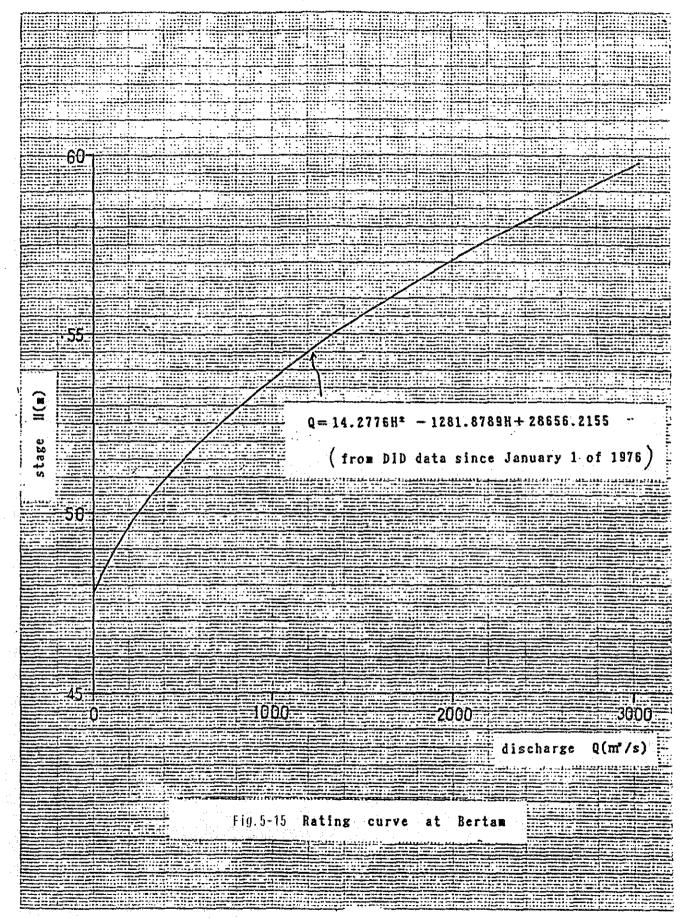
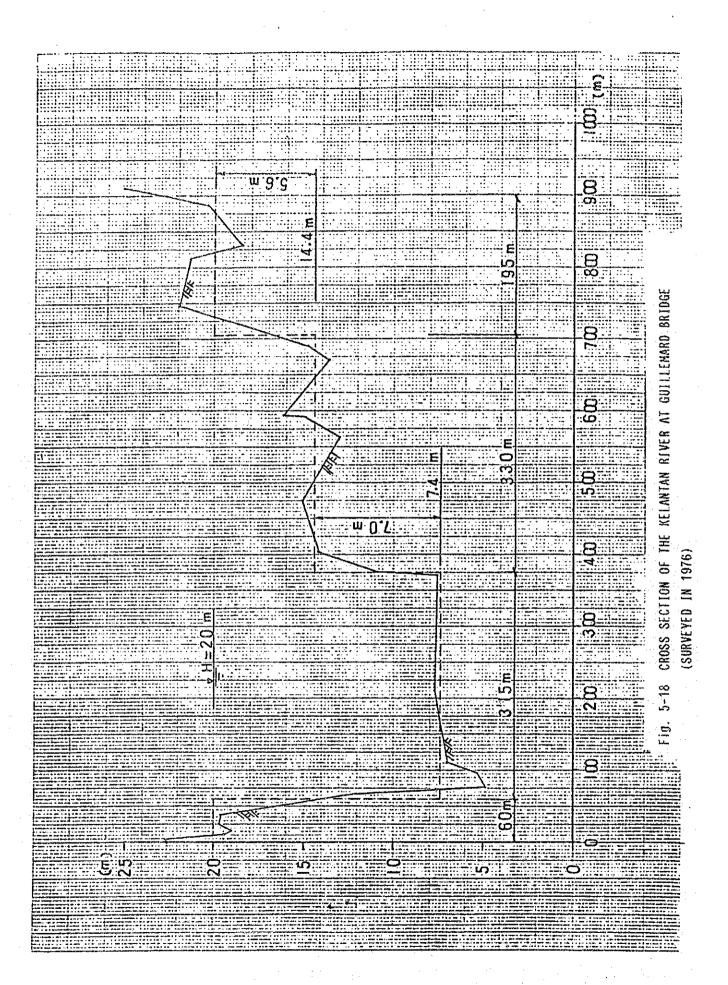
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Fig. 5-20 LOCATION OF CROSS SECTIONS ALONG THE KELANTAN RIVER WHERE DATA COLLECTED

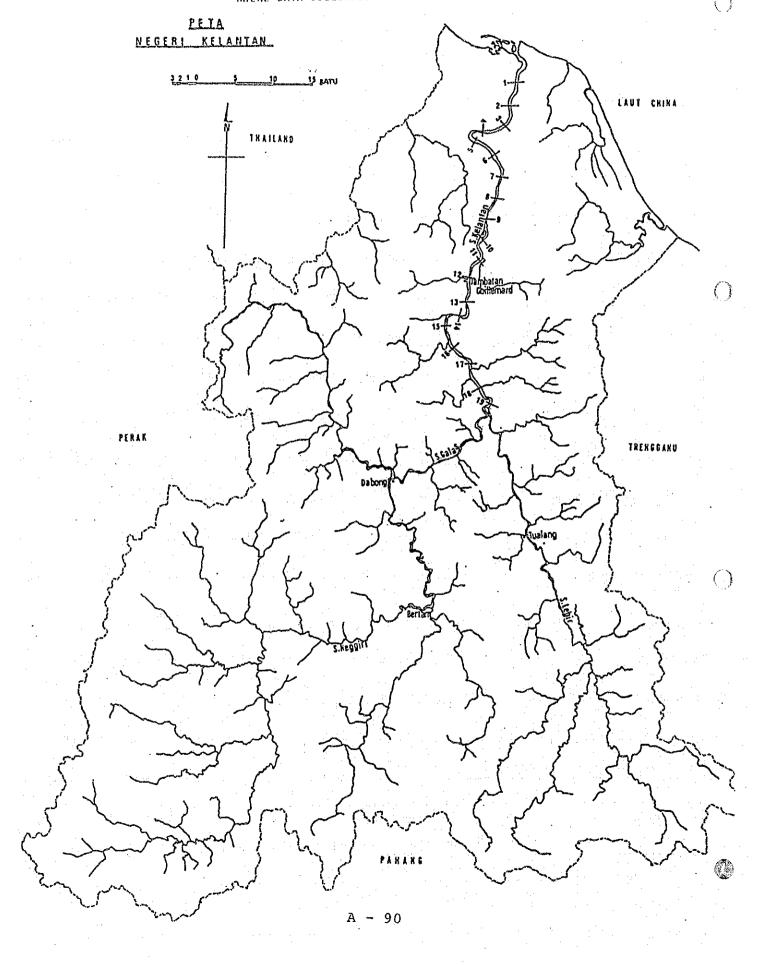
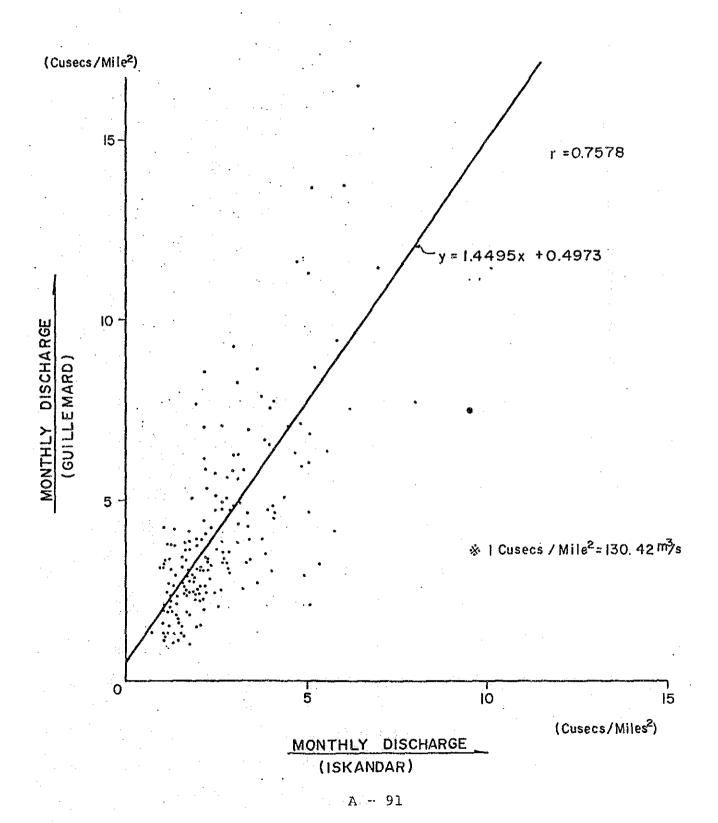


Fig. 5-21 RELATIONSHIP BETWEEN GUILLEMARD AND ISKANDAR OF MONTHLY DISCHARGE (JAN ~ DEC)



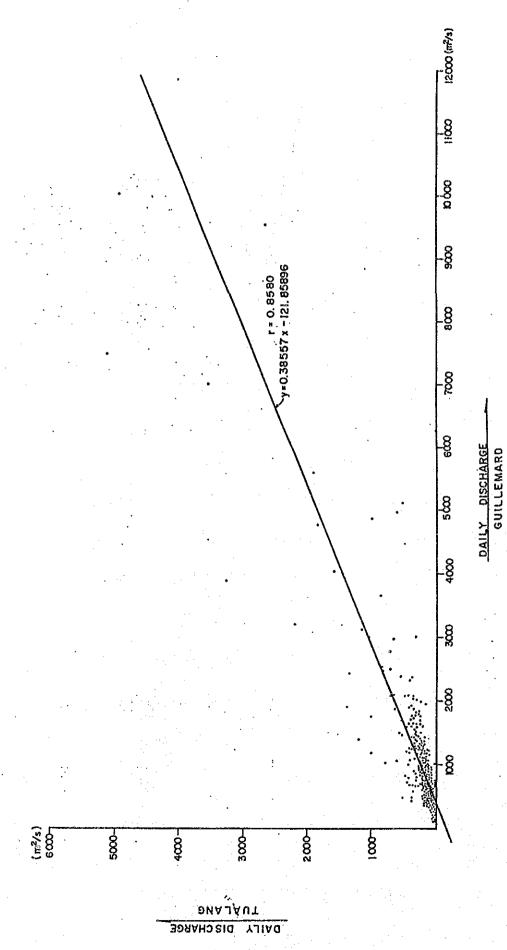
2500 Fig. 5-22 RELATIONSHIP BETWEEN TUALANG AND GUILLEMARD OF DAILY DISCHARGE r = 0.8231 y = 0,24858 x - 34,69053 2000 DAILY DISCHARGE GUILLEMARD 200 (JAN ~ MAR) (m²/s) 20002 1500 80 900 DISCHARGE TO AL ANG DAILY

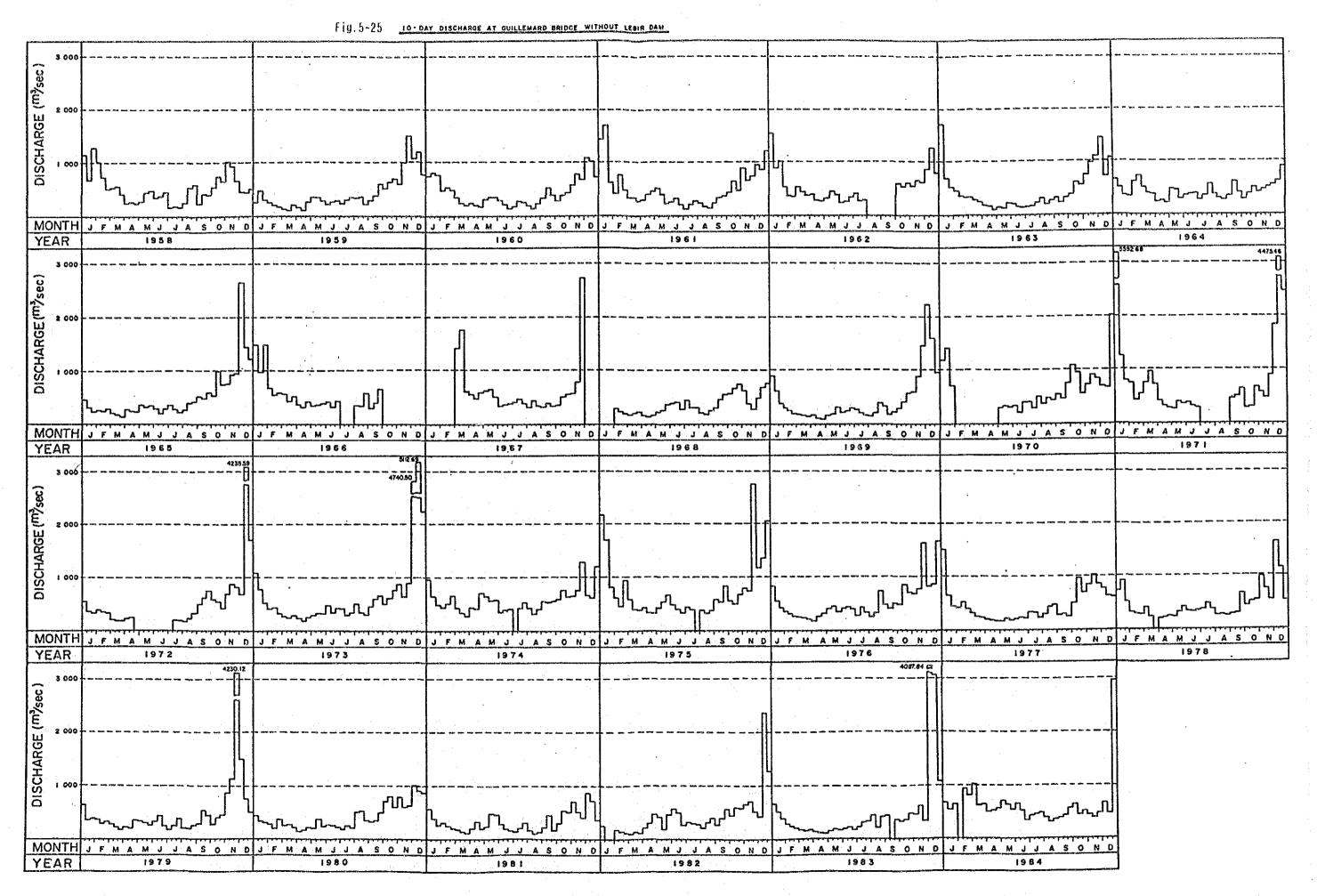
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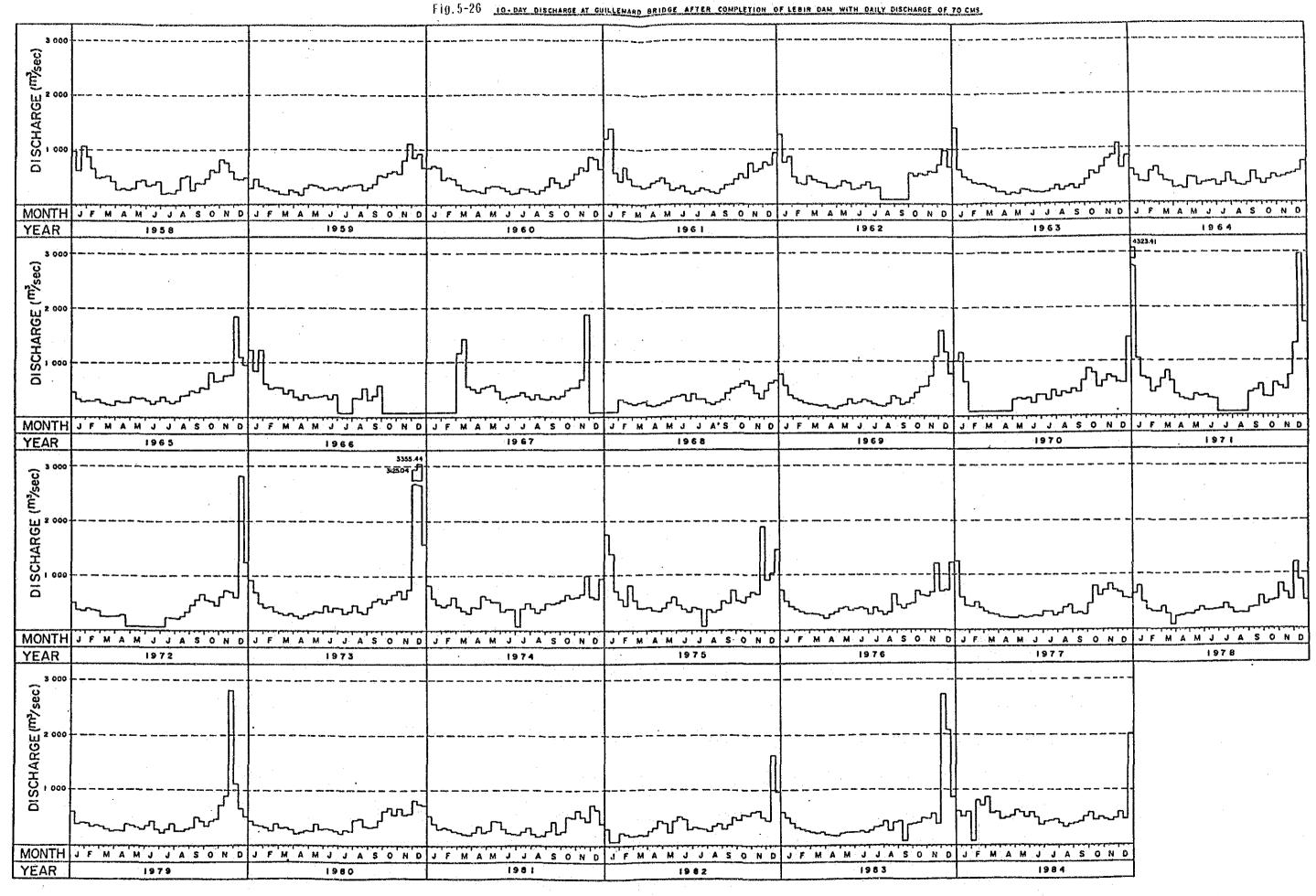
DAILY DISCHARGE GUILLEM ARD

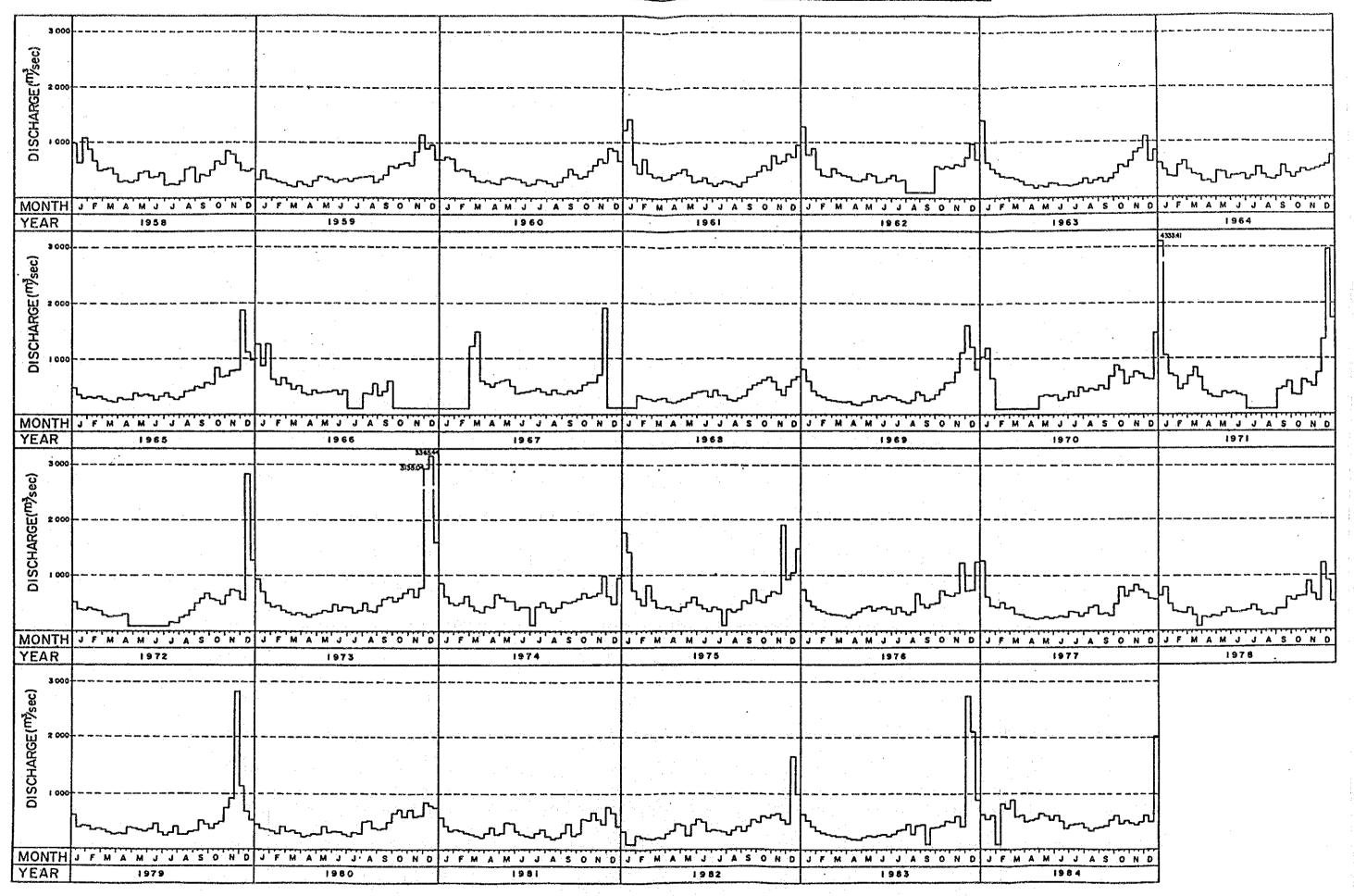
Fig. 5-23 RELATIONSHIP BETWEEN TUALANG AND GUILLEMARD OF DAILY DISCHARGE (APR ~ SEP)

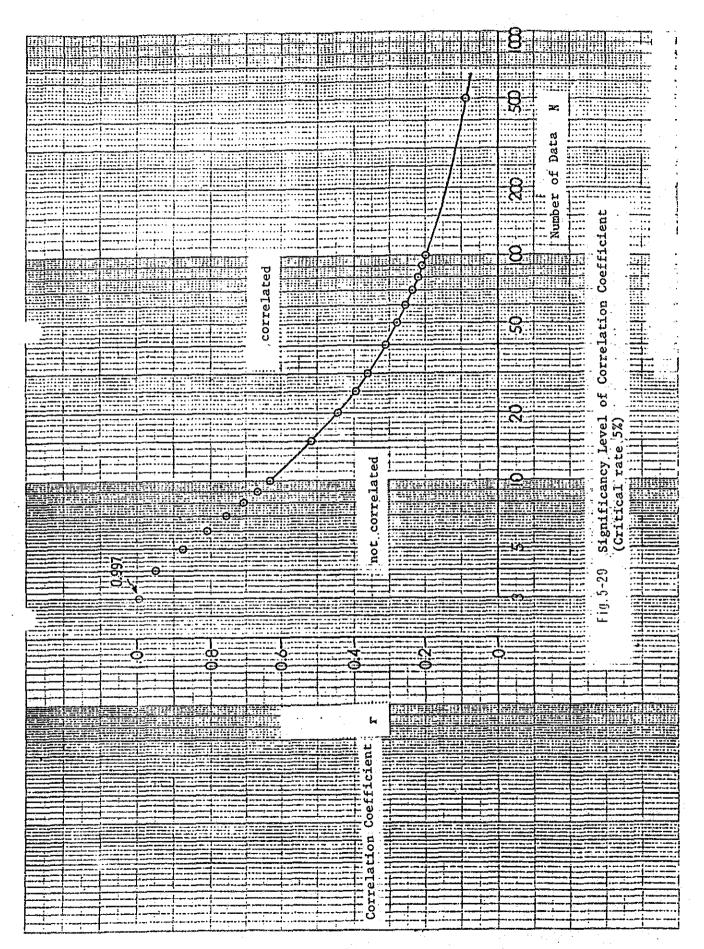
Fig. 5-24 RELATIONSHIP BETWEEN TUALANG AND GUILLEMARD OF DAILY DISCHARGE (OCT \sim DEC)











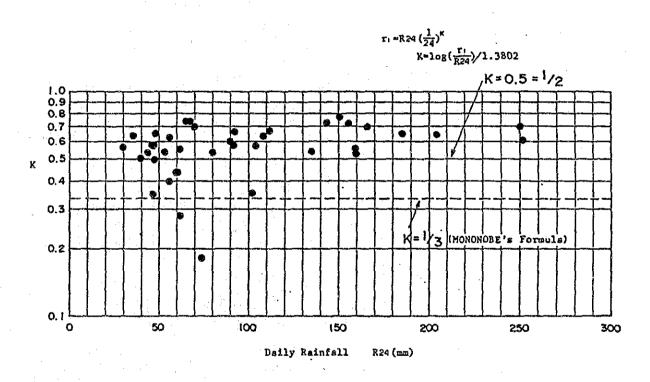


Fig. 5-30 RELATIONSHIP BETWEEN DAILY RAINFALL AND PEAK HOURLY RAINFALL

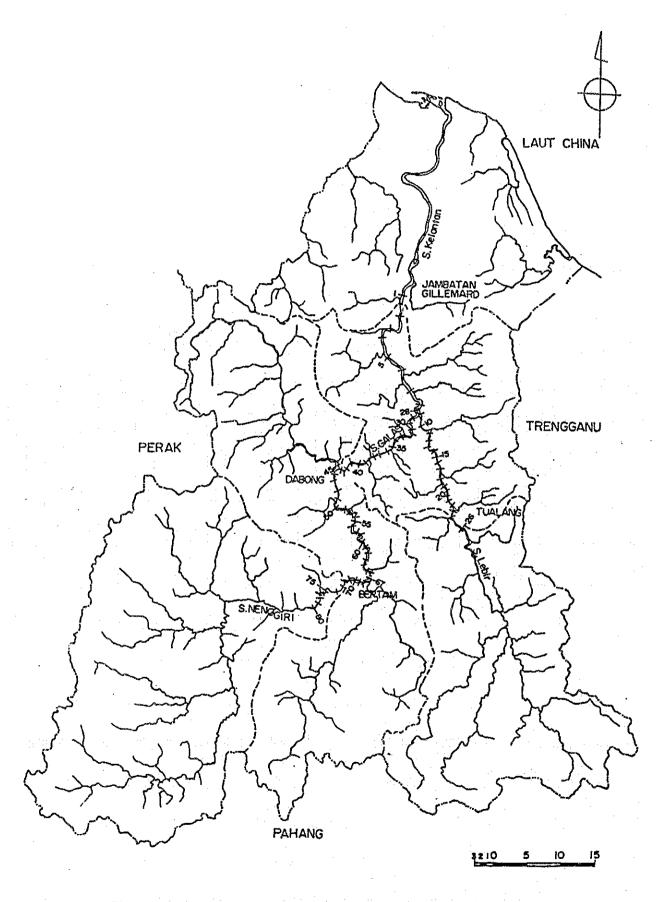
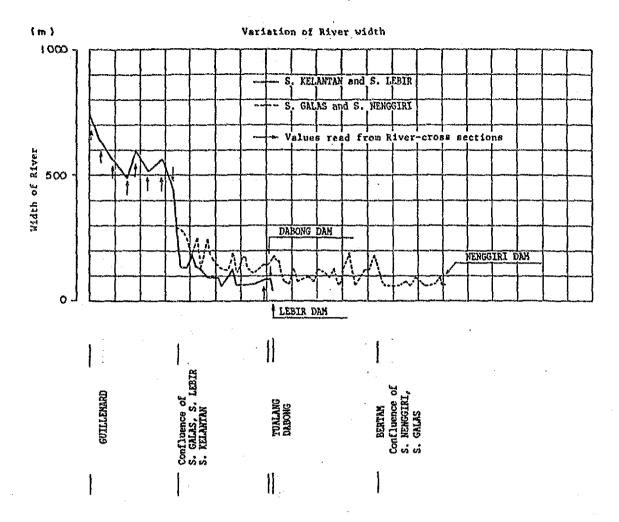


Fig. 5-31 LOCATION OF RIVER-CROSS SECTION ADOPTED



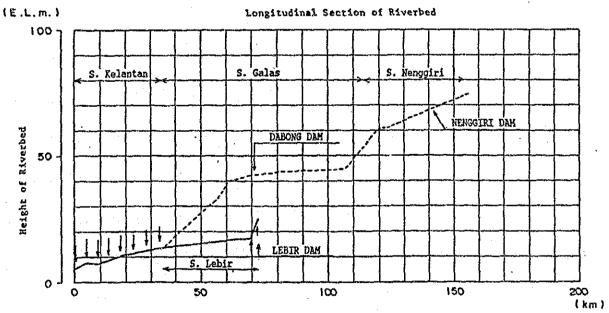


Fig. 5-32 LONGITUDINAL SECTION OF RIVERBED VARIATION OF RIVER WIDTH

(Kelanton River. Lev Lebir River. Galas River. Nenggiri River)

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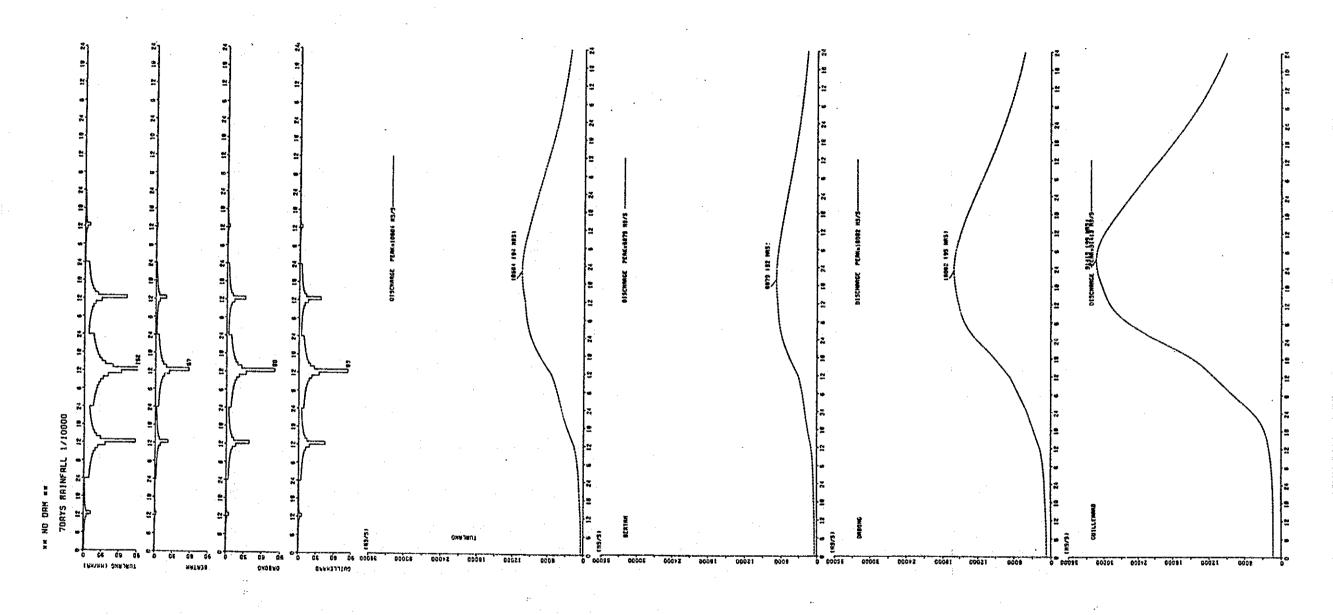
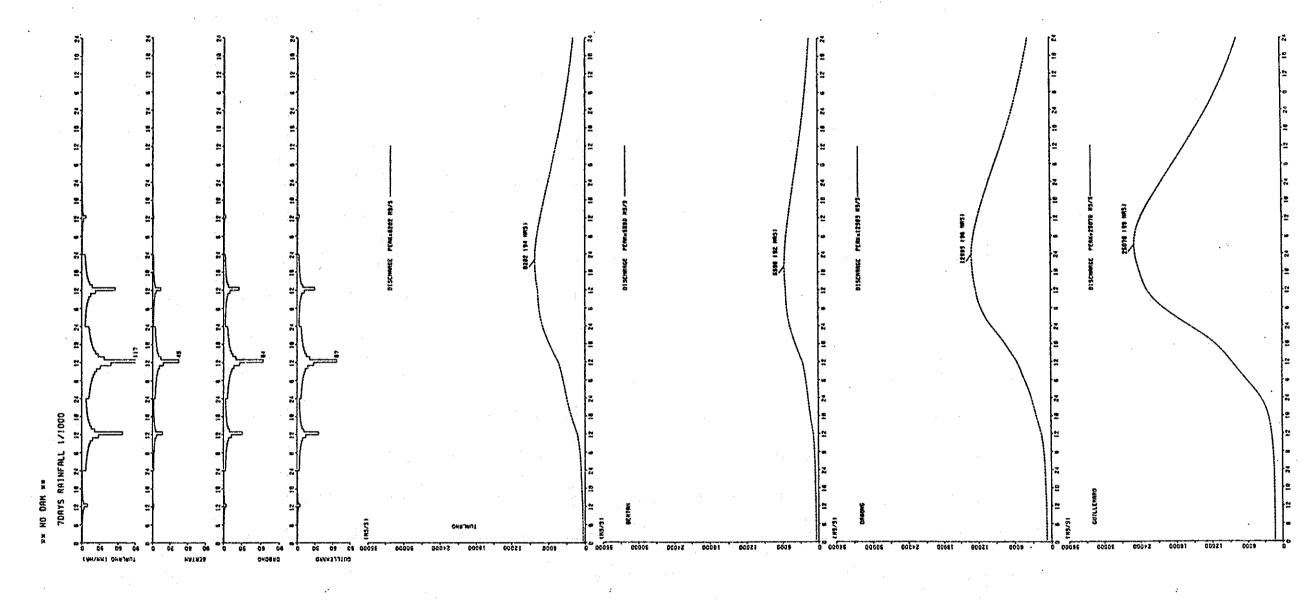
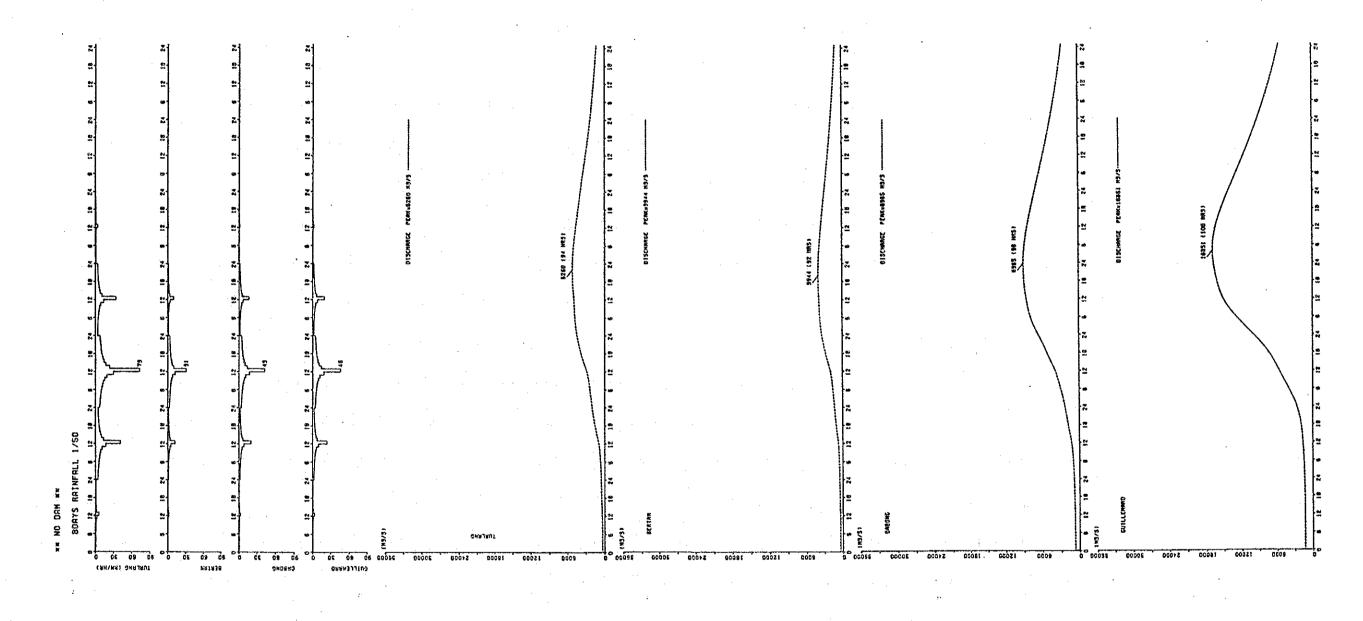


Fig.5-34 Simulation of Flood with 1000-Year Probable Rainfall





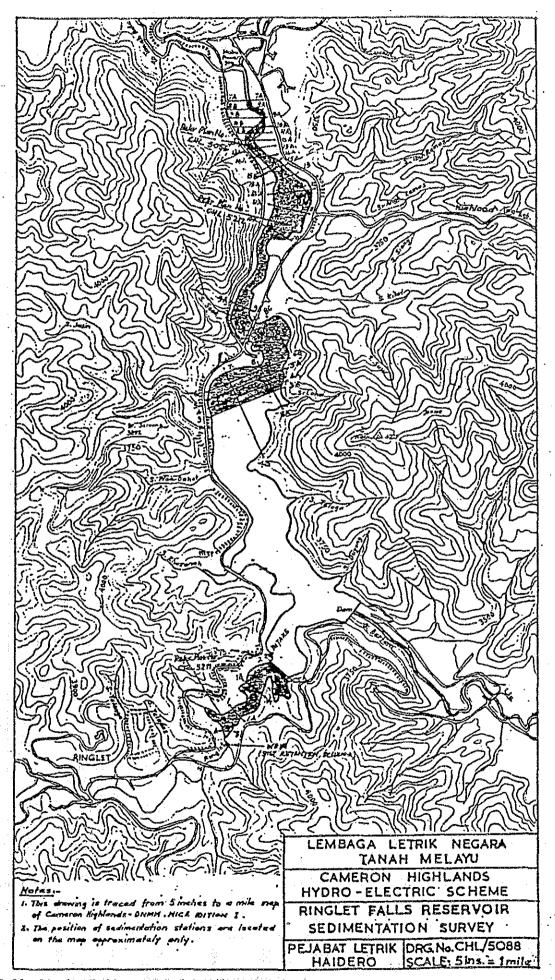


Fig. 5-36 Ringlet Falls Reservoir Sedimention Survey

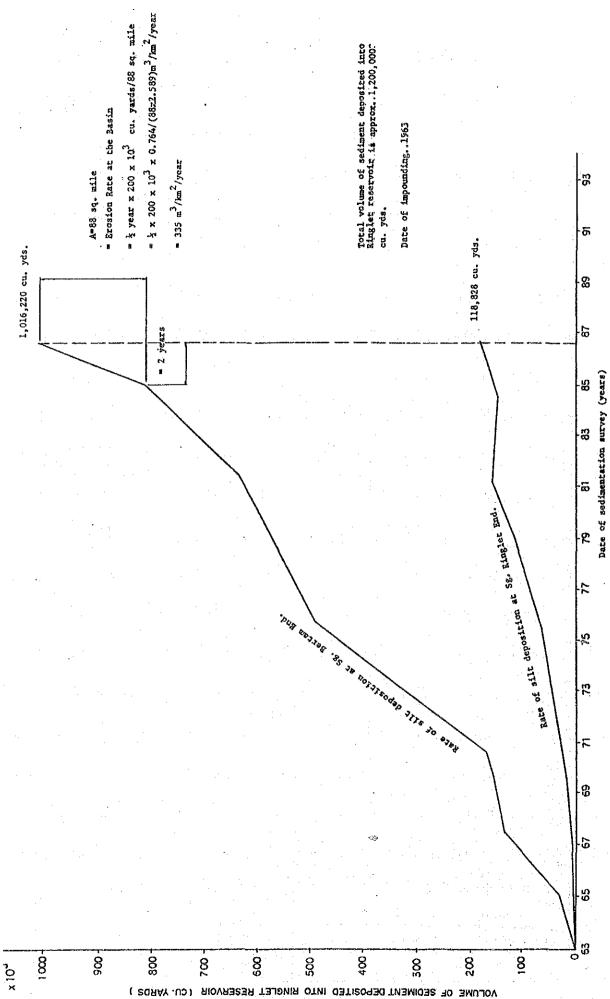


Fig. 5-37 SEDIMENT SURVEY AT RINGLET FALLS RESERVOR

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Table 5 - 1 CORRESPONDING MONTHLY AVERAGE DISCHARGES AT GUILLEMARD BRIDGE AND TUALANG GAUGING STATION

MAR	н 8 9	53.10 261.0 37.87	37.93 217.00 24.72	1084.53231.87 462,98 74.10 339.81 43.26 240.50 29.30	57.33 292.56 41.58	34.12 157.41 27.63	7.64 114.26 15.94	0.9032	73 6.5246	0 0 0 0
F F 8	E 0 E	158.04 446.0	304.0	1.10 339.81	.84 287.85	89.58 263.04 54.12	1.62 134.87 17.64	44 0.677	1 4.6473	586818
JAN	G·B		100.67 746.0 123.91	17 462.98 74	9 363.07 61		132.60 268.56 30.62	0.96644	4.877	79.6873
DEC	G.8	1139.0 241,93 851.0	665.0		912.78 176.	862.24 216.	80.16 646.51 132.6	9.9176	3.2945	281.0556
NOV	G.B	1031.0 169.16	952.00131.10	759.06 68.55	2078.72 735.52	204.94 (012.5) 228.20 862.24 216.68 410.84		0.9708	2,1291	526.6534
OCT	G-B T	675.0 121.05	715.0 36.94		229.20 26.96 431.38 74.25 383.19 75.79 2078.72 735.52 9 12.78 176.19 363.07 61.84 287.85 57.33	928.2 204.94	446.23 122.45 547.23	3068.0	4.3629	34 0651
SEP	G-B T	457.0 101.14	266.0 49.23	172.17 78.14	31.38 74.25	583.53 121.42		0.9442	3.8975	6286 011
AUG	G.B T	441.0 93.07	373.00 72.88	241.0 45.60 472.17 78.14 484.59 24.51	29.20 26.96	468.57 98.60 583.53 121.42	30.15 20.09 285.75 46.39	0.9821	3.9355	80 5257
Jun	G-8 T		286.0 30.72 3		·····	1		0.7497	2.7676	161 0645
NUS	G.B T	67.36 408.0 84.74 329.0 64.35	207.0 19.10	206.00 21.00 320.0 49.57 334.0 55.06 402.0 74.27	305.4741.48 348.3344.45 287.37 30.95	288.48 56.35 280.71 42.27 212.44 32.74	213.58 41.78 226.51 47.69	0.8606	3.1787	146 342
MAY	G.B T	396.0 87.36	179.0 17.22 207.0 19.10	320.0 49.57	105.47 41.48	38.48 56.35	402.28 84.61 2	0.9534	2.9252	151,107
APR	G.B T	27.22	177.0 15.96	06.00 21.00 3	1 9 7 9 272.19 36.33 3	980 245.22 36.02 2	254.66 49.96 4	0.8006	2.3038	162,2383
		1976 248.0	1977	1978 20	1979 2	1980 2	1981	L,	Ü	٩

y =ax+b

Y = ax + b (Y: TUALANG, X: GUILLEMARD)

	1	D	q
JAN~MAR	0.9588	4.9521	73.0062
APR~SEP	0.9369	0.2492	-24.3265
OCT ~ DEC	0.9308	3.7283	195.0837
JAN~DEC	0.9399	0.2829	-41.0378

Table 5-4 ANNUAL MAX. DISCHARGE RECORDED AT GUILLEHARD BRIDGE

No.	Year	Annual max discharge	remark	No.	Year	Annual max discharge	remark
		m³/sec				m³/sec	·
1	1940	2030		24	1964	1610	
2	1942	11480		25	1965	6170	} a
3	1943	4630		26	1966	16000	J
4	1944	5230		27		18000	đ
5	1945	12850		28	1967	8280	
6	1946	3970		29	1968	1700	
7	1947	13580		30	1969	6650	а
8	1948	3420		31	1970	8800	. (
9	1949	7050		32	1971	5550	
10	1950	8090		33	1972	10260	
11	1951	2600		34	1973	11130	
12	1952	1970	a	35	1974	4490	<i>.</i>)
13	1953	. 4060		36	1975	5247	
14	1954	4550		37	1976	2610] }
15	1955	2310		38	1977	2525	\ b
16	1956	3580		39	1978	3291	
17	1957	6050		40	1979	10400	
18	1958	1500		41	1981	2028	
19	1959	3440		42	1982	7172	
20	1960	3610		43	1983	12007	c
21	1961	2700		44	1984	7744	b
2.2	1962	3410		45	1985	1722	ે દ
23	1963	2790	1		1986	6901	}

a : ENEX REPORT : Inter Report on River Hydro Copy Aug. 1976

b : DID Data

c : JICA RATING CURVE

d : This Study

Table 5-5 PEAK DISCHARGES OF THE FLOOD RECORDED BOTH AT TUALANG AND GUILLEMARD BRIDGE

year	Guillemard	Tualang	Remark
	mª/sec	m³/sec	
1926	27,000	7,500	١,
1931	17,500	4,500	
1967	18,000	4,200	
	(16,000)		С
1973	11,180	3,700	1
1974	3,910	470) a
1975(Jan.)	4,490	820	•
1975(Nov.)	5,450	2,440	
1975 (Dec.)	4,890	850	ا
1976	2,610	951	٦
1977	2,525	661	
1978	3,291	1,190	Ъъ
1979	10,400	5,322	1 (
1981	2,028	536	
1982	7,172	3,518*	
1983	12,007	3,900	•
1984	7,744	3,430	7

* : Daily discharge

a : ENEX REPORT InterimReport River

Hydro Copy Aug. 1976

b : DID Data

c : This Study

Lower: Discharge(ltr./sec) Upper: Water Stage (mm) Table 5-6 Stage - Discharge Table (Tualang Site) (applied since January 1, 1976)

RAILES FRUM : 150101	- KUK .	50 10 1									-
MUMBER OF DATUM PAIRS:	JH PAIRS:	80					.			•	
16000	21660	21715	2 17 65	21 81 6	21966	21913	21962	22 603	22042	22 63 7	7 25 25
. 0	0007	4 400	- 53 20	6220	1571	1058	95 21	11441	13482	14902	1014
22.168	23204	22.23.9	22270	22303	22345	22410	22442	22479	225 40	22570	2260-
22660 59249	25 52 2 26 80 9	22726	2 27 55 6 64 90	72.21	22873	£5622 £5623	22964 86853	22992	23050	280 280 480 480 480	2311:
23150	23179	23235	11 6578	23206	23349	23430	23462	23548	23582	23663	23724
23774	23837	23925	23957	24 008	24065	24144	24207	24293	24324	24374	24 11 55
24.597	26 90 62	2 2 2 2 2 3 4 3 4	2 48 46 25 87 05	24935	2.5091 31.67.70	329472	339933	25321	256295	372753	, =
52581 \$	25987	26147	26401	25424	2 68 72 54 60 45	5 56 62 8	271 63 5874 73	27758	27463	27932	7795
25033	767641	26342	25402	28468	28616	28684	28785 948350	28868	28923	2894 5 1008059	
•											

Table 5-7 Stage-Dischage Table (Bertam Site)

(applied since January 1, 1976)

Lower: Discharge (ltr./sec.)

Jpper: Water Stage (mm)

RATING TABLE - STAGE(MM) VERSUS DISCHARGE(LITRES/SEC)

SITE: 5120401.

RATING APPLIES FROM : 760101.

54356 1166486 49561 48551 82820 50450 52394 675516 \$3358 901371 58755 2636998 \$134¢ 470616 \$1171. \$2339. 664863. \$430£. 55254. 5039G-\$50319. 57032. 53675. 18445 51110. 436666. \$2126. \$3257. 877365. 54216. 56957. 50327. 305875. 55214. 167791. 1417493. 2572433. 49231. \$1051. 54165. 50267. 52018. \$3204. 55165. 1405295. 48333. 56708. 50998. 409501. 49167. 51961. \$0201. 248071. \$3012. 58192. 48263. 55614. 54123. \$5076. 1378639. 779727 49031. 50141. 278418. 50936. 460393. \$1500. \$2209. 768539. \$5029. 1365685. 48121. \$4075. 0£9668. \$6278. 58161. 2395038. 56077. 53926. 1063061. 54990-1350932-46051. 34358. 48962. 50873. 51352. \$2769. 756886. 54115. 1632613. 2380635 48895. 27657. 260514. 50814. 53934. \$6020°. 543283. 52707. 57893. 54945. 59775. 30421971 49750. 50757. 55796. 1590741. 46930. 54859. 57490. 47909. 51572. 59743. \$2657. 732780. 53891. 53694. 47856. 48766-49815. 55567. 50495. 362037± \$1517. \$2601. 722127. 57416. 54763 285266. NUMBER OF DATUM PAIRS: 47769. 5901. 49821. 54491. 55462. \$7332. 2088113. 50637. 51457. \$2500. 698371. 59476. 46691. 53004. 49628. 50576. \$1403° . \$2444. \$4397. 1180690. 55356. \$7172. 58905.

Lower: Discharge (ltr./sec.) table 5-8(1) Stage - Discharge Table (Dabong Site) Upper: Water Stage (mm) (applied since Juanuary 1, 1975)

-E710755. 23112								,			
RATING APPLIES FROM NUMBER OF TATUM PAIL	ES FROM : T	RATING APPLIES FROM : 750101. NUMBER OF DATUM PAIRS: 145				. 1961 (1961)					
22102.	22238	22379	22524.	22668	11312.	22921-	23655.	23179.	23308.	23434.	23551
23672.	23783.	23893.	24700-	24179.	24289.	24384.	120427	731539.	24656.	24746.	25236
249181	196310.	25045.	23127.	25264.	25336.	25414.	301519.	25559.	353052	346967.	25785
397514.	26001.	26148-	262820	26431-	314244	26555- 530862-	26634.	\$5720-	26949.	26915-	26996
27124. 6>2390.	27329.	27437.	275UC. 762807.	27756.	27876.	2/944	28000. 860410.	26174.	28456. 974831.	28534.	1059220
1091755	24025.	29158.	11952641	29380.	29507.	1318575	1334512	29767.	30165.	30243.	1530119
1549139.	30807.	30770.	31743.	31307:	1895605.	31393.	31788.	31854.	31954.	32252.	32509 2276730
2337673.	.32714.	32830-	32868. 2429971.	32957.	2547695.	33246.	. 4201292	23530.	33889.	34678.	\$ 24246Z
34455.	34613.	34769.	34928.	3339032.	35158.	35284.	35600.	35686.	3640551.	35820.	35920
36033.	36268.	3924657	3949520-	36640.	4133072	7211155	37157	7332683	37367	37472.	\$7895 4558701
37907.	38034-	38577- 4870252.	38477.	38540.	5118915.	37019.	19182.	5324352.	39738-	5593017.	5677806
4 U224. 575 5291.	40351. 583038V.	5911954.	40621.	40784.	40905-	41080.	41501.	41674.	42158.	42284.	42433
2028288.				** *** ********************************	***************************************						

Table 5-8(2) Stage - Discharge Table (Dabong Site)

(applied since November 29, 1977)

Lower: Discharge (ltr./sec.)

Upper: Water Stage (mm)

\$11E: 5320443.	•										
AATING APPLIES FROM	•	771129.									
HUMBER OF DA	MUMBER OF DATUM PAIRS: 115	115									
22081.	22187	22297.	22404.	22507.	22611.	22712.	22511.	22908.	23002.	23096.	26033
23279.	33142.	23453.	23533.	23616.	23697	23770-	23653.	23931	23999.	79151.	24141
24208.	24274.	103233	109543	116949	24603-	24664.	24770.	24826.	24731.	24972.	25021.
25664	222885.	25236.	261784.	25367	306441.	.25642323964.	344590.	. 25 836.	410225.	22102.	26184.
20245.	26291.	26431.	533632	26639.	570429.	26822.	20739.	27057.	27135.	27296-	27462.
7 to 12 to 1	769759.	£64705.	923179.	28354	28496.	23728	1129445	.29212.	29341.	27463.	29583.
2°675.	36066.	30382.	30534.	30640.	30716.	30816.	36972.	31335.	31967.	31948.	32935.
32316.	32555	2414785.	32613.	32696.	32770	33092	33135	.33247.	33323.	13336.	35337.
32338	33424-	33444.	33451.	33495	33501-	33516-	33558.	33631.	33441.	3402947	3415915
33669.	33671	33695	33703.	33718	33735	33601		1	-		

Table 5-9(1) Stage - Discharge Table (Guillemard Bridge)

(applied since July 1, 1970)

Lower: Discharge (ltr./sec.) Upper: Water Stage (mm) RATING TABLE - STAGE(MM) VERSUS DISCHANGEILITRES/SEC)

RATING APPLIES FROM : 700701.

SITE: 5721442.

15471 1176807 129324 12151 14481 15412 16164 17367 9862 247165 16075. 3282357 17312. 8685. 9803. 1730018. 7043469 13374. 15560. 10730 062665 2546944. 16045. 3243207 7548674 110900 9727-1050342. 15299. 6104353. 1,336 2514018 7504309. 3170128. 15974. 9584. 1002836. 11763. 15209. 16996 13148. 5845963. 2411425 76676 15878. 3073234 15134. 10409. 9526. 16952. 7272823. 1342301. 13029. 346176. 5807618. 15 807. 485457. 14013. 3840894. 10334. 11574. 108885. 77643 17681. 17706. 17720. 099727. 7042341. 7090727. 12932 2273698 11246. 15682. 4491583. 13470. 14492. 16519 12867. 460963. \$298e71. 16177 8130. \$0208 151437 16439. 1442117. 2910735 10185. 14846... 406756. 8033. 75288. 12709. 5211939. 2137979. 10200 818933 10141. 736208.7 16385. 377645. 17412. 13855. 3612420. 4532374. 4370179. 12387. 2074336. 13800 6725529 1313625. 9682. 16357 7845. 33528. 12443. .1 489891 3534340. 5087666. 1007%. 8069270: 754687 126 NUMBER OF DATUM PAINS: 325646. 14627. 10280. 17477. 64573U3. 65U0669. 1809U. 2052748: 2758152: 15574. 13652. 2444 1188347. 1285317. 12435 1966322 7723513 724377 12534-47 525 3. 7654. 18015. 16211. 9922 12330. 1895855. 4924038 145/0. 5427722. 7736798. 695862.

Table 5-9(2) Stage - Discharge Table (Guillemard Bridge) (applied since January 1, 1980)

Upper: Water Stage (mm)

NAMBER OF DATUM PAIRS: 123 6000 6120 4505 7862 7862 6748 57959 6	123 6271 606 606 6067									
	6 27 1 6 00 6 8 04 7 6 9 0 7 1									
	8047	84.18	908.2	66 99	6836	71 21	7258	7388	7514	7642
	100	7 9281	9240	100103	1 2833 1	14 64 50	162368	8690 176381	8762	21 12 16
228834 245752	262369	282670	303010	32 46 33	ľ	92.24	382,091	93 38 39 19 05	4394	43.79.49 43.79.49
458189 500813	9625	97.28 55.62.70	577775	9840	9894 639656	10004	1004 4	10141	10248	10430
10581 10713	10 52 77 9	1 10 38	11 23 4 11 93 123	123516	11502	1400435	11801	1 54 50 63	12059	12194
1758402 1823168	12613	1991841	2055106	13546	13523	13391	13555	13660 2462723	13783	13851
13872 13904	14022	141.27	14246	14355	30 32 80 8	14535	3353636	14957	14999 3449434	1508 A
3610700 3755343	3852547	3 89 61 92	15717	15830	12691	16028	4443453	152.25	16369	1 6564
16468 16691 503997	10	16821	15 87 3	1 6924	17 00 8 56 52 89 2	17170	17211	17346	17511	17626
65 10 571 664 07 04	13002	18695	18 25 12	7236715	73 40 92 2	7465750	77 72364	18921	18978	1 92 50

Upper: Water Stage (mm)
Lower: Discharge (ltr./sec.))

SATING TABLE	- STAGECHM? YENSUS		DISCHARGE (LITRES/SE	KES/SEC2							
SITE: 5721442.	2-										
RATING APPLIES	TRON .	240101.					•				
HUMBER OF DATUM PAIRS:		141									
7590.	7 600.	7620.	7630.	7660.	7670-	7680.	7700.	13750.	7760.	15855.	1790
7820.	7870.	7880.	7920.	7.940.	7960.	8000.	4010.	8030. 48632.	8063. \$3172.	3090. 57806.	8130
8160.	8 200. 7 6 0 3 6 .	8230.	8260.	3300.	10001	110054.	118320.	126842.	135621.	3550.	8590 21595
863U. 165927.	867U. 175777.	8710.	3/30.	3800.	8840. 220610.	3890.	8920.	\$970. 258008,	9010,	9070°	9120
320839.	9240.	9290°. 361618.	3792910	401028	415841.	434717.	450107.	453997	457390	470207	488196
9720.	9760.	97.0.	9840.	9920.	9750.	10010.	10070.	10140.	10229.	10290-	10373
13650.	10510.	10590.	10670.	10770.	903760	10970.	11070.	1025742.	1055559.	1110355.	715121
11540.	124,317.	1295671.	1355841.	11940.	1459417.	12160.	12270.	12370.	12509.	1745681.	12720
.1285U .0585T	12940.	13070.	2121959.	13320.	13420.	13550.	13690.	13790.	13970.	2706935.	2217981
14320.	3038951.	3164663.	14810.	14980.	15130.	15320.	15470.	15490.	15500.	15690.	15550
16130.	1635U. 4787415.	3021931	16670.	16700.	5295617.	16910.	17120.	17350.	17510.	6513785.	18113
18350.	18629.	16870.	19090.	19320.	19560.	19850.	19960.	19990.			
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Table 5-10(1) DAILY RAINFALL DATA DURATION & STATION

DAILY RAINFALL DATA

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Note: * shows Rainfall Gauging Station of which Location was confirmed.

O number in parenthesis shows number of Gauging Station of which data used for the study.

() Number in parenthesis shows months of observation lack

DAILY RAINFALL DATA

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Note: * shows Rainfall Gauging Station of which Location was confirmed.

O number in parenthesis shows number of Gauging Station of which data used for the study.

() Number in parenthesis shows months of observation lack

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Table 5-10(3) MONTHLY RAINFALL DATA DURATION & STATION

MONTHLY RAINFALL DATA

Name			Γ
THE LEY. C/H JANALETRIK KAJICUACA THE THE THE THE THE THE THE TH	Observed	7 है 9 50 । 2 3 4 ई 6 7 8 9 60 । 2 3 4 5 6 7 8 9 70 । 2 3 4 5 6 7 8 9 80 । 2 3 4	
M. SUNGAI C. C. C. C. C. C. C. C	ADANG THE		
THE TALIKOM ING.C/H ANALETRIK C/H TALIKOM ING.C/H ANALETRIK TALIKOM ING.C/H ING.C/H	LURMASUK SUNGAI ELOM.C/H	(2/65)(1,677)	
TALIKOM NNG.C/H JANALETRIK C/H TAJIKOM NNG.C/H JANALETRIK C/H TAJICOACA TAJICOA	ADANG THE ALAS.C/H		
ANALETRIK	TESYEN TALIKOM BRINCHANG.C/H	11~4.6~16/284) 14/66)42/19/12/720)4811/2/72/18/17/17/19/72/19/12/79)	2
AT.C/H ATA.C/H ATA.C/H ATA.C/H JANALETRIK THE THE THE THE THE SHUM L.L.N. L.L.N. TAUCUACA Towara To	TESYEN JANALETRIK IINTANG. C/H		
"MARDI" ATA. C/H JANALETRIK (1.2 cm)	TESYEN KAJICUACA ANAH PAT.C/H	(62.1(-8)	
JANALETRIK THE THE SHUM THE SHUM T.L. N. TANALETRIK TANALETRIK TANALA.C./H	TESYEN "MARDI" ANAH RATA.C/H	12 (28/172) (*18/173) (*18/173) (*18/173)	
THE FRANGINAN THE SHUM 3. C/H L.L.N. L.L.N. RAJA. C/H	TESYEN JANALETRIK ABU. C/H	16/57 (6/57) (8/12/74)(0/73/178) (1.12/79)	
		(12/23)	
	USAT PERANGINAN AIWAN. C/H		
	ADANG THE SHUM IP LEONG, C/H		
	EJABAT L.L.N. AMPUNG RAJA.C/H	(20)	

Table 5-10(4) DAILY DISCHAGE, SUSPENDED SEDIMENT DISCHARGE, MONTHLY DISCHARGED AND METEROLOGICAL DATA DURATION & STATION

DAILY DISCHARGE

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	Observed year	5120401 SUNGEI NENGGI DI JAMBATAN BERTAM	5222452 SG.LEBIR AT KG.TUALANG	5320443 SG.GALAS AT DABONG	5721442 SG.KELANTAN AT JAN GUILLEMARO	6019411 SG. GOLOK, AT PANTAU PANJANG	6022421 SG. KEMASIN AT. PERINGAT

Note: Number in parenthesis shows a month in which some daily observations lack.	80 1 2 3 4 5 6 7 8 9	NO/SOXT/EDIZ-AG/82	47731031127731165437400567811	2/17K(29) 79K(8 1/80E.5/8H) 2 W/82)	6.0/77/ka.qu/16x3,6.7/73/40/2018/60/73/34,2/2/2/3
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MONTHLY DISCHARGE

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SG. KEMASIN AT PERINGAT									ᅴ			3	8	3	\$	8	8	<u> </u>	(eg.					3	\$ 152 mg		_				

METEROLOGICAL DATA

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Table 5-10(5) HOURLY RAINFALL DATA DURATION & STATION

HOURLY RAINFALL DATA

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AILY DISCHARGE DATA

Observed year 1950	SUNGAI	SUNGAI NENGGIRI AT CHEGAR ATAS
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MONTHLY MEAN, INSTANTANEOUS MAXIMUM AND MINIMUM FLOWS

SUNGAI NENGGIRI AT CHEGAR ATAS	Name 1950	8	8	<u> </u>	8+		2+	-	4	8		10	-
	SUNGAI				-	 					-	1	*********
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	AT CHEGAR ATAS					 							

Table 5-11 Correlation Coefficient of Daily Rainfall among Stations

4 5 6 7 8 9 10 11 12 13 14 15 16 15 16 16 16 17 18 16 11 12 13 14 15 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16	L	ſ																		
0.545 0.015 0.015 0.015 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 0.116 <td< th=""><th>8</th><th>m</th><th></th><th>4</th><th>ıo</th><th>9</th><th>7</th><th>8</th><th>6</th><th>10</th><th>11</th><th>12</th><th>13</th><th>H</th><th>15</th><th>16</th><th>11</th><th>83</th><th>13</th><th>92</th></td<>	8	m		4	ıo	9	7	8	6	10	11	12	13	H	15	16	11	83	13	92
6.336 0.316 0.316 0.236 0.205 0.369 0.	0.053 -0.034	0.0	3	0.045	0.066	-0.043	0.073	0.172	1	0.112	0.038	ı	0.135	0.123	0.108	0.169	0.167	0.270	0.035	0.101
0.532 0.431 0.815 0.451 0.714 0.150 0.704 0.369 0.417 0.511 0.215 0.234	0.4	9.	2	6.336		0.696	0.381	0.446	ţ	0.218	0.316	-	0.286	0.205	0.369	0.292	0.280	0.258	0.223	0.193
0.421 0.402 0.404 0.153 0.237 0.337 0.316 0.136 0.136 0.131 0.234 0.327 0.327 0.327 0.440 0.352 0.413 0.041 0.442 0.442 0.443 <td< th=""><th></th><th></th><th></th><th>0.532</th><th>0.431</th><th>0.815</th><th>0.451</th><th>0.714</th><th>t</th><th>0.150</th><th>0.704</th><th>11</th><th>0.368</th><th>9.417</th><th>0.511</th><th>0.275</th><th>0.670</th><th>-</th><th>0.283</th><th>0.243</th></td<>				0.532	0.431	0.815	0.451	0.714	t	0.150	0.704	11	0.368	9.417	0.511	0.275	0.670	-	0.283	0.243
0.765 0.413 0.533 0.276 0.402 0.472 0.400 0.513 0.433					6.421	0.802	0.404	0.408	0.193	0.220	0.357	0.336	0.291	0.19\$	0.336	0.294	0.292	1	0.373	0.254
0.856 0.803 0.627 0.501 0.466 0.507 0.773 0.458 0.507 0.773 0.458 0.507 0.773 0.458 0.507 0.773 0.458 0.508 0.458 0.508 0.458 0.458 0.468 0					: .	0.763	0.443	0.539	l	0.278	0.482	,	0.432	0.440	9.382	0.415	0.322	-	0.208	0.358
0.517		;					0.888	0.859	ı	0.627	0.847		0.772	0.886	0.813	.0.693	-0.074		0.522	0.847
0.447 0.624 0.550 0.571 0.499 0.589 0					30			0.517	1	0.397	0.501	0.361	0.448	0.507	0.373	0.455	0.159	-	0.294	0.284
0.246 0.182 0.283 0.295 0.295 0.394 0.375 0.37									3	0.447	0.624	ì	0.550	0.571	0.433	0.588	0.180	· .	907-0	0.325
10										0.245	0.152	0.263	0.355	0.285	ı	1	1		0.20\$	0.240
0.524 0.462 0.468 0.468 0.468 0.468 0.468 0.468 0.468 0.568					i I						0.452	0.235	0.291	0.275	0.354	0.377	0.338	0.260	0.271	0.338
0.230 0.214												-	0.524	0.462	0.452	0.469	0.034	ţ	0.388	0.785
0.324 0.586 0.588				-				-					0.230	0.214	1.		1	1	1	.,
0.502								-						0.324	0.598	0.558	0.328	0.316	0.342	0.333
265.0															0.501	0.508	0.228	0.205	0.223	0.432
		<u> </u>														0.592	0.184	1	0.357	0.433
														-			6.158	ı	6.235	0.312
		<u> </u>								-								6.303	0.232	0.361
						÷					-								0.330	0.459
		<u> </u>			·															0.337
										_									~	

Table 5-12 CORRELATION OF 5-DAY RAINFALL ALONG STATION

		-	AND NUMBER OF DAT	MBE'R (•						€.8	e case where	re data in Gate are	Rainy Sea existing:	son(Cct., Ko	The case where data in Rainy Season(Oct., Nov., Dec., a Period where da <u>te are existing: from 1917 to 1985,39</u>	and Jan. 4 months) years.	aonths) wei	were used.
St. No.	x 1	2	£	4	5	9	4	82	6	10	11	12	23	¥	5	92	13	\$ 2	18	62
y 1		0,409	£	0.493	-0.158 (8)	(3)	0.186 (8)	6.453	16	0.038	0.169 (8)	2	0.093 (18)	0,210 (17)	0.00 (8)	9.143	9,433 (7)	0.772	0.380	-0.341 (3)
7			[2]	0.918 (7)	0.707	(2)	© 0.907 (8)	0.851	 @	6, 399	0.656	(9)	6. 526 (18)	0.473	0.420	9.63	6.97 (3.97	6.831	6.30	9.83 (3)
E)				18	12	(2)	(2) —	[8	(6)	(2)	18	ĮΘ	ĺΞ	18	8	Ιε	ļΘ	8	8	e
4		0.918			0.746	(2)	ණි 0. 889 (7)	0.878	0.438	© 0.677 (35)	9.82 (33)	[8		(22)		6.819 (3.919	Ιŝ	6	(3)	0,494
5						[2]	ි. 0.906 (8)	0.368	8	ල දි.90 (8)	6.86 (6)	19	Θ 6, 949	6.83 (6.83	Ø 9.752 (8)	9.83 (3:83	18	(6)	@	18
٥							[2]	(3)	 ©		[2]	9	<u> </u>		18		€	(6)	ë	9
7		69.907		(A) (2, 889	ල ම			ල දී	9		© 0.876 (8)	[9	ය ර.නය (8)	0.927 (8)	0.653 (8)		18	9	©	(8
80							⊕		Ιŝ	9 3.89	6 8€3	15	0.841	0.842 (5)	6.829	6.8 8.8	18			9
6										⊕ 2.3 3.3		6.260	9 . 73	ණ 0.582 (85)	18	Ιŝ	(8		#3	Ø 0.854 (5)
ဋ				1.677	0°.98		0.717	⊕ 6.959	.e		9 9 9 9 9	0.302	0.537 (108)	0,328	(24)		0,490		6.207	0,331 (14)
=			:	6). ES2	© 0.866		Ø 0.876	O. 832	0.649	Ø. 802		8	© 0.872 (41)	9.694 (23)	6.673 (23)	⊕ 8.83	Į S		6.83 (5)	3.453
22														0.391	ĮΘ	ĮΘ	ΙΞ	8	ĮΞ	ΙĐ
ដ		0,526		6) 773	0.949		0.906 0.906		0.739	® 0, 537	Ø 6.872			@ 0. E38 (91)	0.764 (24)		0,639	0.440 (3)	6.659	0.166
=			:	કું. ⊜ે	(f) 0, 339	-	(2) 0.927		Ø 0. 582	0.328	6.694	0.331	6.635		0.776	6). 879 (8)	8,561 (5)	0.47	9.546 (3)	0.503 (19)
52	· :-			9.484 O	0,752					6.505	6.673		∂.°	9.73		⊕ 3.82 (8.22	<u>ا</u> ۋ	8	9	6.727 (8)
ع				© 0. 619	0,823		Ф 0.798	O 0.539		0.753	@ e.733		0.880	Ø. 979.	0.82		(8	8	8	ĮΞ
7.		0.917						- 1										69.86	18	6.973
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<u>82</u>									Ø 0.913		0.937									9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5
8									6) 28.								, -, ,		0.342	
_	(ote) A 5-0	ay Rainfa	ाड टबोटा	lated by a	Note) A S-bay gainfall is calculated by wonth by wonth taking up a period in a month where the Mithly Haximin Dally Mainfall occurred at the middle of the period	nth taking	up 4 per	OR EU: DO	ith where	the Mathly	Haxinus De	illy Rainfe	ון סכבתנה	at the l	iddle of	he period.				

Table 5-13 CDEFFICIENT OF INTERPOLATION FORMULA FOR MONTHLY MAXIMUM

į						·	T	Т		v2 ≠0			T	1	 1	—т	· <u>'</u>	Т		23.23	
# E	82									26. 6595 12. 3738										6, 1038	
upper value lower value	\$1									42.6519		17,1587									1,7080
(x+p)	35 20			·																	
(Ry=a.Rx+b)	11	-	2 1.0926 -26.8958																		
<u>ਲ</u>	16				4 0.3029 21.6144	8 0.4949 14.3817		0.4877	14.4251		0.4468	0.5124		0,7838	0.9908	6,5359					ne period
	55			.,	7 0.2946 15.9028	7 0. 4989 26. 3026					0.4567 34.0605	6, 7102 5, 2763		1,0583	9, 6556		0.9287 32.6286				i delle of
	14				8 0.2460 24.7594	2 6.5007 19.9165		0.5029 5.9184		0.3963 58.6258	0.2150	0, 6698	0.3262	0.5549		0.6930	0, 7803 38, 9766				200
	13		4 0, 2828 29, 2513		5 6.3137 10.0992	1 0.6408 4.3947		0.6216 -7.0804		34.8970	35, 6559	0,5242 19,8655			0.7212 37.0649	50, 4820	0.9882 15.0184				all action
	12						,				·				•						N Ball
	11				3 0.5049 7.6370	5 0.7449 17.4587	•	1.9439	0.4154	0.8833	0.7741			1,4506	0.7195	0.5382 58.0242	1.0495			0.0511	
,	10				6 0.4315 17.8148	3 0,9158 5,3898	,	6.7588	0, 5632 15, 4875	6,4178		0,8307		0, 7873 73, 9887	0.5003	0.5589	1, 2662 29, 7737	-			1
	٥										31.8911	0.4762		0. 8265 29. 8911	6, 8553 44, 5045					0,0195	0.0280
	8		·					1,7241			1,6325	1,9157					2.5127				3
STATION	2		3 0.7875 15.2171		2 0.4576 23.5885	4 0.896 21.006			0.4555		0,7154	1,0008		1,3195	1,7087		1,3051				1
CH STA	9																	-			2
AI EA(5							0.9210	-		0.8968 9.3955	1,0064		1, 4065	1, 7594	1, 1344	1,3697		,		
	4		1,5475 -14,7529					1, 7283		,	1,0622	1,4393		1, 9360		0, 7967 86, 2978	2.2141			·	
5-DAY RAINRALL	м																		<u>.</u>		
5-0/	7	·			0.5450 16.5346			1.0435			·			0, 9770 52, 9947				0, 7592 39, 4735			1,2774 1,2774 1,2777 1,
	×	/																			
4	St. No.	5	7	ю	4	s	٠	2	œ	٥	5	=	12	52	7	ħ	92	11	#	15	გ .

Coefficient of Correlation Between 5-day Rainfall and Peak Daily Rainfall and Coefficient of Mean Linear Equation

Station	Number of	Correlation Coefficient	Coefficien Equation R. a · R.	t Mean Linear
No	Data	γ	8	ь
2	2 0	0.802	0.3855	6.4969
4	3 5	0.954	0.5353	3.4306
5	8	0.988	0.5.56	-0.1361
7	8	0.992	0.5943	1.4589
8	5	0.957	0.7296	-5.2974
9	102	0.832	0.4138	9.5974
10	129	0.883	0.3908	9.1281
11	4 1	0.940	0.5096	9.0961
1 2	. 38	0.873	0.4237	7.5496
1 3	111	0.930	0.4642	1.1577
14	128	0.909	0.4299	12.9952
15	2 4	0.924	0.4585	9.1423
16	8	0.953	0.5515	6.2695
17	7	0.962	0.5057	-7.0978

R: Peak daily rainfall(mm/ day)

R: 5-day rainfall (mm/5days)

Table 5-15 Relation Between 5-Day Rainfall and Peak Rainfall

(Curve of 95% Reliability Zone)

T		nt of Curve			and the second section of the secti	
Statio	n Equ	ation (R ₁ =	aRs +b +	$c \sqrt{dR_5^2 + \epsilon}$	eRs + f) *	
No	a	b	c	đ	e	f
2	0.3855	6.4969	2.101	0.4585×10-2	-0.6886	0.5120×10 ²
4	0.5353	3.4306	2.035	0.8626×10-3	-0.1029	0.6024×10 ¹
5	0.5056	-0.1361	2.447	0.1082×10-2	-0.1734	0.1321×10 ²
7	0.5943	1.4589	2.447	0.9863×10 ⁻³	-0.1310	0.1025×10°
8	0.7296	-5.2974	3.182	0.1626×10 ⁻¹	-0.1792 ×101	0.8909×10°
9	0.4138	9.5974	1.984	0.7599×10-3	-0.1783	0.1534×10 ²
10	0.3908	9.1281	1.979	0.3381×10-3	-0.5805 ×10 ⁻¹	0.4950×10 ¹
11	0.5096	9.0961	2.023	0.8825×10-3	-0.1864	0.2007×10 ²
12	0.4237	7.5496	2.028	0.1551×10 ⁻²	-0.3077	0.2348×10*
13	0.4642	1.1577	1.982	0.3098×10-3	-0.8962 ×10 ⁻¹	0.1198×10°
14	0.4299	12.9952	1.979	0.3104×10-5	-0.8641 ×10 ⁻¹	0.1036×10°
15	0.4685	9.1423	2.074	0.1699×10-2	-0.4557	0.4611×10°
16	0.5615	6.2695	2.447	0.5347×10-2	-0.1420 ×101	0.1800×10 ³
17	0.5057	-7.0978	2.571	0.4124×10-2	-0.9710	0.8129×10 ²

* R₁: Peak daily(mm/day)
rainfall

 $R_s: 5-day$ (mm/5days)

rainfall

Table 5-16 ORDER OF INTERPOLATION FOR MONTHLY MAXIMUM 5-DAY RAINFALL

Gauaging Station used to supplement observation		Order corre	of Con lation	sidered	Gaugin	g Statio	ons' Nu	nber wh	ich have) The second
Data	Order 	2_	3	4	5_	6	7	8_	9	_10	11	12
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2	4	17	7	13						<u>.</u>		
3'					<u></u>							
4	2_	7_	11	16	13	10	15	14				
5	13	14	10	7_	11	16	15					
6												
7	14	2	5,13	4	8	11	16	10				
8	10	16	11	7								
9	19	20	13		14	10						
10	8.	5_		16	7	4.	13	15	1172			
1 1	19	8	7	13	5_	4	10	16_	14	15	9	
12	14											
13	5	7	16	11	4	15	9	14	10	2		
14	5	7	16	15	11	13	9	4	12	10		
15	16	14	13	5	11	10	4	**************************************				`
16	8	13	14	15	5	4	7	10				
17	2											
18												
19	20	11_	9									
20	19	9					1					

Table 5-17 YEARLY MAXIMUM 5-DAY RAINFALL AT EACH STATION

15 16 17 20 186.5 193.2 205.5 186.5 193.2 205.5 186.5 193.2 205.5 186.5 193.6 162.5 228.9 242.8 134.1 228.9 242.8 134.1 228.9 242.8 134.1 228.9 135.2 150.0 228.9 135.2 150.0 228.9 136.9 131.1 224.1 255.9 131.1 224.1 255.9 131.1 224.1 255.9 131.1 224.1 255.9 131.2 228.9 24.4 228.9 24.4 228.9 24.4 228.1 254.1 145.0 228.1 234.2 145.0 228.1 234.2 133.3 228.2 234.3 463.5 228.3 234.2 133.3 228.5 234.3 463.5 228.1 234.2 133.3 228.2 234.3 463.6 331.6 334.3 168.7 145.0 321.0 334.3 168.7 145.0 321.0 334.3 168.7 145.6 321.0 334.3 168.7 145.6 321.0 334.3 168.7 145.6 321.0 334.3 168.7 145.6 321.0 334.3 168.7 145.6 321.0 334.3 168.7 145.6 321.0 334.3 168.5 169.5 321.0 334.3 168.5 169.5 321.0 334.3 169.5 169.5 321.0 334.3 169.5 169.5 331.0 331.3 139.6 145.6 331.0 331.3 331.3 331.3 331.3 332.3 328.5 324.6 331.3 332.3 328.5 324.6 331.3 332.3 328.5 324.6 331.3 332.3 328.5 324.6 331.4 332.3 328.5 324.6 331.5 332.3 328.5 324.6 331.6 332.3 328.5 324.6 331.6 331.6 331.6 331.6 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.7 331.8 331.7 331.7 331.8 331.7 331.7 331.8 331.7 331.7 331.8 331.7 331.7 331.8 331.7 331.7 331.8 331.7 331.8 331.7 331.8 331.7 331.8 331.7 331.8 331.7 331.8 331.7 331.8 331.7 331.8 331.7 331.8 331.7 331.8 331.7 331.8
15 16 17 398.0 433.2 205. 186.5 193.0 116. 228.9 242.8 134. 226.1 250.9 136. 226.1 250.9 131. 226.1 250.9 131. 226.1 250.9 131. 226.1 250.9 131. 226.1 250.9 131. 226.1 250.9 131. 226.1 250.9 131. 236.1 254.1 116. 236.1 233.3 361.0 133. 236.1 330.5 168.0 166. 226.0 336.3 168.0 168. 226.0 336.3 168.0 168.
15 16 398.0 433.1 186.5 195.3 228.9 242. 228.6 5 285. 228.1 195.0 143.0 146. 236.1 250. 143.0 146. 236.1 250. 145.0 146. 236.1 250. 146.2 1146. 236.1 250. 236.1 250. 236.2 250. 236.1
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7 H H H H H H H H H H H H H H H H H H H
25
7 8 9 10 11 260.0 107.2 258.8 161.1 356. 106.5 70.3 *146.6 95.5 152. 230.8 100.2 *272.4 148.6 317. 131.3 77.7 *113.6 108.7 193. 154.9 100.2 *272.4 148.6 317. 154.9 100.2 *272.4 149.3 193. 154.9 100.2 *272.4 140.3 132. 154.9 100.2 *271.4 *272.9 152. 205.0 100.2 *271.4 *272.9 157. 148.3 168.7 *186.7 *166.3 157. 150.4 104.1 *171.5 *166.3 166.9 *248.3 96. 150.4 115.4 1 *220.7 *104.1 192. 150.0 104.3 *113.5 97. 150.0 104.3 *113.5 97. 150.0 104.3 *113.5 97. 150.0 161.7 125.4 *20.0 116. 152.6 164.3 *113.5 193. 152.6 164.7 *278.0 *277.3 193. 163.1 164.3 *149.3 *149.3 *149.3 *149. 163.1 164.3 *149.3 *149.3 *149.3 *149. 163.1 164.3 *149.3 *149.3 *149.3 *149. 163.1 163.8 149.3 *149.3 *149.3 *149.3 *149. 163.1 163.8 149.3 *149.3 *149.3 *149.3 *149.0 *140. 163.8 149.3 *149.3
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
22 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Year Y

Note) * shows actual measured value and others are interpolated values.

Table 5-18 YEARLY MAXIMUM DAILY RAINFALL AT EACH STATION

(=)	20							 													■ 73.4	*283.2	* 28.2	1	68.5	* 44.7	* 63.5	*279.4	\$ 41.4	* 71.1	a 43.6	* 90.2	a 77.0	*252.7	* 57.2	* 46.5		*282.2	8.06.	s 50.4
(S	1.1	96.8	51.7	88.3	50.7	58.8	54.0	74.3	59.5	37.7	52.0	42.4	41.9	40.4	43.3	40.6	36.1	46.6	37.3	80.4	50.8	83.9	41.3	65.3	9.09	111.4	135.3	121.4	36.0	78.2	32.4	2.12	52.9	178.1	43.8	76.1	89.3	*133.0	. 89.0	56.6
the mean curve)	1.0	249.5	115.8	224.0	142.6	166.4	19.9	175.4	107.1	88.2	-	1				98.0	74.3	128.1	81.1	197 7	148.9	306.2	101.4	210.4	198.8	182.4	358.9	505.0	58.7	0.761	111.8	91.3	225.5	349.3	84.7	*224.0	8.181.8	220.9	208.9	111.3
on the B	Ϋ́.	195.6	5.36	1.911	116.4	134.0	10.01	140.7	_			160.1	82.6	89.5	18.4	112.0	108.3	160.0	2.09	196.3	119.8	147.6	74.5	132.7	122.2			1 260.6	52.1		*	* 90.0	-	*131.5				128.5		97.5
d based	**	*241.3	* 46.2		*115.6	#134.9	\$ 61.5	146.1	*167.7	6 9/	*105.2	#143.5	* 60.5	8 80 8	*133.3	110.7	4215.9	185. 4	* 53.8	*181 4	128 0	a 166 8	* 51.5	_	*103. €	122.3	Ц	Н	1 52 1	128 8	0 86 *	* 96 0	*147.0	1 * 91.5	s 61	* 87.5	_	254.4	-	* 66.5
(Estimated based	13	161.1	71.3	119.7	58.6	51.6	105.6	88.7	77. 4	97.0	* 93.0	* 88.9	* 79.8		* 76.9	* 40.8	* 40.4	*112.3	* 57.1	*101.6	_	*235.5		*165.	129,6			_	\$ 64.5	*2	. 85.5	. 90.0	-	*3			\$206.0	173.2		*104.0
	12	100.3	58.2	92.3	66.6	74.1			_	38 1	*135.7	2			116.8	*	63.2	L		100.6		79.9				65.7	1 97, 4		13.1		65.3	56.9	73.9	63.8	48.4	61.6	93.6	108.1		28.6
	1	190.9	86.7	171.0	107.6	126.1	76.6	108.3	83.8		85,6	63.3	61.9	58.3	65.5	59.0	6.14	73.5	50.9	107.0	83.5	184.1	60.7	113.2	107.6	#104.9	*101.1	*262.9	* 70.9		65.7	-	Н	*288.0	66.8	-	*	183.7		65.5
	10	72.1	48.4	67.6	51.6	56.1	*109.5	*124.5	*108.5		• 63.5	*101.6	#	*	* 50.8	-	1 * 104.1	*	. 42.	56.5	. 0 0	100.7	7	*			_	Ξ	* 55.9	-	*	#	a 98.0	*185.5	* 48.0	* 73.0	102.0	-		4 45.0
	٥	116.7	* 34.8	*146.1	* 71.7	* 81.4	2	_		•	* 58.3	*	* 83.8	*	#		\$210.8	*	-	s 76.2	-	*	_	*106	ш	* 38.9	192.8		\$.99	• 88.9	Щ	61.5	127.7	188.7			_	Ш		71.3
	œ	72.9	0.98	67.8	51.4	56.1	65.2	95.9	72.0	38.0	103.3	59.8	68.0	108.7	59.4			Ц		L	Ц	_	2	Ц	112.4	Ц	129.5		90.6	57.7	45.3	112.7	97.1	149.7	55.6		*105.3	121.0		1.09
	~	158.0	8.18	138.6	83.1	99.2	40.3	105.4	86.1			123.3		39.6				1			86 1				88.4		226.0		24.9	_	80.3			16.9		· 63.6	•	194.4	_	65.6
	ۍ.	137.8	9.09	123.1	76.1	89.8	39.8	95.0	78.7	44.7	83.8	55.6						68.0					52.4			1	202.8			106				187.1		* 52:0	*	122.2		58.2
	খ	83.2	43.0	75,6	51.1	58.5	45.8	63.1	7 6	30.6	51.2	36.6	35.7	33.5	38.0	33.8	26.9	43.0	28.8	64.1	ر 19	99.9	34.9	67.9	64.3	11.6	100.1	1.76.1	29.1	89.9	. 25.0	67.5	* 39.0	164 0	40.5	55.1	* 86.0	104.2	12.6	1.53.1
	64	89. 7	45.0	81.2	53.9	6.19	48.1	67.3	52.4	31	45.3	35.8	35.2	33.8	36.7	34.0	29.5	39.6	30.7	53.6	0.77	6.9	34.7	56.1	53.8	104.1	123.9	114.0	29.4	71.3	25.8	34.8	46.2	8.781	42.1	• 50.0	*159.5	* 89.0	* 35.0	* 73.5
St. No.	Yest	1947	48	49	20	ις:	55	53	25.4	55	56	5.7	5.8	59	09	61	29	63	₽9	65	98	. 67	89	69	20	7.1	72	73	7.6	7.5	92	7.7	7.8	79	80	81	82	83	84	85

Note) * shows actual measured value and others are interpolated values.

Table 5-19 YEARLY MAXIMUM DAILY RAINFALL AT EACH STATION (ESTIMATES BASED ON THE UPPER LIMIT CURVE OF 95% RELIABILITY ZONE)

î	70																			1												-								-
	<u></u>	116.01	64.3	105.5	73.6	82.5	67.5	88.8	72.0	51.2	64.6	55.3	54.9	53.6	56.3	53.8	48.8	59.4	50.9	73.3	63.4	100.2	54.5	75.0	73.5	134.4	160.0	147.2	49.7	93.4	9.9	54.6	65.5	217.8	61.5	90.0	106.7	*133.0	* 89.0	69.3
	16	307.8	141.0	275.0	172.5	201.8	102.5	213.1	178.1	111.0	188.1	131.1	127.9		136.2	121.3	97.6	155.3	103.8	241.3	180.3	331.5	125.0	257.5	242.6	221.9	450.4	642,0	80.6	238.6	136.5		276.9	437.8	101.3		a161.8	- 41	255.5	135.9
	ភ	219.6	105.8	197.5	127.9	148.0	78.1	155.7	131.7	84.4	136.0	178.1	91.1	77.4	87.7	122.9	118.0	178.0	69.1	220.4	131.7	163.6	82.7	145.5	134.5	121.3	2.16.2	296.0	61.0	127.4	* 97.0	• 90.0	• 125.0	*131.5	81.3	*196.0	*171.0	5		106.9
	\$1	*241.3	* 45.2			*134.9	* 61.5	*146.1	1.191	* 76.9	*105.2	*143.5	* 60.5	* 80.8	*133.3	*110.7	*215.9	*185.4	s 53.8	*181.4	*128.0	*166.6	* 61.5	*154.7	*103.4	128.0	233.7	321.7	56.5	134.9	₽ 98.0	a 95.0	*147.0	* 91.5	e 61.5	* 87.5	*273.0	7.69.7	*325.0	* 66.5
	ü	169.5	76.0	125.8	63.3	56.4	111.1	91.5	82.1	102.1		83.3	# 79.8	*112.5	* 76.9	40.8	* 40.4	*112.3	* 57.1	*101.6	* 75.2	*235.5	* 99.2	*165.6	*129.6		*197.9	*427.2	* 64.5	*226.1	* 85.5	* 90.0	*159.0	*384.0	67.1	*122.0	*205.0	182.4	*205.5	*104.0
	22	111.5	64.2		73.3	31.5	* 80.5	* 81.4	*107.1	a 38.1	*139.7	1.11	39.0	* 88.1	*114.8	*117.3	69 5	94.0	48.9	111.9	74.8	88.1	54.6	81.6	76.0	72.2	108.1	138.8	49.0	74.5	11.9	62.8	81.4	70.5	54.2	67.9	103.7	120.6	133, 5	64.7
	-	207.3	93.8		115.9	136.0	83.3	116.7	90.7	55.4	93.7	69.8	58.4	64.8	72.0	65.5	54.6	80.1	57.5	115.3	90.5	177.6	67.1	121.91	115.9	104.9	* 101. I	*202.9	* 70.9	136.9	12.2	* 95.0	* 78.0	*288.0	73.3	43.0	*164.0	199.3	121.2	71.9
	2	76.2	49.6	-		59.5	*109.2	*124.5	*108.5	* 45.8	* 63.5	4101.6	1.15 *	a 73.7	8 50 8	17.0	*104.1	98.9	6 23 •	59.8	0.0	106.9	33.1	0.0	* 97.5	*109.7	*111 3	*151.1	\$ 25.9	* 40.4	. 50.0	* 80.0	* 98.0	*185.5	0.8	13.0	102.0	120.3	131 0	* 45.0
	6		* 34.8	*146.1	• 71.7	83.4	*144.8	* 81.6	*129.5	91.5	* 58.3	*106.2	* 83.8	97.3	* 80.0	. 85.3	*210.8	* 88.1	. 51.3	• 76.2	a 91,5	*228.61	* 36.8	*106.4	#137.2	138.9	211.1	293.2	* 66.5	* 88.9	76.4	65.9	137.9		59.4			ı	128.8	76.1
	œ	102.1	67.0	95.0	73.4	79. &	91.4	135.3	100.8	58.2	146.2	84.3	95.3	154.4	83.7	98.3	71.1	115.1	75.9	6 6/	18.4	145.8	46.3	18.4	159.9	152.0	184.7	253.2	127.5	81.4	66.2	160.4	137.0	212.4	78.8	96.3	*105.3	172.9	189.	84.6
	7	172.0	71.4	152.6	1.6	108.8		115.6	94.5	52.0	98.3	135.5	58.1	45.6	55.0	86.7	83.1	135 4	37.8	112.1	94.5	122.7	50.4	107.6	97.0	118.1	250.7	360.3	31.2	127.6	88.1	68.6	108.4	84.4		* 63.6		215.2	217.7	72.4
	ľ	154.5	67.5	137.7	84.4	99.7	48.0	105.7	87.3	50.8	93.1	52.2	80.4	55.9	65.0	56.7	43.1	75.5	46.7	121.1	89.0	200.6	58.8	129.6	121.8	110.9	229.3	328.0	32.8	118.6	65.2	52.7	139.7	222.8	48.7	52.0	*136.0	136.6	128.5	64.9
	4	89.6	46.6	81.3	55.0	62. G	49.5	67.8	53.6	34. 1	55.2	40.1	39.2	37.0	41.5	37.3	30.5	46.6	32.3	68.8	53.1	108.0	38.4	72.9	69.1	* 75.6	≉100.1	136.8	32.7	89.9	* 25.0	51.3	* 39.0	*164.0	44.0	89.8	98.0	112.6	7 3	46.7
	8	112.3	56.1	101,2	86.5	76.3	59.6	83.2	64.7	41.8	56.5	46.4	45.8		47.3	44.8	40.3	50.6	41.4	66.2	55.1	95.5	45.3	69.2	66.4	131.6	158.2	144.9	40,2	88.2	37.0	45.4	57.5	217.8	52.9	* 50.0	*159.5	* 89.0	* 35.0	* 73.5
	(大) (大)	1947	48	49	20	51	52	53	54	55	56	57	58	59	09	19	62	63	64	65	99	67	88	63	0,	1	72	73	7.4	7.5	9/	11	8)	79	08	Г	82	83	84	85
Ł		است		1		لـــا		نـبا		-					ليما	اـــا	نـــا		_			<u> </u>		L			 !		_	_	.		'	۰	<u></u>			J.,		 J

Note) *shows actual measured value and others are interpolated values

TABLE FOR WEIGHT IN THIESSEN METHOD

Table 5 - 20

Name	Catchment		Divisional Area and Weight in Thiessen Method for Area of Studies Dam Site	and Weigh Dam Site	ıt in Thi	essen Me	thod for	Each Catchment	chment	Division Area of	al Area Each Wat	and Weig	al Area and Weight in Thiessen M Each Water Level Gauging Station	Divisional Area and Weight in Thiessen Method for Each Catchment Area of Each Water Level Gauging Station	thod for	Each Cate	hment
China W	/ Area Area	i	Dam am Area	Nenggir Upstrea	i Dam m	Wenggir ~ Dabon		Nenggiri and Down of Dabon ~ Guille	Dam istream ig Dam mærd	Tualang Upstream	ı Area	Berlam Vpstrea	m Area	Bert	~ Be 50	Tualang and Downstream of Dabong ~	and am of urd
238.1 0.096 238.1 0.096 238.1 0.096 251.2 0.070 755.4 0.202 258.1 0.096 257.7 0.097 755.4 0.202 258.2 0.096 257.7 0.097 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.074 755.4 0.075 <th< td=""><td>ging</td><td></td><td>Ж</td><td>(kd)</td><td>≱</td><td>A (kgl)</td><td>1 1</td><td>(krd)</td><td>æ</td><td>(是)</td><td>A</td><td>(로)</td><td>Æ</td><td>A (kd)</td><td>漆</td><td>4 (E</td><td>5c</td></th<>	ging		Ж	(kd)	≱	A (kgl)	1 1	(krd)	æ	(是)	A	(로)	Æ	A (kd)	漆	4 (E	5c
795. 5 0.726 176. 4 0.202 176. 5 0.724 0.007 755. 4 0.214 146. 3 0.726 74. 1 0.0202 74. 1 0.0202 74. 1 0.0207 74. 1 0.014 74. 1 0.0207 74. 1 0.0207 74. 1 0.0207 74. 1 <td></td> <td>238. 1</td> <td>0.096</td> <td>:</td> <td></td> <td></td> <td>0.000</td> <td></td> <td></td> <td></td> <td>0.096</td> <td></td> <td>:</td> <td></td> <td></td> <td></td> <td></td>		238. 1	0.096	:			0.000				0.096		:				
146.5 0.726 14.1 0.020 44.2 0.027 44.2 0.027 44.2 0.027 44.2 0.027 44.2 0.020 24.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.4 0.027 58.5 0.011 0.027 <t< td=""><td></td><td></td><td></td><td>27.7</td><td>0.007</td><td></td><td>0. 202</td><td></td><td></td><td></td><td></td><td>27.7</td><td>0.007</td><td></td><td></td><td></td><td></td></t<>				27.7	0.007		0. 202					27.7	0.007				
146. 3 0.059 74. 4 0.020 848. 9 0.227 146. 3 0.059 284. 4 0.072 588. 4 0.181 1.260. 0 0.337 84. 7 0.023 1.46 23.5 0.011 1.560. 0 0.319 84. 7 0.024 5.0 0.002 1.58 0.004 547. 2 0.146 23.5 0.011 1.58 0.004 547. 2 0.146 23.5 0.011 1.58 0.004 547. 2 0.156 0.014 285. 2 0.115 1.58 0.004 547. 2 0.146 285. 2 0.115 1.58 0.004 547. 2 0.156 0.149 285. 2 0.115 1.58 0.004 55. 5 0.015 1.58 0.004 547. 2 0.156 0.156 0.004 1.58 0.016 0.156 0.016 0.004 0.004 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0.016 0		1795. 5					0.020				0.724				0.021		
5.0 1260. 0 0.337 84.7 0.023 23.5 0.011 1260. 0 0.318 84.7 0.024 5.0 15.8 0.004 547.2 0.146 23.5 0.011 5.0 0.002 5.0 0.004 547.2 0.146 23.5 0.011 5.0 0.002 5.0 0.004 547.2 0.149 285.2 0.115 7.0 0.004 5.0 0.004 5.0 0.004 5.0 0.004 5.0 0.004 5.0 0.004 5.0 0.149 285.2 0.115 7.0		146.3	0,059	74.4	0.020		0. 227				0.028	284. 4	0.072				
0.002 56.5 0.0146 23.5 0.011 5.0 0.002 15.8 0.004 547.2 0.146 23.5 0.011 5.0 0.002 15.8 0.004 56.5 0.015 378.8 0.177 5.0 0.002 0.002 56.5 0.015 378.8 0.177 5.0 0.149 285.2 0.115 0.004	•			1260.0	0.337		0.023					1260.0	0.319		0.024		
0.002 56.5 0.015 378.8 0.177 5.0 0.002 56.5 0.015 378.8 0.177 5.0 0.002 5.5 0.015 5.0 0.004 5.0 0.005 0.015 0.149 285.2 0.115 0.004				15.8	0.004		0.146	23. 5	0.011				0.004	547.2		23.5	0.011
0. 113 1 320.6 0. 149 285.2 0. 115 1 <td></td> <td>5.0</td> <td>0.003</td> <td></td> <td></td> <td></td> <td>0.015</td> <td></td> <td>0. 177</td> <td></td> <td>0, 002</td> <td></td> <td></td> <td></td> <td>0.016</td> <td>378.8</td> <td>0.177</td>		5.0	0.003				0.015		0. 177		0, 002				0.016	378.8	0.177
0.004 8.0 445.1 0.207 9.9 0.004 8.9 0.004 8.9 0.004 8.9 0.004 8.9 0.004 8.9 0.004 8.9 0.004 8.9 0.004 8.9 0.004 9.9 0.004 9.9 0.004 9.9 0.004 9.9 0.004 9.9 0.004 9.9 0.005 9.0		279.2						320.6	0.149	285. 2	0, 115			*		314.6	0.147
1.000 3740.0 653.1 0.175 115.6 0.054 9 9 653.1 0.175 115.6 0.054 9 9 1		9.9							.0. 207		0.004					445.1	0.208
1.000 3740.0 1.000 3740.0 1.000 3740.0 1.000 3740.0 1.000 3740.0 1.000 31.8 719.0 0.335 1.000 2362.0 1.000 3740.0 1.000 2146.0 1.000 2480.0 1.000 3350.0 1.000 3530.0 1.000						653. 1	0. 175		0.054					653. 1		115.6	0.054
1.000 3740.0 1.000 3740.0 1.000 3740.0 1.000 3740.0 1.000 3740.0 1.000 296.5 0.073 1.000 2480.0 1.000 2350.0 1.000 3550						1.4			0.335		:					713.0	0.336
1.000 3740.0 1.000 3740.0 31.8 0.003 143.4 0.067 0.067 0.053 130.6 0.035 <t< td=""><td></td><td></td><td></td><td>:</td><td></td><td></td><td>0.079</td><td>:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				:			0.079	:									
1.000 3740.0 1.000 3740.0 1.000 3740.0 1.000 2146.0 1.000 2480.0 1.000 3950.0 1.000 3530.0 1.000							0.008	143, 4	0.067						0,009	143, 4	0.067
1.000 3740.0 1.000 3740.0 1.000 2146.0 1.000 2480.0 1.000 3950.0 1.000 3530.0 1.000				2362. 1	0, 632	130.6	0, 035						0.598		0. 037		
		2474.0			1. 000	3740.0	1. 000	2146.0	1.000	2480.0	1. 000	3950.0	1.000	3530.0		2140.0	1.000