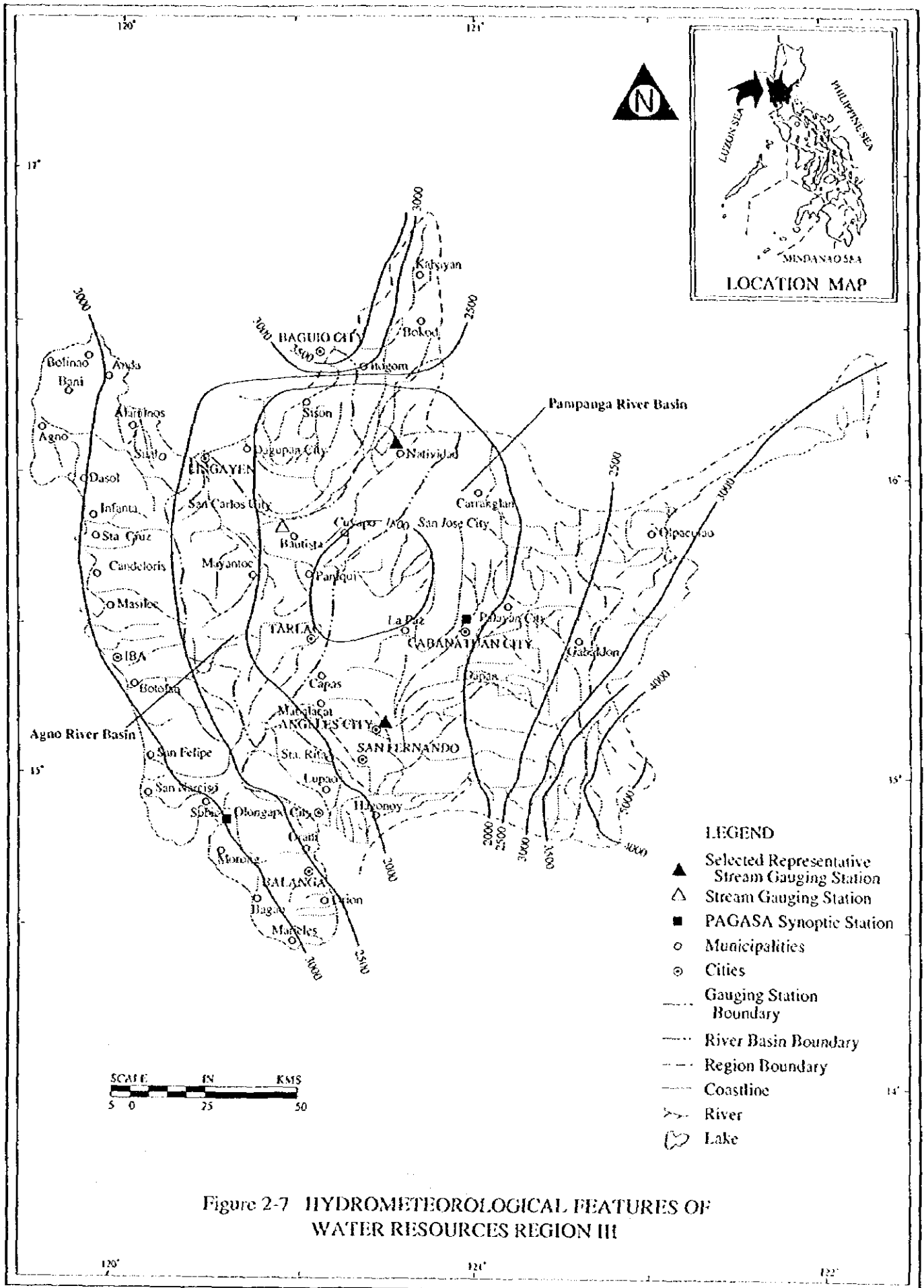
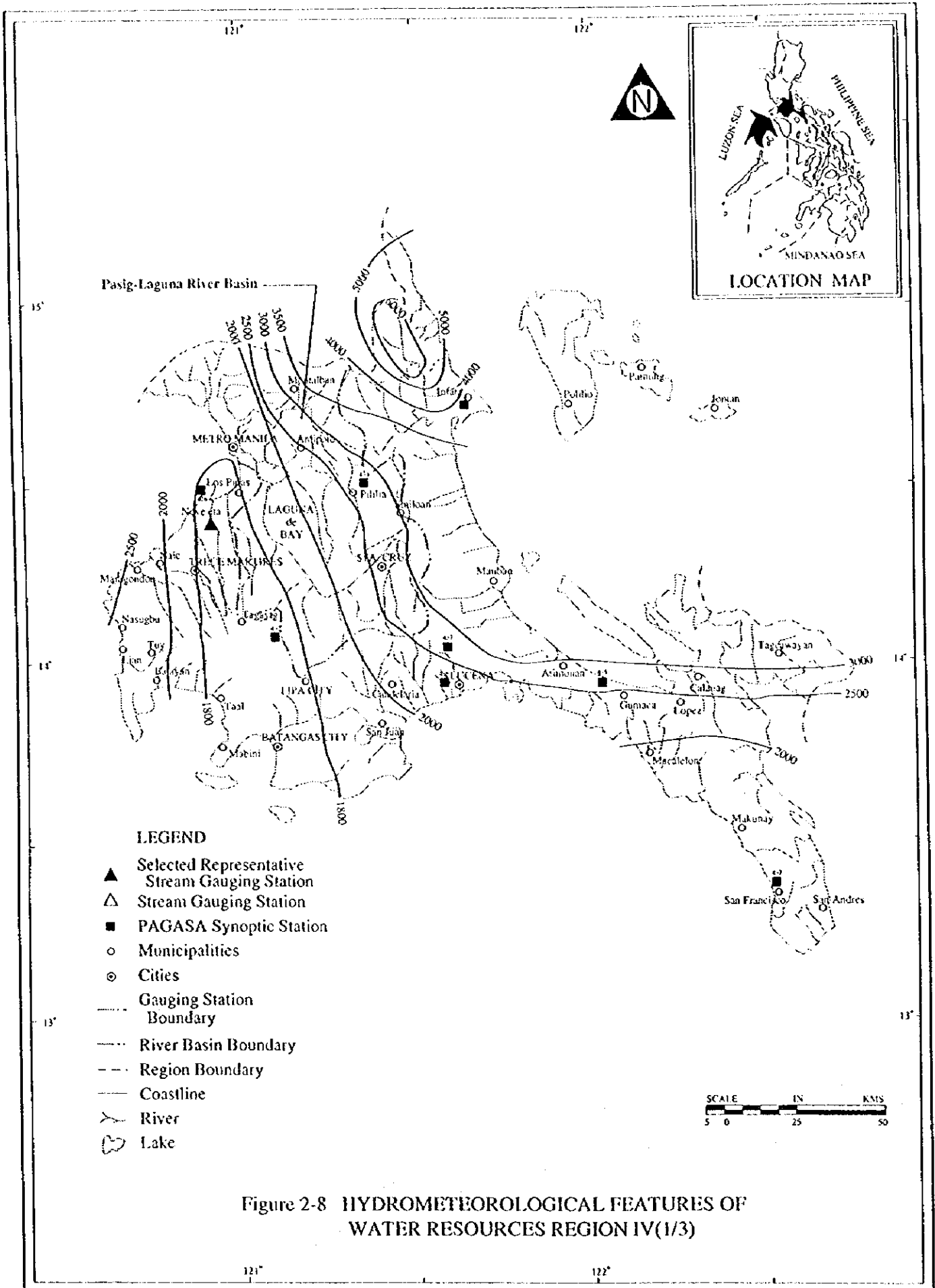


Figure 2-7 HYDROMETEOROLOGICAL FEATURES OF WATER RESOURCES REGION III



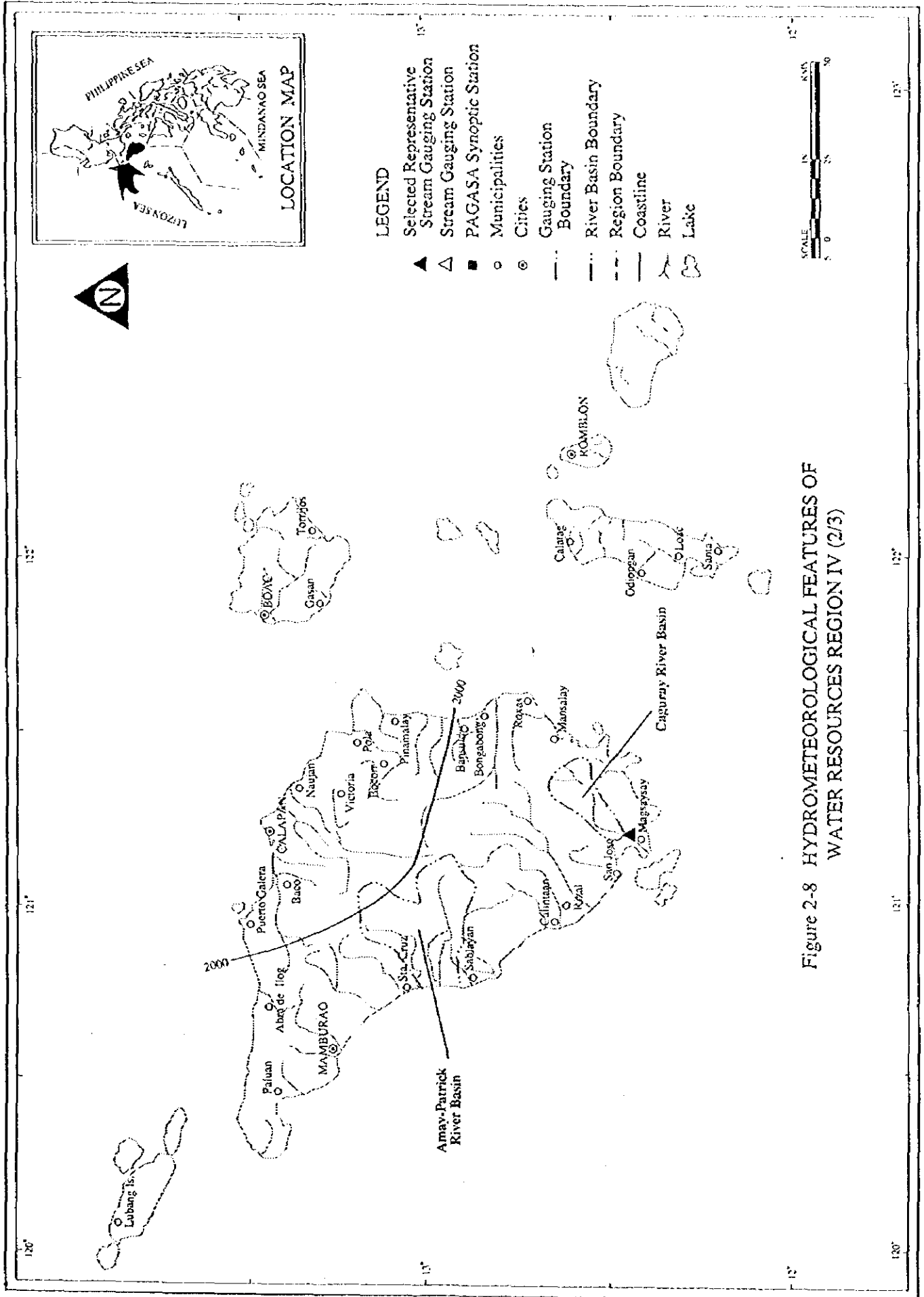
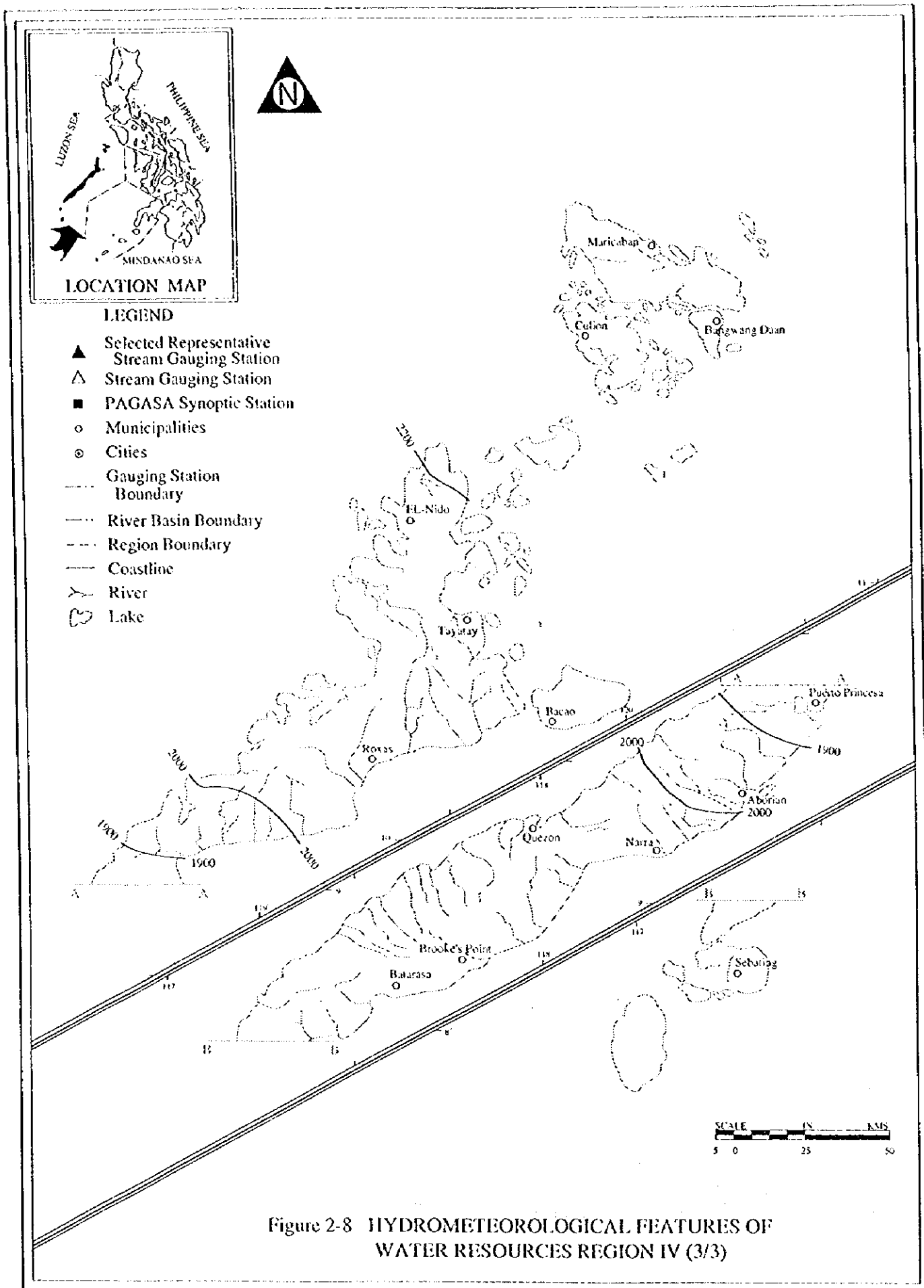


Figure 2-8 HYDROMETEOROLOGICAL FEATURES OF WATER RESOURCES REGION IV (2/3)



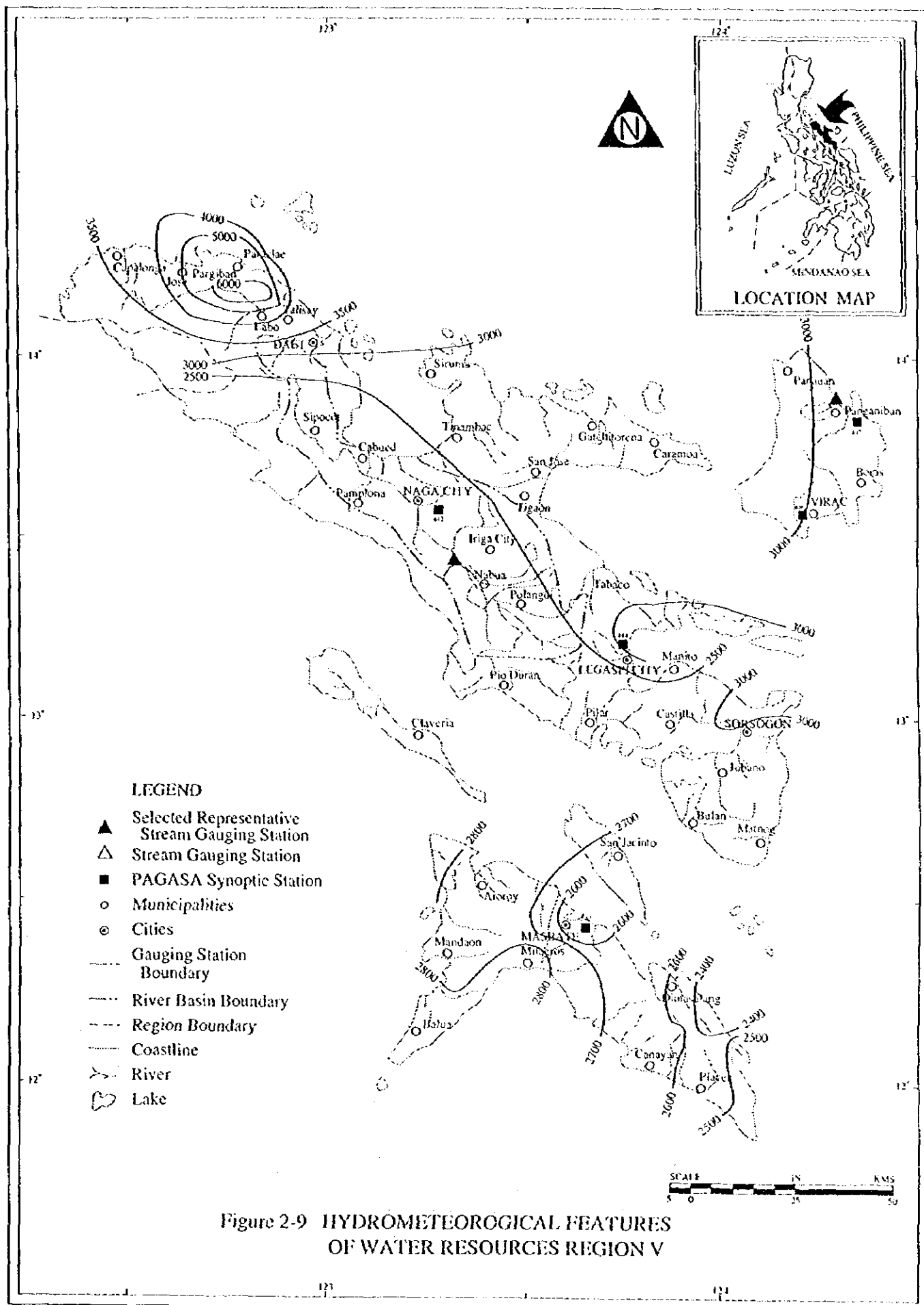
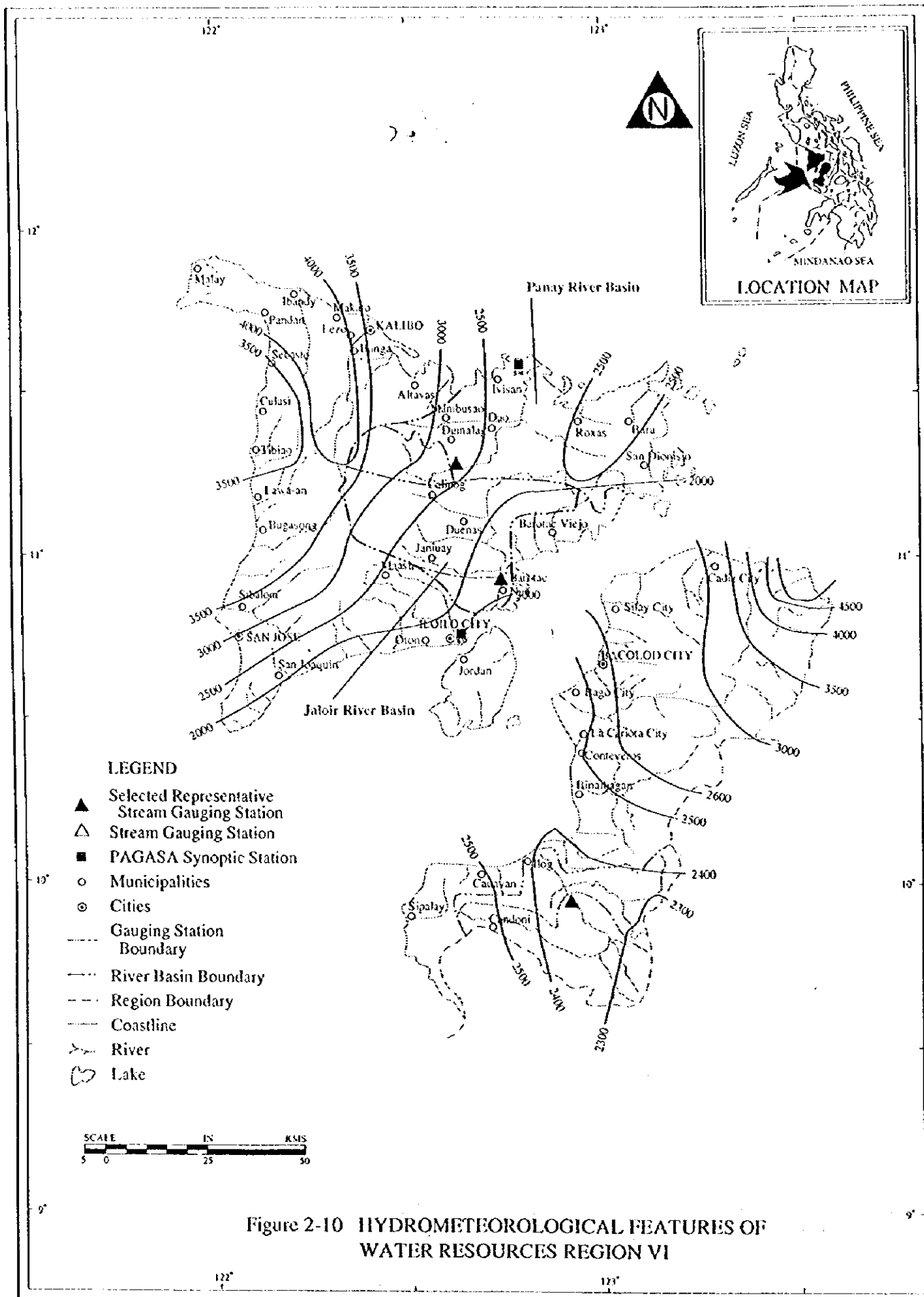


Figure 2-9 HYDROMETEOROLOGICAL FEATURES OF WATER RESOURCES REGION V



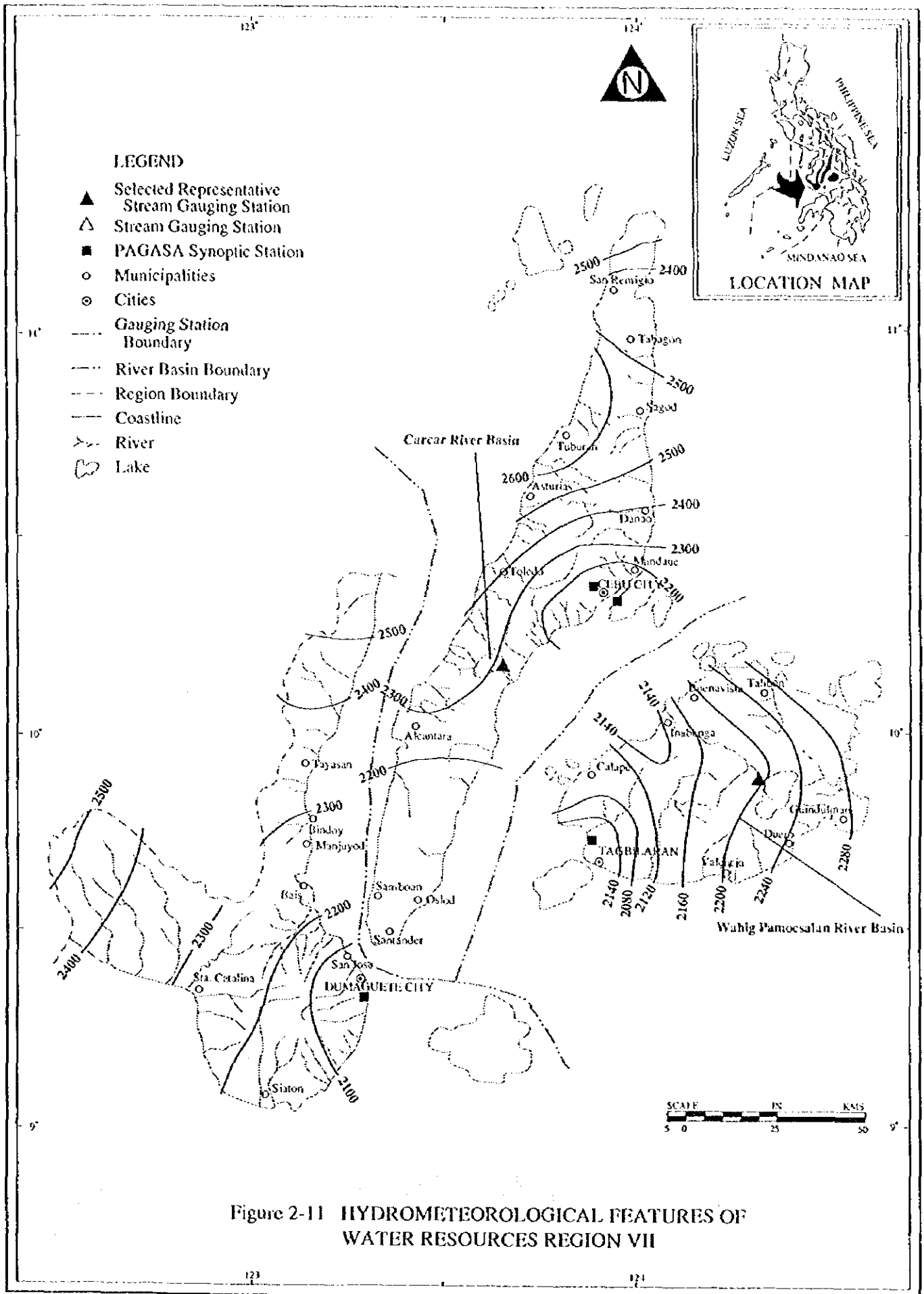
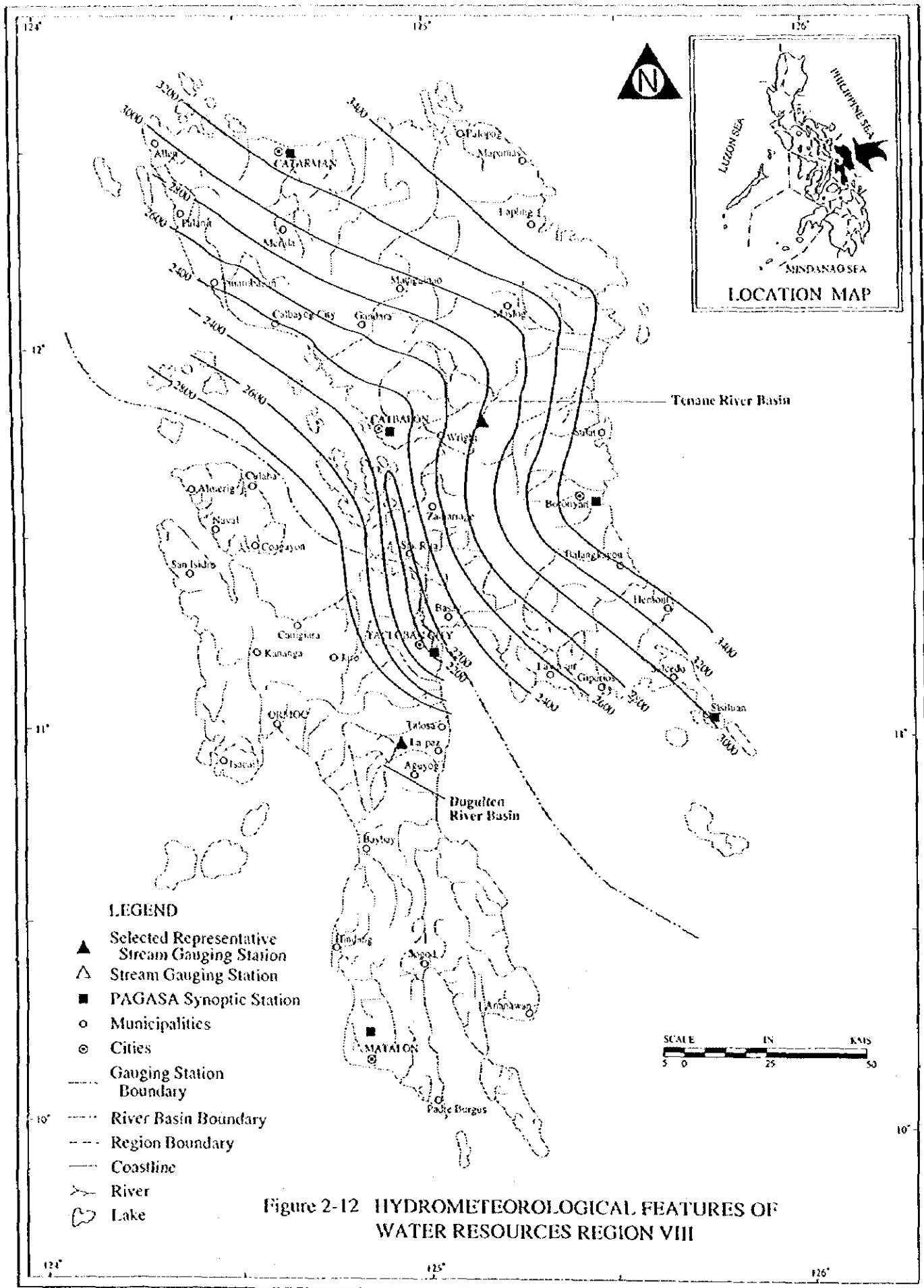
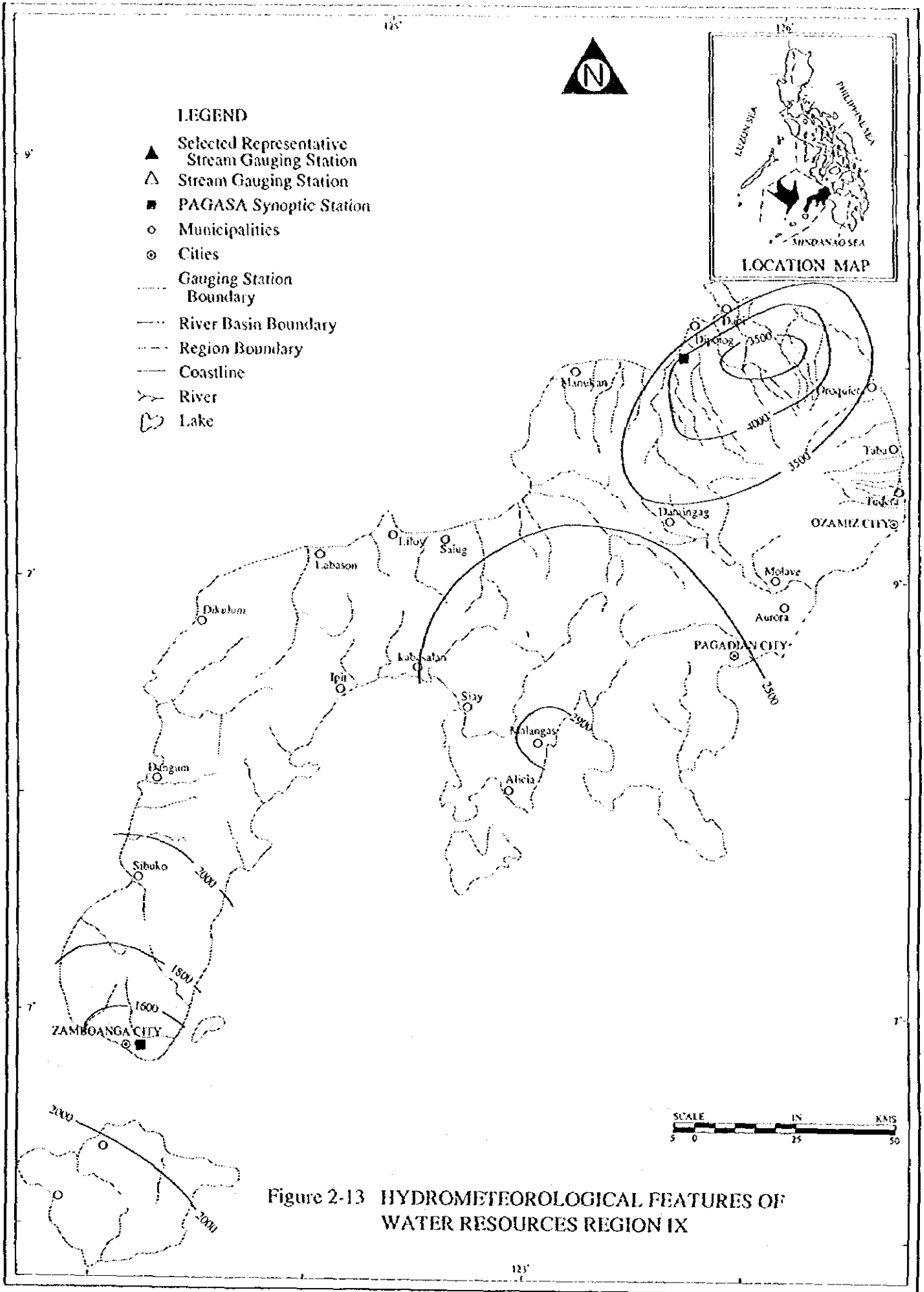
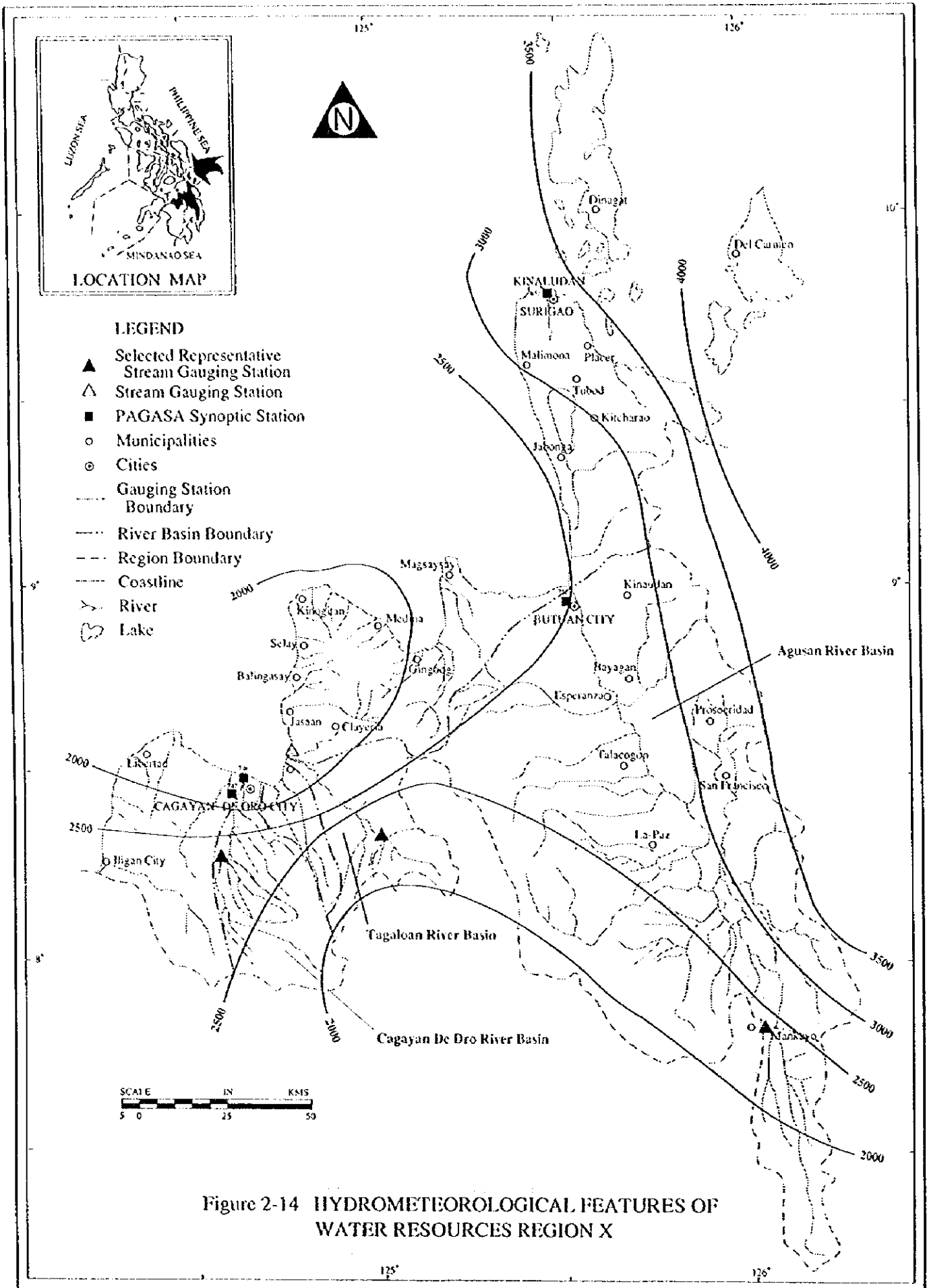


Figure 2-11 HYDROMETEOROLOGICAL FEATURES OF WATER RESOURCES REGION VII







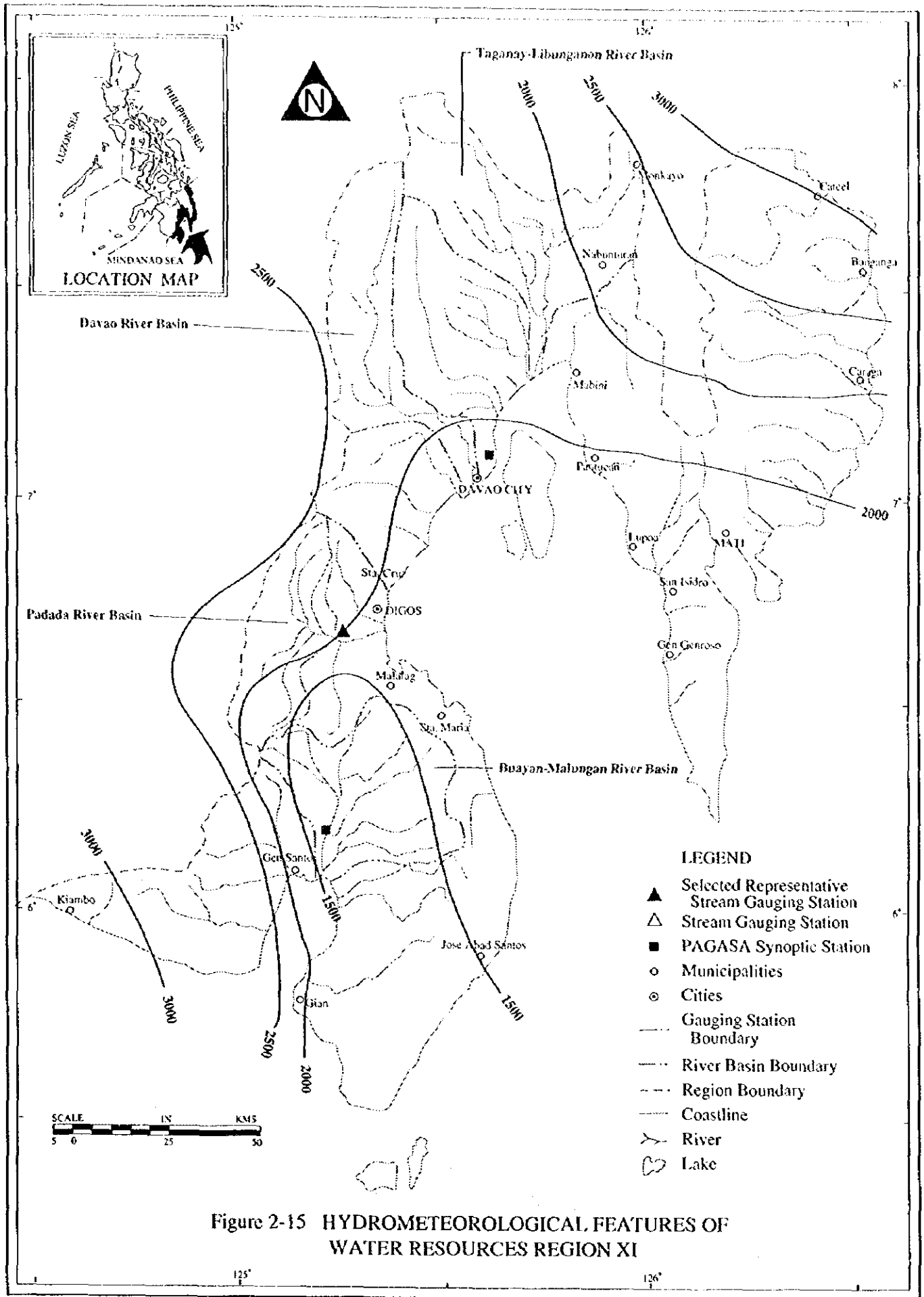
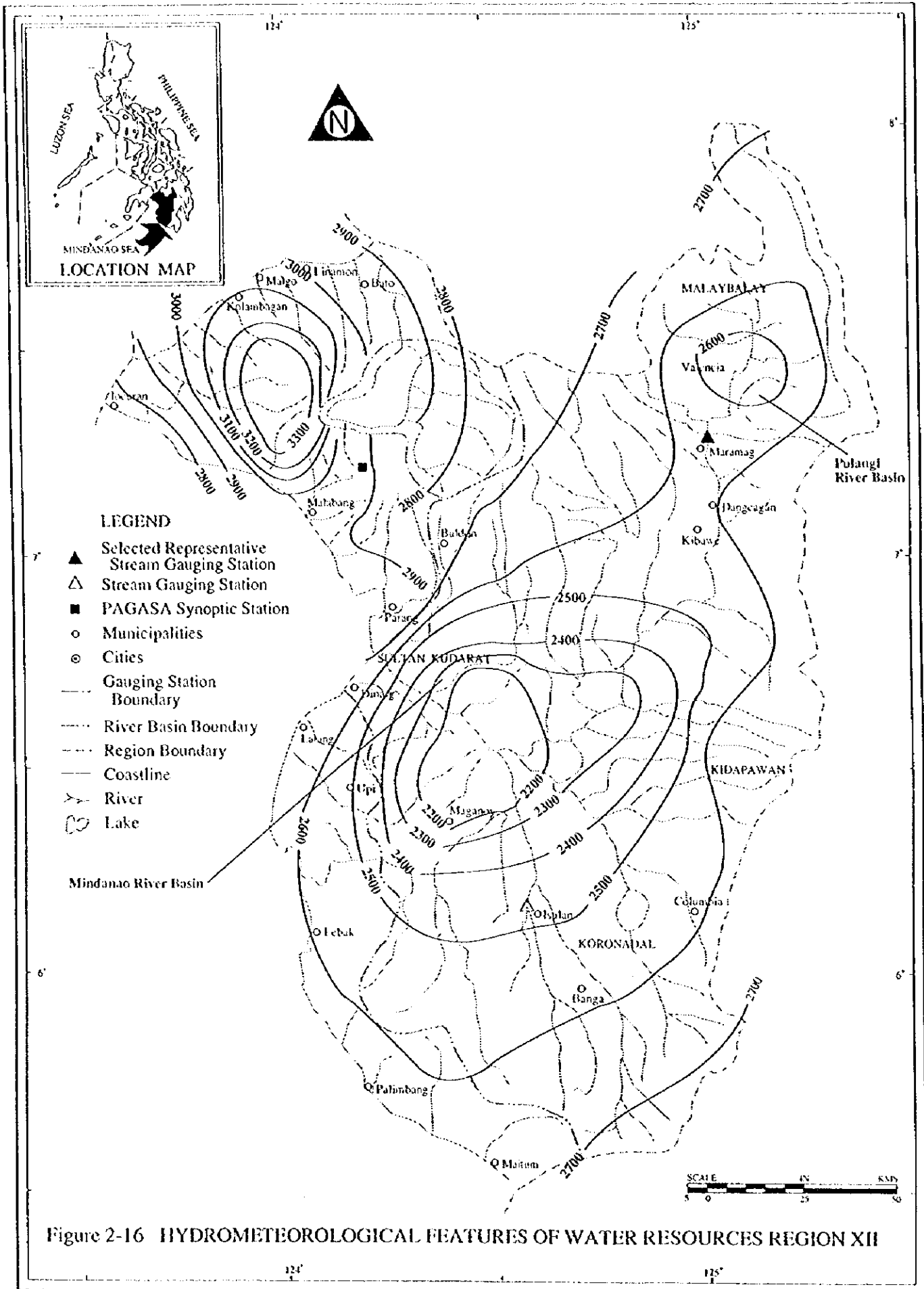


Figure 2-15 HYDROMETEOROLOGICAL FEATURES OF WATER RESOURCES REGION XI



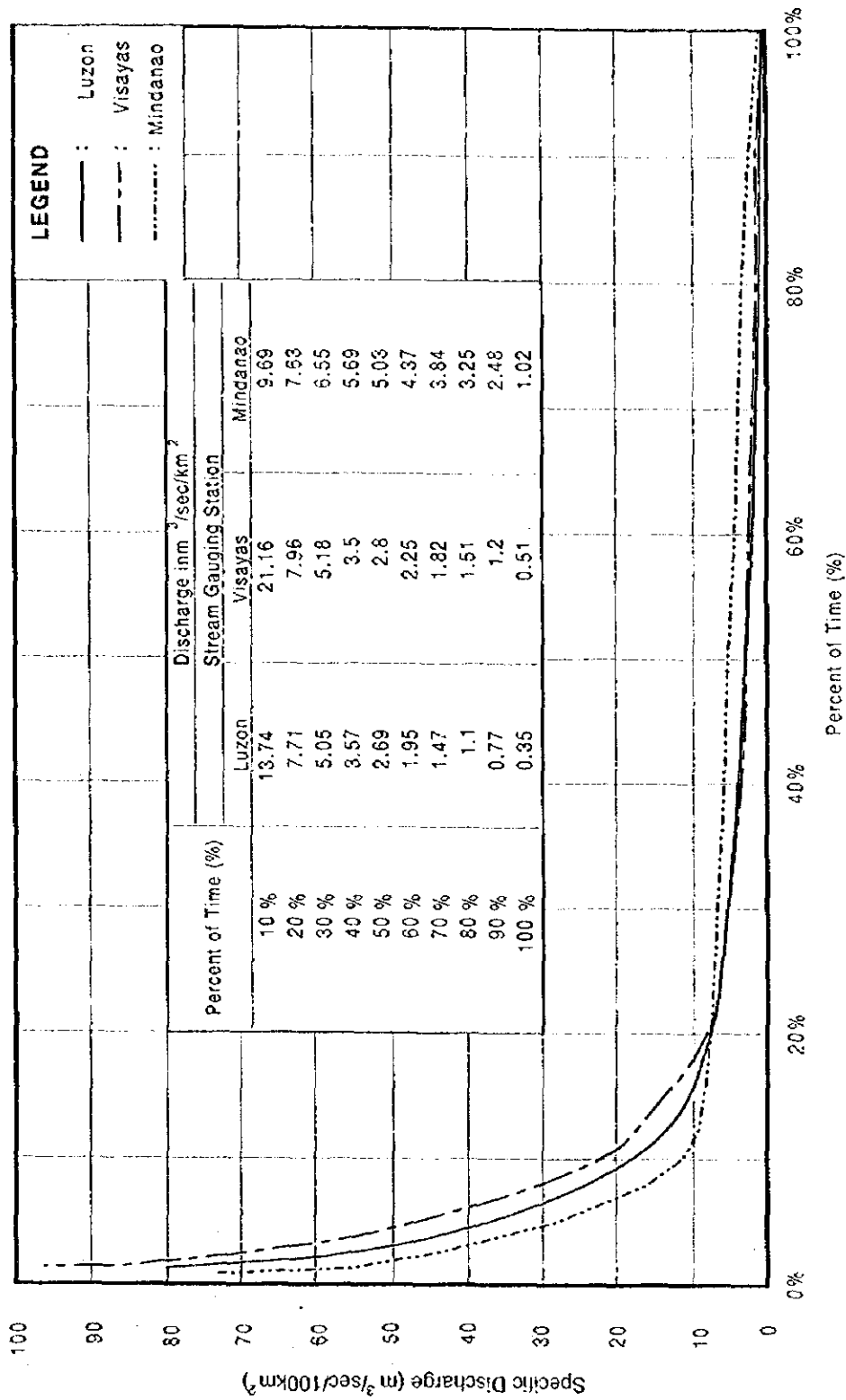


Figure 2-17 REPRESENTATIVE FLOW DURATION CURVE FOR LUZON, VISAYAS AND MINDANAO

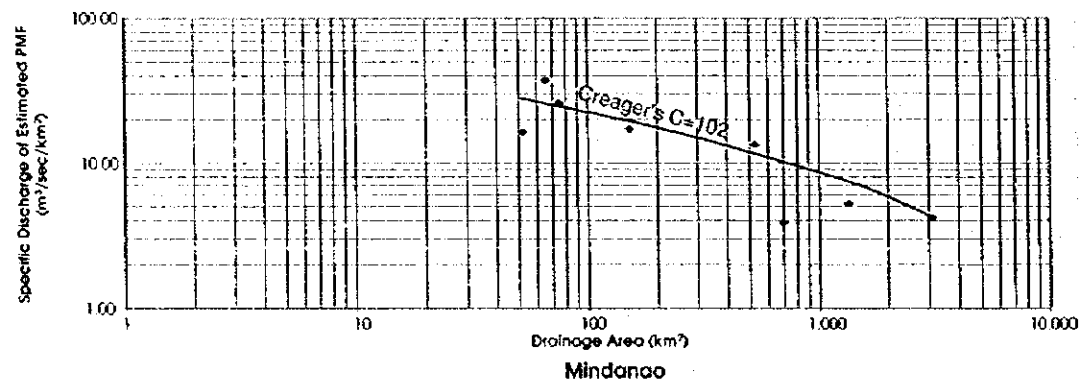
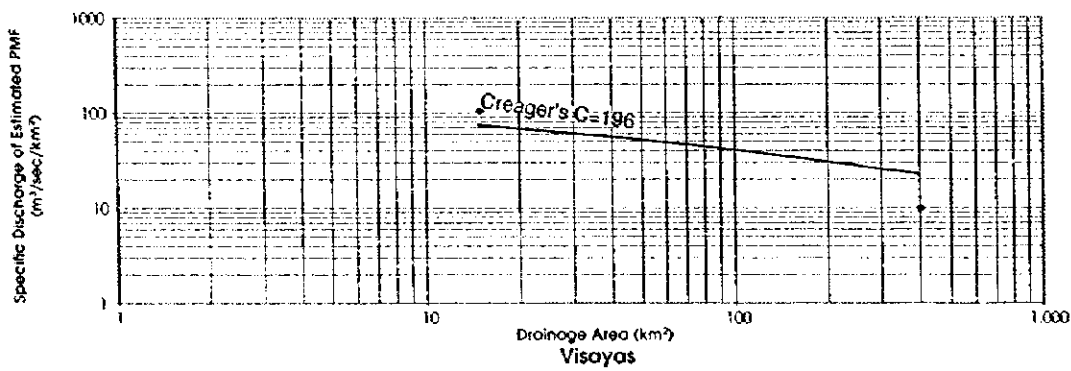
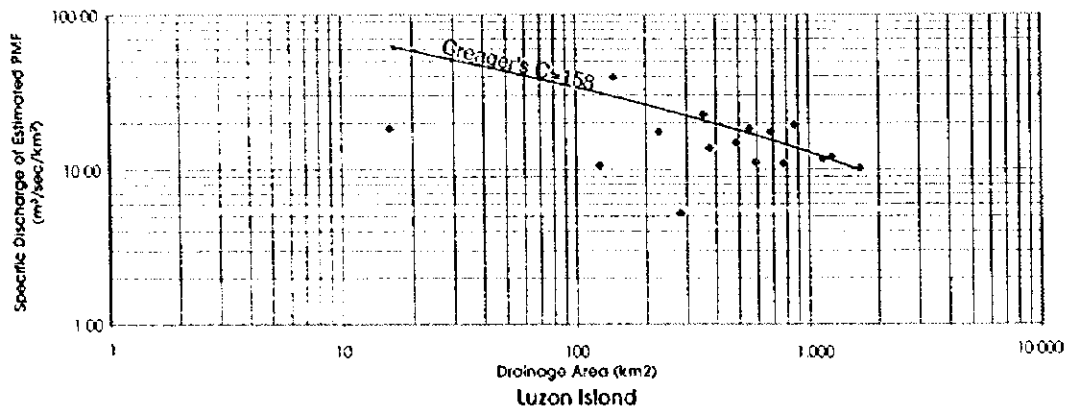


Figure 2-18 SPECIFIC DISCHARGE OF ESTIMATED PMF VERSUS DRAINAGE AREA

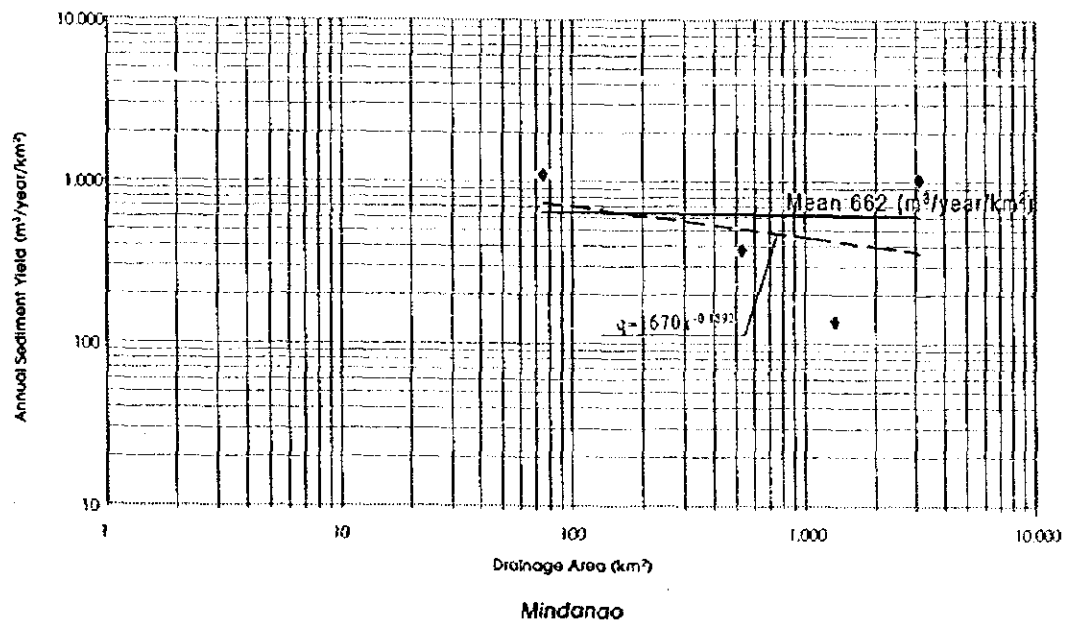
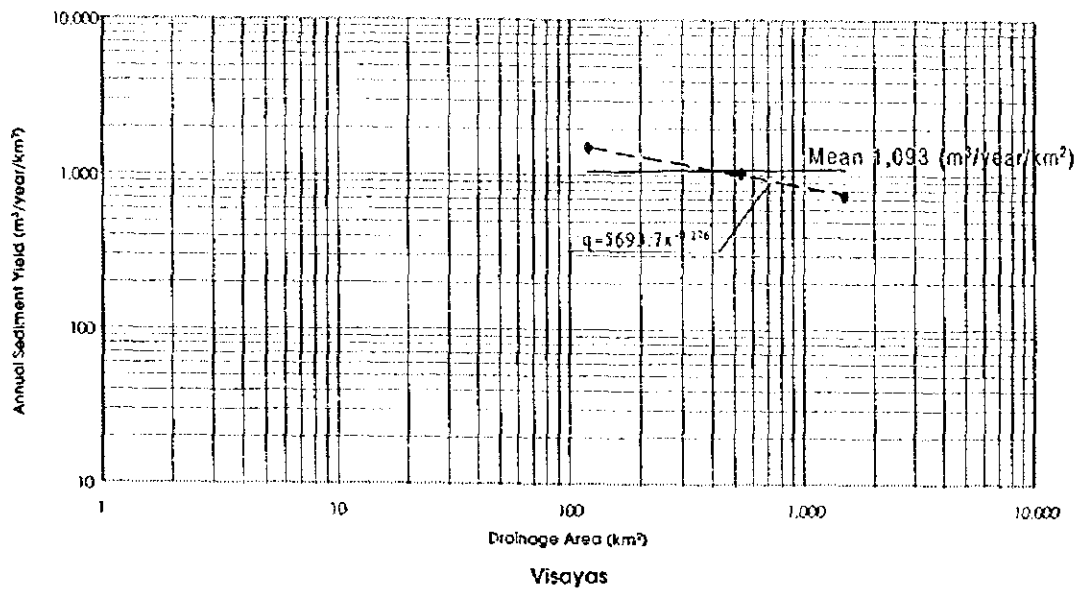
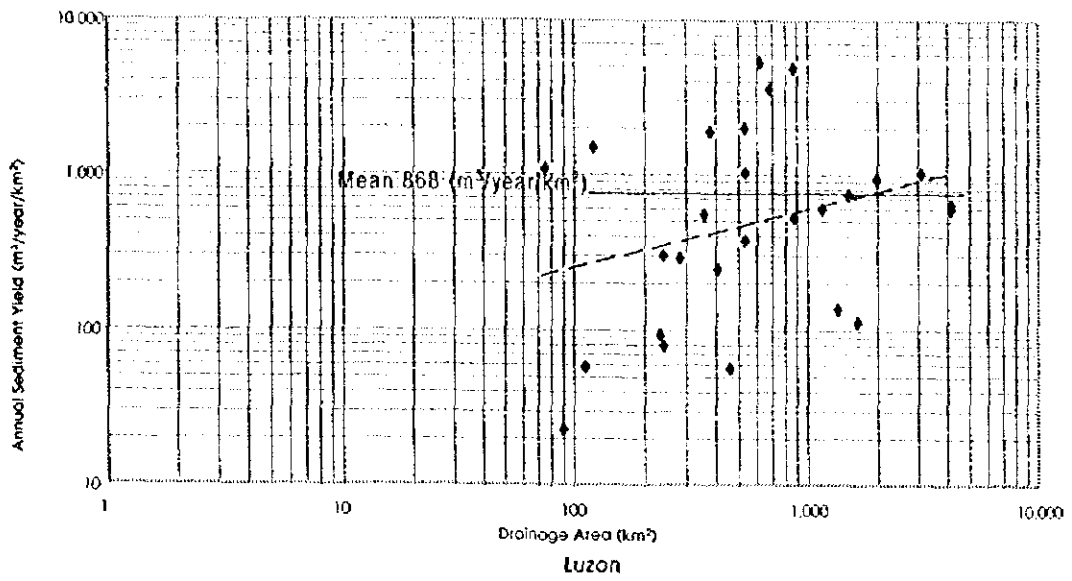
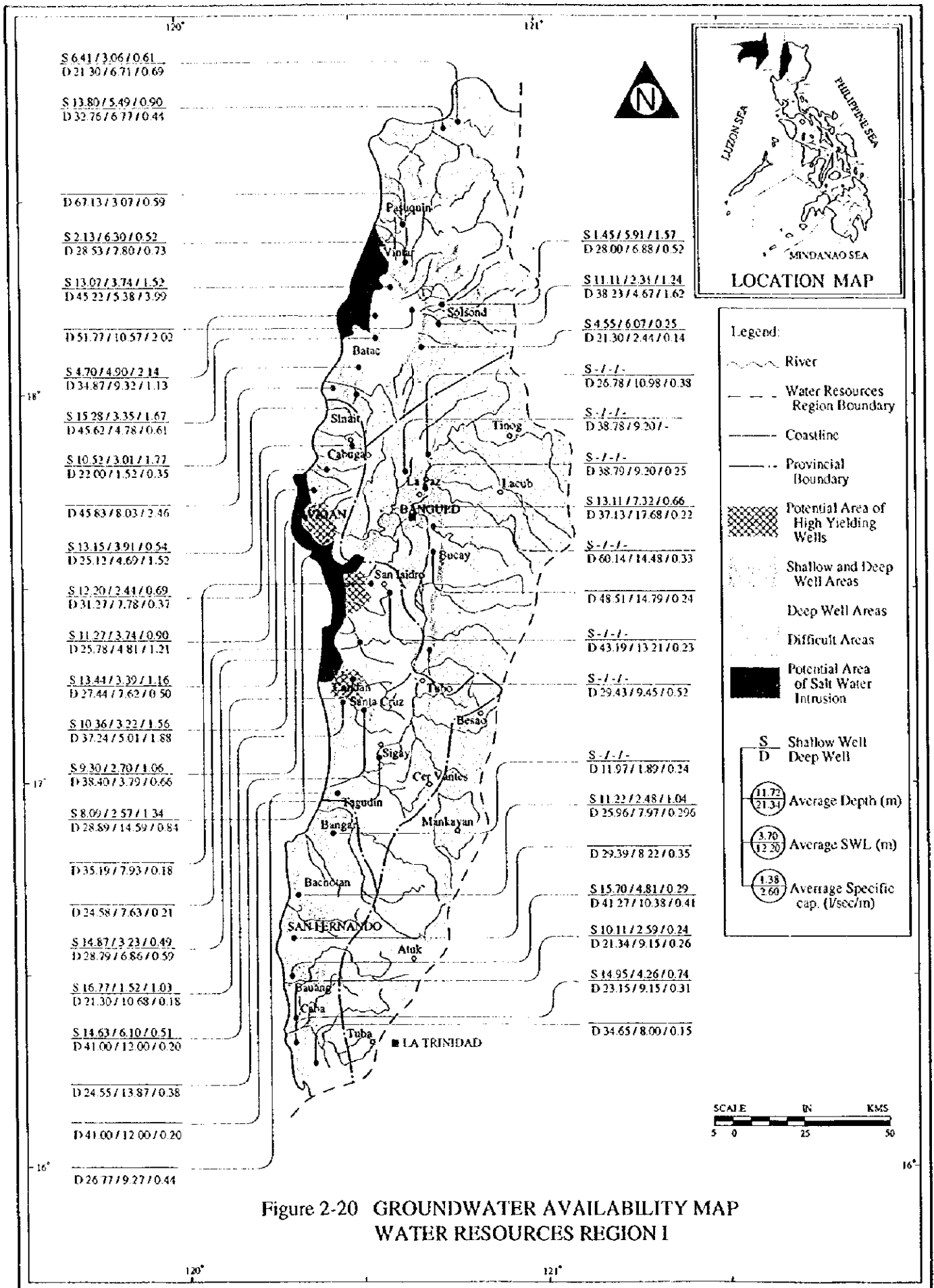
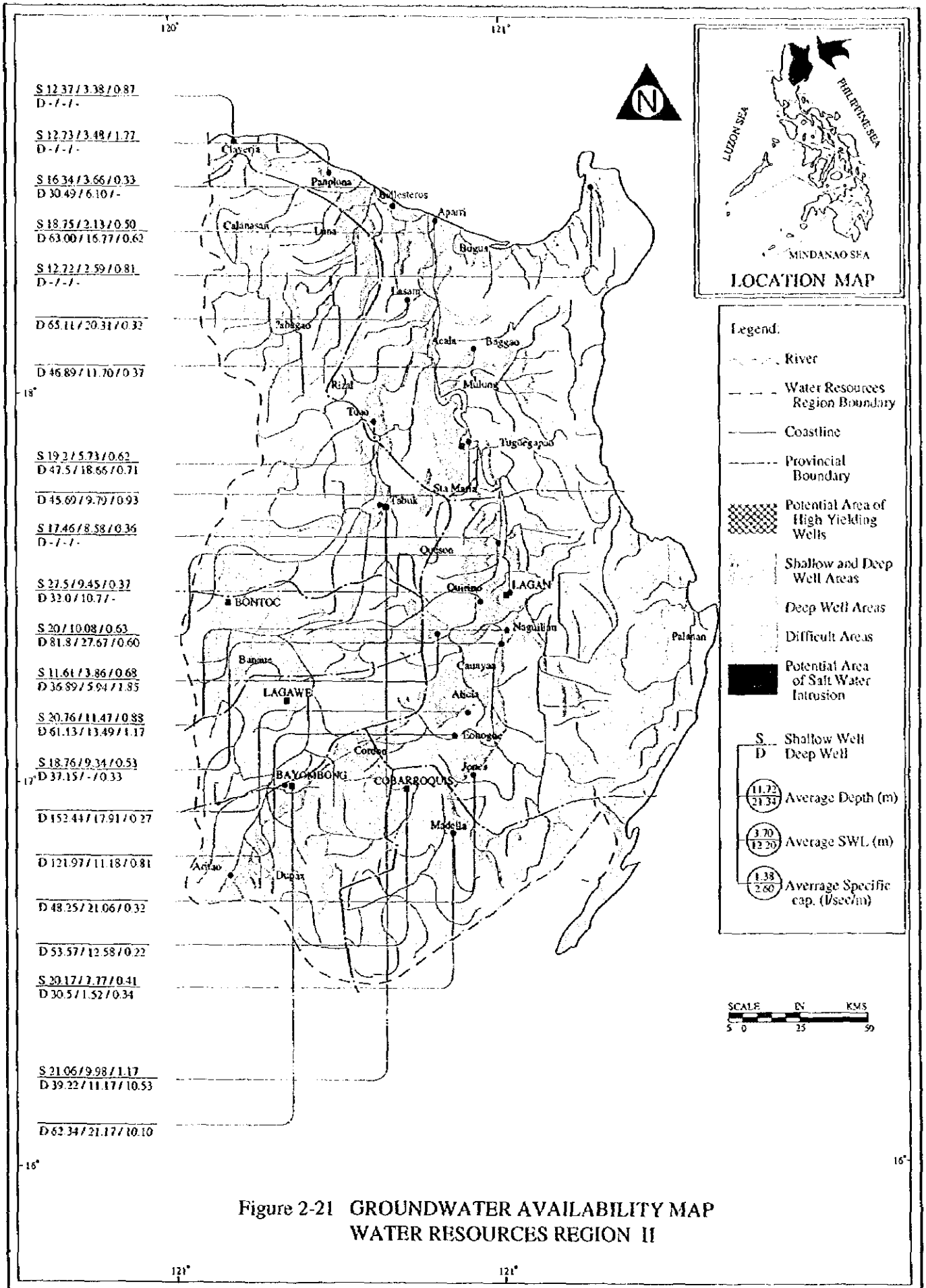
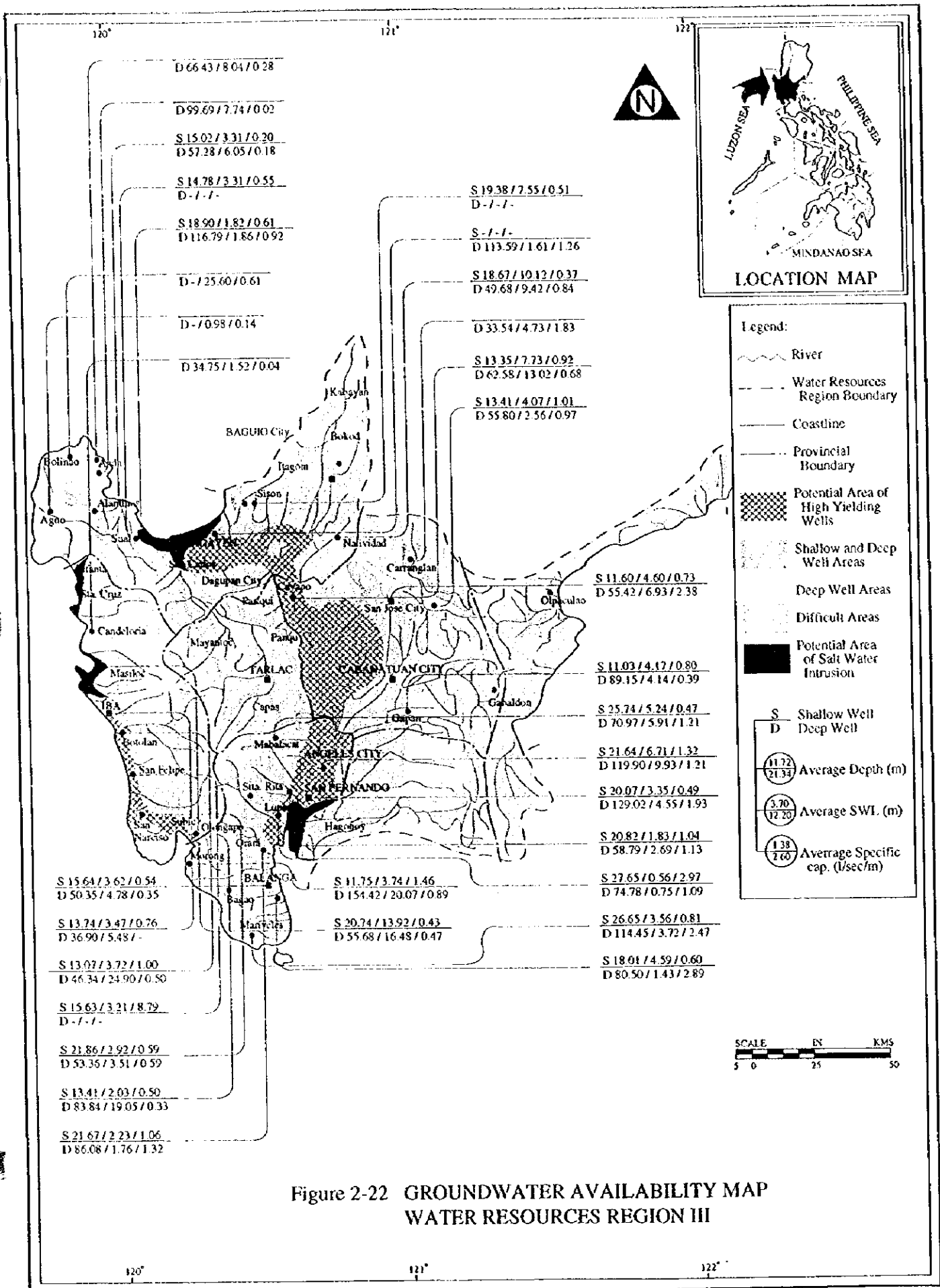
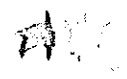


Figure 2-19 ANNUAL SEDIMENT YIELD VERSUS DRAINAGE AREA









LOCATION MAP

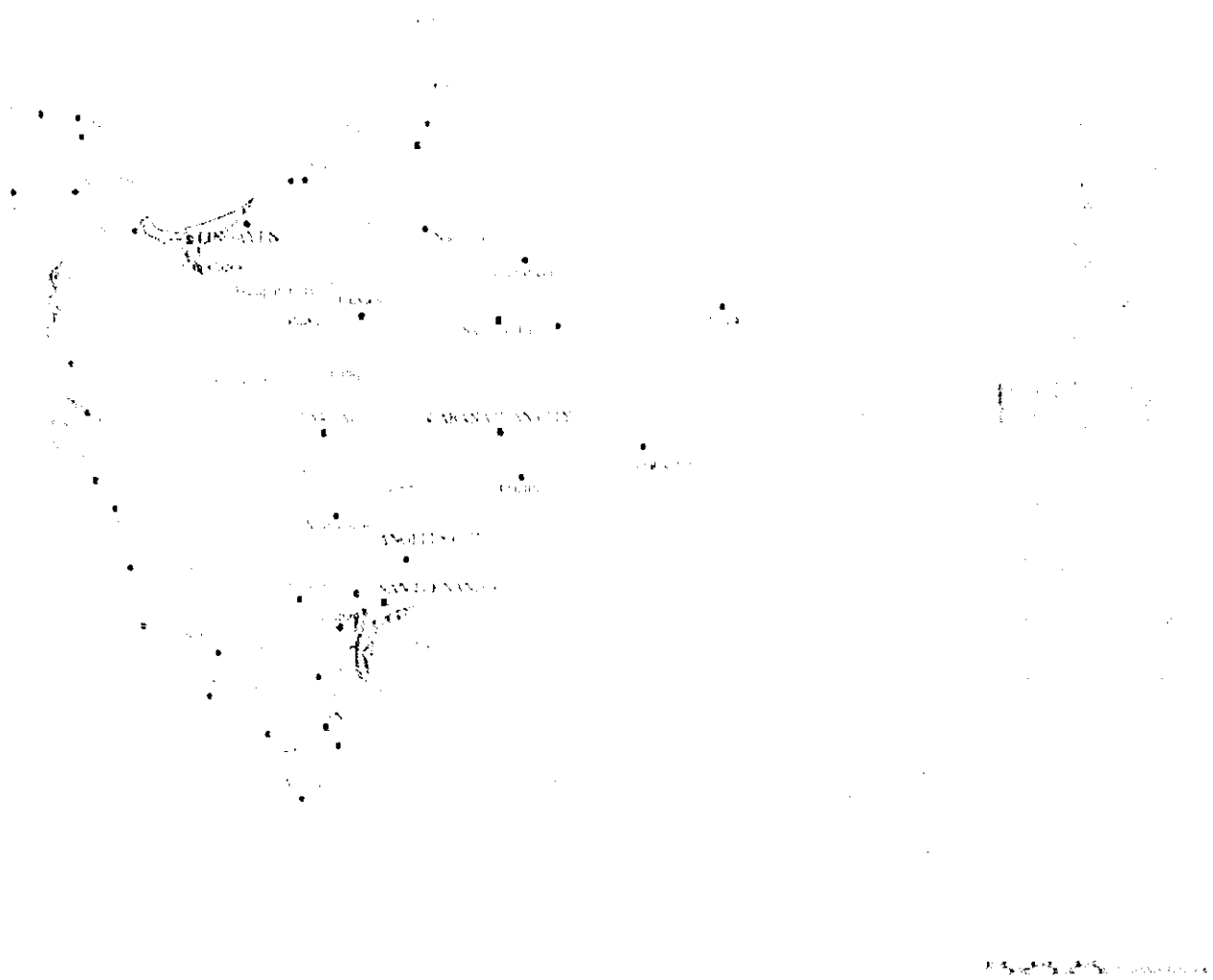


FIGURE 2-22. GROUNDWATER AVAILABILITY MAP
WATER RESOURCES REGION III

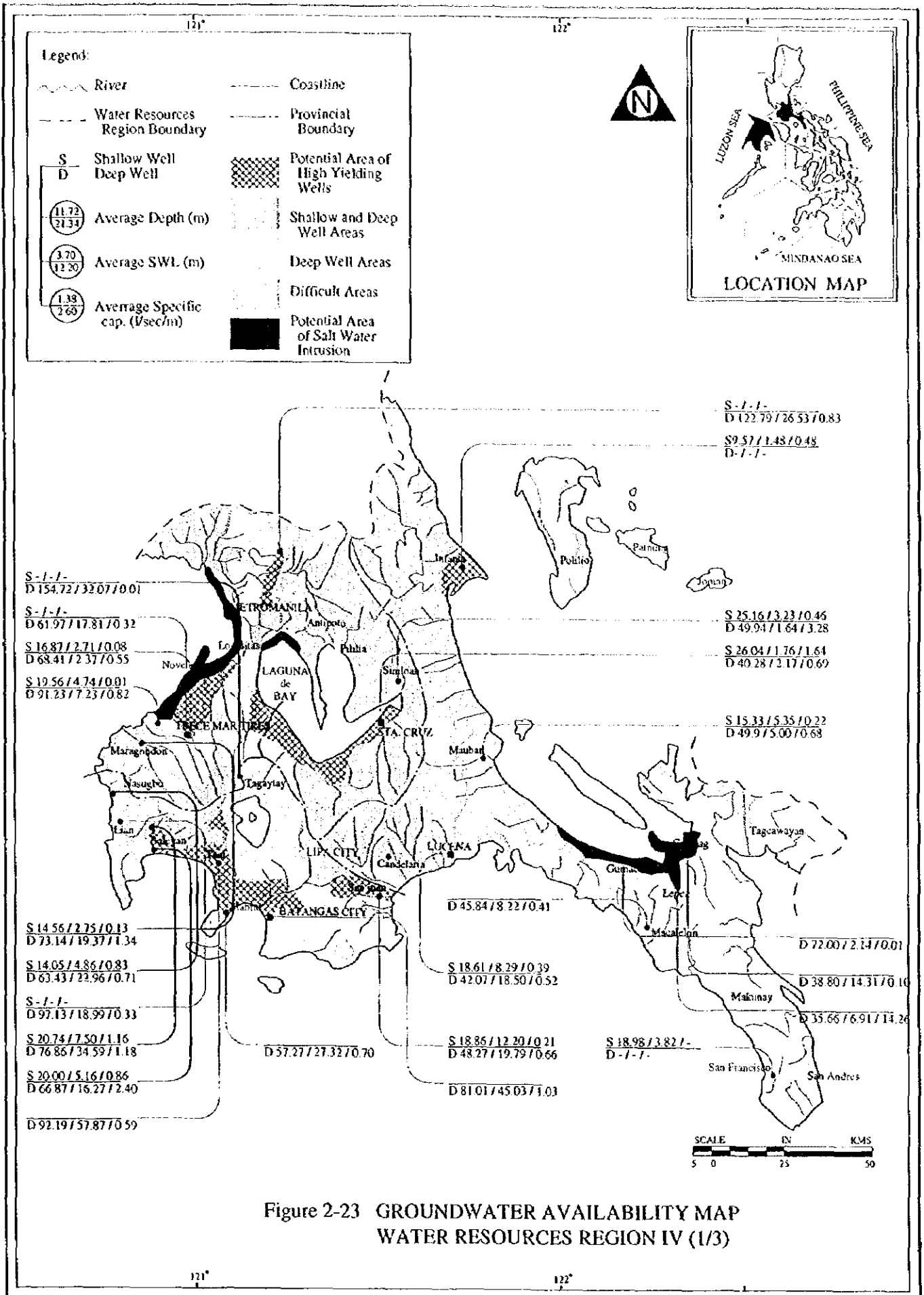


Figure 2-23 GROUNDWATER AVAILABILITY MAP
WATER RESOURCES REGION IV (1/3)

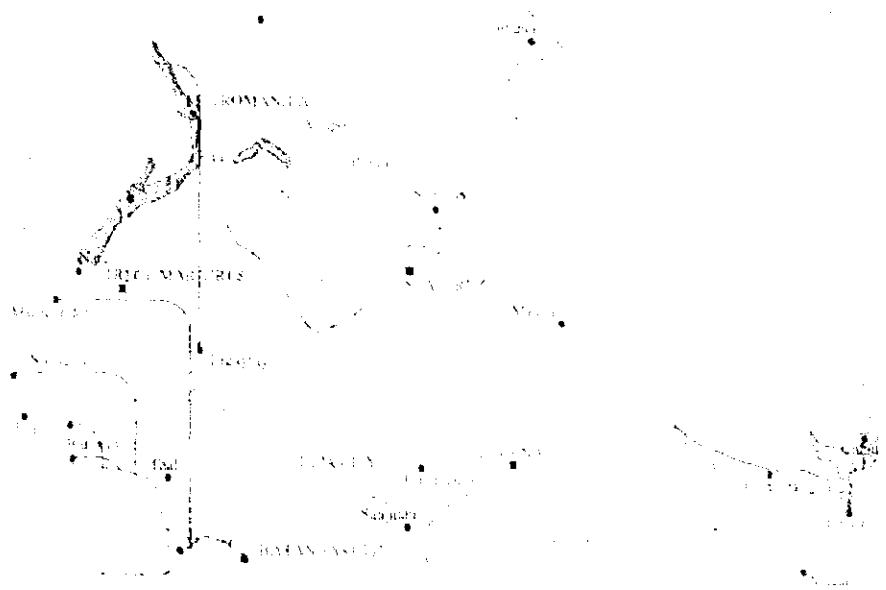


FIGURE 2-78. GROUNDWATER AVAILABILITY MAP
WATER RESOURCES REGION IV



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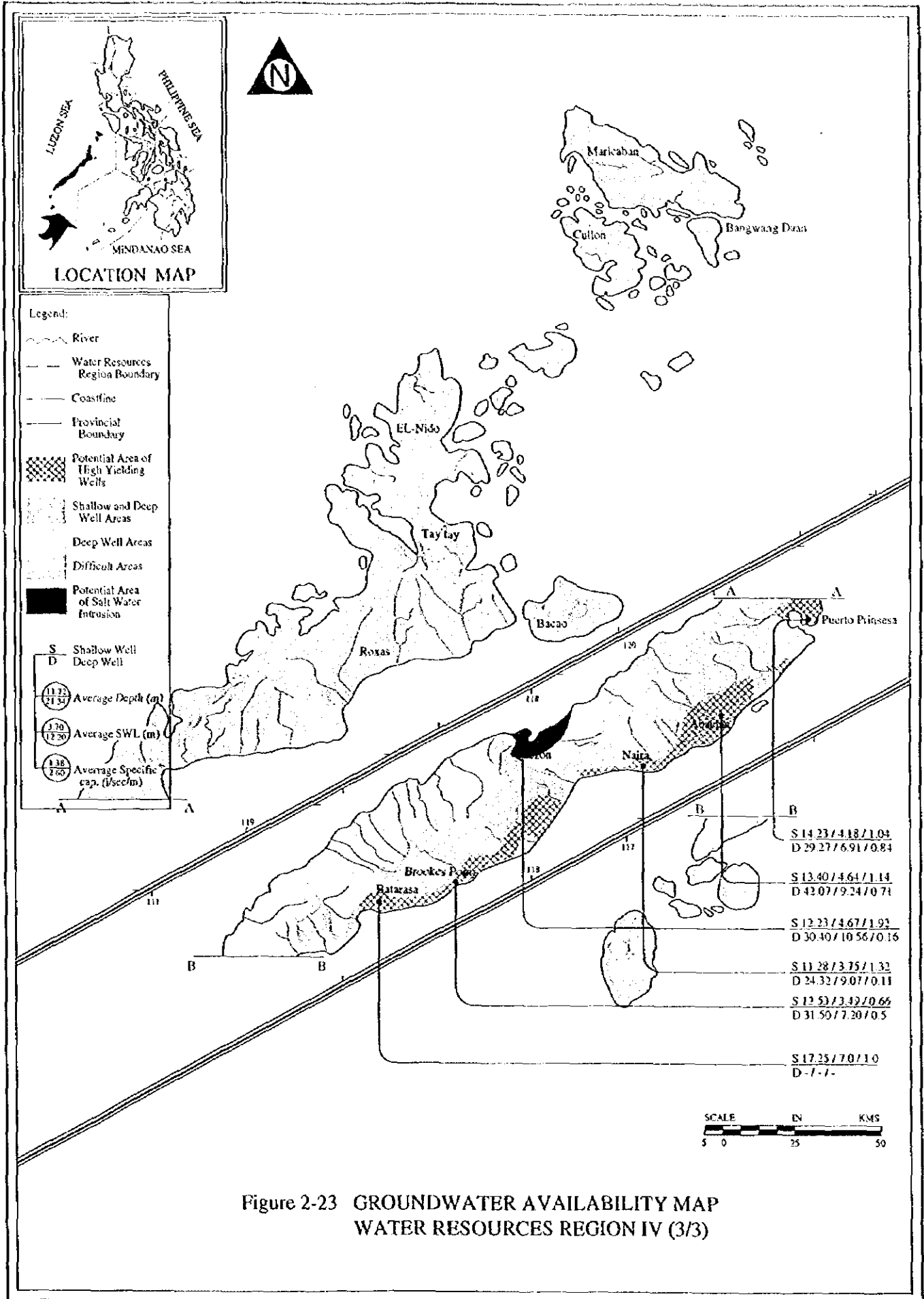


Figure 2-23 GROUNDWATER AVAILABILITY MAP
WATER RESOURCES REGION IV (3/3)



1:50,000 MAP

Scale

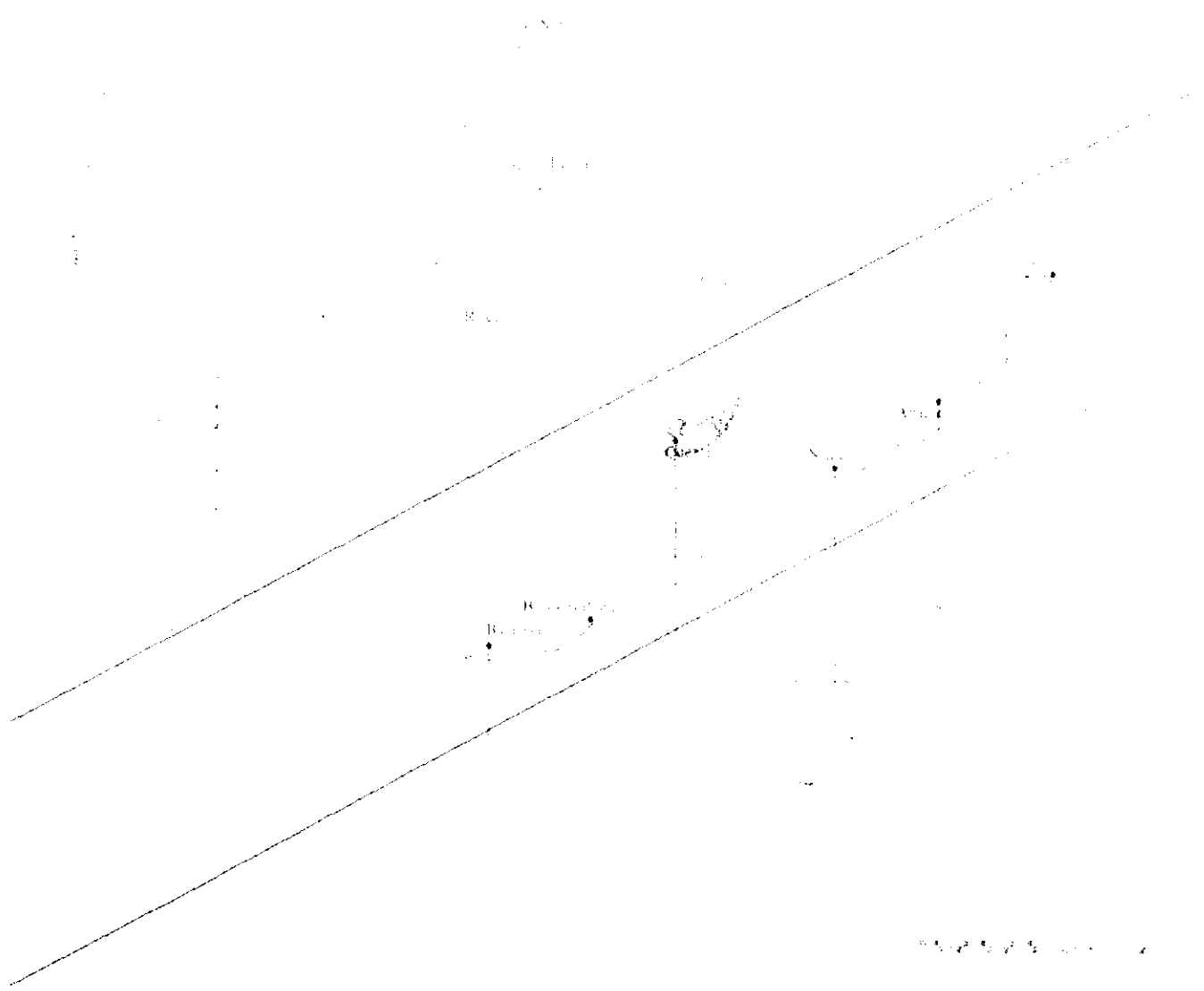


Figure 2.78. GROUNDWATER AVAILABILITY MAP
WATER RESOURCES REGION IV-35

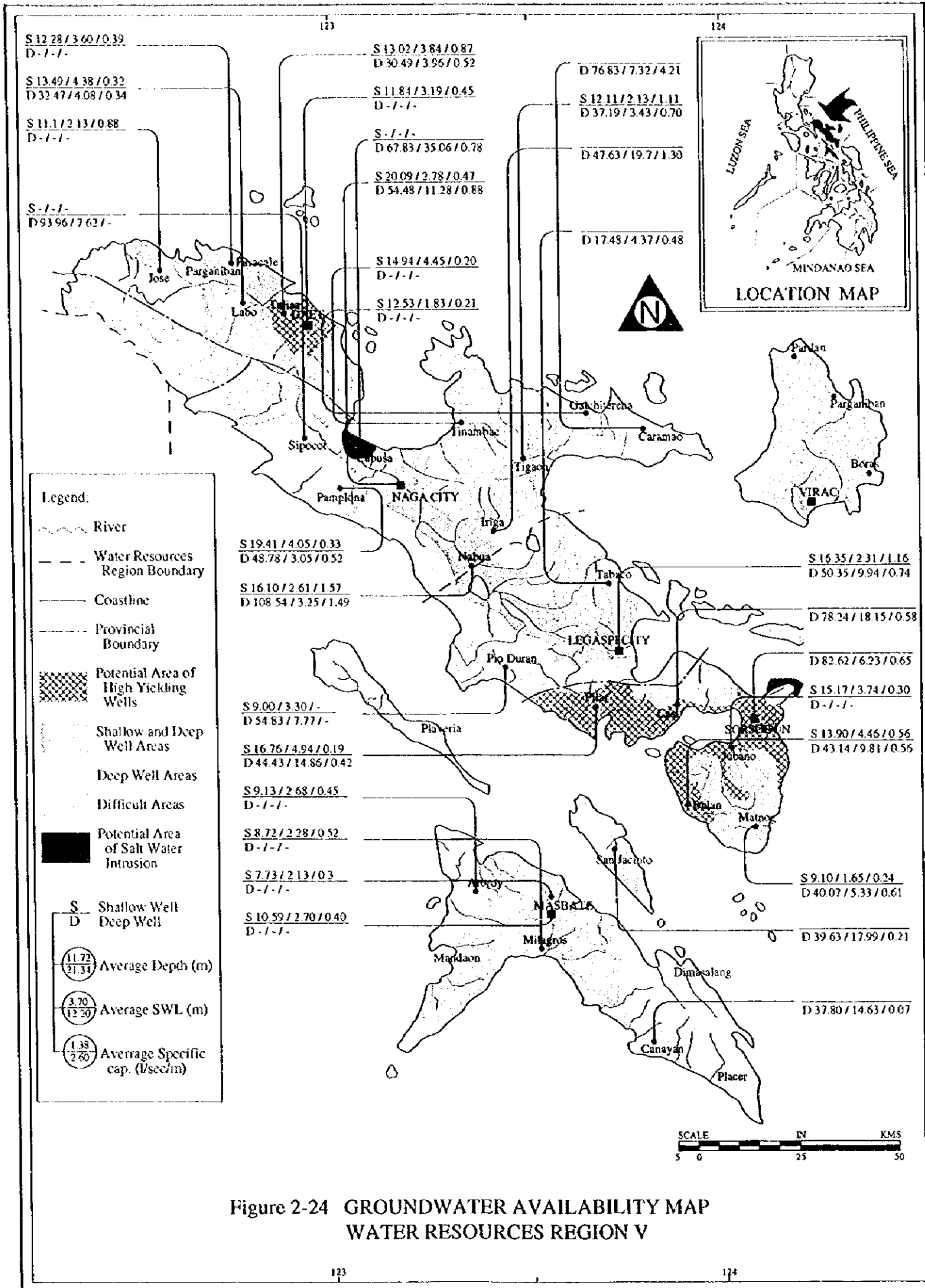


Figure 2-24 GROUNDWATER AVAILABILITY MAP WATER RESOURCES REGION V

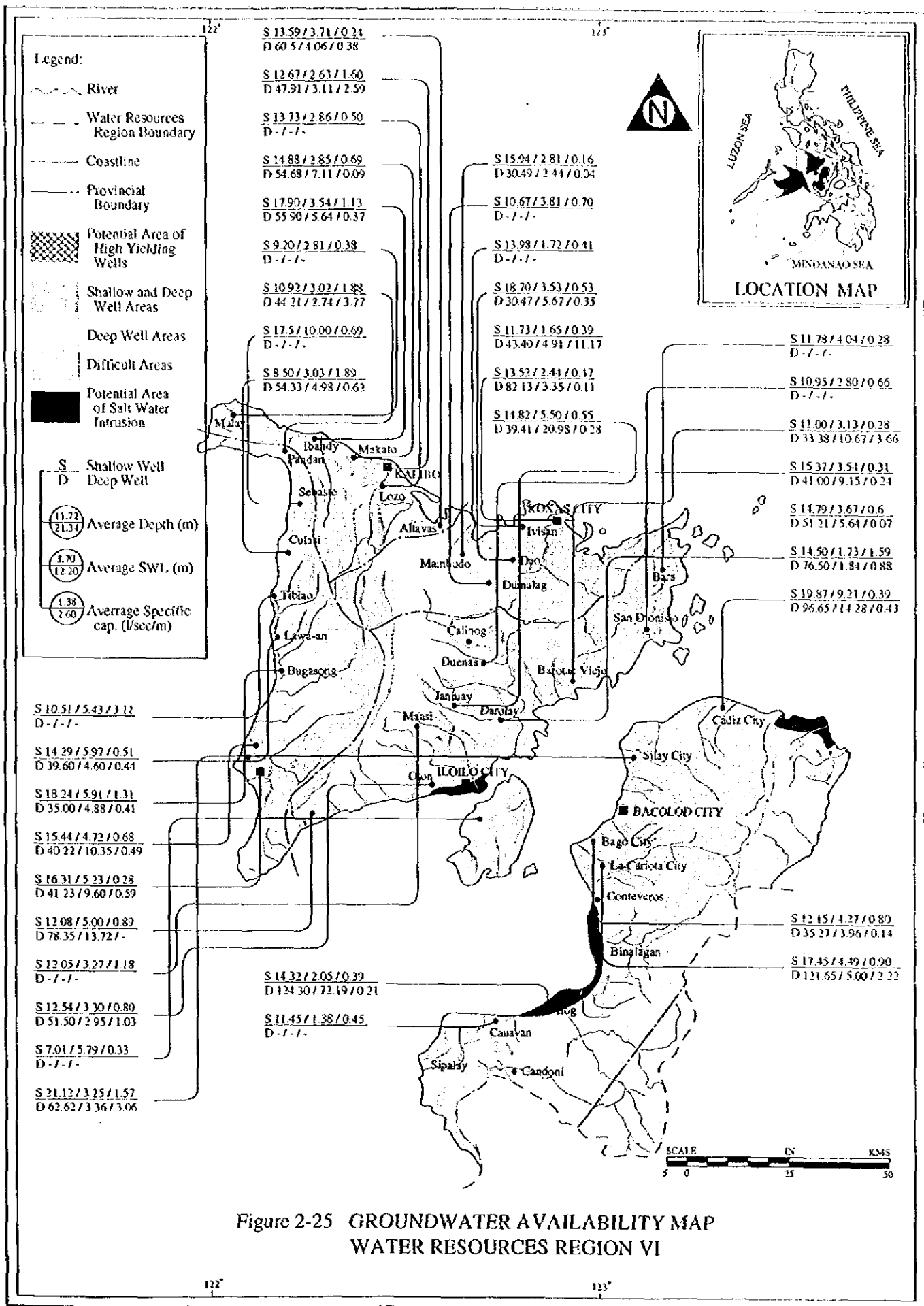


Figure 2-25 GROUNDWATER AVAILABILITY MAP
WATER RESOURCES REGION VI

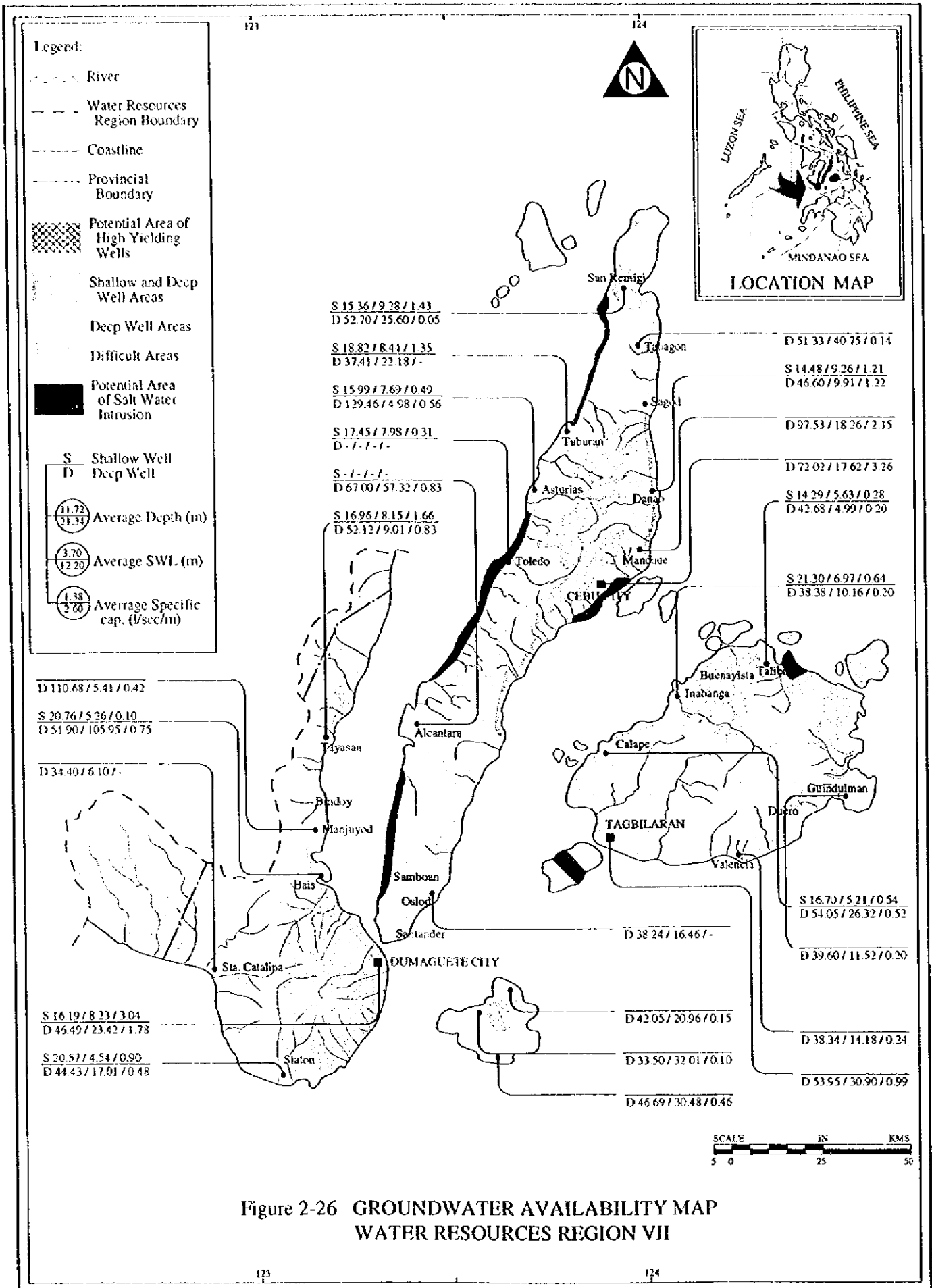




FIGURE 7.2. GROUNDWATER AVAILABILITY MAP
WATER RESOURCES REGION VII

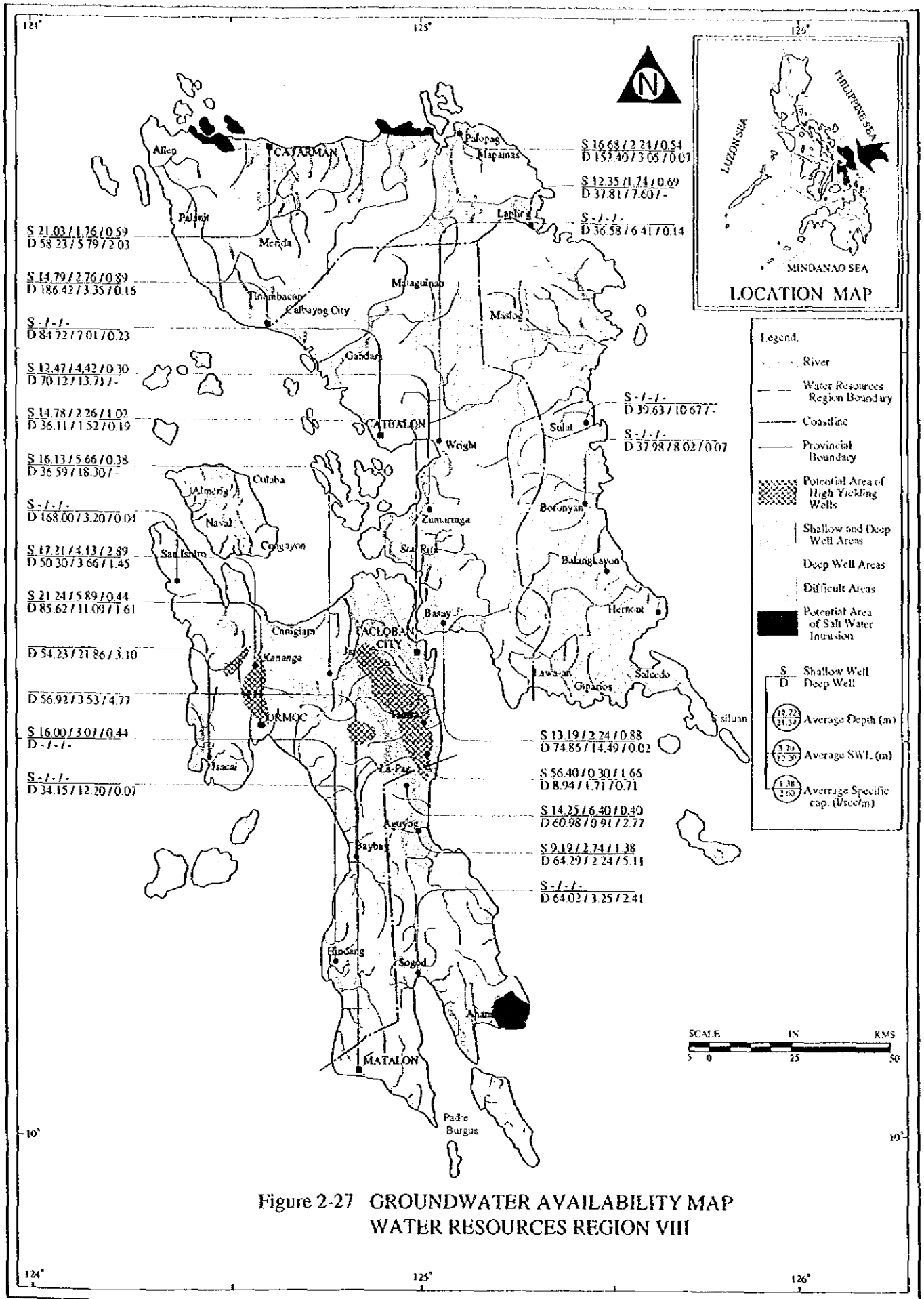




FIGURE 2-7. GROUNDWATER AVAILABILITY MAP WATER RESOURCES REGION VIII

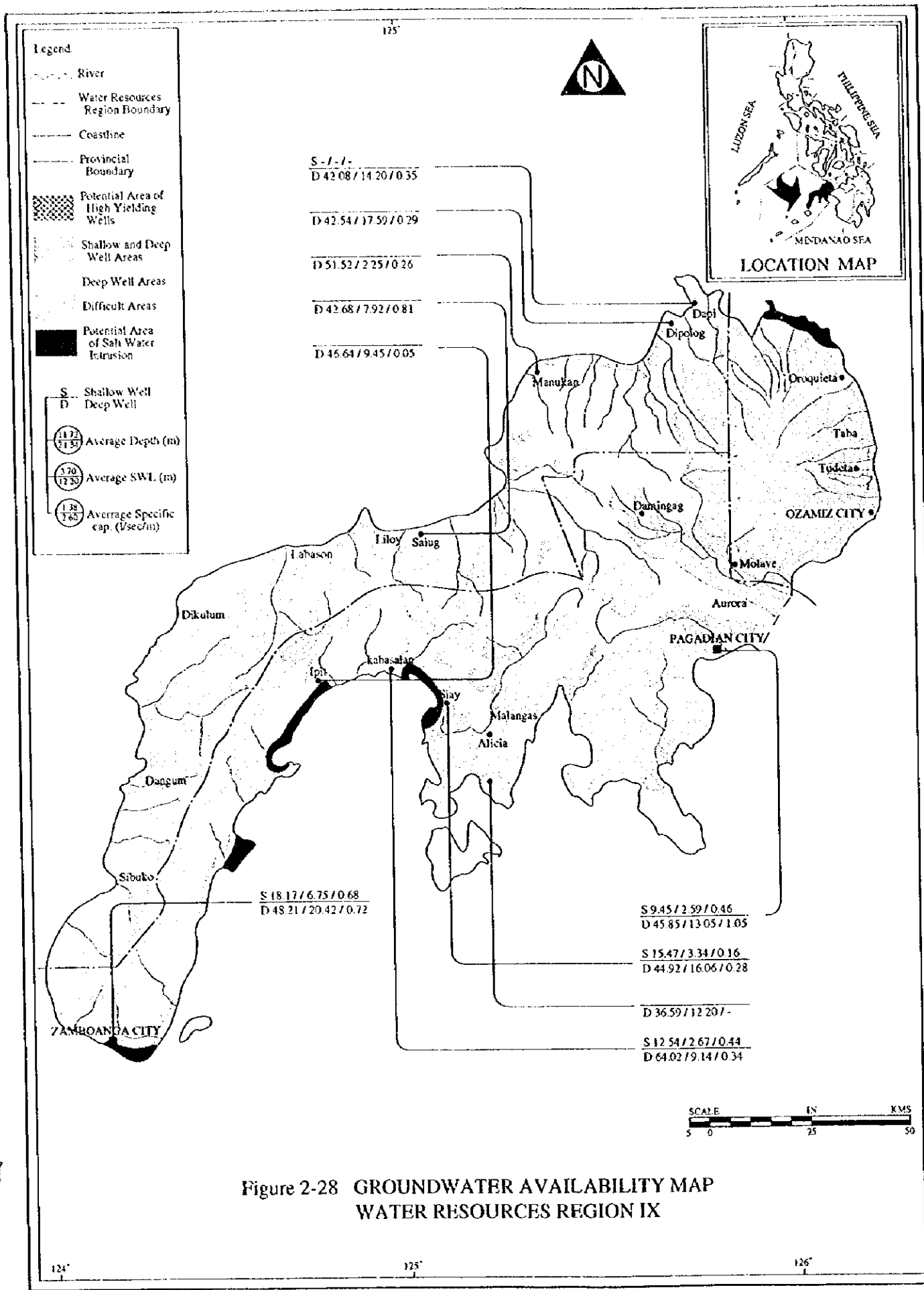


Figure 2-28 GROUNDWATER AVAILABILITY MAP WATER RESOURCES REGION IX

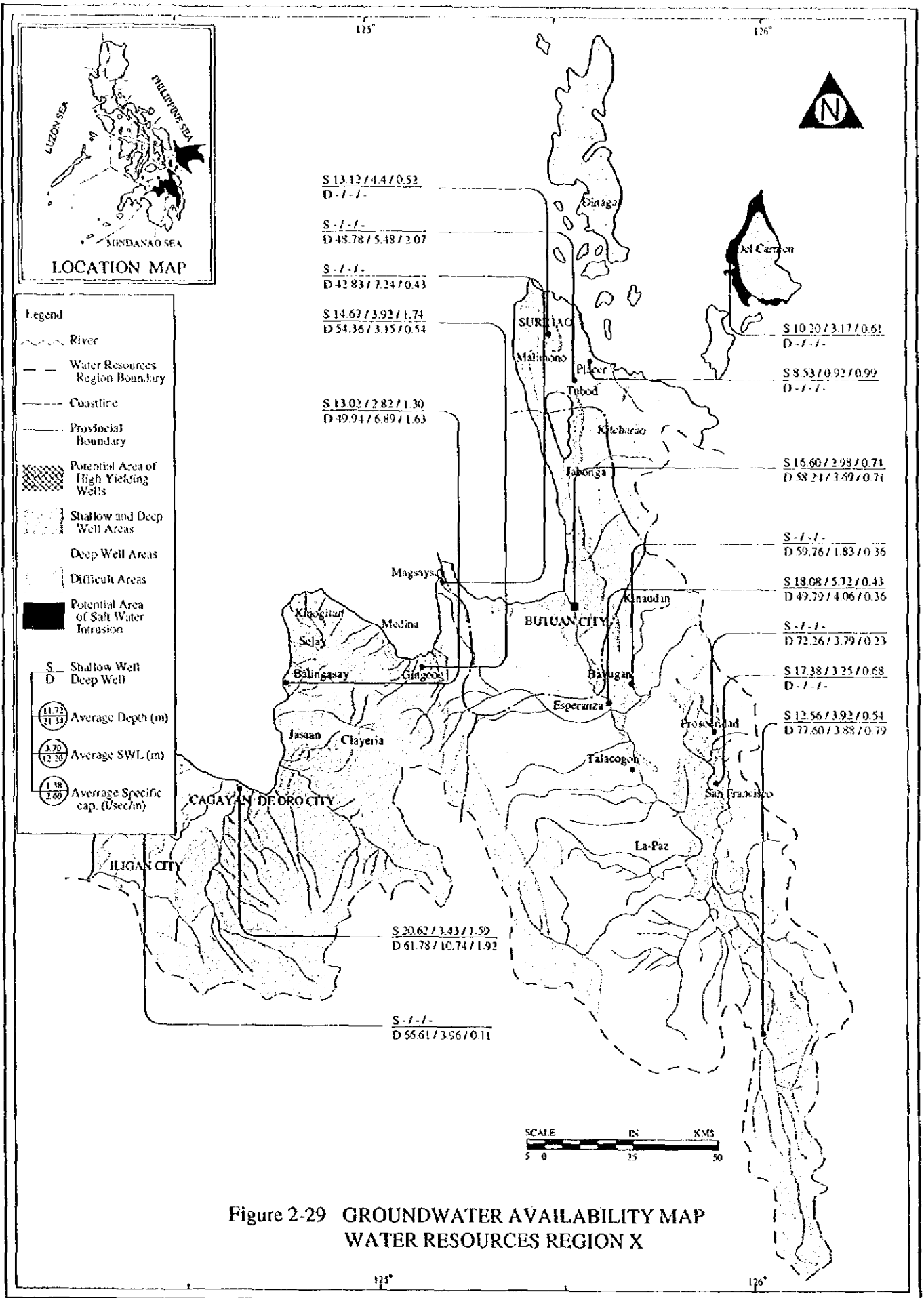
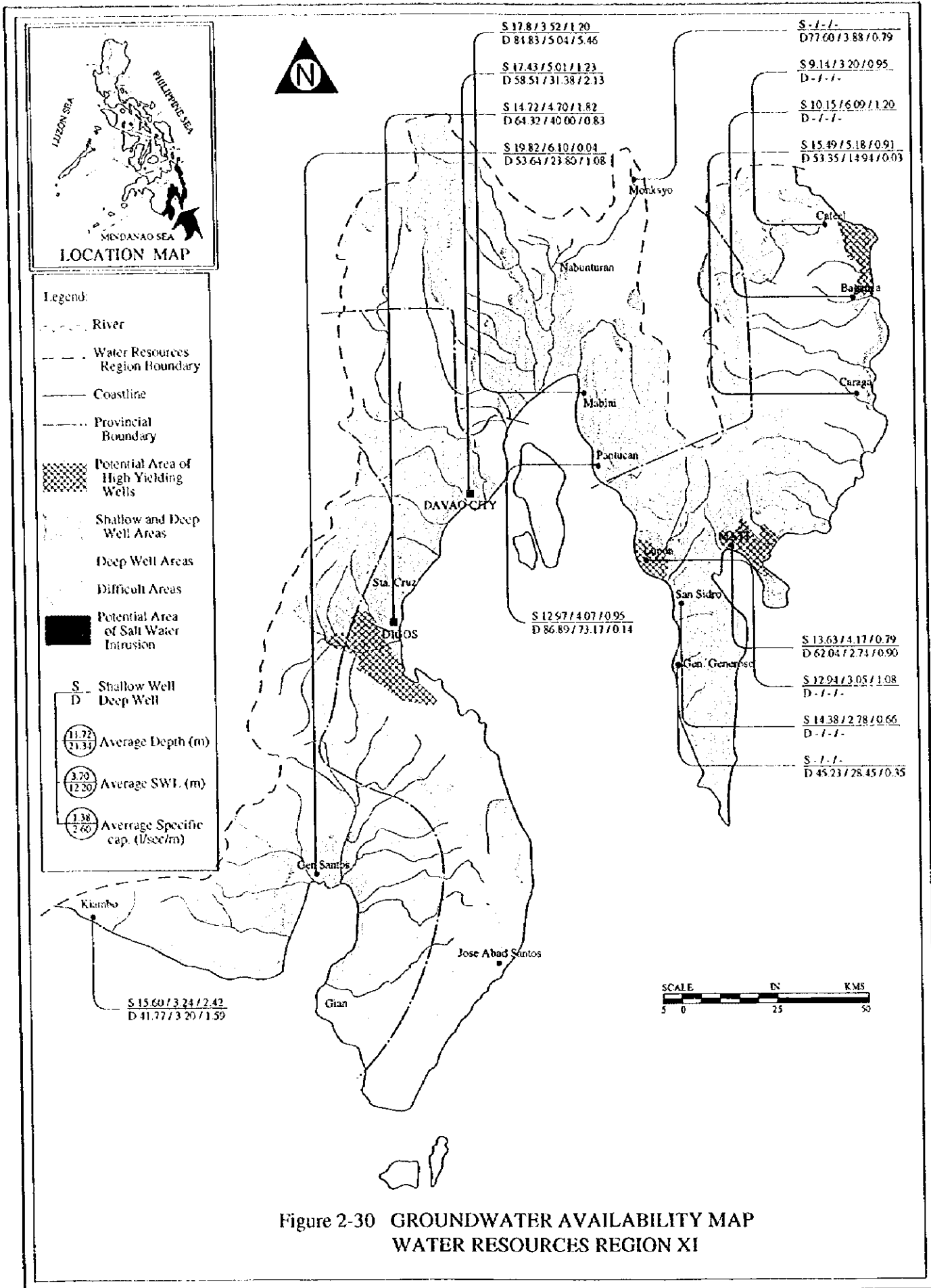


Figure 2-29 GROUNDWATER AVAILABILITY MAP
WATER RESOURCES REGION X



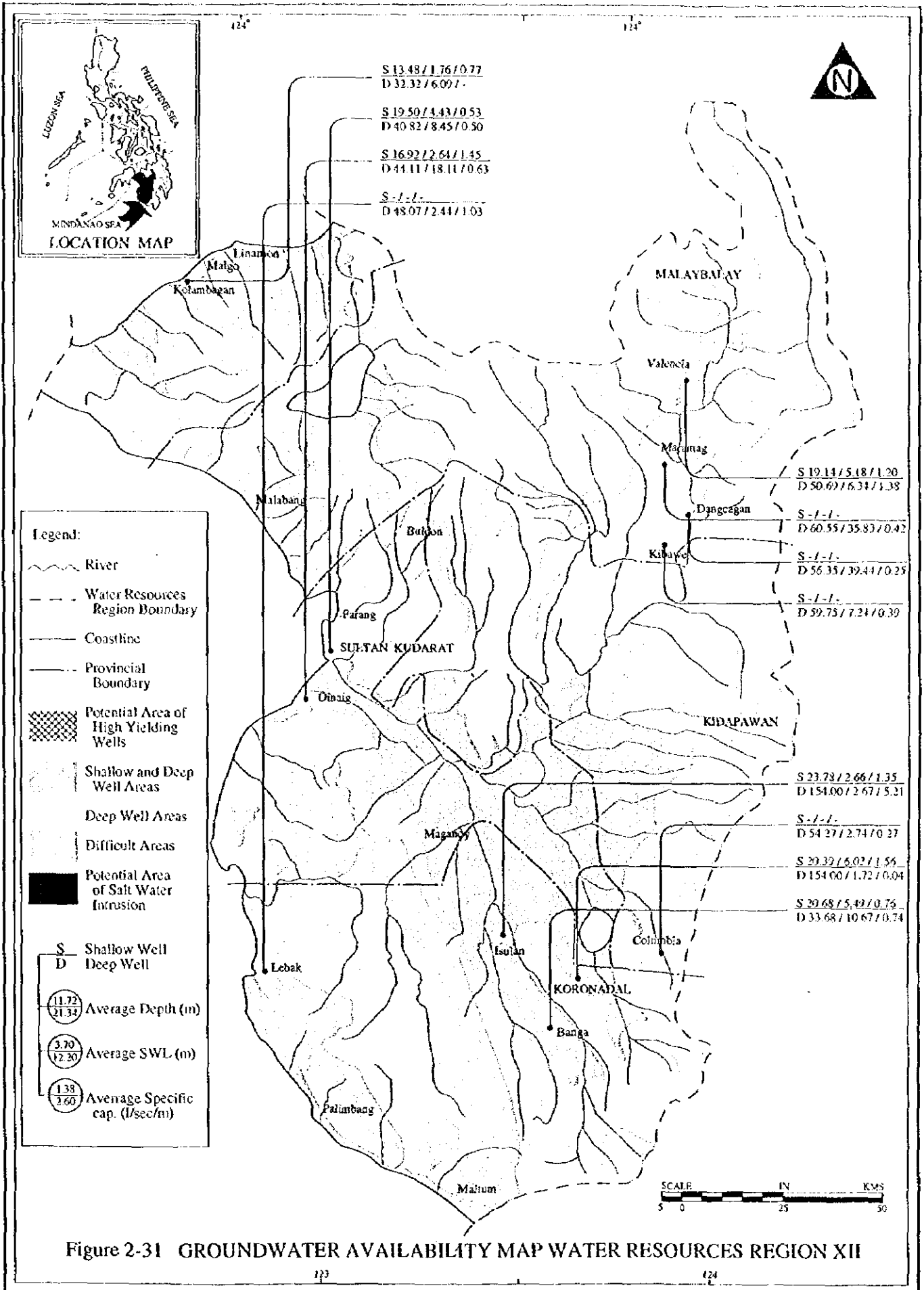


Figure 2-31 GROUNDWATER AVAILABILITY MAP WATER RESOURCES REGION XII