Table 5.1 AVAILABLE DATA ON FLOOD

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Table 5.1 AVAILABLE DATA ON FLOOD (continued)

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Table 5.1 AVAILABLE DATA ON FLOOD (continued)

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Op: Peak discharge is available
Q: Discharge hydrograph is available
R: Water-level hydrograph is available
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HEE: Institute of Hydroslic Engineering (Pusat Lichang Pengairan)
POJ: Perusaban uman Overla Jarilehur
CJC: Casadane-Jakarta-Cibeet Water Resources Development Plan, 1980, Annex C
PDSA: Pengembangan Data Sumber Air

Table 5.1 AVAILABLE DATA ON FLOOD (continued)

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Table 5.1 AVAILABLE DATA ON FLOOD (continued)

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Table 5.1 AVAILABLE DATA ON FLOOD (continued)

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Note) O: Hoarty rainfall is available Op: Peak discharge is available

IME: Institute of Hydraulic Engineering (Pusat Lithang Pengairan).
POJ: Perusahaan umum Otoriza Jatilahur
CJC: (Candane-Jaharta-Cibeet Water Resources Development Plan, 1980, Annex C
PDSA: Pengembangan Data Sumber Air

Table 5.2 CONSTANTS OF SUB-BASINS FOR PRESENT LAND USE

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Cide	(Cidurian river)															
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(Cirus	(Cirarab river)					:										
5		147	37.5	1/ 700	30	27	43	0	0.410	-	270.3	9.0	1 20	0.1	0.65	8
(Cisad	(Cisadane river)															
8	September 1	193	26.5	1/ 15	0	0	57	43	-	280.0	26.7 0	0.333 (0.25	1.3	0.65	8
CS 27		12	<u>.</u>	1/ 32	40	0	9	0		0.038		l.,		ļ	0.65	8
S33		3	48.5	-	0	2;	45	53		0,091		0.333 (.65	8
S.		320		>	6	O	73	81 1		490.0	١.:.	Ε.		l	0.65	8
CS.5	A SECTION AND A SECTION ASSESSMENT ASSESSMEN	80	19.5	-	32	3	59	0	0.230	: <u>-</u>	108.3	9.0			0.65	8
(Ceng	(Cengkareng Floodway)		. 1												1	
ដូ	Pessnggrahan river	72	26	7.	0	0	81	O		0.056	1 '	0 333			l	8
5 G	Pesanggrahan river	អ		Ξ	70	0	30	0	0.100	-	17.4		_			<u> 30</u>
:: 	Grogol niver	8	ខ្ល	=	শ্র	0	36	0	0.120		65.1	0.61			0.65	8
8	Pesanggrahan river	23			8	O	0	0	0.020	- -	1.4					0 3
Q S	Angke river	.07		1/ 300	20	0	80	O	0.240		167.4		1.50	0.7.		150
اع اظ	Angke nver	=		≃∣	20	0	80	0	0.240	1	138.2	. <u></u> j			0.65	જ
6		31	2	=	63	ō	37	0	0.120	-	8,6			1		20
 5	Mookervaart canal	25	ĺ	1/ 570	88	o	ä	0	0.220		120.0	9.0	0.40	0.5 0	0.65	8
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(Weste	31														1	
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WB3	- 1	23			22	ō	30	0	0 100			1		0.4	0.65	150
WB.4	- 6	123	3	=	8	0	10	o	0000		28.9	0.6	0.10		0.65	20
WBS	Krukut river	88		8	78	0	22	0	0.080		75.0				.65	8
WB6		SS		=	100	i0	0	0	0.020		22.9			0.4.0	.65	S
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Table 5.2 CONSTANTS OF SUB-BASINS FOR PRESENT LAND USE (continued)

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		Arca	Length	Slope		Ratio	훓				٠.٠.			Constants	E C	ł	
	River Basin		8	90	Urban Arca	Paddy Field	i	e -	Forest, Bush	Z - S	O 	¥	۵.	<u></u>	ි	t:	S S
			Basın	Basin		Pond		Creen		:			.4-		· :		:
		(km2)	L (Km)	5-4	(%)		(%)	(%)	(c	(%)				(hr.)	(m3/s)	٥	(யய)
(Eastern	(Eastern Banjir Canal)				.*												
0	1 2	50.5	Š	1/ 500		9	ō	20		0	0.080	80	2 0.6		0.3	0.65	150
Į.	Sunter river	73.1	33	1/ 500		-05	0	\$0		0	0.160	128.7		1.00	0.5	9.65	8
1	Buaran river	13	6	7/ 650		o.	0	20:		0	0.080	42.1	ية تو		0.1	0.65	150
	Jatikramat river	16.5	19	7 600		03	0	20		0	0.080.0	58.1	_		0.1	0.65	150
2 2	Calcung river	34.5	33	1/ 450		09	4	36		0	0.160	124.7		1.00	0.2	990	<u>.</u>
Ι,									:	:					-		4.
Eatern B	Eatern Banjir Canal			١						- 1			1	-1			
EB.1		50.5				0	0	20		o o	0.0%0	8		- 1	0.3	0.65	8
EB.2		73.8	33		,	20	0	50:		. 1	0.160	128.7	7 0.6	8	0.5	0.65	8
EB.3		34.1	9	1/ 600	2	<u> </u> Ω	0	20		0	0.080	88			0.2	0.65	150
EB.4		48.6	33	1/ 450			4	36		o o	0.160	124	7 0.6	8	0.3	0.65	8
							3			:							
(CBL Floodway)	oodwey)								7	:			- 1				
CB.1	Cilcungsir river	261	50.5	1/ 120			S	30	:	- 20	0]		1.8	0.65	150
CB2	Cikeas niver	110	65	1/ 250		90	-	767		ឧ		0.056 56.3	0		8.0	0.65	150
	Bekasi nver	20	æ	1/ 530		02	01	8			0.290	80		4	0	0.65	8
CB.4	Bekasi nver	4.	3	1/ 430		O.	5	o			0.710	71	3 0.6		0	0.65	25
	Citoarang river	216	38	1/ 450		0	1	. 67		32		0.077 86.2	0	1.20	1.5	0.65	150
1	Cikarang river	14	m	1/ 380		0	1001	0			1.000	8			ö	0.65	150
CB7	Cisadang river	135	30.5	1/ 400		0	30	70			0.510	230			6.0	0.65	2
1 1		109	28.	1/ 490		0	80	90		0	950	268	8. 0.6	0.80	8.0	0.65	읾
(Cilema)	(Cilemahabang river)			-			٠									:	
		121	31	1/ 690		0	40	·09		0 0	0.580	295.	7 0.6	06.0	8.0	0.65	55
	Equivalent Roughness (N),											4	K= 735 (NL)),(C,,,,T,) N			
	Reserve Coefficient (C)			Z	O.				:			-	K= 43.4 C I'''	1 m			
	-	Urban area	R	0.02	210.0	:		:						•			
		Paddy Fix	Paddy Field, Pond	ş	(0.120)			· i									
		Forest, Bush	ush ush	5	0.70 0.120		٠										
							٠.										,

Table 5.3 CONSTANTS OF SUB-BASINS FOR FUTURE LAND USE

				-										1
	Arca	Length	Slope	-	Ratio of Future Land Use	and Usc					Constants			l
River Basin		ő	ğ	Urban Area	Paddy Field, Cu	Cultivated la Forest, Bush	N dsn	O	×	٨	0 H	ਜ਼ ਨੂੰ	Z.	es
:		Basin	Basin		Pond	Green		. . .				-		
	(km2)	L (Km)	,	(%)	(%)	(%)	(%)				(hr) (m3/s)	3/8)	(mm)	싊
(Cidurian river)		1												: 3
CD:1	378	7		6	0	74	12	0.063	59.9	0.333	2.80	2.6	1 590	2
CD.2	1 21	8	1/ 200	-0	0	76	9	80.0		0.333	1.80	- 1		81
(Cimerocours sives)														
CW.1	233	3 30	1/ 150	0	0	53.	47	0.086	61.7	0.333	06.0			S
CM 2	8		7	. 9/	0	24	060'0 :0	8	31.7	9.0		0.5.0	0.65	8
CM.3	116	5 29		28	0	51	21 0.310	10	175.0	9.0				ଝ
(Cirarab river)							ı		200		. 20	1	1	15
ដ	147	7 37.5	700	94	3	3 i	0000	8	85.3	0.0	07.1	0.1	C9:0	2
		. :					: .							
(Csaaane nver)					-	V.C	74.	0,000	L	0 373	300	2.	0.65	S
CS.	28.	1	ŀ	55		2	2	310	i c	223	8			5
CS2	7.	- [11 32	001		0	2		_ [200	ĺ		3 5
CS.3	6 43			33	ō	24	51	0.078	- 1	56.0	3	1	600	?
\$. \$.	32	0 26.5	061 /1	43	0	35				0.333	0.25			S S
CS.5	8	80 19.5	1/ 3%	100	0	0	0 0.020	22	25.0	9.0	0.25	0.6	l	ଜା
												٠		
(Cengkareng Floodway)						- 1						i	- [ļ
CF.1 Pesanggrahan river	72	26		42	0	28	ļ	0.038	1	0.333	0.70	l	0.65	ଥ
CF.2 Pesanggrahan river	2			100	0	0	- 1	2	9.9	90	0.0			ନ
	Ā	30 20		100	0	0		20:	22.2	9.0	0.40	0.2 0	0.65	ଝା
CF.4 Pesanggrahan river			ŀ	81	0	0		20	1.4	9.0	0.00			S
CF.5 Angke nver	107	4	1, 300	95	0	2	0.0	0.030	48.1	9.0		. 1	0.65	8
CF.6 Angkeriver	117			56	0	. 5		30.	39.7	9.0	80			ନ
CE.7	31	ĺ	=	100	0	O	,	20	22.1	9.0	070	0.2.	0.65	S
CF.8 Mookervaart canal	9			100	0	0		22	28.5	9.0	0.40			ଛ
													-	13
(Western Banjir Canal)														.]
WB.1 Ciliwung river	8	88 18	1/ 18	0	0	32	89	0.100	0: 29.7	0.333		1		ጽ
		-	>	30	0	28		l		0.333			0.65	S.
WB.3 Ciliwung river	.9		7	8	0	4		0.030	19.7	9.0	- 2	:	İ	ଛା
	123	3 15	1/ 170	100	0	0	0.0	0.020	16.7	9.0	0.10.	0.8		જ
	×		/1	100	0	0		20	32.6	0.6				8
WB.6	*	\$5 14	7	100	0	0		20	22.9	9.0	0.10			8
														,

Table 5.3 CONSTANTS OF SUB-BASINS FOR FUTURE LAND USE (continued)

						1									į	1		Ì
	:	Arca	Length	Slope			Ratio of Future Land Use	re Land Us			ſ				Constants	Sign	ŀ	1
	River Basin	-,-	jo	ć.	Urban Area		Paddy Field,	Cultivated la		Forest, Bush	z	υ 	×	Δ,	 F	ි	 #	3
		:	Basin	Basin			Pond	Green	<u></u> :	1	-				: -	: : ·		- :
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		(km2) 1. (Km	(E.V.)	н		(%)	(%)	Ĭ	(%)	(%)					(hr) (m3/s)	m3/s)	٦	(mm)
(Easter	(Eastern Banjir Canal)									1								
ပိ	Cipinang niver	50.5	8	288		001	0		0			0	3.0		8	03	0.65	2
1	Sunter nver	73.1	33	7/ 500		8	0		ò		0.020	0	37.0	0.6	8	0.5	0.65	ଞ୍ଚ
t	Buaran river	13.	6	1/ 650		8	0		0		0.02	0	18.3		0.00	0.1	0.65	સુ
77.		16.5	16	7 600		81	0		o		0.020	Q	25.3		0.20	0.1	0.65	징
S	1	34.5	33	1/ 450		8	0		0		0.00	0.	35.8	0.6	1.8	0.2	0.65	150
						:		: -	• •				: ".		:		:	
Faster	Eastern Banjir Canal										000	<	27.0		8	120	39.0	150
EBI		505	8	8 >		8	0		5			2 6	7.17	1	3 3	3	3	3 5
EB 2		73.8	33	7 800		8	0		٥		0.020	9	37.0	00	3	3	8	3
EB3		34.1	16	7 600		8	0		0		00	o	25.3		070	077	0.65	3
EB.4		48.6	33	1/ 450		801	0		0		0.0	8	35.8		8	0.3	0.65	25
			- :															4:
(CBL)	(CBL Floodway)					-	-									-		
8	Cilcungsir river	761	50.5	1/ 120		ဓ္က	0		22		8	0.075	_		.80 08:1	8.	0.65	3
CB2	Cikeas river	110	49	1/ 250		75	0		17			0.028	- 1	0.333	1.70;	0.8	0.65	2
CB3	Bekasi nver	18	∞	1/ 530	_	8	٥	:	0		0.020	Ω.	16.1		: 1	0.1	0.65	55
80	Bekası river	4.	9	1/ 430.		80	20	-	0		0 0.220	00	35.3	90	:	0.1	0.65	: S
SBC	1	216	38	1/ 450		25	0		43		32	0.065			1,20	1.5	0.65	8
989	ĺ	14,	3	1/ 380		9	0		0		0.020	102	8.1	9.0	1.	0.1	0.65	150
CB.7	Ţ	135	30.5	1/ 400		93	0		7	:		ဝူ	20.0	90		60	0.65	150
CBS	Į.	82	23	1/ 490		\$8	15		0		0 0.170	2	120.2	9.0	080	8.0	0.65	3
	(Cilemotohuma river)						:		Ĵ									. !
	() Y	1561	12	069 /1		75	0		25		0600	8	8,7		0.6 0.90	8.0	0.65	55
	Fourtains Ronobness (N.)				! :								2		11111	,		
	Reserve Coefficient (C)			7	O			1					Ϋ́	K= 43.4 CI 10 L10	617 E12			
		Urban area	ď	0.0	2 0.012									:				
		Paddy Field Por	ld Pond		(0.120)											· .		
		Cultivated land.	land, Green	_	(0.056)													
		Forest, Bush	Sh		0.70 0.120							:						
	-										:							

Table 5.4 CONSTANTS OF CHANNELS

River System - Channel	S (m') Q (m'/s)	$T_1(h)$	ſ·	River - Channel	S (m ³)	Q (m ³ /s)	$T_1(h)$
Cimanceuri river			West	ern Banjir Canal			
A Cimanceuri river	2 545E+2 18	<u>-</u>	М	Ciliwung river	1.978E+2	100	
	1 306E+3 300	1 1	1		6 561E+2	400	
	3.870E+3 950	3.1			1.697E+3	1200	0.3
1.4 - 1							
Cisadane river		1 1 1	N	Western Banjir Canal	9.564€+1	100	
B Cisadane river	4.153E+1 200]		2.438E+2	400	
	1 202E+2 1200			1.1	5.118E+2	1200	0.2
	1.813E+2 2400	0.0				,	2000
			0	Western Banjir Canal	3.077E+2	100	
C Cisadane river	5.193E+2 200	1.1	1	1.1	8.175E+2	400	
	1.626E+3 1200	100			1.7748+3	1200	0.5
	2 528E+3 2400	0.3	L			f	
			Easte	m Banjir Canal			:
D Cisadane river	1 523E+3 200		8	Eastern Banjir Canal	1.223E+1	50	
	4.608E+3 1200	** :			1.975E+1	100	
	8.540E+3 2400	0.8	1 :	Contract Contract	3.333E+1	200	0.0
			<u> </u>	<u> </u>	6.405E+1	600	
E Cisadane river	5.785E+2 200		Q	Eastern Banjir Canal	3.880E+1	50	
	1.610E+3 1200				7.758E+1	150	
	3 205E+3 2400	0.6	•		1.145E+2	250	0.1
					1.883E+2	600	
Cengkareng Floodway			R	Eastern Banjir Canal	8.201E+1	50	
F Pesanggrahan river	3.125E+2 100		ĺ		1.256E+2	100	4 4.
	8.502E+2 400				2.073E+2	200	0.3
	1.879E+3 1200	0.4			3.923E+2	600	
			CBL	Floodway			
G Pesanggrahan river	2 853E+2 100		S	Bekasi river	2.745E+2	100	- ·
	7.603E+2 400				7.532E+2	400	
	1.653E+3 1200	0.4		1 to 1 to 1 to 1	1.676E+3	1200	0.5
2 2							Ja 194
H Angke river	2.647E+2 100		T	Bekasi river	3.894E+2	100	
•	6 861E+2 400	2.0	l .		1.029E+3	400	
	1.459E+3 1200	0.4			2.223E+3	1200	0.6
<u> </u>						7	
I Cengkareng Floodway	2.174E+1 100		U	Cikarang river	1.493E+2	100	- 1
e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	5.405E+1 400	- :			3.935E+2	400	
	1.112E+2 1200	0.0			8.481E+2	1200	0.2
				. •			
Western Banjir Canal			V	CBL Floodway	1.606E+2	100	
J Citiwung river	5.884E+1 100		1		4.387E+2	400	
•	1.400E+2 .400		· .		9.730E+2	1200	0.2
	2 781E+2 1200	0.0	L				
			W	CBL Floodway	7.505E+1	100	
K Ciliwung river	2.724E+2 100		·		2.051E+2	400	
	6 800E+2 400				4.548E+2	1200	0.1
	1.404E+3 1200	0.2					1.1
			Х	CBL Floodway	1.894E+2	100	
L Ciliwung river	7.169E+2 100	1 1	1		5.174E+2	400	1 1
	1.927E+3 400	1 1			1.148E+3	1200	0.3
	4.736E+3 1200	0.8	1				

* $\Pi(h) = 7.36 \times 10^4 \times L (km) \times \Gamma^{12}$

Table 8.1 SUMMARY OF DATA COLLECTED

	41.4			Janu	ary '96 F	lood .						ary 96 l				Data
Station	(River)	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	7-Feb	8 Feb	9-Feb	10-Feb	il-Feb	12-Feb	13-Feb	Source
ainfail		-													1	
1 Citeko		н	н	н	H	14	н	Н	H	11	Н	Н	H	H	H	8MG, Beger
2 Gadeg		0	D	D	D	D	D	D	D	D	D	D	D	D	Ð	BMG, Beger
3 Katulampa		D	D.	D	D	D	D	D	Ď	D	D	- D	D	D	Ð	PU, Bogor
4 Darmaga		H/D	H/D	H/D	H/D	H/D	H/D	H/D	H/D	11/0	H/D	H/D	H/D	H/O	H/D	BMG, Begor
5 Empang		D	D	D	D	D	D	D	D	D	Đ	D	D	D	D	BMG, Begor
6 Curug		D	D	Ď	D	D	D	D	0	D	D	D	D	D	D	BMG, Begor
7 Depok		D	D	D	D	D	D	D	0	D	D	D	D	D	D	BMG, Bogor
8 Halim		H/D	H/D	H/D	H/D	H/D	H/D	H/D	D	D	D	D	D	Đ	D.	BMO, Wilayah
9 Ciledus		D	D	D	D	D	D	D	D	D	D	D	D	D	D	BMG, Wileyah
10 Tangerang		D	D	D	ă	D	D	D	D	D	D	0	D	D	D	BMG, Wilayah
11 Manggarai		D	D	D	D	. D	D	D	D	D	D	D	D	D	D	PU, DKI
12 Kard			D	D	0		D	 		D	. D	D	D	D	D	PU, DKI
		D	D	D	0	D	0	D	D	D	D	D	D	D	D	BMG Wilayah
1) Cengkareng 14 Jakarta		<u>D</u>	D	D	0	D	D	D	D.	В	D	D	D	D	D	BMG, Wilayah
		D	D	D	D	D	D	D	D	D	D	D	D	D	D	BMG, Wilayah
15 Tanjung Prick		- D	D	D	D	D	D	D	D	D	D	D	D	D	D	POSA
16 Cikarang		, D	 ''	- 0	-	 "	, U	1 0	- '					 -		
Water Level			<u> </u>			 	1	-	Н	- 11	11	Н	н	Н	H	PDSA
1 Katulampa	(Ciliwung)	<u> </u>			Н.	H	H	H	H	H	1 11	Н	н	H	H :	PU Bogor
2 Katulampa Weir	(Ciliwung)			h				1	"	 	 	1	-	1	-	PDSA
J Kampung Kelapa	(Ciliwang)	I	i l	1	1.1		1			4						PDSA
4 Ratujaya	(Ciliwung)		1	1		1	1	1		1	<u> </u>			H		PU, DKI
5 Depok	(Ciliwung)		<u> </u>	Н	H	н	Н	h .	<u>h</u>	Н	11	H	Н			PDSA
6 Sagu Tarau	(Ciliwung)	-	<u> </u>			-			I	 	 			ļ	1)	PU DKI
 Manggarai Gate 	(Citiwang)			, h	Н	H	11	l h	h.	Н	111	H	н	H		PU, DKI
8 Manggarai Gate	(Lower Citiwing)			ħ	н	33	H	h	<u>. b</u>	Н	Н	H	Н	<u> </u>	<u>H</u>	
9 Manggarai Gate	(W8C)		<u> </u>	<u> </u>	Н	Н	н	h	h	Н	H	H:	H	<u> </u>	H	PU, DKI
10 Karet Bivak	(W8C)	н	H	H	н	H	11	H	H	Н	H	H	H	<u>} H</u>	1 13	PDSA
11 Karet Gute	(V8C)	<u> </u>	н	н	H	H	н	h	H	H	H	H	Н	H	<u> h</u>	PU, DKI
12 Bendung Hills	(Krukut)	H	Н	Н	н	н	H	H	Н	Н	H	H	Н	H	1 11	PDSA
13 Rawa Buaya	(Angke)	н	Н	iн	Н	H-	н	H	Н	H	H	H	H	ļ H	8	PDSA
14 Kebeng Jeruk	(Pesanggrahan)			<u> </u>		<u> </u>	1		1	1	<u> </u>	<u>. </u>	<u> </u>	1	<u> </u>	PDSA
15 Genteng	(Cissdane)	H/1	H/1	h/I	R/I	· H/1	H/I	H/1	H/1	1/1	H/1	H/1	H/I	H/I	H/1	PDSA
6 Bate Boulah	(Cisadane)	H/1	H/I	H/1	H/1	H/1	H/I	H/I	H/1	H/I	H/1	H/1	H/I	H/1	H/L	PDSA
17 Serpong	(Cisadant)	31/1	H/I	H/1	H/1	H/1	H/L	8/1	1	1	1	1	1		<u> </u>	PDSA
18 Babakan	(Cisadene)	-1	1		1	- T	, ,		H/1	H/1	11/1	8/4	H/I	H/I	1 11/1	PDSA
19 BD. Pasar Baru	(Cisadane)		1	<u> </u>	3	Ţ;	İ			Ţ			i		<u> </u>	PDSA
20 Cilcungsi	(Bekasi) .	Н] 18	H	H,	Н	H	H	В	Н	H	H	Н	Н	- 11	PDSA
21 Palmerah	(Gregol)	1	T	1	1 1	1	1	1	I.	1	1	l t	1	Į į		PDSA
Discharge	1		1	1	1	1.	1	Ţ		1	1	[1	1	1.	
1 Kasulampa Weir	(Citiwang)		Ţ -	j b	н	Н	11	ÌΗ	111	H	11	i II	Н	H	Н	PU, Bogor
2 Manggarai Gate	(Lower Citiwaing)		1	h	11	H	H	b	h	H	H	. H	Н	H	H	PÚ, DKI
3 Manggarai Gate	(WBC)	 -	1 -	h	H	H	Н	6	h			-		, -	1	PU, DKI
4 Karet Gate	(WBC)		h	1 11	B	h	h	1 6	н	Н	H	h	·	b	H	PU, DKI
Tide			†- <u></u> -	,	1	† - 	†- -	1	t	1	Ť .	1	ļ-	i i	1	<u> </u>
1 Tanjung Prick		н	Н	н	H	H	H	1	н	Н	Н	H	н	Н	1 11	P.T. Pelabuhan

I: Intermittently Data (at 6 00, 12 00, 18 00)
 D. Daily Data
 H: Completed Hourly Data

Table 8.2 HOURLY RAINFALL

Date													III C					1				11.0	
	07-08	60-80 0	09-10	10-11	11-12	12-13	1.3-14	14-1	15-1(07-08 08-09 09-10 10-11 11-12 12-13 13-14 14-15 15-16 16-17 17-18	17-1X		19-20	20-21	21-22	22	23-24	000	01-02	18-19 19-20 20-21 21-22 22-23 23-24 00-01 01-02 02-03 03-04 04-05 05-06 06-07	9	SO 50	8
												វី	Crteko									-	
2-Jan-96				,		 -	1.9	1.9 12.1	2.7	0.5	0.2	5.0	0.1	•	•	•	•					!	-
3-Jan-96		•	۱	ŀ	ŀ	ŀ		ŀ	ŀ	19.0	71.0	17.6	0.7	0.2	E.A	0.2	0.1		5.1	0.5	. 0.3	3 0.6	3.4
4-Jan-96	0:	4.0	9.0	3.0	3.0	22	24.8	9.2	8.6	8.2	3.7	123 1.1	1.1	4.0	0.1	•	•	•	•	0	0.9 5.5		4.3
5-Jan-96	3.4	3.4	5.2	1.2	3.8	5.2	×.6	9	28.6	6.0	5.1	10.X	0.2	,			•				1.0		1.4
6-Jan-96		9.0	63	9	-	120	i	0	Ŀ	<u> </u>	Ŀ		-	ļ -		0.4	1.5	9.0	19.9	9.0 13.0	1.0 20.8	8 5.0	11.2
7-320-96	34.0	5.0	16.4	0.5	0.1	11.5	3.9	10.6	6	ŀ	•	-		-				•	-	_	~	-	
8-320-96	ŀ	ŀ		•	Ŀ	·		ŀ		1.5	0.4	•	0.1	2.4	1.5	0.5	2.7	8.0	0.2	0.3	1.0 0.1	-	
9-Jan-96			·	٠	.	ŀ	ŀ		:	 -	0.5	11.8	1.7	0.3	0.1		•				_		•
6-Feb-96	·	١					,	Ľ	ŀ			-		,		,	-	-	0.X	•	- 0.2	2	-
7-Feb-96	•	4.0	[3		0.1	0.2		9	١.	 	<u>.</u>	ŀ			,		1	-	•	: · · ·		-	_
8-Feb-96	ŀ				ŀ		,		12	1.0	9	0.5	0.1	6.0	-			-	0.5	1.0 0.1	0.5 2.5	5 0.1	
9-Feb-96	Ŀ	ŀ	1.0	9.0	,	ŀ		١.	ŀ		ŀ			-	١,		4.0	1.0	•	0	0.6 0.4	4 0.5	0.1
10-Feb-96	ŀ	ŀ		9	ŀ	ŀ	ŀ	- -	*	11.2	4.2	v.	::	0.2	•	,			-	0 -	0.3 0.6	5 5.4	1 2.6
11-Feb-96	10.01	300	9 9 9	I	\$.5	0	0	9		0.7	<u> </u>		,	•	1.7	7.7	6.5	2.2	14.0	0 08	0.4 0.4	4 0.7	0.7
12-Feb-96	0	0.1	0.7				9.0			•	•	•	•	ŀ	,			- [']	•	•		-	_
13-769-96	<u> </u>	•	·	•			30.0	37.0	•	6.			5.7		,		-	-			- 1:		
												Darmaga	NO.								ľ		
2. Jan -96	ŀ				Ŀ	°	0.8	4.	0			5	5	0.1		5				<u> </u> ,		ļ. -	Ľ
3-Jan-96			[0.1						ŀ		[ŀ	-			,	-		_ ,	1.7	7 7.0	-
4-Jan-96	ŀ].		.	4.5			ŀ		7.8	Ī.	99	ļ.	ļ,	ļ,	1	<u> </u>	-	9.0	6.6 4.4	 	4.7
8	·				ļ.].	9	c	0.7	l:			ļ,	ļ.	-	-	,		-			-
% in . 9	1 .				ö	Ŀ			-	<u>.</u>	:[.	ŀ	9		19.5	ļ.	80	25.8	25	26 1	1.1 0.6	5 11.0	13
7.	č	[9	8 4	7	7.	Š	ŀ	ŀ			1	-	١.	,	-	1-	-	-	┞	-	-
S was	. 1 .			•	3	: 3					L		1	١.		l.	١.	50	2.8	50	0.1	0.1	-
9-14-96	ŀ	ŀ		[•		ŀ				10	ļ.	T		ļ.		ţ- ,	ļ	 	<u>'</u>	<u>'</u>	ļ. -
8-65-69 8-69-89		ŀ	[.	[.	ŀ				ŀ				,	١.	-	ļ,	1.2	Ī.	- ,	-	-	<u>'</u>	<u> </u>
7-F6-8		ŀ	0			2				%. %.	5.0		ŀ	-	1-		-	ļ.	ļ	°	0.3	0	-
8-53-x			,							4.5	2.7	1.6	0.2	0.1	,	,	6.0	3.9	3.3	<u> </u>	-	0.1	
9-Feb-96		•	,	,	١		•	•		·	0.3	٠	• ,	•.	•	0.1	0.1	0.3		0	0.2 0.3	3 0.4	¥.0
10-Feb-96		•		,	•			۱,		0.5	0.2	0.3] -	-	•				9.0	٠.	0.2 3.1	1 0.1	
11-Feb-96	14.7	11.4	6.5	2.4	1.2	1.2	0.1		·	٠	•	,		5.6	13.8	33.0	11.5	3.5	11	4.0	,	1 02	2
12-Feb-96	•	•	•							-		1 m ₹ 6 m	•	•	•	•	-	•	-		•	-	-
13-Feb-96			•	•	•		9.6	16.6	6.1	4.5	61	0.7	0.1	•	•	•	1	•	•	0	0.1	•	2,0
	4	:										Halsm	ug.								** * * *		7
2-Jan-96			•	•			•	٠	•	0.4	1.1	2.3	1.4	0.3		•				•	÷. [] ÷	•	
3-Jan-96	,	,	•	•	-		0.3	•	•	•			-	•		1.2	0.1	0.5		9.8	4.7	•	•
4-Jan-96	5.1	1.8	0.1	0.5		3.4	٠	٠		•	•	•	•			.6.8	9.4	•	2.3	7.2 4	4.8 2.0	3.4	2.3
5-Jan-96	0.7	1.8	0.1	0.2			1.0.4	0.2		0.4	0.3		ŀ	•	0.7	0.4	0.2	 	-	-		-	•
6-Jan-96		,		0.X	0.2		0.1			,		,	3.3	0.3	,	 	ŀ		46.1	12.1	5.8 1.5	5.0.4	0.2
7-Jan-96	2.6	9.6	2.2		3.2	4.0	9.0		•		[•					1			1.6	_			-
%.\an-%		0.5						•	$ \cdot $					-	,	-	0.3	9.6	2.6	2.0-1	1.8 0.2	~	•
9-Jan-96	•	•	•	•			•			-		-	•		_	-		-	•			-	_
								١															

Table 8.3 DAILY RAINFALL (1/2)

					- District	Line and the second			Olivera Marie	Contract of the same	11000000	7.4000	Ceda a Acres	TAVABTA	WO DO OF	DATATAD
	CITENO	200	KATULAMPA	DAXWALA	DAY	S CORE	¥ 9	A WILLIAM	מאני פר	BMC	PUDK	PU DKI	BMG	BMC	BMC C	8MG
20.078	ACC BAC	SE C	ro soger	XXX 5MC	0.0	Š	Š	OW	ă							5
0/0/9/	17.4	00		5.0	0.19	5.0	0.9	4.9	22	5.1	33.0	Y/N#	32.9	40.1	41.1	0.0
8/01/03	123.0	0.61	750	8.8	11.0			1				1	-	!		i
8/01/04	0.66	141.0	39.0	29.4	65.0							1				
96/01/05	81.4	15.0	800	3.6	14.0							!				
90/10/96	1040	125.0	04	86.0	72.0			.:					; :			
20/10/96	122.9	0.08	15.0	215	110.0											
96/01/08	11.5	5.0		5.8	24.0	İ			:			i -				
60/10/96	14.4	20.0	16.0	0.1	0.0			:				i				
96/01/10	4.1	5.0		17.0	14.0	1								-		
96/01/11	00	2.0		00	11.0									1		
96/01/12	36.0	2.0	† [[0.5	0.0											
61/10/96	2.6	0.0	-	0'0	0.19						j -	Í				
96/01/14	26.5	20.0		1.5	0.0											
\$4/01/15	11.5	5.0		36.6	25.0											
96/01/16	2.5	5.0		3.9	0.0							i (I		7.		
\$601/17	o	0.0		6 1	0.1											
81/10/96	5,4	0.0		3.0	2.0]										
96/01/19	15.3	15.0		0.0	18.0							;				
96/01/20	16.2	20.0		4.0	16.0								•			
12/10/96	28.8	0.0		0.0	0.0				 				· · · · · · ·			
\$6,01/22	7.4	18.0		15.0	13.0											
96/01/23	6.1	1.0		0.1	0.5											
98/01/24	0.2	0.0		0.0	0.0											
\$5/01/25	0.0	0.0		0.0	0.0											
98/01/26	7.0	0.0	0.0	0.2	0.0								2			
72/10/96	6.0	0.0		4.6	0.0			1								
82/10/96	4.5	0.0		0.2	0.0											
62/10/96	0.0	0.0		0.0	0.0									İ		,
96/01/30	0.0	0.0		0.1	0.0							- 1				
96/01/31	28.2	18.0		37.5	0.0	-										

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Dage	ARR BMC	BMC	PU Bogg	ARR BING	BWC	BMC	BMG	BMC	BMC	BMC	24 DK	PU DKI	BMG	BMC	DMG	BMC
0/20/96	17.7	12.0			22.0	0.0	0.	3.2			:	ı		1		24.0
20/20/96	12.4	12.0	0.0	1.9	33.0	87	5.0	00	1				6.0			2.0
96/02/03	0.0	0.1		0.2	13.0	5.0	0.0	00		}		ì.				0.0
96/02/04	44.5	5.0	7.0	5.4	0.0	2.0	12.0	26.8								3,0
96/02/05	7.1					0.0	0.0	0.0								0
90/20/96	1.0					0.0	35.0	7.2								0.0
70/20/96	1.2	5.0	27.0	5.6	2.0	29.0	0.0	0.0	0.0	75.4	21.0	V/V#	65.8	37.6	5.0	27.0
96/02/08	10,1					2.0	28.0	21.0				1				13.0
60/20/96	4.6					24.0	0.0	4.	ŀ			•				3.0
96/02/10	30.6	24.0	130,0	5.4		35.8	0.08	6.86						-	:	28.0
96/02/11	114.4			ľ	Ĭ	0.0	65.0	0.98								36.0
96/02/12	2.4	4.0				1.5	0.0	6.8		1		:				17.0
9×/02/13	74.8	2.0		366	23.0	8.0	3.0	7.0								13.0
96/02/14	27.0				30.0	1.0	36.0	0.0								0.0
96/02/15	0.0					6.0	0.0	0.0							1	ŏ
96/02/16	. 12	25.0	00			45.0	0.0	2.1				1	1			ŏ
71/20/	18.0	0.0				0.9	3.0	0.61								32.0
81/20/9	60	3.0				1.0	20.0	77					1			25.0
96/02/19	\$6.8	0.0				21.5	0.61	0.0								ŏ
96/02/20	25.3	0.0				2.5	0.0	3.3				٠.				ž
12/20/96	011	0.0				0.0	0.0	36.2					1		٠	33.
96/02/22	61.6	40.0	27.0	24.5		0.0	2.0	14.2				-				ŏ
8,00,723	57.6	25.0				0.0	0.0	100				1	٠			7
\$5,00,224	6.5	0.0				0.9	0.01	13.3				-				ŏ
X/02/25	4.9	5.0				2.5	7.0	33.0								17.
92/20/96	\$6.4	50.0	4.0	5.2	14.0	6.7	3.0	X o							.	3.
627707%	0	0.0			0.9	0.0	5.0	14.2			1					8
8772078	3.8	5.0	12.0		27.0	28.9	1.0	15.0	:						ļ	18,
00,000					1	66.	2.5	6		i .						35.

Table 8.4 INUNDATION AREA IN DKI JAKARTA CAUSED BY JAN./FEB. 1996 FLOODS (1/4)

District		מאר אירטאטאיישווי	Arca				Map
	Loc. No.	Kelurahan/Street(Jl.)	Jan. 96	Fel	Feb.'96	Note	Index No
			(pg)	(ha)	Depth(m)		
West Jakarta	XL-01	JI.Tol Sedyatmo		21	- A-1 -		1
West Jakarta	GS-01	JI.Daan Mogot	ę-d	260	0.1 - 0.6		24-H-11
i	GS-02	Jelambar	01		1	Rumah Sakit Jiwa Grogol	24-H-11
	GS-03	Jelambar Baru	25	63	•		24-H-13
	GS-04	Poglar	5	75			23-F-09
	GS-05	Pejagalan	059	31	•	Kamp.Gusti and Teluk Gong	14-G-07.08
	90-S5	Kedaung	10	8	0.1 - 1.4		23-E-09
	CS-07	Kelapa HUBAD	•	37	i		44-F-18
	GS-08	Batu Sari&Tnj.Duren	•	8	•		34-H-14
	GS-09	Permata Hijau	t	37			44-H-19
	GS-10	Pal Merah		21			44-H-17
South Jakarta	GS-11	Pondok Pinang	ì	S	•		64-H-25
	GS-12	Kamp. Dukuh	•	SI	•		54-H-23
	GS-13	Gandaria	•	22			54-1-24
	GS-14	Ji.Hang Lekir	•	25	•	And the second s	54-1-21
North Jakarta	PA-01	Kapuk Muara	17	•	•	Tol Sediyatmo	13-E-05
	PA-04	Muara Karang		જ	í		04-G-05
	PA-05	Jl. Pluit Barat raya		22	1		04-H-05
West Jakarta	PA-02	Rawa Buaya	T	83	0.8 - 1.5		23-C-10
	PA-03	Tegal Alur	101				12-y-05
	PA-06	Kembangan		12			33-C-13
	PA-07	Meruya Ilir/Taman Aries		31	,		33-D-16
	PA-08	Budi Mulia	* 4	33	•		-33-D-14
South Jakarta	PA-09	Sangrila Indah	,	21			53-E-22
	PA-10	Komp.Depdagri	•	47	•		63-F-27
w.*	PA-11	IKPN Bintaro	•	38	•		63-F-25
	PA-12	Ulu Jami	1	55	25-65		53-E-23

INUNDATION AREA IN DKI JAKARTA CAUSED BY JAN./FEB. 1996 FLOODS Table 8.4

Map	Index No		65-P-27	65-P-25	55-P-24	\$6-0-21	46-P-20	45-M-18	65-P-28	66-Q-25	S6-R-24	\$6-0-22	46-0-19	46-0-19	46-P-18	34-5-16	24-1-13		35-L-15	34-5-14	24-1-12	24-1-11	35-P-17	35-0-16	35-N-15	15-M-08	:	15-M-09	15-1,-08	15-K-06
	Note													Jl. Kebon Pala	Jl.Slamet Riyadi		Stasium Tanah Abang, Jatibaru,	Tanjung Sclor				The second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the second section of the section of the second section of the secti	Jl.Matraman Dalam	Jl. Salemba i, Jl. Kenari	Kali Pasir	Jembatan Merah, Mangga	Besar, Jl. Pangerang Jayakarta			
	Feb.'96	Depth(m)		•	•	į	•	11 12 11	1		•	1	•	•	•	0.1 - 0.6	.1		0.1 - 0.6	•		0.8 - 1.0		(i	•		•	•	
	Fel	(pg)	•	•	•	33		47	-	•	•			•		73	47		58	78	31	38	•		•	•		-	21	51
Arca	Jan. 96	(tra)	57	27	45	37	5	30	23	16	40	50	14	10	0.1	. S	12		•	7	37	150	T	2.5	5	20		3	2	20
Inundation Area	Kelurahan/Street(Jl.)		Pejaten Timur	Rawajan	Pengadegan	Kebon Baru	Bukit Duri	Guntur	Balekambang	Cililitan	Cawang	Bidaracina	Balimester	Kampung Melayu	Kebon Manggis	Petamburan/Jat Pinggr	Cideng		JI.MH.Thamrin	Jatipulo	Tomang	Grogol	Pegangsaan	Kenari	Cikini	Mangga Dua Selatan		Mangga Besar	Tangki	Pinangsia
	Loc. No.		CW-01	CW-02	CW-03	CW-04	CW-05	CW-06	CW-07	CW-08	C.W-09	CW-10	II-MO	CW-12	CW-13	CW-14	CW-15		CW-19	CW-16	CW-17	CW-18	CH-01	CH-02	CH-03	CH-04		CH-05	CH-08	CH-07
	District		South Jakarta						East Jakarta			,				Central Jakarta				West Jakarta			Central Jakarta					North Jakarta		
	River		Ciliwung	/Western	Banjir Canal								-											/Ciliwing Kota	/Kali Beton					Control of the Contro

INUNDATION AREA IN DKI JAKARTA CAUSED BY JAN./FEB. 1996 FLOODS (3/4) Table 8.4

deW	Index No		54-K-24	54-K-23	55-1-23	45-K-18	55-M-21	80-X-SI	14-1-07		15-M-07		80-N-SI	14-1-05			82-8-99	56-5-25	46-U-21	46-T-19	37-V-13	66-R-31		56-S-21	46-0-17	37-V-16	26-8-12	26-T-12	26-R-12
	Note							JI.Pancoran				化分子 人名英格兰 医克里斯氏性皮炎		Jl.Pluit Raya,	JI.Pluit Selatan Raya		Kampung Mahasar	Cipinang Halim	Jl.Jend D.I Panjaitan, Jl.Penas										
1	Feb. 96	Depth(m)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 - 1.0	0.2 - 4.7	1.0 - 2.0		•	0.1 - 1.1		1 1			0.1 - 0.8			•	2.2		8.0		1		0.8 - 1.1		0.9-2.9	0.1 - 2.2	•	0.2
	Feb	(pq)	31	ಸ	14	502	26		93				ĸ	33		÷	8	61		21	•	47	ょ	31	82	34	136	42	29
1 Area	Jan. '96	(tq)	•	•	L		t	15			۲		•	8			5.5	5.5	5	10	5.0					,			
Inundation Area	Kelurahan/Street(Jl.)		Petogogan	Tarakanita	Kompl.POLRI Pd.Karya	Bendungan Hilir	Kompl.P.ABRI Gt.Subroto	Glodok	Kel Jembatan Lima	Komplek AIP,	Mangga Dua Selatan,	Mangga Dua	JI.Rj. Wali Scl. & Jl. Industri	Penjaringan		٧	Makasar	Kebon Pala	Cipinang Besar Selatan	Cipinang Muara	Ji.Perintis Kemerdekaan	Cipmang Rambutan	Halim	Kebon Nams	Rawamangun	Pulogadung	Pulomas	Perintis Kemerdekaan	Sumur Batu
	Loc. No.		KR-01	KR-02	KR-03	X A	10-CD	CK-01	CK-02	CG-01			CG-02	IO-dd			CS-01	CS-02	S-33	CS-04	CS-05	8-83	S-10	S-11	CS-12	CS-13	CS-14	CS-15	CS-16
	Distract		South Jakarta				South Jakarta	West Jakarta		North Jakarta				North Jakarta			East Jakarta											:	
	River		Krukut				Cideng	Cideng	/ Krukut Hilir	Ciliwung	Gunung	Sahari		Polder Piuit			Cipinang	/Sunter					:					-	

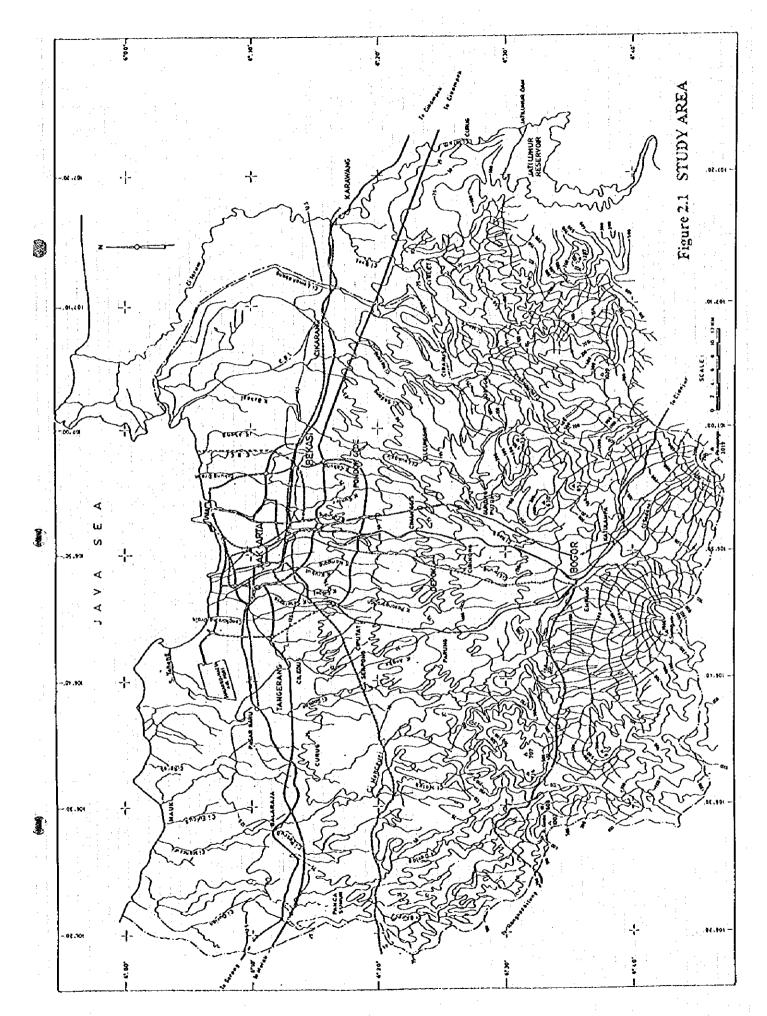
INUNDATION AREA IN DKI JAKARTA CAUSED BY JAN./FEB. 1996 FLOODS (4/4) Table 8.4

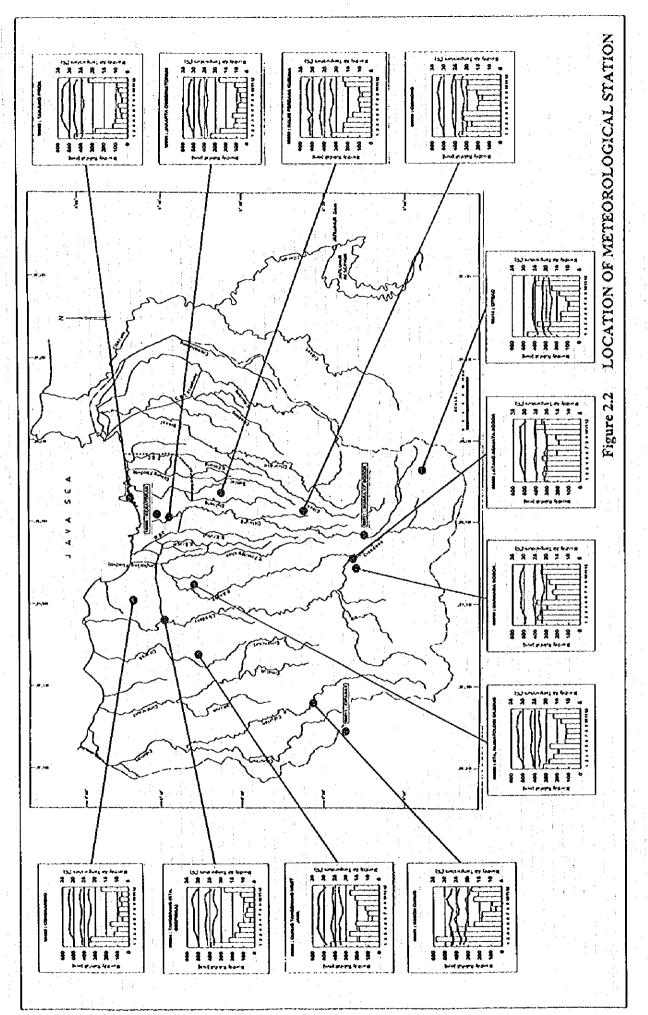
:	:		Inundation Area	1 Arca				Map
River	District	Loc. No.	Kelurahan/Street(Jl.)	Jan. 96	Fel	Feb. 96	Note	Index No
				(pg)	(eq)	Depth(m)		1.
Cipinang	North Jakarta	90-SD	Ji.Yos Sudarso	9.0	- 17 - 17		Kel.Sungai Bambu	16-T-07
/Sunter		CS-07	Rarwa Badak	88	382	0.5-1.4		07-U-04
		CS-08	Kelapa Gading Timur	008 8	9/	0.3 - 1.6		27-V-11
		CS-17	Jl. Yos Sudarso		38	0.1-0.6	Kel.Kelapa Gading Barat	26-T-10
Polder	North Jakarta	SB-01	Warakas	10	88	6.1 - 1.3		50-8-90
Sunter Barat		SB-02	Papanggo	7	36	•		16-5-06
		SB-03	Sungai Bambu	7	•	•		16-T-07
		SB-04	Keboa Bawang	7.5	35	•		16-T-05
		SB-05	JI.R.E Martadinata	1	•	•		15-M-06
		SB-06	Sunter A.B.C	9	1			
. :		SB-07	Sunter Agung Pomoro	1	256	0.1-1.4		16-8-08
		SB-08	Koja		65	•		06-V-02
Suntiong	North Jakarta	SP-01	Pademangan	10	257	8.0 - 1.0		15-N-07
/Pademangan		SP-02	Gunung Sahari	2	•			15-N-09
K.Cakung	Kab. Bekasi	CA-01	Jatimekar	7	•			77-2-31
		CA-02	Jatiasih	5	•	•		68-C-29

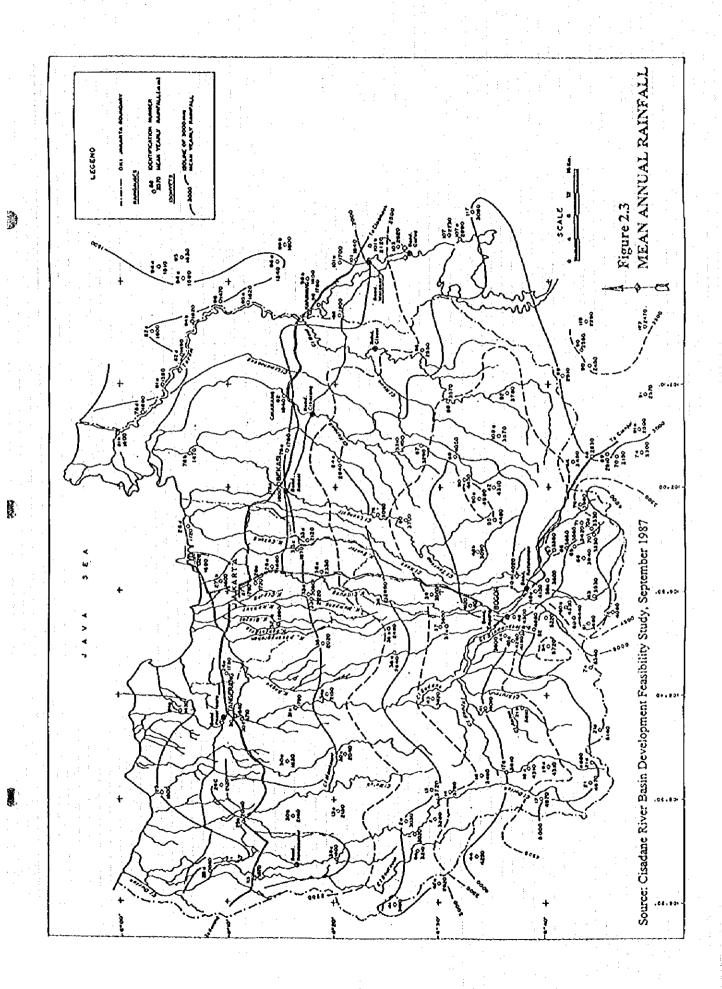
Source: Ciliwung-Cisadane River Basin Development Project Office, DPU

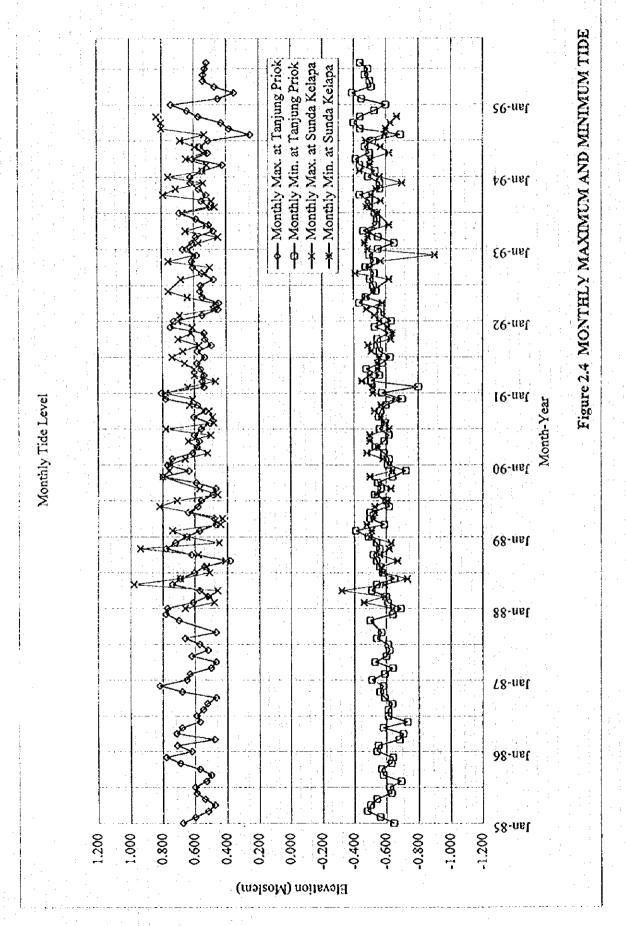
Remarks: Map Index No. shows the grid indices in the Jakarta Street Atias & Names Index

by Gunther W. Holtorf, distributed by P.T.Djambatan

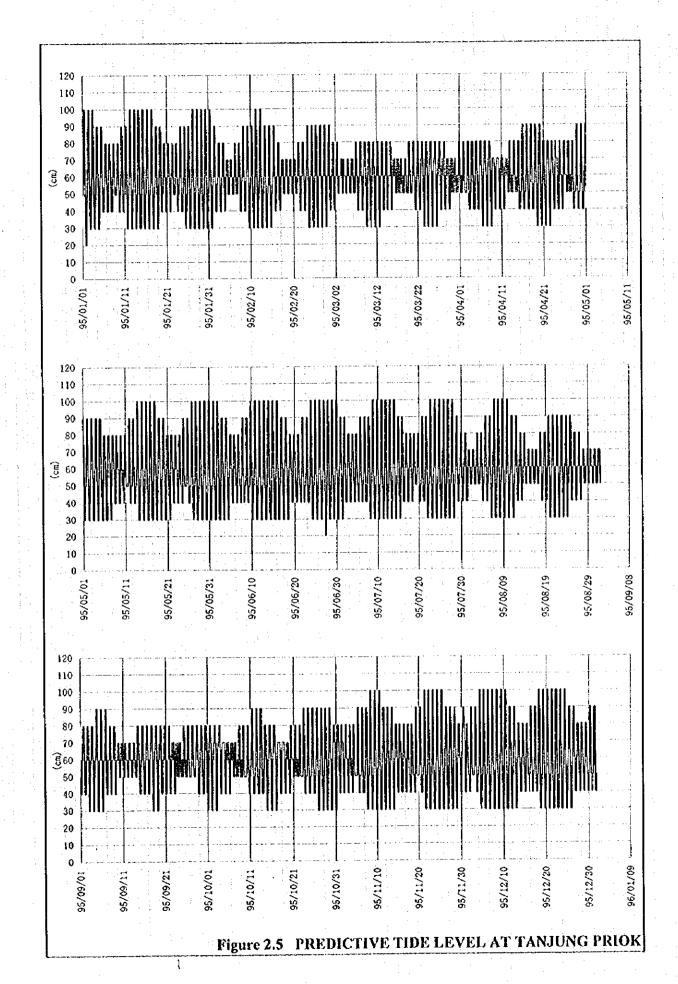


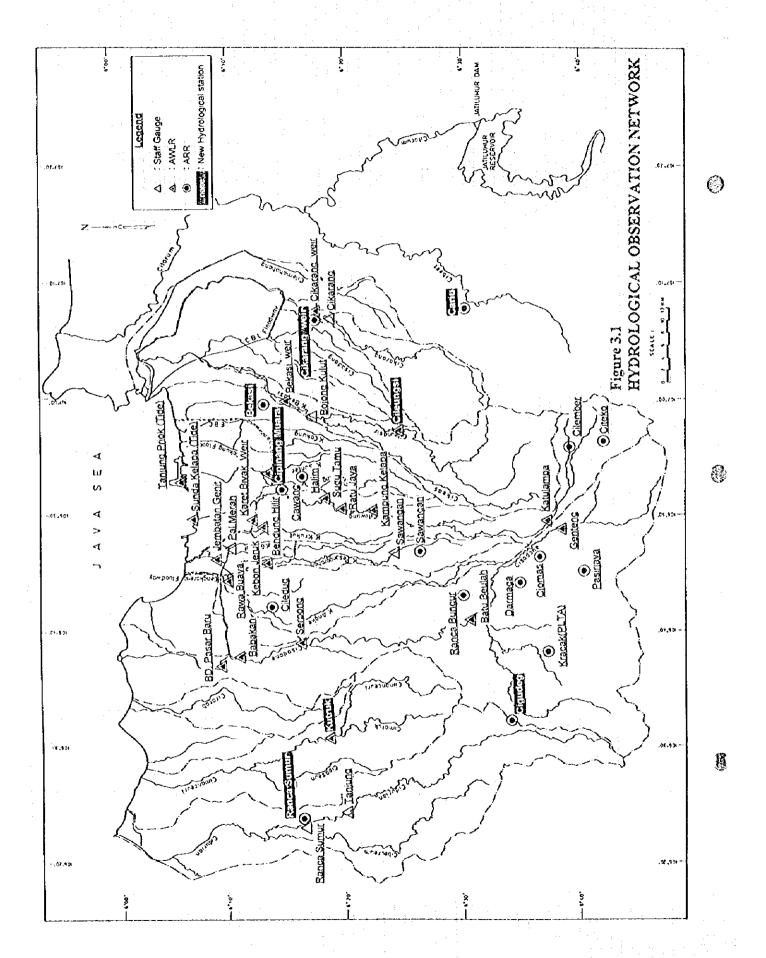






F.4





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Figure 3.2 AVAILABLE DAILY RAINFALL RECORD (4/5)

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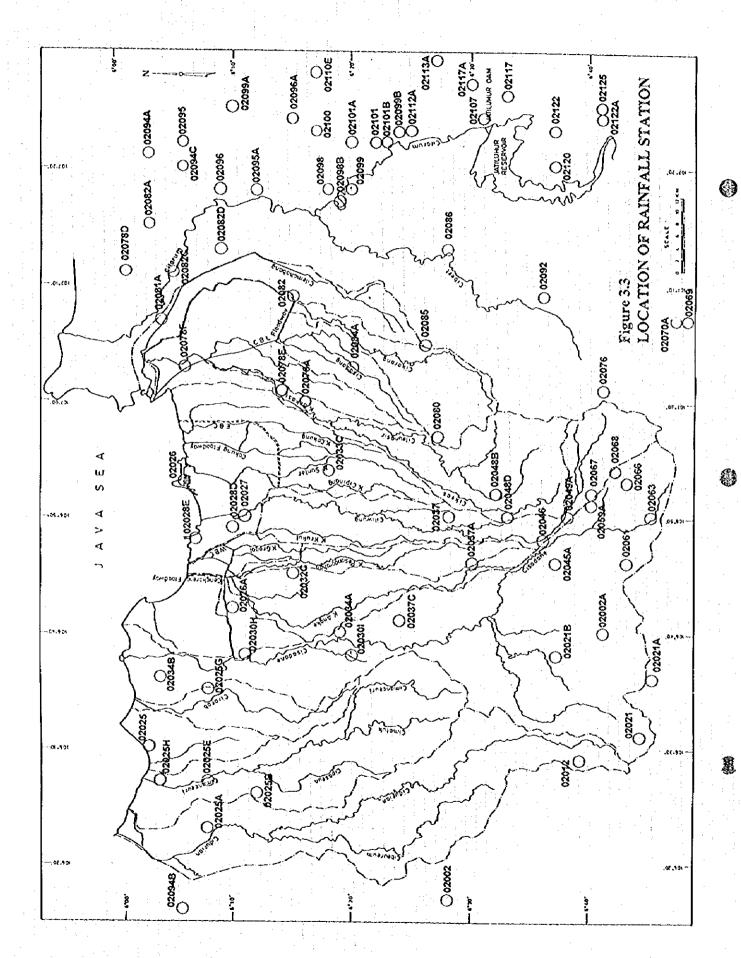
Data Source: BMG Computer Center in Jakarta, as of November 1995

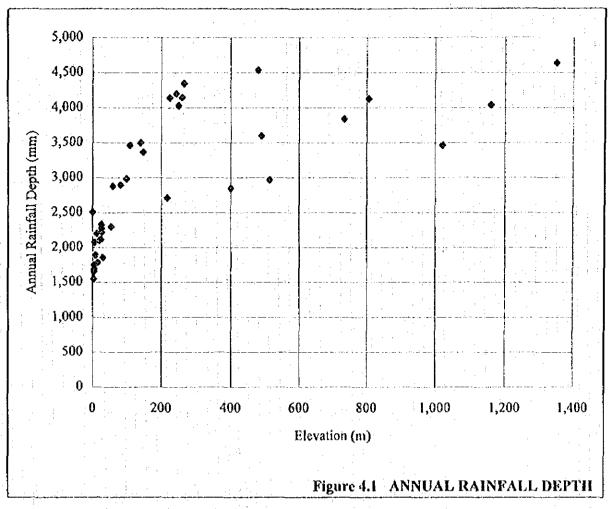
Note) *1 : The longest continuous data series in year *2 : Total of years that has 12 months data

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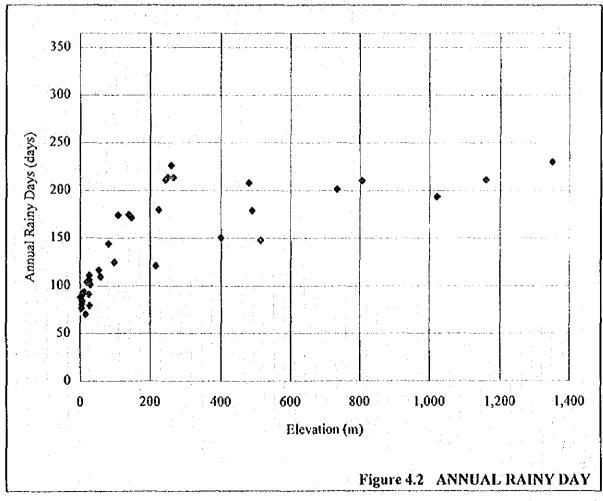
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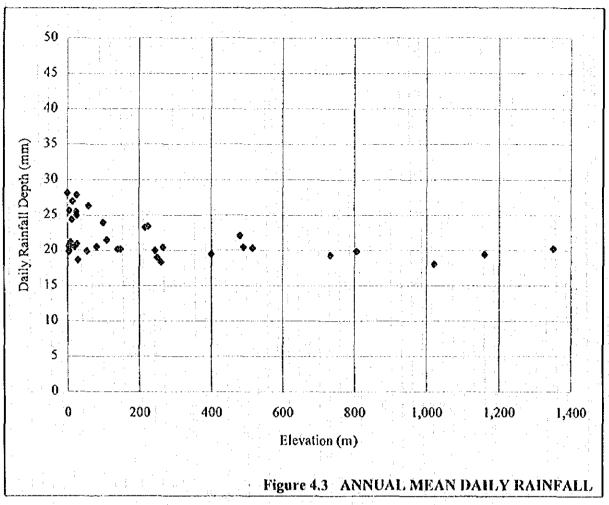
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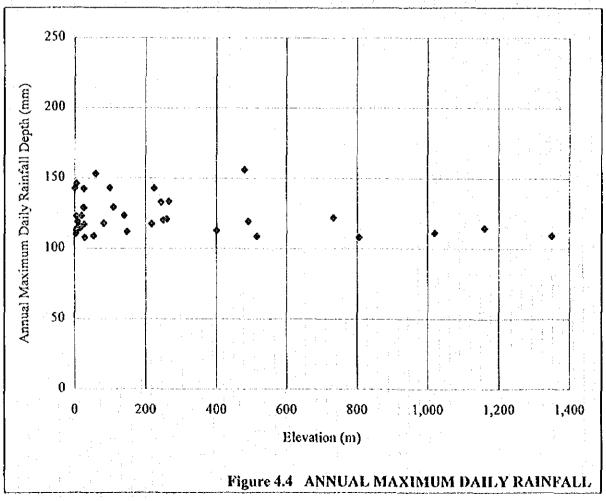




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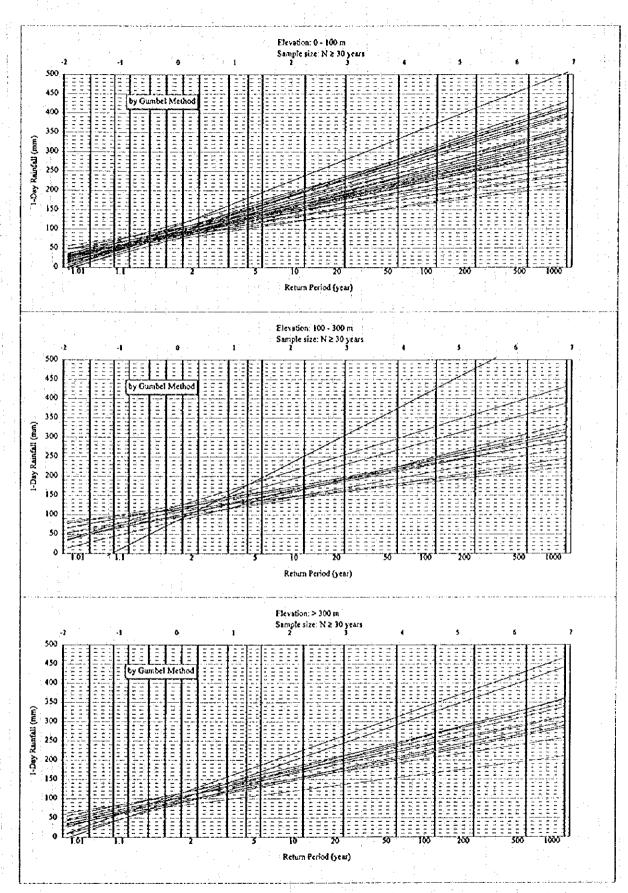


Figure 4.5 REVIEWED FREQUENCY ANALYSIS

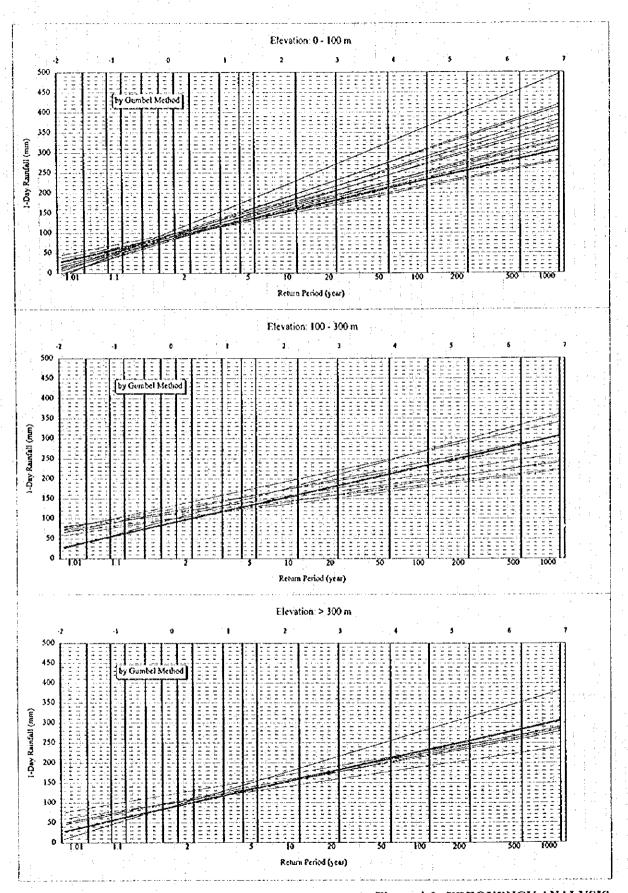
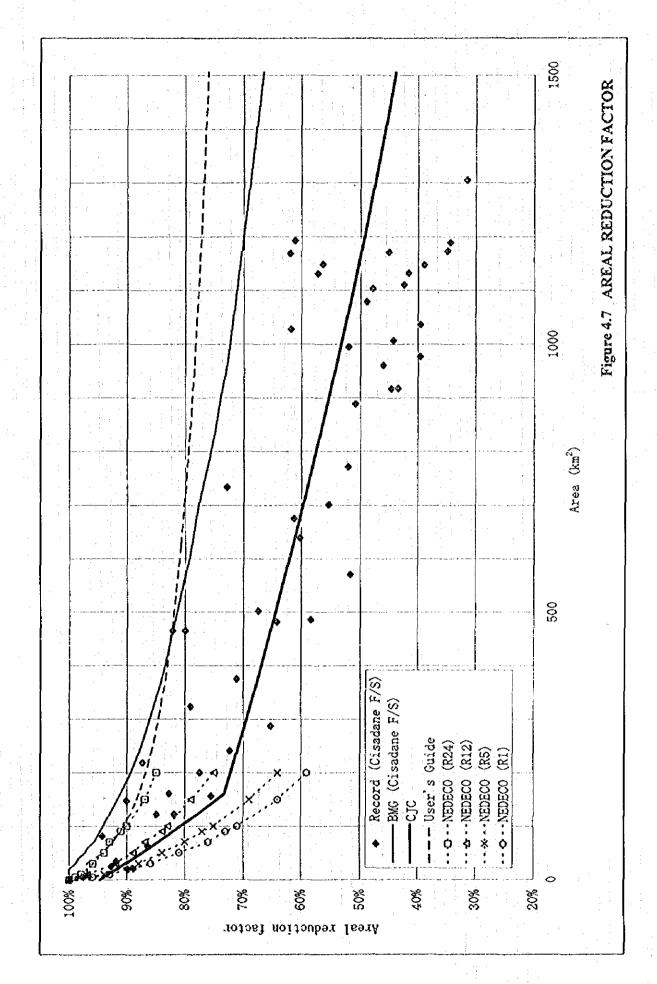
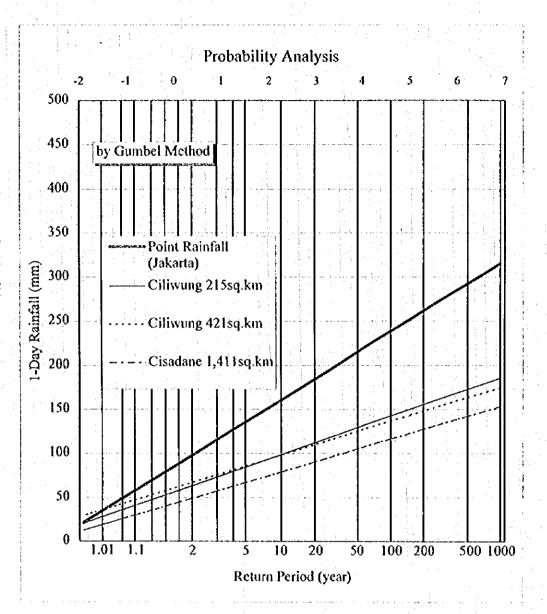


Figure 4.6 FREQUENCY ANALYSIS

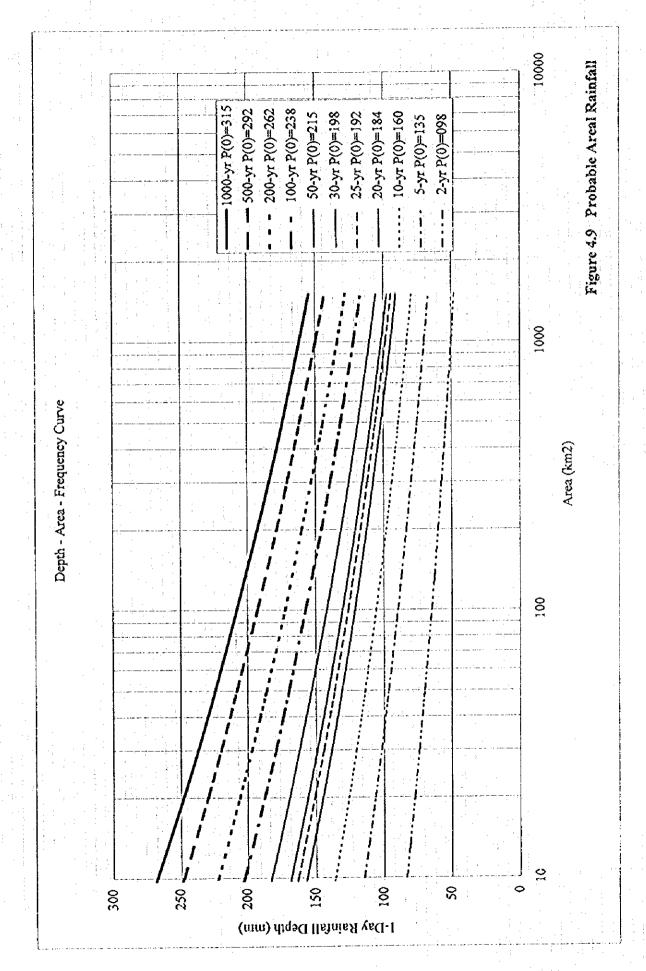


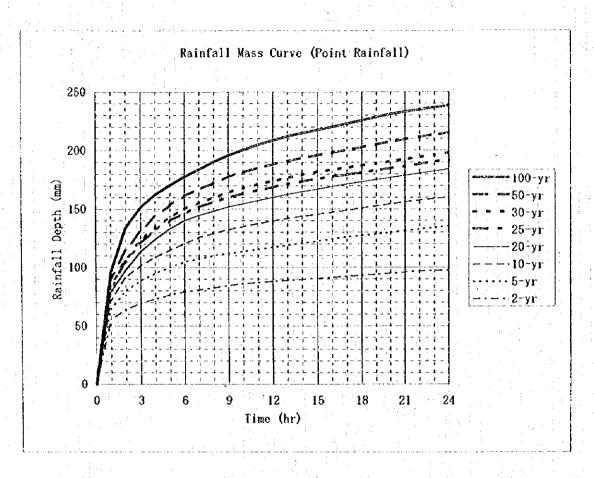
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Return	Jakarta	Ciliwung	Ciliwung	Cisadane		
Period	Point Rainfall	A=215 km²	Λ≃421 km²	A=1,411 km ²		
(year)	(mm)	(mm)	(mm)	(mm)		
1000	315.2	185.6	174.7	153.1		
500	292.1	172.7	163.3	142.0		
250	269.1	159.7	151.9	131.0		
200	261.6	155.5	148,2	127.5		
100	238.5	142.5	136.8	116.4		
50	215.3	129.4	125.3	105.3		
30	198.1	119.8	116.7	97.1		
25	191.9	116.3	113.7	94.1		
20	184.3	112.0	109.9	90.5		
10	160.3	98.6	98.1	79.0		
5	135.4	84.5	85.7	67.1		
2	97.7	63.3	67.1	49.1		

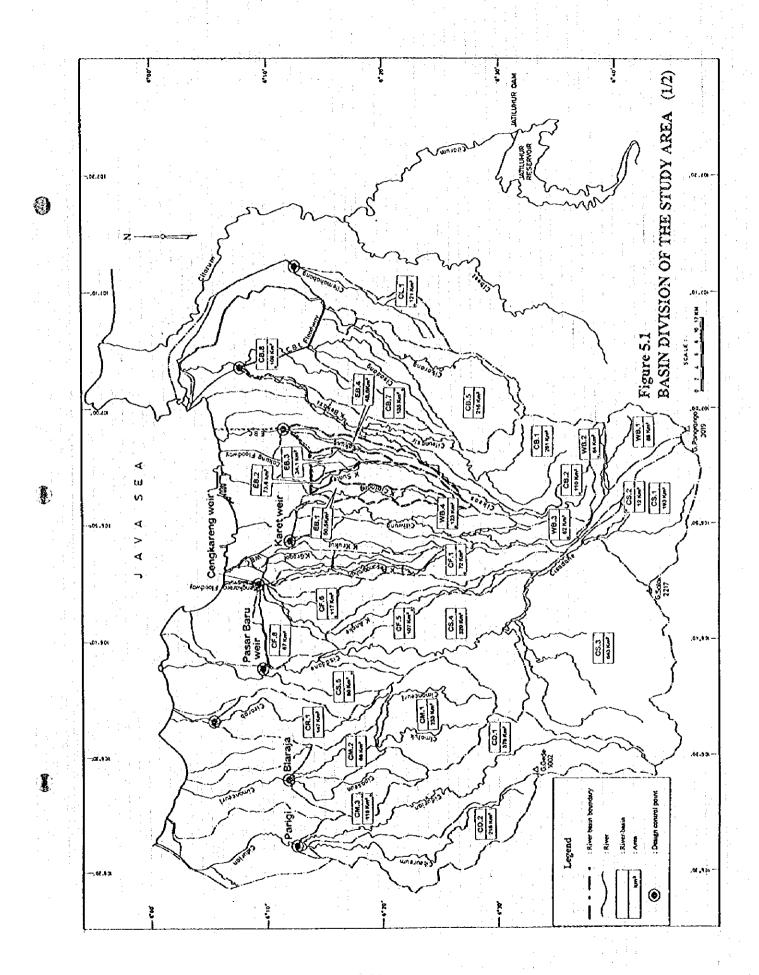
Figure 4.8 PROBABLE DAILY RAINFALL

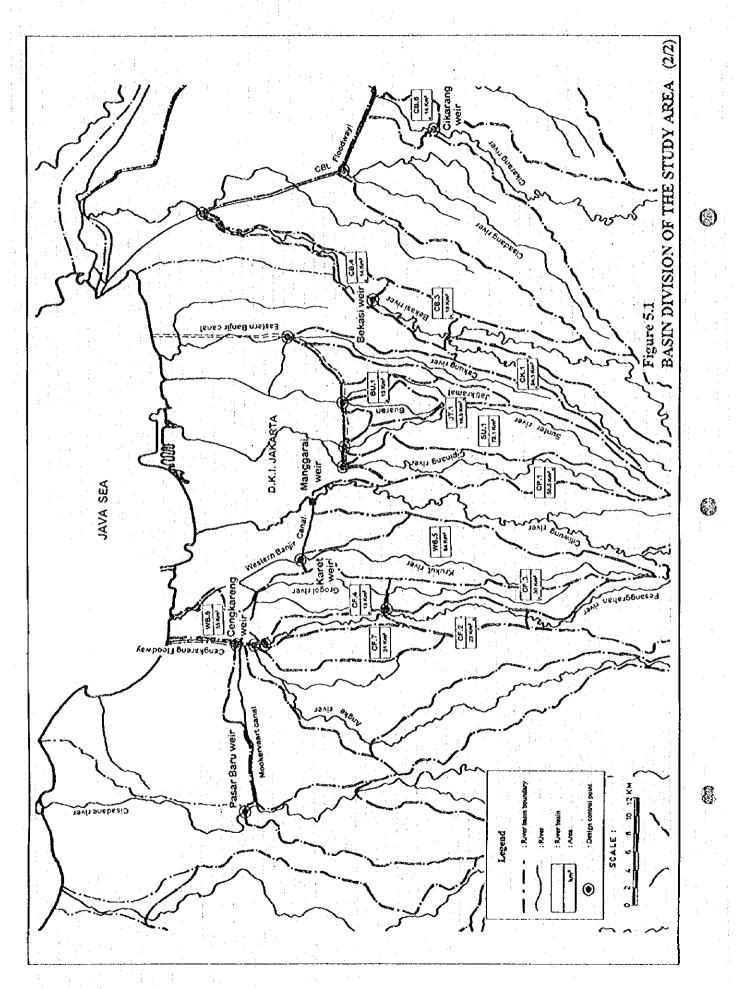


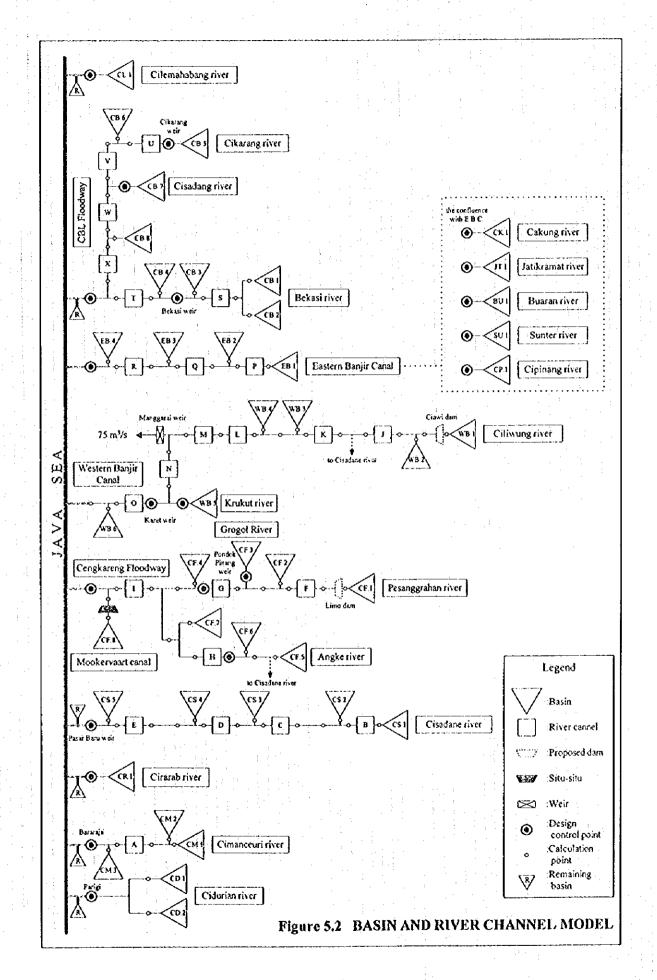


	2-yr	5-yı	10-yr	20-yr	25-yr	30-yr	50-yr	100-yr
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	55. 4	64.8	72. 2	79.1	82. 7	84. 9	90.8	96. 1
2	64.2	79.9	91.8	98.0	105.1	107.0	114.4	134. 2
3	69. 5	88.8	101.5	113.3	120.4	122. 9	130.8	151. 4
4	73.0	95. 0	108.7	124. 1	132.1	134. 4	143.5	162. 3
5	76.6	100.3	114.9	133.0	140. 2	143. 2	153. 5	170. 5
6	79. 2	104.8	120.3	140. 2	146. 5	150. 3	161.7	177.7
7	81.0	107. 4	125. 6	144.7	151.9	155. 6	167. 1	184. 1
8	82. 7	110.1	129. 2	148.3	156.4	160.0	172.6	190. 4
9	84.5	111.9	132. 3	151.9	160.0	164. 5	178.0	195. 9
10		113.6	135.0	154.6	163.6	168.0	181.7	200. 4
11	87. 1	115.4	137. 6	157. 3	166.3	171.5	185. 3	204. 9
12	88.0	117. 2	139. 9	160.0	169. 0	174. 2	188. 5	208.6
13	88. 9	119.0		162. 7	171.7	176.8	191. 2	212. 2
14	89.8	120.7	143.9	165.0		179. 5	193.9	214.9
15	90.6		145.6	167. 2		182. 1	196. 2	217. 6
16	91.5		147, 4	169. 4			198. 5	220, 4
17	92.4	126. 1	149. 2	171.7			200.7	
18			151.0	173.5			203.0	
19		128.7	152.8	175. 3	183. 3		205. 3	·
20	95. 0	130.1	154.6		185. 1	191.0	207. 5	231.2
21	95. 9	131, 4	156.3			192.7	209, 8	233.0
22		132.7	157.7	180. 7	188.7	194.5		234. 9
23		134.1	159.0	182.5	190.5	196. 3	213.5	236.7
24	97. 7	135.4	160.3	184.3	191.9	198. 1	215.3	238. 5

Figure 4.10 POINT RAINFALL MASS CURVE







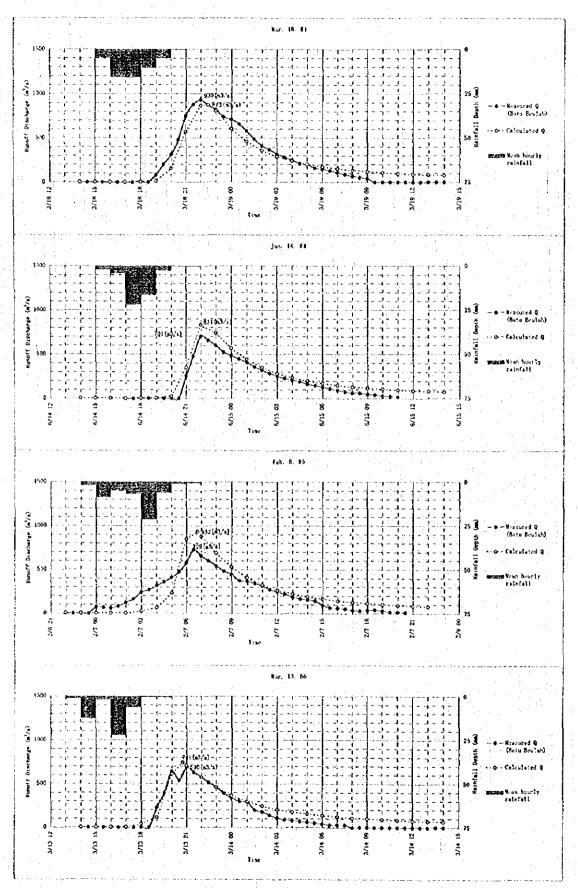
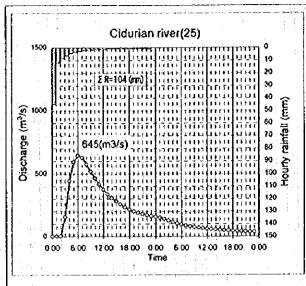
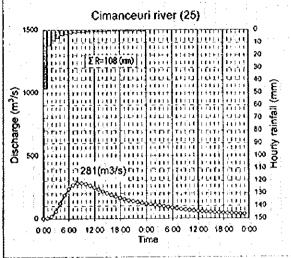
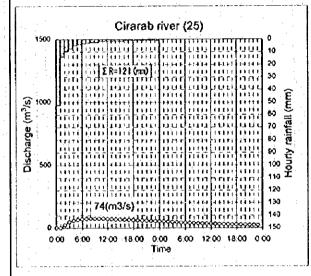


Figure 5.3 OBSERVED AND SIMULATED HYDROGRAPH







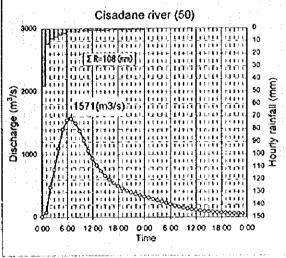


Figure 5.4 PROBABLE FLOOD RUNOFF (1/5)

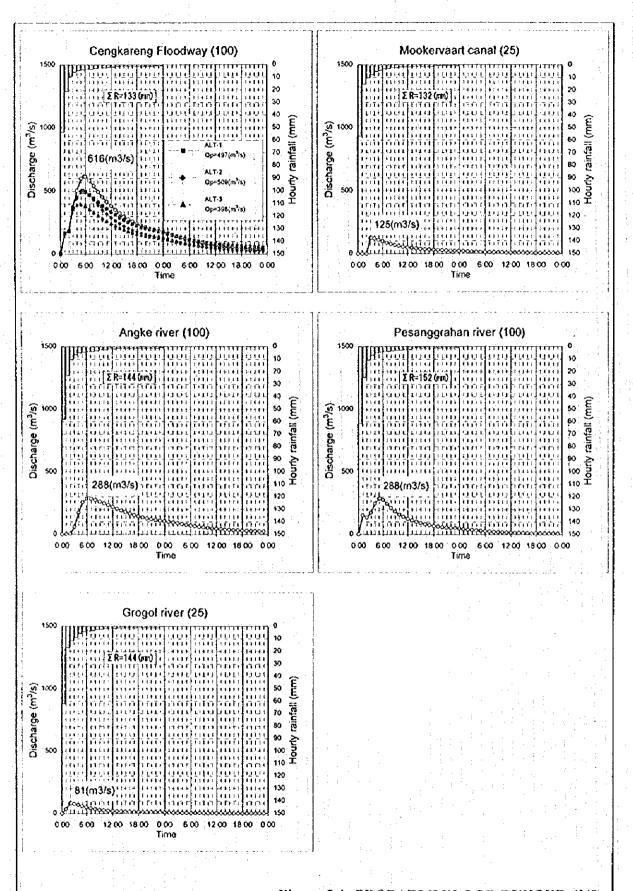
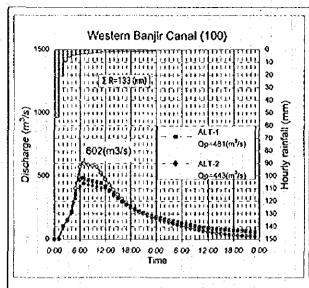
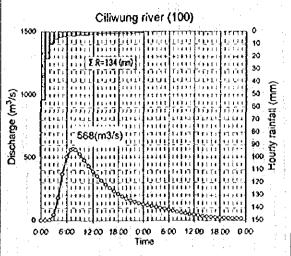


Figure 5.4 PROBABLE FLOOD RUNOFF (2/5)



(3)



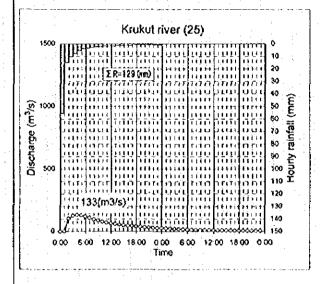


Figure 5.4 PROBABLE FLOOD RUNOFF (3/5)

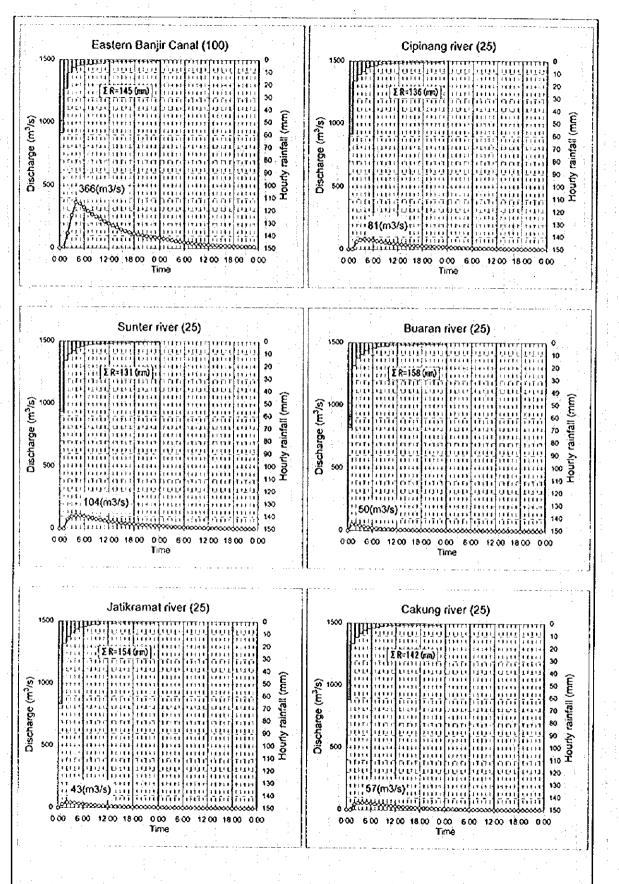


Figure 5.4 PROBABLE FLOOD RUNOFF (4/5)

(

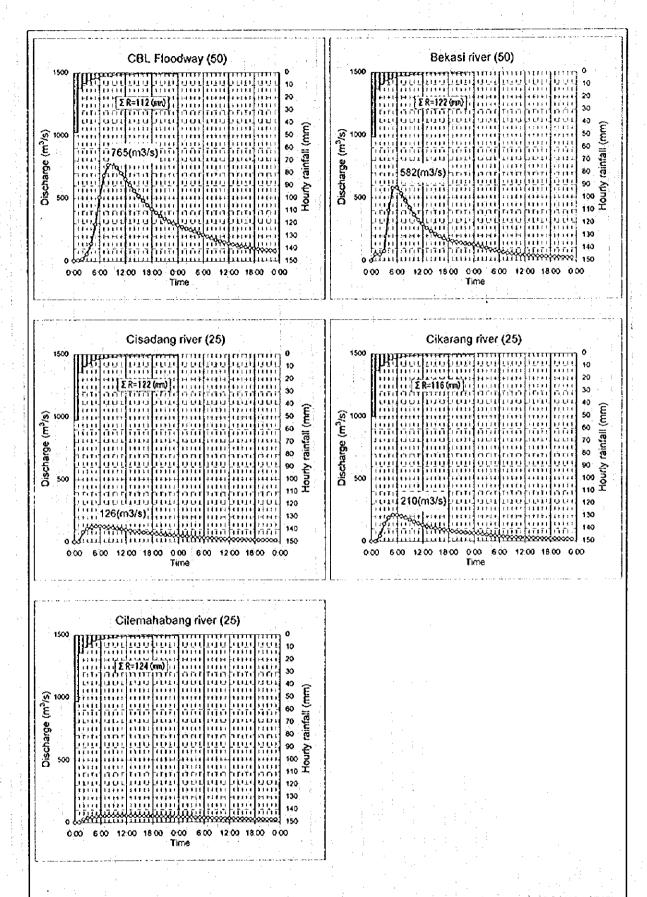


Figure 5.4 PROBABLE FLOOD RUNOFF (5/5)

Probable Flood Peak

gagi kan apen malamet pandin di garayan, eni api garakan menjakan bigan yang arbanyir bibat pagkaba	and the state of t	Design	Design	Catchment	Peak	Specific
River system	Design control point	scale	1-day rainfall	area	discharg	dischareg
	;	(year)	(mm)	(km²)	(m³/s)	(m³/s/km²)
Cidurian river	parigi	-25	104	596	650	1.09
Cimanceuri river	Balaraja	25	108	415	290	0.70
Cirarab river	(Road bridge)	25	121	147	75	0.51
Cisadane river	Pasar Baru Weir	50	108	1,248	1,600	1.28
Cengkareng Floodway system	Cengkareng Weir	100	133	459	620	1.35
Mookervaart Canal	the conflence with Cengkareng Floodway	25	132	67	125	1.87
Angke river	the conflence with Cengkareng Floodway	100	144	224	290	1.29
Pesanggrahan river	the conflence with Cengkareng Floodway	100	152	137	290	2.12
Grogol river	Pondok Pinang Weir	25	144	30	85	2.83
Western Banjir Canal system	Karet Weir	100	134	421	670	1.59
Ciliwung river	Manggrai Weir	100	134	337	570	1.69
Krukut river	Before the conflence with W.B.C.	25	129	84	135	1.61
Eastern Banjir Canal System	After the conflence with Cikarang river	100	145	207	370	1.79
Cipinang river	Before the conflence with E.B.C.	25	136	50.5	85	1.68
Sunter river	Before the conflence with E.B.C.	25	131	73.1	105	1.44
Buaran river	Before the conflence with E.B.C.	25	158	13.0	50	3.85
Jatikramat river	Before the conflence with E.B.C.	25	154	16.5	45	2.73
Ckakung river	Before the conflence with E.B.C.	25	142	34.5	60	1.74
CBL Floodway system	After the conflence with Bekasi river	50	112	877	780	0.89
Bekasi river	Bekasi Weir	50	122	389	590	1.52
Cisadang river	Before the conflence with CBL Floodway	25	122	135	130	0.96
Cikarang river	Cikarang Weir	25	116	216	210	0.97
Cilemahabang river	(Road bridge)	25	124	[21]	55	0.45

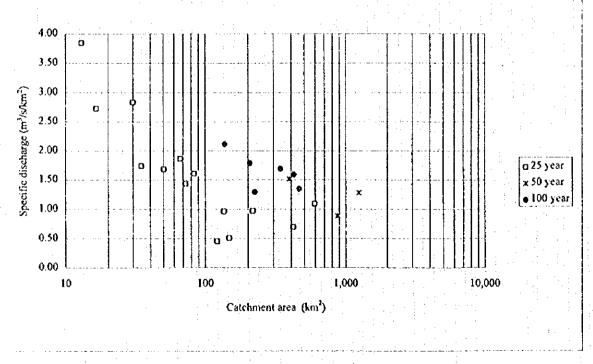
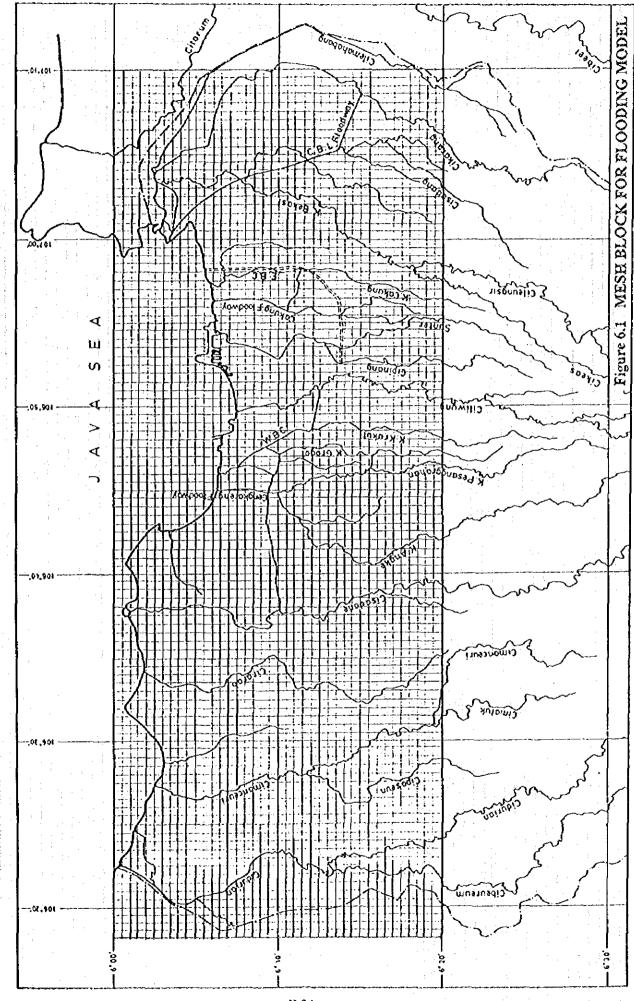
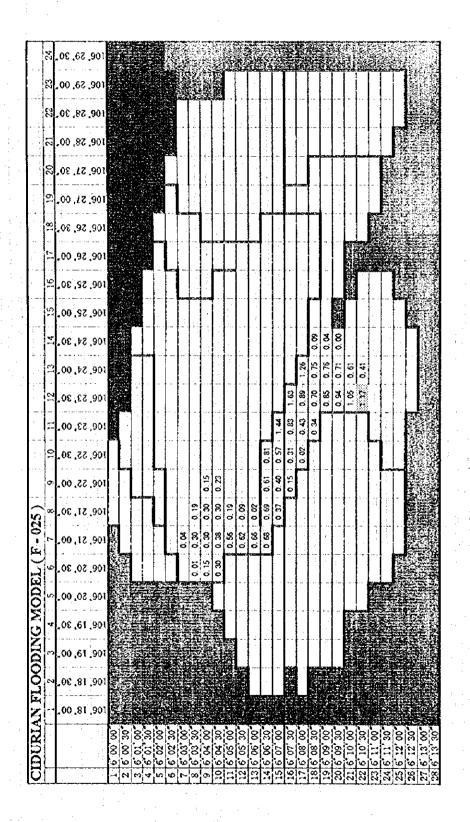


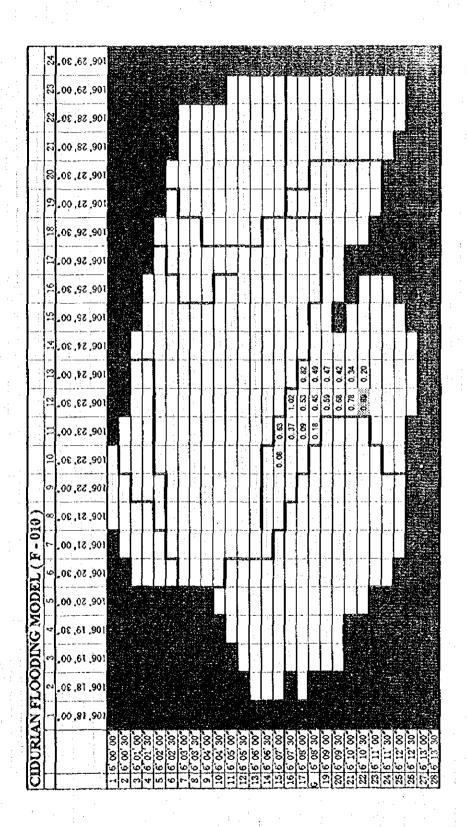
Figure 5.5 PROBABLE FLOOD PEAK



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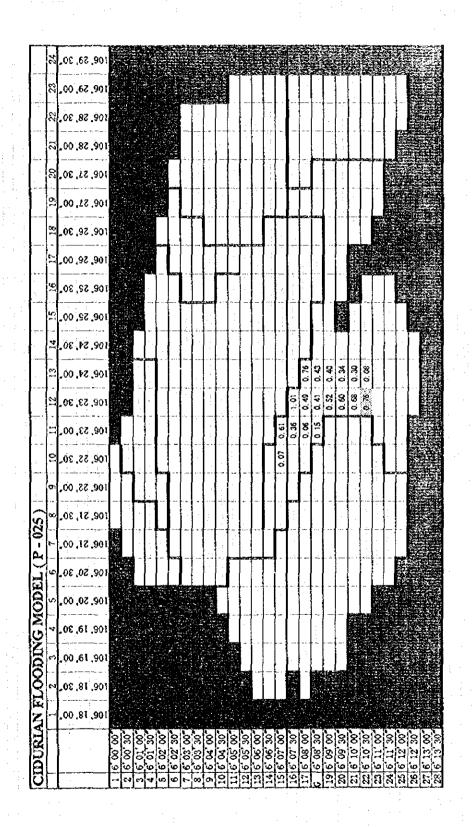
F.32

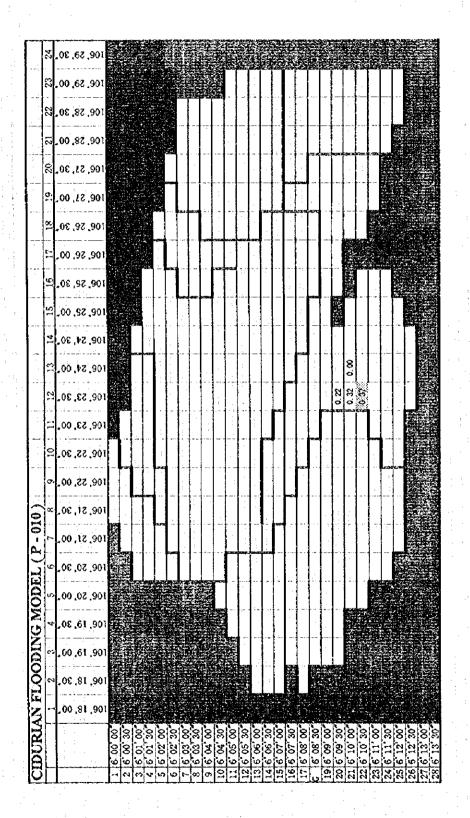


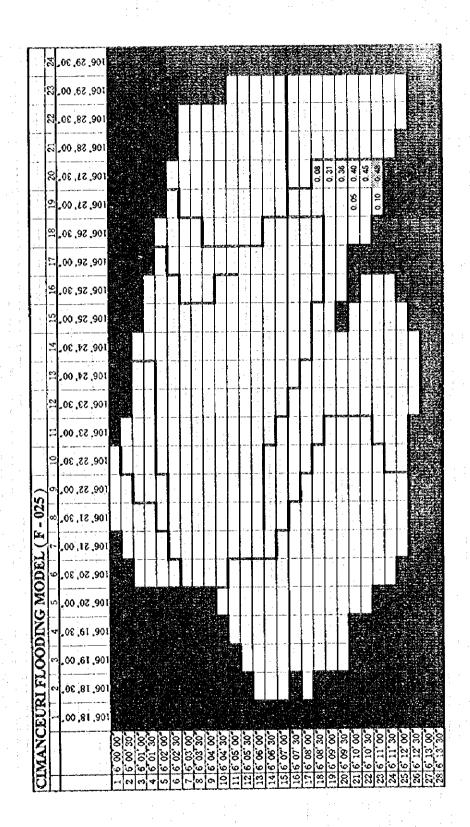
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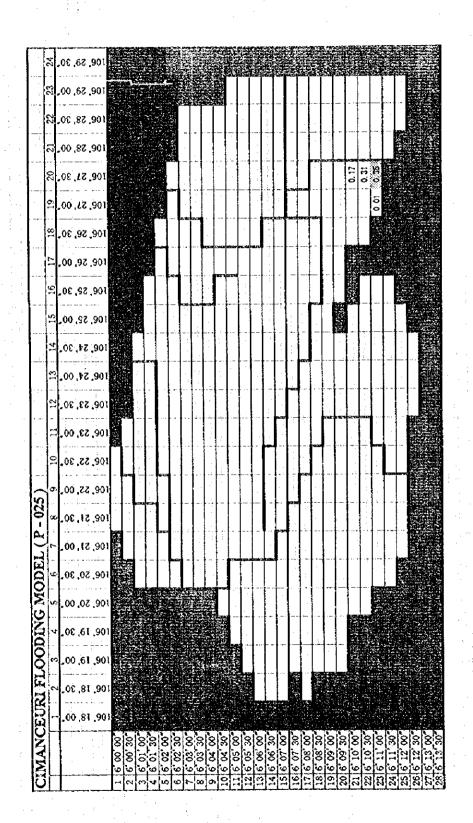
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