

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PEOPLE'S COMMITTEE OF HO CHI MINH CITY (PCHCMC)  
MINISTRY OF PLANNING AND INVESTMENT (MPI)  
THE SOCIALIST REPUBLIC OF VIET NAM

THE STUDY  
ON  
URBAN DRAINAGE AND SEWERAGE SYSTEM  
FOR  
HO CHI MINH CITY  
IN  
THE SOCIALIST REPUBLIC OF VIET NAM

FINAL REPORT

DATABOOK & DRAWINGS

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DECEMBER 1999

PACIFIC CONSULTANTS INTERNATIONAL

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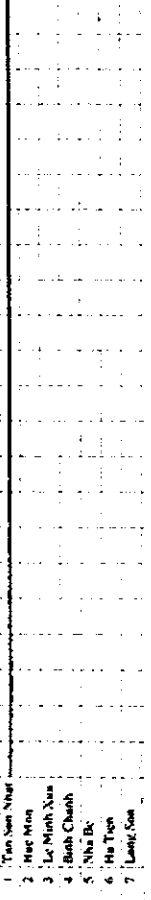
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***[PART I: DATA BOOK]***

***I-1 DATA ON RAINFALL AND WATER LEVEL***

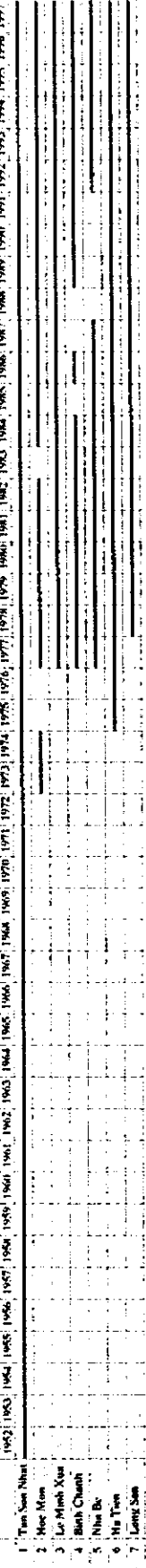
### BAR CHART OF COLLECTED DATA ON RAINFALL

**MONTHLY RAINFALL, TEMPERATURE, RELATIVE HUMIDITY AND SUNSHINE HOURS**  
 1978, 1977, 1976, 1975, 1974, 1973, 1972, 1971, 1970, 1969, 1968, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1959, 1958, 1957, 1956, 1955, 1954, 1953, 1952, 1951, 1950, 1949, 1948, 1947



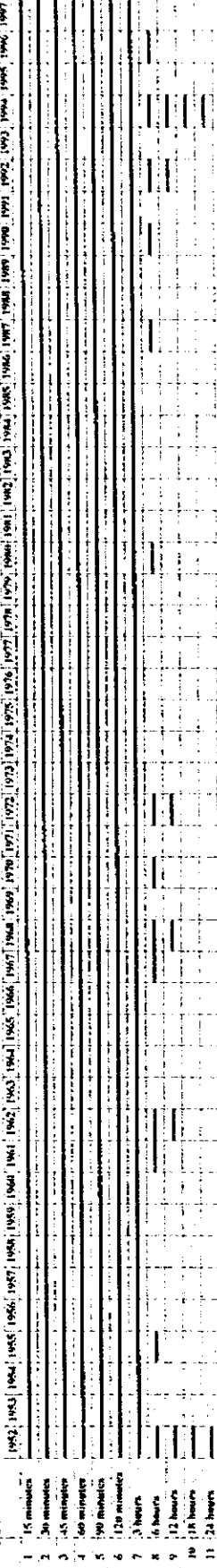
Data Source: Ho Chi Minh City Statistical Office

**ANNUAL MAXIMUM DAILY RAINFALL**



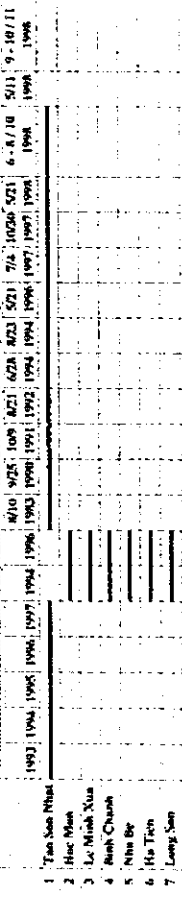
Data Source: Southern Region Hydro Meteorological Center, Ho Chi Minh City

**ANNUAL MAXIMUM SHORT AND LONG DURATION RAINFALL AT TAN SON NHAT**



Data Source: Southern Region Hydro Meteorological Center, Ho Chi Minh City

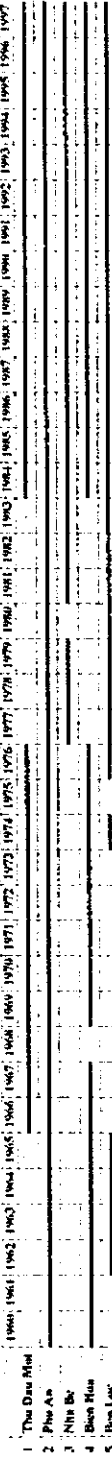
**TIME SERIES DATA ON RAINFALL**



Data Source: Southern Region Hydro Meteorological Center, Ho Chi Minh City

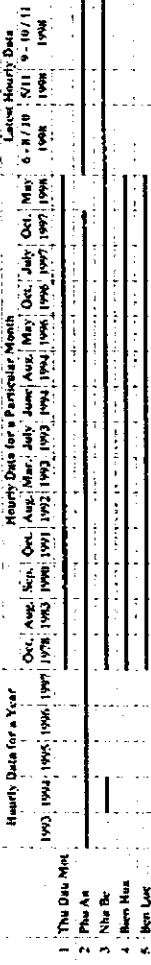
### BAR CHART OF COLLECTED DATA ON WATER LEVEL

**ANNUAL MAXIMUM AND MINIMUM WATER LEVELS**



Data Source: Southern Region Hydro Meteorological Center, Ho Chi Minh City

**TIME SERIES DATA ON WATER LEVEL**



Data Source: Southern Region Hydro Meteorological Center, Ho Chi Minh City







MASS CURVES OF TEN HEAVY RAINFALL EVENTS

Unit: mm

Time (min.)	Dates of Heavy Rainfall Events									
	10/8/83	11/6/87	26/10/90	21/8/92	28/4/94	23/8/94	6/8/95	21/5/96	20/5/98	9/10/98
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	3.0	34.5	0.2	0.8	0.2	7.8	4.6	1.3	8.7	0.2
30	3.6	64.2	6.2	1.1	0.7	19.7	47.6	5.1	38.7	10.0
45	10.2	83.8	24.0	1.4	1.4	54.0	70.6	15.4	67.2	19.6
60	24.2	87.1	75.2	1.4	1.7	97.4	75.8	16.4	84.8	29.1
75	44.2	88.6	77.9	3.9	2.0	105.7	75.8	17.3	91.2	38.6
90	74.2	89.0	79.1	4.0	5.1	106.4	75.8	19.5	94.0	110.8
105	94.2	90.4	79.1	8.9	15.9	106.7	85.4	19.6	94.7	112.1
120	105.2	92.5	79.2	9.1	26.3	106.8	85.4	21.7	112.6	112.7
135	106.0	92.8	79.2	9.8	37.3	106.9	85.4	49.6	112.7	112.7
150	106.9	93.3	81.4	13.1	47.1	107.0	85.6	73.9	112.8	112.8
165	93.5	93.5	83.4	20.9	57.7	107.1	85.6	82.4	112.9	112.9
180	93.7	93.7	84.0	33.5	59.5	108.3	86.7	83.8	113.0	113.0
195	93.7	93.7	84.6	41.9	68.1	111.8	87.2	89.7	113.1	113.1
210	93.9	93.9	88.3	66.3	70.9	112.1	87.8	89.9	113.2	113.2
225	93.9	93.9	88.9	80.6	74.9	115.1	88.2	89.9		
240	94.1	94.1	90.3	82.6	81.1	115.2	88.2	90.0		
255	94.3	94.3	91.5	85.4	85.7	115.3	88.2	90.5		
270			92.0	87.3	88.2	115.5	88.3	91.1		
285			92.2	88.6	91.1		88.4	91.7		
300			92.4	88.9	94.3		88.5	92.2		
315			92.5	89.3	96.7		88.6	92.9		
330							88.8	93.3		
345							93.6	93.9		
360							93.9	94.1		
375							94.1	95.2		
390							95.2			

Data Source : Southern Region Hydro Meteorological Center, Ho Chi Minh City

RAINFALLS AT TSN DURING 1994 & 1996 FLOODS

Unit: mm

Time (hour)	Tan Son Nhat				
	28/6/94	29/6/94	13/10/96	14/10/96	26/10/96 27/10/96 28/10/96
1	0.00	28.00	-	35.40	-
2	0.30	16.00	-	7.00	-
3	0.30	16.00	-	0.70	-
4	0.20	16.00	-	1.30	-
5	0.00	16.20	-	0.10	-
6	0.10	16.00	-	0.20	0.50
7	0.10	16.00	-	-	0.10
8	1.90	0.00	-	-	-
9	19.00	0.10	-	-	-
10	47.00	0.00	-	-	-
11	18.80	-	-	-	-
12	16.60	-	-	-	0.00
13	13.00	0.90	-	-	3.20
14	6.80	0.60	-	-	0.00
15	10.60	-	22.60	0.50	4.10
16	22.50	-	-	-	1.50
17	1.40	-	-	-	0.00
18	2.10	-	-	-	0.00
19	1.20	-	1.90	-	3.00
20	0.90	-	1.80	-	-
21	1.00	-	0.20	-	-
22	0.30	-	-	-	-
23	0.60	-	-	-	-
24	4.40	-	30.80	-	-

LATEST HOURLY RAINFALL AND WATER LEVEL DATA : YEAR 1998

Time (hour)	Tan Son Nhat (Unit: mm)			Phu An (Unit: EL. m in Mui Nai)			Nha Be (Unit: EL. m in Mui Nai)		
	6/10/98	7/10/98	8/10/98	6/10/98	7/10/98	8/10/98	6/10/98	7/10/98	8/10/98
1	-	-	-	0.65	0.21	-0.29	0.82	0.65	0.87
2	-	-	-	1.01	0.87	0.43	1.11	0.53	0.72
3	-	1.00	-	1.24	1.17	0.99	1.29	0.66	0.65
4	-	-	-	1.38	1.32	1.22	1.40	0.89	0.72
5	-	-	-	1.45	1.44	1.38	1.44	1.07	0.85
6	-	-	-	1.31	1.45	1.47	1.17	1.18	0.98
7	-	-	0.10	0.97	1.19	1.40	0.77	1.26	1.06
8	-	-	0.00	0.53	0.73	1.02	0.41	1.23	1.06
9	-	-	0.50	0.19	0.31	0.59	0.04	0.99	0.91
10	0.00	-	0.30	-0.16	-0.06	0.23	-0.31	0.56	0.61
11	2.00	-	0.10	-0.40	-0.43	-0.17	-0.69	0.14	0.23
12	0.00	-	0.10	-0.19	-0.63	-0.56	-0.89	-0.31	-0.16
13	0.00	-	-	0.61	-0.03	-0.76	-0.07	-0.75	-0.50
14	-	-	-	1.03	0.71	-0.20	0.71	-1.09	-0.79
15	0.40	1.20	-	1.24	1.10	0.63	1.07	-1.07	-1.05
16	0.70	6.50	-	1.38	1.27	1.04	1.25	-0.35	-0.99
17	-	0.10	-	1.47	1.42	1.23	1.40	0.39	-0.29
18	-	-	-	1.38	1.49	1.38	1.47	0.86	0.35
19	-	-	-	1.01	1.43	1.44	1.37	1.11	0.79
20	-	-	0.20	0.58	1.17	1.29	1.05	1.26	1.03
21	-	-	12.70	0.22	0.67	0.89	0.68	1.36	1.18
22	-	-	1.60	-0.15	0.33	0.50	0.37	1.40	1.28
23	-	-	2.10	-0.49	-0.02	0.17	0.08	1.32	1.34
24	-	-	-	-0.58	-0.30	-0.15	-0.07	1.10	1.33

Data Source : Southern Region Hydro Meteorological Center, Ho Chi Minh City







Year	Month	Day	Temperature	Humidity	Wind	Clouds	Pressure	Visibility	Notes
1948	Jan	1	45	75	10	100	30.0	10	
1948	Jan	2	40	70	15	100	29.8	10	
1948	Jan	3	35	65	20	100	29.6	10	
1948	Jan	4	30	60	25	100	29.4	10	
1948	Jan	5	25	55	30	100	29.2	10	
1948	Jan	6	20	50	35	100	29.0	10	
1948	Jan	7	15	45	40	100	28.8	10	
1948	Jan	8	10	40	45	100	28.6	10	
1948	Jan	9	5	35	50	100	28.4	10	
1948	Jan	10	0	30	55	100	28.2	10	
1948	Jan	11	-5	25	60	100	28.0	10	
1948	Jan	12	-10	20	65	100	27.8	10	
1948	Jan	13	-15	15	70	100	27.6	10	
1948	Jan	14	-20	10	75	100	27.4	10	
1948	Jan	15	-25	5	80	100	27.2	10	
1948	Jan	16	-30	0	85	100	27.0	10	
1948	Jan	17	-35	-5	90	100	26.8	10	
1948	Jan	18	-40	-10	95	100	26.6	10	
1948	Jan	19	-45	-15	100	100	26.4	10	
1948	Jan	20	-50	-20	100	100	26.2	10	
1948	Jan	21	-55	-25	100	100	26.0	10	
1948	Jan	22	-60	-30	100	100	25.8	10	
1948	Jan	23	-65	-35	100	100	25.6	10	
1948	Jan	24	-70	-40	100	100	25.4	10	
1948	Jan	25	-75	-45	100	100	25.2	10	
1948	Jan	26	-80	-50	100	100	25.0	10	
1948	Jan	27	-85	-55	100	100	24.8	10	
1948	Jan	28	-90	-60	100	100	24.6	10	
1948	Jan	29	-95	-65	100	100	24.4	10	
1948	Jan	30	-100	-70	100	100	24.2	10	
1948	Jan	31	-105	-75	100	100	24.0	10	
1948	Feb	1	-100	-75	100	100	24.0	10	
1948	Feb	2	-95	-70	100	100	24.2	10	
1948	Feb	3	-90	-65	100	100	24.4	10	
1948	Feb	4	-85	-60	100	100	24.6	10	
1948	Feb	5	-80	-55	100	100	24.8	10	
1948	Feb	6	-75	-50	100	100	25.0	10	
1948	Feb	7	-70	-45	100	100	25.2	10	
1948	Feb	8	-65	-40	100	100	25.4	10	
1948	Feb	9	-60	-35	100	100	25.6	10	
1948	Feb	10	-55	-30	100	100	25.8	10	
1948	Feb	11	-50	-25	100	100	26.0	10	
1948	Feb	12	-45	-20	100	100	26.2	10	
1948	Feb	13	-40	-15	100	100	26.4	10	
1948	Feb	14	-35	-10	100	100	26.6	10	
1948	Feb	15	-30	-5	100	100	26.8	10	
1948	Feb	16	-25	0	100	100	27.0	10	
1948	Feb	17	-20	5	100	100	27.2	10	
1948	Feb	18	-15	10	100	100	27.4	10	
1948	Feb	19	-10	15	100	100	27.6	10	
1948	Feb	20	-5	20	100	100	27.8	10	
1948	Feb	21	0	25	100	100	28.0	10	
1948	Feb	22	5	30	100	100	28.2	10	
1948	Feb	23	10	35	100	100	28.4	10	
1948	Feb	24	15	40	100	100	28.6	10	
1948	Feb	25	20	45	100	100	28.8	10	
1948	Feb	26	25	50	100	100	29.0	10	
1948	Feb	27	30	55	100	100	29.2	10	
1948	Feb	28	35	60	100	100	29.4	10	
1948	Feb	29	40	65	100	100	29.6	10	
1948	Feb	30	45	70	100	100	29.8	10	
1948	Feb	31	50	75	100	100	30.0	10	
1948	Mar	1	55	80	100	100	30.2	10	
1948	Mar	2	60	85	100	100	30.4	10	
1948	Mar	3	65	90	100	100	30.6	10	
1948	Mar	4	70	95	100	100	30.8	10	
1948	Mar	5	75	100	100	100	31.0	10	
1948	Mar	6	80	100	100	100	31.2	10	
1948	Mar	7	85	100	100	100	31.4	10	
1948	Mar	8	90	100	100	100	31.6	10	
1948	Mar	9	95	100	100	100	31.8	10	
1948	Mar	10	100	100	100	100	32.0	10	
1948	Mar	11	105	100	100	100	32.2	10	
1948	Mar	12	110	100	100	100	32.4	10	
1948	Mar	13	115	100	100	100	32.6	10	
1948	Mar	14	120	100	100	100	32.8	10	
1948	Mar	15	125	100	100	100	33.0	10	
1948	Mar	16	130	100	100	100	33.2	10	
1948	Mar	17	135	100	100	100	33.4	10	
1948	Mar	18	140	100	100	100	33.6	10	
1948	Mar	19	145	100	100	100	33.8	10	
1948	Mar	20	150	100	100	100	34.0	10	
1948	Mar	21	155	100	100	100	34.2	10	
1948	Mar	22	160	100	100	100	34.4	10	
1948	Mar	23	165	100	100	100	34.6	10	
1948	Mar	24	170	100	100	100	34.8	10	
1948	Mar	25	175	100	100	100	35.0	10	
1948	Mar	26	180	100	100	100	35.2	10	
1948	Mar	27	185	100	100	100	35.4	10	
1948	Mar	28	190	100	100	100	35.6	10	
1948	Mar	29	195	100	100	100	35.8	10	
1948	Mar	30	200	100	100	100	36.0	10	
1948	Mar	31	205	100	100	100	36.2	10	





Month	Day	No. of Days	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Miles																						
										1	2	3	4	5	6	7	8	9	10	11	12											
IX	1	24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
	2	25	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			
	X	1	26	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
		2	27	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
		XI	1	28	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
			2	29	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
			XII	1	30	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
				2	31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



Table with columns: Month, Starting Date, Days, No. of Men, Height, Weight, Chest, Arm, Hand, Foot, etc. The table contains numerous rows of data, likely representing a military or medical record.





MONTHLY MAXIMUM WATER LEVELS AT THU DAU MOT STATION

Table with columns: Year, January, February, March, April, May, June, July, August, September, October, November, December, Annual. Each month column has sub-columns for Max. and Date. Includes data for years 1954 to 1997 and an annual total column.

MONTHLY MAXIMUM WATER LEVELS AT PHU AN STATION

Table with columns: Year, January, February, March, April, May, June, July, August, September, October, November, December, Annual. Each month column has sub-columns for Max. and Date. Includes data for years 1960 to 1997 and an annual total column.

MONTHLY MAXIMUM WATER LEVELS AT NHA BE STATION

Table with columns: Year, January, February, March, April, May, June, July, August, September, October, November, December, Annual. Each month column has sub-columns for Max. and Date. Includes data for years 1977 to 1997 and an annual total column.

MONTHLY MAXIMUM WATER LEVELS AT BIEN HOA STATION

Table with columns: Year, January, February, March, April, May, June, July, August, September, October, November, December, Annual. Each month column has sub-columns for Max. and Date. Includes data for years 1960 to 1997 and an annual total column.

MONTHLY MAXIMUM WATER LEVELS AT BEN LUC STATION

Table with columns: Year, January, February, March, April, May, June, July, August, September, October, November, December, Annual. Each month column has sub-columns for Max. and Date. Includes data for years 1962 to 1997 and an annual total column.

Data Source: Southern Region Hydro Meteorological Center, Ho Chi Minh City

