REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

JENEBERANG RIVER FLOOD CONTROL PROJECT (PHASE Π)

DATA BOOK (Hydrology)

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JAPAN INTERNATIONAL COOPERATION AGENCY

MARCH 1982

国際協力事	業団
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Preface

. The data compiled in this data book are prepared for the JENEBERANG RIVER FLOOD CONTROL PROJECT (PHASE II) which is conducted by the Government of Indonesia under the technical cooperation of the Japan International Cooperation Agency, JICA, in a period from February 1981 to August 1981

The data book includes the following 7 information tabulated below ;

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1. Meteorologic data

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_Comments

There are two P.M.A's meteorologic stations in the study area; i.e, Bonto Sunggu and Bonto Bili stations. The Bonto Sunggu station is located in the southern part of the Sungguminase bridge and has four years records. The Bonto Bili station is located at just downstream of the proposed Bili-Bili dam site, however, available period of the data is less than one year. Regarding to the locations, they are shown in the location map of rainfall stations (See 2. Rainfall data).

The installed instruments works properly, however, the maximum thermometer of Bonto Bili is improper.

Mean monthly figures of the meteorologic data are compiled in Table 1.1 in which the figures at Bonto Bili are estimated on the basis of correlation between Bonto Sunggu. The correlations utilized are shown in Fig. 1.1.

Page

Table. 1.1 Mean Monthly Meteorologic data

(A) Bonto Sunggu atation

I t e m	Unit Jan.	_	Feb.	Mar.	Apr.	May	Jun.	Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec. Mean	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
Temperature (7 a.m)		26.5	26.1	26.4	27.1	26.7	26.9	26.1 26.4 27.1 26.7 25.9 26.1 26.2 26.8 27.3 27.7 26.9 26.7	26.2	26,8	27.3	27.7	26.9	26,7
(l'ax.)	00	29.6	29.4	29.2	31.5	32.0	31.1	29.4 29.2 31.5 32.0 31.1 31.0 32.0 33.3 33.9 32.0 30.0 31.3	32.0	33.3	33.9	32.0	30.0	31.3
(Mtn.)		23.3	22.8	22.4	22.7	21.4	22.6	22.8 22.4 22.7 21.4 22.6 21.1 20.3 20.3 20.8 22.7 23.4 22.0	20.3	20.3	20.8	22.7	23.4	22.0
Reletive humidity	<i>6</i> 2	6.66	94.3	94.0	92.9	92.7	92.3	94.3 94.0 92.9 92.7 92.3 90.0 91.9 88.5 87.6 89.8 93.0 91.7	91.9	88.5	87.6	89.8	93.0	91.7
Wind Velocity	ш/в	1.3	0.9	0.7	0.6	0.7	0.8	0.9 0.7 0.6 0.7 0.8 0.7 0.8 1.0 1.2 1.1 1.1 0.9	0.8	1.0	1.2	1.1	1.1	0.9
Sun-shine hour	hr.	4.2	4.4	5.6	7.0	7.5	5.9	4.4 5.6 7.0 7.5 5.9 7.7 9.2 10.0 8.9 5.8 4.2	9.2	10.0	8.9	5.8	4.2	6.7
	mm/day	3.9	3.9	4.5	5.1	5.1	5.2	3.9 4.5 5.1 5.1 5.2 5.8 6.8 7.9 8.0 6.5 5.8 5.7	6.8	7.9	8.0	6.5	5.8	5.7
			-											

(B) Bonto Bill station	ποτι					-								
: t e B	Unit Jan.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. Nov. Dec. Mean	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
Temperature (7 a.m)		22.6	22.2	22.5	23.2	22.8	23.0	22.6 22.2 22.5 23.2 22.8 23.0 22.2 22.3 23.0 23.4 23.8 23.0 22.8	22.3	23.0	23.4	23.8	23.0	22.8
(Max.)	ి	25.7	25.5	25.3	27.6	28.1	27.2	25.5 25.3 27.6 28.1 27.2 27.1 28.1 29.5 30.0 28.1 26.1 27.4	28,1	29.5	30.0	28.1	26.1	27.4
(Min.)		23.3	22.8	22.4	22.7	21.4	22.6	22.8 22.4 22.7 21.4 22.6 21.1 20.3 20.3 20.8 22.7 23.4 22.0	20,3	20.3	20.8	22.7	23.4	22.0
Relative humidity	R	93.5	94.5	94.0	92.2	92.5	92.0	94.5 94.0 92.2 92.5 92.0 89.5 91.6 87.5 86.5 89.0 92.8 91.3	91.6	87.5	86.5	89.0	92.8	91.3
Wind Velocity	m/8	0,2	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 0.2 0.2 0.2 0.1	0.1	0.1	0,2	0.2	0,2	0.1
Sun-shine hour	лг.	3.6		3.8 5.0 6.5	6.5	7.0	7.0	7.0 7.0 7.2 8.9 9.7 8.5 5.4 3.6 6.4	8,9	9.7	8.5	5.4	3.6	6.4
Evaporation	mm/day 4.3	4.3	4.3	5.0	5.6	5.6	5.7	4.3 5.0 5.6 5.6 5.7 6.5 7.7 8.9 9.0 7.3 6.5 6.4	7.7	8.9	0.0	7.3	6.5	6.4

Table. 1.2 Monthly mean meteorologic data at Bonto Sunggu station

	(A)	Temj	perati	ure at	7 e.	m			• .		·	(0	'C)
Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1977		~		-			-	26.0	26.7	27.0	27.9	26.9	
1978	26.7	26.2	26.7	26.9	27.5	26.5	26.6	26.7				26.5	26.8
1979	26.0	26.1	26.7				24.8						
1980	26.7	26.1	25.7	27.0	26.0	27.3	26.8	26.3	26.5	27.5	27.6	26.4	26.7
Mean	26.5	26,1	26.4	27.1	26.7	26.9	26.1	26.2	26.8	27.3	27.7	26.9	26.7
	(B)	Mex	imum 1	emper?	sture	•		•				(^c	ʻC)
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Kean
1977	-	-	-		-			32.4	34.2	35.4	33.7	30.6	
1978	29.9	29.2	30.4	31.2	31.6	30.2	30.2						30.8
1979	29.3	29.3	30.3				31.0		the second s	المتحاد البياني المراجع المجمع	and the second	A REAL PROPERTY AND A REAL	
1980	29.7	29.8	27				31.7						
Mean	29.6	29.4	29.2	31.5	32.0	31.1	31.0	32.0	33.3	33.9	32.0	30.0	31.3
	(0)	Mini	imum I	emper?	ature	}						(°(2)
Year	Jan.	Feb.	Mar.	Apr.	Nay	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1977		**		**		-	-	19.5	19.1	18.5	22.0	23.2	
1978	23.5	23,2	23.0	22.6	23.4	22.7	22.8	21.8	21.7	21.8	22.8	23.3	22.7
1979	22.7	22.8		23.0	21.2	22.5	18.6	19.1	20.7	21.2	23.0	23.4	21.8
<u>1980 -</u>	22.7	22.3		22.4		22.5		20.6	أسيني بواعراه بالمتجمعات أتريا فأ	21.6		23.5	
Mean	23.3	22.8	22.4	22.7	21 1	inn r		i		00 0	00 0	nn 1	22 0
						22.0	21.1	20.3	20.3	20.8	22.1	23.4	22.0
	(D)	Rele	······································	humid	بود د	[22:0]	21.1	20.3	20.3	20.8	[22.]	(9	-
Year	·····	· · · · · · · · · · · · · · · · · · ·	tive		Lity		ан ал ан ан				1		5)
Year 1977	·····	· · · · · · · · · · · · · · · · · · ·	tive	humid	Lity		ан ал ан ан	Aug.	Sep.	Oct.	1	(9 Dec.	6) Mean
	Jan.	Feb.	Mar.	humid Apr.	ity May	Jun.	Jul.	Aug. 93.0	Sep. 89.0	Oct. 86.0	Nov. 92.0	(9 Dec. 96.0	6) Mean
1977	Jan. - 95.0	Feb. - 97.0	Mar. 	humid Apr.	ity May 96.0	Jun. - 96.0	Jul. - 95.0	Aug. 93.0 96.0	Sep. 89.0 91.0	Oct. 86.0 89.0	Nov. 92.0 92.0	(9 Dec. 96.0 93.0	6) Mean - 94.3
1977 1978	Jan. - 95.0 94.0	Feb. - 97.0 94.0	Mar. 95.0 94.1	humid Apr. - 96.0	ity May 96.0 90.0	Jun. - 96.0 90.0	Jul. - 95.0 87.0	Aug. 93.0 96.0 90.4	Sep. 89.0 91.0 87.1	Oct. 86.0 89.0 88.4	Nov. 92.0 92.0 85.0	(9 Dec. 96.0 93.0 90.0	6) Mean - 94.3 90.1

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-Continued-

(E) Wind velocity

Year	Jan.	Feb.	Mar.	Apr.	Ney	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Meen
1977	**	***	***			100.	-	77	100	124	107	90	-
<u>1978</u>	118	74	53	53	57	61	53	64	73	92	83	102	74
1979	113	75	62	54	66	61	48	62	87	100	88	114	78
1980	108	93	69	59	63	77	81	82	90	102	87	86	83
Mean	113	81	61.	55	62	66	61	71	88	105	91	98	79

(F) Sun-shine hour

	(F)	Sun	-shin	e hou	r						()	iour)	
Year	Jan.	Feb.	Mar.	Apr.	Kay	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1977	- 2007		-	**	-			9.6	10.2	10.5	7.6	4.2	
1978	4.3	4.8	5.8	7.0	6.8	6.7	5.7	7.8	7.0	8.1	0.3	4.2	5.7
1979	4.7	4.8	4.8	7.4	7.6	8.3	8.4	10.1	8.7	8.3	7.4	4.5	6.7
1980	3.5	3.5	6.3	6.7	8.2	7.6	9.0	9.1	9.9	8.6	7.9	3.8	7.0
Mean	4.2	4.4	5.6	7.0	7.5	7.5	7.7	9.2	10.0	8.9	5.8	4.2	6.7

		(G)	Eve	porst:	ion							("	m /dej	7)
	Iear	Jen,	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	······		Mean
	1977		~	***	-		*	~~	via .		8.8	5.9	7.1	
	1978	-	3.9			-	~	-	-	~			***	
	1979			4.3	5.1	5.1	4.7	5.5	6.6	7.6		~~		
	1980	3.9		4.7		5.0	5.6	6.1	6.9	8.2	7.2	7.0	4.5	
1	lean	3.9	3.9	4.5	5.1	5.1	5.2	5.8	6.8	7.9	8.0	6.5	5.8	5.9

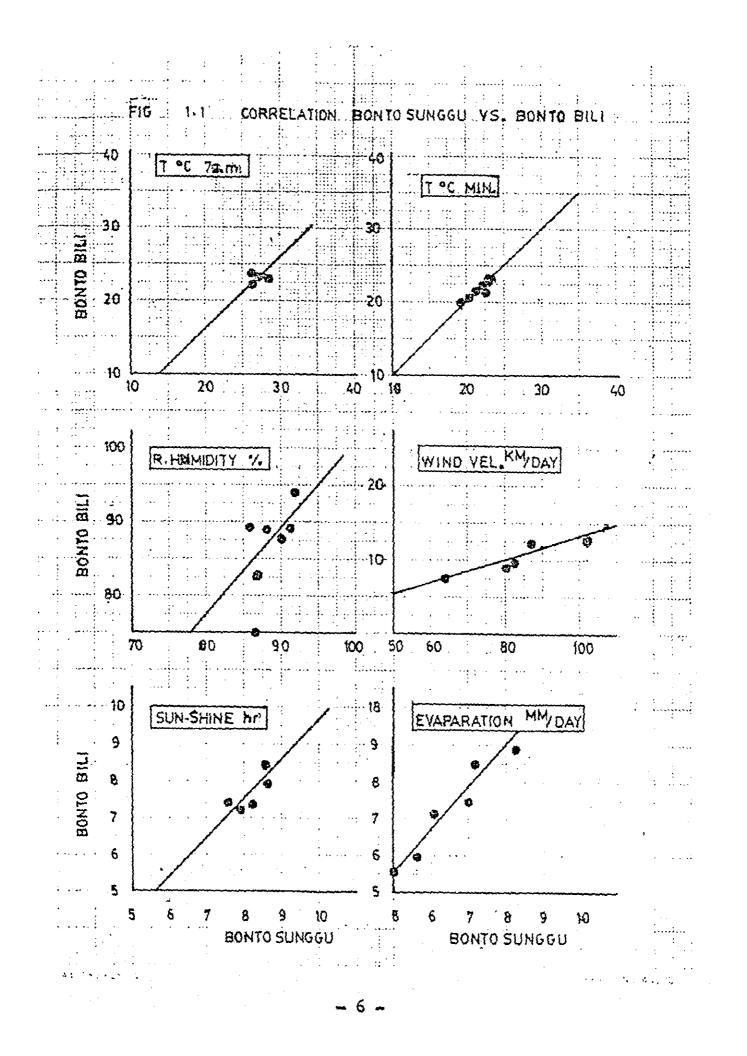
(Km/day)

Table. 1.3 Monthly mean meteorologic data at Bonto Bili station.

3													
1	(A)	Ten	perst	ure a	t 7 e.	. 111						(°0)	ļ
Yeer	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
980			-			23.3	-	22.3	22.4	23.4	23.9	-	
1	(3)	Nez	isum '	lempe:	rstur	2	······································					(°0)
feer	Jan.	Feb.	Mer.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1980						24.7	23.2	23.9	24.6	24.8	24.8		24.3
	(-)		•										
<u>ي</u> 1	(0)		}	<u>lempe</u> :	· · · · · · · · · · · · · · · · · · ·	3 					·····	(°C)
Year	Jan.	₫eb.	Mer.		Liey	Jun.	Jul.	Aug.	Sep.		Nov.	Dec.	Mean
1980		-		22.4	22.3	21.8	21.0	20.6	20,1	22,0	22.9		<u> </u>
	ረክኑ	77	a 4. •	1 1								. 6	
	(D)	5	1	humi							T	0°)	······
Year	Jan.	Feb.	Mar.	Apr.		Jun.	Jul.	Aug.	Sep.	h	Nov.	Dec.	Meen
1980					93.6	89.0	89.0	86.0	75.0	83.0	88.0		
	(9)	117-2	۳ مدید آ	ر بنام کار کار اس		, .					. Kn	1.	
Yeer	(E) Jan.	Feb.	1	ocity	1				[ł	¹ /day	{ }
		260.		Apr.	May	Jun.	Jul.	Aug.	Sep.		{	Dec.	Mesn
080	[1			17.5	1	9.3	10.0	12.0	13.0	12.0	<u> </u>	
1	(F)	Sun	-shin	e hou:	**						(2	10ur)	
Year	Jen.	****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Apr.	Mev		Jul.	Aug.	Sep.			1	
1980	-			<u> </u>	7.4	7.4	8.6	8.7	9.6	Oct. 8.4	Nov.	Dec.	Mean
	J	h	!		<u>} </u>	· · · · · ·	10.0		1	(0.4	11.0	<u> </u>	
	(G)	Eve	.porat	ion							(100	^m /dey)
Year	Jan,	Feb.	blar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Meen
1980	-	1-	-	-	-	5.4	6.0	7.1	8.9	8.5	7.5] -	-
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2. Monthly rainfall data

Comments

Rainfall stations are almost placed in the coastal area and only one station is installed in the mountanious area of the Jeneberang river basin; i.e. Malino station.

The monthly rainfall records at 24 stations are collected, however, the record length is rather short. Their locations are shown in Fig. 2.1 and the isohystal map of annual rainfall is given in Fig. 2.2

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an ann bha an	a da a constante da		ភ្នុងស្វាន	2.1	Mont	hly ne	Monthly mean ruinfall	1	in and arround study area	arroun	a stud	y area	1	(mm)	
	REF.NO	STATION	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
		Salojirang	858	702	586	241	1.70	117	78	31	87	189	352	682	4093
	2	Batu Basel	642	388	629	259	215	119	67	24	81	73	403	577	3477
	4 /	Ujung Pandang	688	513	384	109	67	61	0	¢.	0	ſ	37	640	2506
	ŝ	Senre	747	730	394	274	146	87	29	21	. 56	141	328	561	3514
	ر و	Sunggum1 na 88	679	596	464		113	55	C A		39	76	242	614	3083
	7	Boronglos	789	720	333	215	136	74	14	23	31	118	183	563	3201
	Q	Kampili	675	467	298	138	82	79	42	22	ب ة. در	95	202	421	2564
	6	Intake Bili-Bili	835	798	405	255	°139	77	77	30	32	65]	340	623	3676
		Malino	836	754	632	419	268	180	229	44	67	121	456	.169	4700
	12	Julu Bort	634	677	433	179	106	44	22	9	36	43	178	441	2802
	14	Mandalla	789	713	311	94	119	66	30	12	21		165	696	3068
8	15	Bontokenst (BB IV)	539	578	355	117	65	37	21	9	15	62	157	499	2451
	16	Сапрадауа	974	608	388	131	186	54	32	11	25	56	149	656	3270
	17	Maccini Baji	777	674	417	176	108	48	27	16	55	64	208	436	3002
	18	Kalabajeng	677	658	387	191	157	87	21	12	41	56	179	611	3179
	19	Tamelayang	848	439	387	175	115	62	23	12	4.2	56	174	465	2798
	20	Bonto Salang	799	803	439	128	58	51	21	9	28	59	178	566	3136
	21	Bonto Langkaga	819	609	332	133	19	61	14	m	6	16	125	509	2707
	22	Sanro Bono	531	438	196	138	65	54	14	5	1	23	65	304	1844
	23	Tetebatu Cambaya	1089	964	521	227	145	101	24	15	27	66	241	831	4278
	24	Palleko (BPL II)	869	541	247	196	83	41	26	14	22	15	175	443	2672
	25	Bajang (BPL V)	775	522	307	167	107	42	13	Ś	37	8	213	459	2653
	26	Jenemarung	887	793	1114	234	11	78	26	24.	24	243	225	396	4115
	27	Lengkese	718	574	177	106	112	44	32		4		-+1	376	5
4															

	Ste	Station:	Salojirang	rang	•	RIVET	r beain	1 : Maros	08		Ref	I. No.	1	(間)
	Yoer	Jan.	Feb.	liar.	Apr.	May.	Jun.	Juli	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1971	476	580	632	157	111	297	49	25	66	507	162	609	3671
	1972	1136	524	339	67	28	Ø	0	12	0	σ	98	361	2574
• .	1973	837	129	446	395	155	81	102	59	208	55	858	628	3953
	1974	458	806	581	123	134	35	123	62	158	285	493	603	3878
	1975	518	313	532	516	120	97	145	48	230	351	527	726	4123
	1976	922	602	460	11	61	156	9	0	0	293	427	704	3639
	1977	1606	1873	605	413	260	213	0	44	0	0	139	601	5754
	1978	873	870	749	280	349	231	374	43	229	216	422	920	3064
-	1979	1286	770	1120	313	340	144	2	0		59	184	665	4884
· .	1980	595	664	474	162	37	9		11	0	145	158	761	3014
	Mean	858	702	586	241	170	117	78	31	87	189	352	682	4093
9														
	Sta	Station i	Batu	Basai		RAVer	basin	I Marce	80		Ref.	f. No.2	(冒)	
	1971	383	551	602	125	168	292.	108	Ē	. 62	617	250	452	3630
· ·	1972	1051	324	812	214	0	0	0	0	0	10	122	313	2846
	1973		122	241	427	943	50	118	65	200	91	651	465	3876
	1974	1	659	369	138	ĉ	36	129	36	83	356	348	318	2921
	1975	1	264	374	401	113	178	133	10	115	255	611	617	3527
	1976		418	503	36	40	26	3	0	0	206	472	548	3144
	1977		129	468	611	187	241	õ	25	0	0	330	641	13464
	1978		427	282	275	335	277	186	68	258	32	490	792	4103
	1979	730	418	480	208	265	49	4	0	+	59	435	622	13271
	1980	670	731	409	268	132	ñ	0	40	17	109	300	792	13471
	Meen	64.	388	629	259	215	119	67	24	81	73	403	577	3477

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STRT10D:		1 Jung	Pandang	60	RIT	River basin	**	Tallo			Ref.	No.4	
Year Ja	1 .		Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1971													
1972													
1973								,			•		
1974													
1975													
1976												,	
1977											-		
1978													
1979	Ē	537	297	109	107	106	0	0	0	6	176	574	1
	688	488	471	110	26	16	٥	-4	0	0	97	706	2606
e	688	513	384	109	67	61	0	2	0	5	37	640	2506
			• •					•					
Station	on i	Senre			River	er basin		Tello			Ref.	No.5	(III)
1971						1			•		,		
\$972	-												
1973					-								
1974													
1975	\$	1	ł	\$	\$	ł	i	70	170	413	673	489	1
ļ	869	655	567	ಜ	0	42	ð	42	0	126	356	389	3108
	1100	1535	411	489	139	122	0	13	.0	0	233	740	4782
ļ	426	417	340	271	281	150	146	23	165	37	284	761	3301
<u>}</u>	580	479	402	251	274	104	0	0	٥	18	106	342	2556
<u>}</u>	760	563	246	265	33	15	0	ED	o	248	316	642	3096
Ļ	575	1000	FUC	120	146	R7	00	10	56	141	208	561	15514

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Monthly reinfall in and arround study area 2.2 7.3510

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	rable 2.2	2.2	Mont]	hly ro	hly mainfall	in an	in and arround	und study	idy area	3B	~		2
9 + (f		Kamol			River	er basin		Jene berang	mg	Ref	F. No.8		
	ù B.N.	- q 0 -	iar.	Apr.	iay:	Juni	Jul.	Aug	Sep	Oct.	lov.	Dec.	Potel
2	I	•	l 	134	72	141	63	3	1	1		385	1
225	935	494	383	69	15	1	1		•	1	4	1	I
62.0	6. I		1	; t	1	_1	ŧ	1		1		I	
) t	· •	1	1		.1	, k	. 1	44	203	327	452	1
* 4 ~ 5 ~ 5	295	345	310	181	50	24	82	et Et	69	154	326	513	2678
	, 45A	- - - -	176	90	24	14	. α	• 0	0	98	255	309	2125
017	مرب م76	618	128	107	12	82	0	-4	0	0	84	-293-	2441
fr	470	368	209	212	232	170	140	4	109	44	.333	558	2906
210	647	627	385	84	135	120	0	28	13	46	69	507	2657
0801	674	419	330	86	50	-0	0		14	58	18	249	1907
มือตา มือตา	. 675	467	298	138	82	67	42	22 ·	43	95	202	421	2564
1	- + - +	Tntake	- B111-	-3111	RİV	River tasin	••	Jeneberang	gue	Re	r. No.	- 王 	
	1		1									-	
1971			; 	 	-				•]		! ;		
1972	1			-						 			
1973		; ; ;					1	•					
1974		:	, T			•						000	
1975	1	1	1	· 1	1	1	;	1	1	N: 1. 1	0	220	
-	746	496	390	49	13	78	80	55	: 0 	188	264	401	2820
	1177	1527	174	442	36	81	0	24	0	0	258	540	4459
			350	209	379	101	303	52	150	134	322	664	3858
	210	575 675) 	6V2	· ~	122	0	0	-	0	239	745	3587
	764	202	696	225	102	0	0	15	0	13	339	190	3398
	+ u - r		, C	י ג י ג	139	. 77	77	i N N	32	65	340	623	3676
hean	C(8	061	21	1.1	2	-	-						

- 12 -

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•

	11 (mm)	Dec. Total	478 5291		2		615 4284	- 805	811 -	987 4767	671 7039	1124 5085	694 4700		-{					494 1893	236 1986	273 2623	534 2923	541 3023	566 2590	
5)	Ref. No.1	Nov. I	841 /	i	730	5	472 6	187 5	275 8	446 9	170 6	610 11	456	P. Wo. 12	- 5	· ·				471	47	76	180	121	168	1 821
area (æ	Oct.	281	d	16	1	194	1	0	155	70	252	121	4 a d	21					135	27	0	28	12	55	64
study an	ายมส	Sep.	110	0	241	8	23	ł	0	154	4	0	67	- - - - -		• •				172	٥	0	32	6	5	36
	Jeneberang	Aug	2-	0	112	1	64	ł	41	111	٥	12	44	Ronda						24	0	14	44	0	0	n
rathight in and arround	basin :	Jul.	182	0	243	ł	63	t	14	272	26	32	229	ha ei n						51	5	0	72	0	. 0	22
L IN A	River ba	Jun.	383	0	88	1	205	. 1	261	237	134	129	180	84 mar 48		```				12	6	58	60	114	10	44
THIET.	R	May.	274	63	292	ł	275	287	294	236	278	488	268	å						81	61	36	307	87	64	106
r y Luz		Apr.	284	221	440	1	573	228	475	371	287	868	419							456	25	202	220	33	134	179
KINA NOT		Mar.	886	273	491	1	558	837	663	378	821	758	632	- - -	7.7.00					:	512	250	381	669	351	433
2,2	Malino	Feb.	889	566	315	1	621	783	1463	655	589	908	754		מדמר					1	408		460	100	496	677
Table	Station:	Jan.	676	1624	532	1	621	861	1	765	171	835	836	342425 S	- 1	, ,				ł	656	394		743	741	634
	Sta	Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	Mean	4 .0	122	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	Mean
	•			-	}		·		·		- - - -	· . ·	کـــــــ	13	, 	•				••••••••••••••••••••••••••••••••••••••						~~~~

- 13 -

Zear Jan. 1971 1 1 172 1 1 373 1	י ממיעומיייה	2.12		1		-			10770	4- * OF * FOF		
1971 1372 1373 1974	—	Liar.	Apr.	May.	Jun.	. Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1 372	<u>.</u>											
1 373										· •		
1974										•		
	•											
- 5761	1 1	8	0	40	60	45	25	105	253	343	663	1
1976 745	457	378	4	75	19	0	0	0	41	301	700	2679
	1307	238	159	55	72	0	ĸ	0	0	66	401	3102
1	588	301	201	434	96	135	38	21	10	123	768	3260
	498	278	47	147	123		0	0	m	108	623	2696
1	712	359	154	*	23	c	0	0	0	49	1020	3309
d	713	311	24	119	66	£ €	12	5	52	165	696	3068
Station	: Bonto	Kassi		River	II DESIN		Weat Con	Constal e	erea	Ref.No.15	· }	(um)
1721					•			•				
4972												
1973			}									
1974												
1975 ~	1	1	170	45	39	18	27	73	334	289	536	•
1976 276	5 295	334	2	46	24	10	0	٥	12	255	524	1778
		383	144	35	84	0	0	0	0	\$	248	•
	430	334	175	166	47	98	~	14	25	108	646	2441
<u>;</u>	<u>.</u> 1	361	33	80	24	0	0	0	0	66	472	1945
:	{ ;	359	174	15	0	0	0	0	0	30	573	2231
		355	117	65	37	21	9	15	62	157	.499	2451

Sta	Station:	Campagaya	aya B			River	baaln	t yeat	oocatal.	BUTA LA	a Ref.	¥0.*	16 (mm)
Year	۰ I	Pab.	blar.	Apr.	Kay.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1971													
1972				and the second se			and the state of t	And Andrewson (1999) - Andrewson (1999)					
679													
1974	-												
1975	ł	8	5	ĩ	27	74	36	4 53	137	304	339	727	1
	1041	346	335	2	a.	14	n	0	0	17	240	451	2490
	1736	1337	325	149	43	14	C	5	0	0	29	324	4022
1978	427	284	338	249	202	57	119	5	8	2	110	1468	2886
1979	629	605	363	34	206	96	0	0	Q	0	153	550	2846
1980	633	466	531	212	4	7	0	4	0	8	18	416	2502
Rean	97.4	603	388	131	86	54	32	11	25	56	149	656	3270
Stat	i noli	Station i Macoini	1 Baji			ravla	basin	t Gumanti	141		Ref. 1	No. 17	
1971	-					3			*	**		•	· · · · · · · · · · · · · · · · · · ·
1972													
1973													,
1974													
1975	5	1	ł	398	93	16	78	46	255	261	475	709	•
1976	761	416	54	***	28	9	m	o	C	76	343	351	2448
1977	959	1312	318	226	õ	65	٥	*	0	0	104	178	3206
1978	588	537	N	1-	370	5	95	37	LL	44	163	686	3092
1979	918	609	*6*	1	67	131	•	0	a	0	66	(V) *	1892
1980	634	464	591	160	58	0	0	0	0	•	95	650	2097
			1. F	1	500	Č.						125	2003

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2.2 Monthly rainfall in and arround study area (8) Tahle

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		The second secon	ロシンショ	and the second se							TAN		
Yaar	Jan,	Feb.	Mar.	Apr.	Eay.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1571		~~~~~~											
1972													
1973											•		
1974													
1975	8	1		449	61	85	12	22	170	244	326	768	1
1976	627	432	564	42	353	168	10	0	0	54	252	348	2852
1977	1218	1270	317	167	47	93	0	â	0	0	100_	302	3537
1978	567	495	224	167	298	58	92	25	76	29	225	713	2969
1979	810	515	393	91	145	104	0	0	0	Β	105	637	2908
1980	672	574	433	228	36	\$	6	O	0	0	67	894	2922
Meen	779	658	387	191	157	87	21	12	41	56	179	611	3179
ŝta	Station i	i Tenelayang	yàng			River 1	basin	r Gumanti	141		Rat	10.	19 (m
1971	•					1			```				
\$972													
1973													
1974													
1975	1	1	ſ	332	78	53	22	22	170	236	ł	575	3
1976	759	357	380	37	53	5	3	0	0	39	216	413	2778
1977	1299	193	292	147	55	8	0	0	Ø	0	207	204	2410
1978		522	328	165	297	51	105	35	67	27	232	650	2974
1979	962	534	475	513	154	201	0	0	m	22	167	650	3191
1980	723	585	456	253	83 *	14	0	0	0	න	47	294	2428
Maan		(; ; ;	1							-		•	

-	1 1 37 2	Static 1: Bonto S	Salang		River	pasin	: Gummant1	int1		Rof.	No. 20		_
Yeer	Jen.	F81.	ERT.	Åpr.	kay.	Jun.	Jul.	Aug.	Sep.	loct.	Hov.	Dec.	Total
1971					5 5 6	> - -	•) 			
1972													
573													
416							·						
1975	1		1	341	10	44	40	22	132	305	408	841	1
1976	808	481	743	65	0	15	6	0	0	40	265	441	2836
112	1299	1327	342	139	3	95	0	0	0	0	119	303	3655
1978	432	1125	345	167	168	5	80	5	19	12	127	632	3151
1979	783	530	322	51	155		o	٥	13	4	65	611	2323
1980	677	550	439	o	52	හ	٥	0	0	15	34	578	2373
Meen	799	609	439	128	58	51	21	6	28	59	173	566	3136
Sta	Station i	BT. La	Langkana		River 1	basin	1 Gumant1	141		Raf. 1	No. 21	(ma)	-
1971													
1972													
1973													
1974								2					
1975													
1976	746	359	148	65	5	5	¥	0	0	Ň	249	465	2090
1977	1150	1302	351	165	54	6	0	σ	15	R	110	335	3577
1978	561	371	395	212	216	57	59	8-4 6-4	27	ŝ	170	693	2817
1979	980	601	364	30	87	121	0	0	*	**	68	\$14	2833
1930	659	111	399	189	36	0	0	0	0	£	5	479	2205
Mean	819	604	CE E	125	79	1	*	c	•	¥			

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Stat	Station: Sanro		Воде		River	pasta	**	Gumant1	an agus a sharaf a sharaf a sharaf a sh		Ref. No.	0, 22	(mm)
Year	Jan.	Fab.	Lar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1971											1	` ` `	3 5 6 8 8
1972			, , , ,						· · ·		*	*	
1973		, , ,			 								
1974													
275	1	\$	1	293	35	0	4	24	22	20	1	38	New York Contraction of the second seco
1976	31	319	0	ţ	0	2	0	0	0	0	35	314	731
1977	861	1172	401	118	33	47	0	0	0	0	97	173	2902
1978	366	¢	214	122	171	84	71	m	53	105	87	522	1838
1979	901	325	341	60	72	62	6	0	0	0	57	371	2235
1980	181	331	53	217		0	0	0	0	0	70	404	1551
Meen	531	436	196	138	65	54	14	\$	13	21	65	304	1844
Station	i not:	Tate Betu	0	ambaya	RIVer	basin	Pavpa	38.		F.	Raf. No	. 23	(mm)
1971						•			*				
1972					_								
1973													
1574													
1975	1	1		350	54	37	24	53	130	323	360	836	ŧ
1976	1056	538	725	27	54	70		0	0	136	423	795	JB29
1 2721	1658	1831	386	340	63	04	0	22	0	0	191	448	4979
1978	174	720	398	251	389	288	86		27	5	259	114	4350
1979 1	1103	963	628	5	129	155	0	.0	0	8	114	760	4011
1980	850	766	162	243	3		0	ø	0	65	94	983	3654
Mean 1	1089 4	964	521	227	145	101	24	15.	27	53	241	831	4278

.

ц С	Station:	Pallak	Station: Palleko (B.PL	EL II)	ż	RIVer	basin	I Pappa	đ		Ref. N	No. 24	(m)
YOUL	Jan.	Feb.	Kar.	Åpr.	May.	diin.	Jul:	Auje	Sep.	Oct.	TAON	Dec.	Total
1971													
1972													
1973	9 - "										*		
1974			-	y10-20-57 (20				1					
1975		1		423	141	0	13	:57 .01	21	\$	280	1	1
1976	392	0	0	•	0		n	. 0	y na	23	250	369	1051
1977	1252	1414	319	228	60	102	0	3	:0	0	219	372	3989
1978	526	537	286	161	250		136	-62 SA	40	25	138	775	2976
1979	1405	324	305	186	40	22	0	: 0	***	14	73	124	2537
1980	774	430	321	174	- 4		0	ĩo	0	12	90	573	2381
keen	869	541	247	196	83	41	26	4	N N	5	175	443	2672
00 4 0 0		Bajeng	÷n		a	RÍver i	basin i	Pappa		·	Rof. N	No. 25	(1001)
1971									•		•		-
1972						27-17-17-17-17-17-17-17-17-17-17-17-17-17							
1973													
1974													
1975	ł	1	ł	294	90	-4444	σ	- S	78	15	220	442	2
1976	828	281	283	43	26	4	3	0	78	16	220	372	2195
1977	: huluuringha	1145	289	202	68	2	0	÷	0	0	159	333	3171
1978	693	284	283	229	277	36	5	F~	62	10	295	441	808
1979	793	395	380	8	105	83	m	0	0	N	248	LEY	2469
1980	682	502	297	204	3	SS	0	0	*	0	133	725	2622
Maan	775	002	207	1631]	N,,	27	ł	t ; c	0	2662

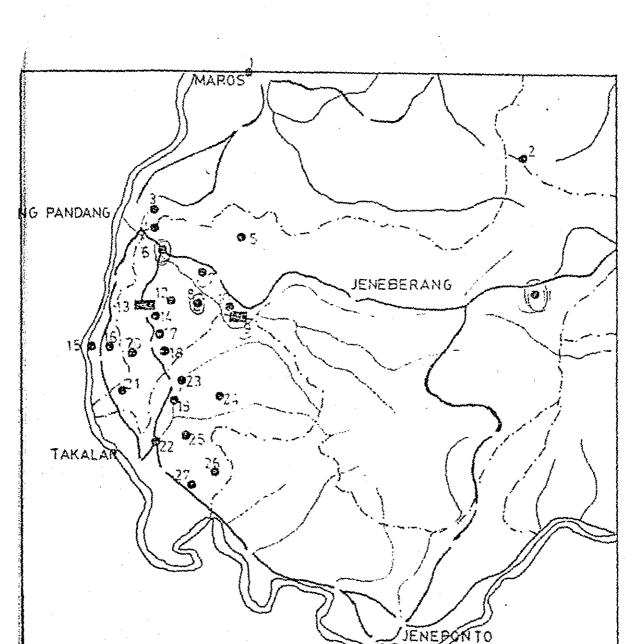
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Ste	Station:	Jonouarrung	Sunti			River	basin	I Senr	Senrengeng		Rof. N	No. 26	(E)
Year 1071	Jan.	Peb.	kar.	Apr.	May.	Jun	Jul	Aug	Sep.	Oct.	ľυν.	Dec.	Total
1972					*								
1973	- And Marcola Barry - Land - Land -		*								•		
1974													
1975													
1976	530	390	236	504	37	19	24	81	8	325	470	563	3259
1977	2236	2142	4505	190	69	114	0	*	o	0	138	268	9693
1978	53	587	273	150	98	98	106	25	36	767	227	494	3399
1979	670	501	393	141	105	159	¢	0	0	5	46	290	2328
1980	458	343	159	185	45	0	0	12	0	0	243	3.45	1790
Meen	897	793	1114	234	71	78	26	24	24	243	225	396	4115
ų. S	Station :	Tenekeee	C			River	Danin	: Sent	Sanrongang		Ref. N	No. 27	(m)
20											- Į		
1724						*			•				
274								~~~~~~~~~~					
1973													
1974													
1975	1	ł	1	ł	1	\$	1	\$	ł	53	261	538	ł
1976	806	398	0	90	32	Ø	46	Ċ	0	22	350	344	2181
1977	1067	1101	263	134	95	70	0	12	0	0	39	224	3005
1978	394	453	200	67	259	58	111	~S	20	37	123	433	2160
1979	530	159	303	63	ម្នា ភ្លា	84	0	٥	0	α,	32	341	1636
1980	501	756	112	176	SS	0	•	0	0	0	4	1	1855
Noon		2											

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· RAINFALL STATION AND REF. NO. METEOROLOGIE STATION REF. NO.9 : BONTO SUNGOU REF. NO.13 = BONTO BILL

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3. Stream stage records

Table	3.1	Stream stage records at Tamalate 24
Table	3.2	Stream stage records at Sungguminasa 26
Table	3.3	Stream stage records at Gowa Paper mill 28
÷		Intake
Table	3.4	Streem stage records at Kampili weir
Table	3•5	Overflow depth records at Kampili (BL-1) 42
		weir
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		gauging station
Table	3.9	Stream stage records at Jenelata gauging 57
		station
Table	3.10	stream stage records at Bantmurung 61
		gauging station
Table	3-11	Stream stage records at Tampobulu 64
÷	•	gauging station
Table	3.12	Stream stage records at Maradekaya 68
		gauging station
R -1 <i>c</i> r .	3.1	Togetion man of cauging stations

		_						
Fig.	3.2	Available	data	period	at	gauging	stations	73

Comments

The stream stage records are collected above listed 12 sites.

Their location and the available data periods are shown in Fig. 3.1 and 3.2, respectively. Note that the stream stage at the Sungguminasa station is not properly read esp ecially in flood times.

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Ri	ver Sve	stem		Rlver			Obser	vatory	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	**************************************	Yea	γ.
Jen	ebera	ng	Jen	eberai	ng			alate			19'	*****
~	JAN.	FIB.	MAR.	APR.	2948.	JUNE.	JULY.	AUG,	SEP,	ocr.	NOV.	DEC
1					}			0.42	0.43	0.41	0.44	1.0
2								0.41	Q.44		0.41	1.1
3					1				0.45		0.43	1.3
4								1	0.44			1.3
5)	0.42		0.42	1.2
6		ļ						0.48	0,43		0.44	1.1
7					1			0.75	0.45		0.44	1.1
<u> </u>		f 7 6			<u> </u>			0.73	0.41	0.24	0.44	1.4
		, *			ļ				0.45		1	1.
10		: 			L			0.73	0.43	0.46	0.47	1.
		· · · · ·			<u>.</u>						 	ļ
11	, an papago ar a 197.		~~~~~		} +				0.44	0.49	0.46	1.
12								0.71		0.48		1.
13								0.72		0.47		1.
14					s San san sa			0,46		0.45		1.
15		، به من محمد مربع الم						0.45	0.45	0.47	0.67	1.
16		÷					·····	0.47	0.44	0,46	0.45	1.
17		: • / - •••••						0.45			0.65	
18		· · ·····	••••					0.73	f	0.45		
19	• • • • • • •					 		0.48	*		0.66	
20					ļ			0.48	0.40	0.45	0.77	1.
21					1			0.49	i I			
	* • • • • • • • • • • • • • •				<u></u>			0.40	0.43	0.44	0.64	
22			· · · · · · · · · · · · · · · · · · ·					0.40	0.43	0.43	0.61	1.0
24					}	<u> </u>		0.40	0.43	0.45	0.58	1.
	e in some								0.43			
25 25		·· ··						0.45	0.44	0.55	0.00	<u>i</u>
27	an an Sana S			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			******	0.44	0.42	0.91	0.75	
28					in an shara I	t		0.45	0.42	0.40	0.85	ا د ا
53						}		0.48	0.43	0.49	12.83	ىداسە م
30	• • • • • • • • •	• • • • • • • • •	ana		<u>.</u>			0.44	0.42	0.42	0.07	:
31	· ····· · ·							0.44	<u>w. 44</u>	0.42		1.
		 :				i				<u></u>		
UTAL					 			16.03	12,93	14.37	17.60	40.
ERA-	• • • • • • • • • • • • • • • • • • • •							4	0.43			
<u> </u>	: -	i l			Į]		1 4.74	2 V+43	*****	1. 2.22	, * *.

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Table. 3.1 Stream stage records at Tamalate (2)

Ri	ver Svi	stem		River			rus at			(2)		7
\$	nebere		ţ	nebera	·			Vatory			Yea	{
£	·	7	<u>†</u>	·	118		Tany	alate			198	;0
		FIB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT,	HOV.	DEC.
1	}	0.49	1.75_	0.52	0.62	0.78	0.58	0.45	0.32	0.25	0.75	1.60
2	1.18	{					0.55	0.40	0.31	0.27	0.57	1.37
3		0.64	0.55	0.43	0.85	0.76	0.57	0.45	0.35	0.25	0.68	1.35
							0.58	0.43	0.35	0.25	0.70	1.35
5		1.06		0.65	8		۱ :	0.45		0,25	0,65	1.58
6			0.45	})	1	0.49		7	0.25	0.53	1.35
7		1.05	0.46	1	(⁻		0.63	0.45	0.37	0.27	0.56	1.25
8	{	1.29	1		0.52	1		0.40		0.25	0.55	1.23
		1.16			0.45	1	1	0.33	0.30	0.25	0.55	1.53
10	2.27	0.81	1.18	0.68	0.42	0.67	0.55	0.35	0.30	0,28	0,60	1.68
				{ 			ļ			}		
11	fan an a	1.28	0.65	*	0.49		0.53	0.41	0.30	0.25	0,88	1,42
12		1.33	0.75		0.42					0.25	0.85	1.55
13		2.14	0.88	1			0.51	· .35	0.30	0,25	0.87	1.95
14		1.83	1.25	T	0.43		0.55				0.60	2.08
15		1.60	1.21	1			0.51				0.50	1.57
15		1.38	£	t • • • • • • • • • • • • • • •		0.69	0,51	0.40	0.28	0.47	0.53	1.35
17		1.58	<u>, </u>	1	0.3	, ,	0.51				0,68	
18	T	1.11	1.43	· · · · · · · · · · · · · · · · · · ·	0.35					0.48	0.92	1.18
19	T	0.84	1.23	1	1	1	0.55			0.53	0,87	1.28
20	1.27	0.74	1.01	0,33	0.30	0.75	0.50	0,35	0.27	0.68	0.95	1.40
21	2					}	0.52		0.30	0.66	0.93	1.57
22	·····	0.93				5	0.46		0.27		0.97	
23	1		····· ····· ·	· · · · · · · · · · · · · · · · · · ·		1	0.43		0.25		0.82	
. 24		T		1			0.50		0,25		0.95	
23			T		()	{	0.50		0.25		0.98	
26	1			Γ. ·	} 1	t '	0.45				1.15	J
	2		C	<u>ر</u>	1	3	0.45	E * 3			1.40	
						(* ·	0.50				0.97	
		0,98								0.70		
	0.47		0.83			<u>r.60</u>	1	· · · · · · · · · · · · · · · · · · ·		0.78	 	2,06
- 31	0.44		r <u>.47</u>		0.90	 	0.43	0,35		0.70		2,00
······			{				 					
		32 07	26.94	23.61	16,84	20.70	15.85	11.64	8.91	14.03	24.42	49,11
AVERA- CE	1.07	1.10	0.87	0.79	0.54	0.69	0.51	0.3e	0.30	0.45	0.81	1.58
•••••												

- 25 -

Ri	ver Sy	stem		River		····	Obser	vatory		· · · · ·	Хант	C
ENE	ERANG		JENE	BERAN	G	ទប	NGGUNO	NASA			197	9.
14	JAN.	FE5.	MAR.	APR,	MAY.	JUNE.	3		SEP.	oct.	NOV.	DEC.
<u>ì</u>							0.60	0.28	0.20	0.20	0.25	0.81
2							0463	0.29	0.20	0.20	0.25	1,12
3							0.66	0:28	0.20	0.20	0.26	1.23
4							0.66	0.27	0.20	0.20	0.27	1.43
5							0.65	0.27	0.20	0.23		1.27
6		ł					0.65	0.27	0.20	0.23	0,28	1.13
7							0.63	0.27	0.20	0.23		
8							0.64	0.27	0.20	0.24	0.31	1.44
9					1		0.52	0.27	0.20		0.33	1.67
10							0.50	0.27	0.20	0.24	0.35	1.44
······································									} }			
13					}	1	0.50	0.26	0.20	0.24	0.35	1.20
12		1					for a second sec	0.26	0.20		0.34	
13							0.40	0.26	0.20	0.25	0.35	1.36
14		-			}		0.38	0.26	0.20	0.25	0.35	1.41
15	,	{ }			{		0.44	0.26	0.20	0.25	0.37	1.25
16		1				1	0.37	0.26	0,20	والمراجع والمحاطر والفاطر	0.38	*****
17		{		<u> </u>	}			0.26			0.40	
18		i i					0.38	0.26	0.20	0.25	0.41	0.99
19		1		}	}.		0.35	0.25	0.20	0.25	0.39	
20		1		ĺ		1	0.32	0.25	10.20	0.25		
		1			1	1	1	1	1	1		
21		İ	1	i i i		1	0.33	0.25	0.20	0.25	0.43	1,60
22		1	[<u>.</u>	; ;	<u> </u>	0.34	********	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· ·	0.45	1.4
23		1	[1		-	6			0.25	0.47	1.34
24		}				1	10.31			10.25		1.2
25	• · · · · · · · · · · · · · · · · · · ·		}	÷~	1	1	0.33	0.25	0.20	0.25	0.51	1.30
26		1				1	0.32	0.25	0.20	0.25	0.53	1.6
27	İ		1	4 7 1	1	1	0.32	0.25	0.20	0.25	0.58	1.9
28	* * *	1	1				0.31	0.25	0.20	0.25	0.64	1-41
29			Ì				0.32			0.25	0.67	1.4
30				÷	1	1	0.30	0.25		0.25	0.68	1.21
31	†	1	<u> </u>	İ]	1	0.30	0.25		0.25	1	1.1
*****	<u> </u>		<u>i</u> —	1	1	1	1	1	1	1		
TOTAL	İ	ç Ş	<u> </u>	ĺ	1	1	13.55	6.07	6.00	7.43	12.07	41-1
YERA-	1	 1	<u> </u>	[i.	1				0.24		1.34
E	<u> </u>	<u>}</u>	<u> </u>	[<u>[</u>	1	1	<u>}</u>			1	<u>!</u>

Table 3.2 Stream stage records at Sungarinans ())

rabla	3.2	

3.2 Stress stage records at Sungspainess (11)

[D.	ver Sys	t izmi						WI SSR			, ,	
Į				River				vatory			Yea	
	neber		Je	nebere	ing		Sunggu	minas	3	1	198	30
	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	oct,	NOV.	DEC.
1			1.48			0.78	0.25	0.20			0.05	
2			1.52	and the second se			0.25				0.05	
3			1.42					0.20			0.05	
4			1.35				(0.20			0.06	
5			1.32			4	}	0.19			0.08	
6			1.35		R	1.26	0.24	0.16			0.10	
7			1.43		0	1.27	0.23	0.15			C.11	
8		a se very substantiation and the	1.46			1,12	0.22	0,15			0.15	
3	a and a second sec	and a summer of the state of th	1.51	the state of the second second second second second second second second second second second second second se	9	1.06	0,20	0.15			0.15	
10	2.05	2.04	1.78	1.13	ю	1,19	0.20	0.12			0.18	
					>						,	
11			2.03	1.22		1.08	0.20	0.10	×		0.23	
12			1.61	1.27		0.99	0,20	0.10	0	,	0.16	
13			1.49			0.91	0,20	0.10	7 5		0.24	
14	1.50	2,58	1.37	1.10		0.84	0,20	0.10	>	0.05	0.29	
15			1.28	1.32		0.92	0.19	0.10	ĸ	0.05	0.26	
15	1.45	2.67	1.57	1.29		0.94	0,18	0.10	tej		0.25	
17	1.65	1.92	2.09	1.38		0,89	0.17	0,10	2	C	0.25	
18	1.95	1.68	2.29	1.40		1	ι .	0,10			0.28	
19	2.16	1.58	2.46	1.53	1.01	0.68	0.16	0.10			0.31	
20	2.47	1.50	1.67	1.49	0.98	0.67	0.15	0.07		ļ.	0.35	
21	2.75	1.37	1.53	1.33	0.96	0.73	0.15	0.05		0.05	0,40	
22	2.34	1.34	1.39	1.24	0.92	0.65	0.15	0.05		0.05	0.34	
23	2.03	1.30	1.30	1.14	1.04	0,62	0.15	0.05		0.05	0.29	
24	1.55	1.45	1.43	1.06	0.87	0.73	0.15	0.05		0.05	0.33	
25	1.43	1.54	1.35	1.03	0.86	1.07	0.14	0.05		0.05	0.38	
26	1.37	1.65	1.26	0.95	0.79	0.75	0.12	0.05		0.06	0.40	
27	1.28	1.56	1.20	0.93	0.79	0.65	0.10	0.05		0.07	0.41	
28	1.12	1.45	1.19	1.03	0,92	0.59	0.10	0.05		0.08	0.56	
29	1.07	1.55	1.13	1.18	0.84	0.52	0.10	0.05		0.10	0.52	
30	1.19		1.07	1.23	0.79	0.55	0.10	0.05		0.10	0.54	
31	1.25		1.06		0.77		0.10	0.05		0.10	{	
						L						
TOTAL	51.07	49.06	45.39	34.03		25.92	5.52	3.24			7.77	
AVERA- CE	1.65	1.69	1.55	1.13	-	0.86	0.18	0.10			0.26	

	Tabla			tota s	tage 1	record	s et (lowa P	aper 1	mill 1	ntare	517
Ę	ver Sys			River				vatory			Yea	
ene	beran	8.	Jen	leberai	ng	Gom	s pepe	er mil	l inte	ika	197	7
K	JAN.	FEB.	MAR.	APR,	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT,	NOV.	DEC.
	1.50		2.10	1.65	1.00	0.40	0,40	0.30	0.40	0.40	0.40	1.10
2	1.60		2,00	1.55	0.90	1	0.40	0.40	0.40	0.40	0.40	
6	1.65		1.90	1.50	0.85	0,33	0.40	0.40	0.40	0.40	0.40	
4	2,10		1.80	1.50	0.80	0.30	0.40	0,45	0.40	0.40	0.40	1.15
5	2.05		2.10	1.50	0.90	0.30	0.25	0.45	0.40	0.40	0.40	0.90
6	2.60	~	2.10	1.40	0.80	0,20	0.30	0.40	0,40	0.40	0.40	0.80
17	3,20		2.90	1.40	0.50	0.20	0.30	0.40	0.40	0.40	0.40	0.75
8	3.40		2.30	2.00	0.65	0.30	0.50	0.30	0,40	0.40	0.40	0.80
9		2.00		2.40	0.90	0.35	0.60	0.30	0.40	0.40	0.40	1.10
10	2,50	2.65	1.80	2.50	0.70	0.40	0.60	0,40	0.40	0.40	0.40	1,10
					·							
11		2.40		3.15	0.60	0.40	0,60			0.40	0,40	1.10
12		2.90		2,20	0.60	0.30	0.60		0.40		0.40	
13			1.75	1.95	0.60	1,50	0.60		0.40		0.40	0.80
14		3.40		1.90	0.60	1,55	0.60			0.40	0.40	1.10
15		· · · · · · · · · · · · · · · · · · ·	1.80	1.90	0.60	1.25	0.50	0.35		0.40	0.40	1.10
16		3.65		1.85	0,60	1.00	0.50	0.30	<u> </u>	بكلك هنلاب	0.40	1.43
17		3.65		1.60	1.10	0,90	0.45	0.30		TAWAR	0.40	1.23
18		2.70		1.60	1.15	h	0.40	4	.0.40	<u></u>	0.40	1.52
19		2.50		1.70	0.60	{	0.40	0.30	the second second second second second second second second second second second second second second second se			1.55
20	2.10	2.45	1.70	1.55	0.60	1.20	0,40	0.30	0.40	0.40	0.60	1.25
Į	ļ		<u> </u>				ļ	ļ			·	
21	*****	*****	1.60				· · · ·	0.30		0.40	0.60	1.00
22	*	·	1.60		0.70			0.30		0.40		1.40
23	1	3.35	1		7	1		0.30		· · · · · · · · · · · · · · · · · · ·		1.65
24		3.25		£ · · · · ·		۲	1	0.35	1 · · ·		7	1.23
25	*	3.20										1.10
26	7	3.15										1.10
27		······································	1.50	ſ	1	1		1	1	1		1.20
28	1.80	2.65										1.30
29	1.65		1.60	T -	1	1	1	0.40	{ · · · · · · ·	j	7	1.28
30	1.80		1.60	1.00	0.40		1		0.40	0.40		1.33
31	1.90		1.70		0.40		0.30	0.40		0.40		1.50
	ļ			 		ļ	1			<u> </u>	ļ	
TOTAL	<u> </u>		ļ	 		ļ		<u> </u>		<u> </u>	ļ	L
AVERA- CE					ł		}	}	↓	}		
	Line	<u></u>	1	L	L		1					ليحت شيعا

Table. 3.3 Streem stage records at Gova Faper mill Intare ()

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	ver Svs	T			tage 1	record			99982 I	mill]	Intaks	(2)
<u> </u>				River			Obser	vatory			Year	<u> </u>
	eberei		Jen	eberar	g	Gowa	pape	r mil	<u>l inta</u>	ke	197	18
	JAN.	FEB.	MAR.	APR,	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT,	NOV.	DEC.
	1.45	0.60	-	0.71	0.70	0.70	0.77	1.00	0.50	0.40	0.50	1,13
2	1.83	1.55	-	0.51	0.66	0.60	1.28	0.83	0.68	0.73	0.46	1.07
	1.57	2.00		0.50	1,10	0.60	1.27	0,50	0.73	0.80	0.45	1.20
4	1.92	1.53	-	0.50	1.00	0.90	1.48	0.73	0.70	0.95	0.45	1.13
5	1.40	1.90		1.00	1.00	1.00	1.62	0.68	.0., 60	0.80	0.45	1.00
6	1.30	1.75		1.00	0.90	0.83	1.70	0.61	0.57	0,60	0.45	1.00
7	1.60	1.43		1.77_	0.76	1.20	1.15	0.60	0.75	0,68	0.45	0.97
8	1.30	1.30	••	1.70	0.66	1.17	1.00	0.50	1.00	0.80	0.45	0.83
9	1.00	1	1.40	1.57	0.60	1.42	0, 90	0.50	1.03	0;63	0.50	0.93
10	2.10	1.36	1.73	1.42	0.60	1.52	0.83	0.43	0.93	0:53	0.60	1.07
<u> </u>		ļ			ļ	ļ		·		 		
11	2.90	<u> </u>	1.60	1.13	0.73	1.07	0.80	0.50	0,80	0.53	0.72	1.00
12	2.33	1.37	1.33	0.90	1.00	1.17	0.90			-0.50	0.70	
13	1.93	1.36	1.23	0,75	1.00	1.00		0.50		0.48	T	+
14	1.23	1.25	1.87	0.70	1.03	0.90		0.50		0.43	1	
15	1:30	1	0.40	0.70	1.45	0.80	,	0.60		0.38		م لية في ا لم
16	1.20		0.40	0.60	1.77	0.80			0.50	-0,36		↓.↓
17	1.35	1	0.40	0,60	1.20	╷──╹──		0.68			0.50	بمحفقات
18	1.25					0.85			1.10			
19				0,60	1		1		1.10			
20	1.30	1.55	0,40	0.50	0.90	1.06	0.70	0.80	0.87	0,61	0.60	1.00
	:				ļ	<u> </u>		<u> </u>				<u> </u>
21	1.83	T	1		1	0.90	0.70	0.70	0.75	0.67	0.70	1.1
22	2.40	1.47	0.36	0.50	0.80			0.53			0.87	
23	1.63		0.71	0.60	0.80	T	0.60	0.50	0.53	0.60	1.00	
24	1.60		0.47	0.70	1.00	1			0.50		1	2,58
25	1.75	1		1	0.77				0.40			1.9
26	1.35			T	0.70		0 00		0.40			1.5
27	1.30	1.90	i	0.70	0.70	1	1 ~		0.40			1.7
28	0.83		1.06		0.60	-		0.50			1.13	1
29	0,80		1	0.80	1			0.50			1.10	
30	0.73	ļ	0.90	0.72	0.70	· · · · ·			0.40	0.50	1.05	1.5
31	0.73		0.50		0.73		0.93	0.46	- .	0,50	-	1.49
	<u> </u>	<u> </u>	· ·	<u> </u>		<u> </u>	· · ·	Ļ		<u> </u>	<u> </u>	<u> </u>
TOTAL		ļ			<u> </u>	ļ			+	<u> </u>	<u> </u>	<u> </u>
AVERA- <u>GE</u>	1		•		<u> </u>						· ·	<u> </u>
<u> </u>	•	· · · ·					-			•		

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	LEOTO	. 3.3		383 8	tage i	ecord	s at C	lows P	aper r	aill I	ntaks	(3)
Ri	ver Sys	:cem		River				vatory			Yea	
Jene	iberan	8	<u> </u>	epera	ng	Go	wa paj	per mi	11 in	take	197	9
	JAN.	FCB.	MAR.	APR.	MAY.		JULY.	AUG.	SEP.	ocr.	NOV.	DEC.
1	1.05	0.90	1.07	0.93	1.20	0.50	······			0.40	0.40	
2	1.17	2.00	0.73	(0.53	· · · · · · · · · · · · · · · · · · ·			0.40	0.40	
3	1.23	1.40	0.70			0.60				0.50		
4	1.10	0.92	1.12	1	·	0.65				0.50		1#20
5	1.03	1.00	0.70	0.80	1	0.63			0.40			0.83
6	1.65	0.60	1.00		1.03	1.14				0.50		0.83
7	2.68	0.60	1.85		1	0.80	0.60		0.40	0.50		1.15
8	3.23	0.60	1.15		1.10	0.77	0.60	0.40	0.40	0.50		1.78
9	2.17	0.60	1.80		<u></u>	0.83	0.60	0.40	0.40	0.50		1.37
10	2.40	0.60	1.28	1.03	0.80	0.70	0.60	0.40	0.40	0.50	· · · · · · · · · · · · · · · · · · ·	1.32
						1		[<u> </u>			
11	3.43	1.00	1.60	0.87	0.80	0.70	0.47	0.40	0.40	0.50	0.40	1.29
12			1.75			0.70		1	0.40	0.50	0.48	
13			1.33		0.97			0.40	0.40	0.50	0.60	1.03
14	0.95	1.03	1.80	0.67	1.17	· · · · · · · · · · · · · · · · · · ·		0.40		0.50	0.50	0.92
15		1	1.30		1	0.62		; 	0.40	0.50	0.50	0.77
16			0.83		0.80	0.60	0.40	0.40	0.40	0.50	0.50	0.88
17		1	0.87	0.60	0.70	0.60	·	7	0.40	0.50	0.50	1.19
18			0.73			0.53			0.40	0.50	0.50	1.43
19	0.90	0.90	0.78	0.60	0.60	0.53	0.40	0.40	0.40	0.50	0.50	1.43
20	0,87		0.80		0.60	0.60	0.40	0.40	0.40	0.50	0.50	1.31
			{	}		}			(
21	0,80	0.70	0.95	0.90	0.60	0.60	0.40	0.40	0.40	0.40	0.50	1.15
22			1.05			0.60	0,40	0.40	0.40	0.47	0.50	0.87
23		0.63	1		0.60	0.50	0.40	0.40	0.40	0.53	0.50	1.15
24	0.75	0.93	0.80	1.00	0.00	0.50	0.40	0.40	0.40	0.60	0.50	1.18
25			0.63			0.50	0.40	0.40	0.40	0.60	0.63	0.92
26			0.98			0.50	0.40	0.40	0.40	0.60	0.60	1.26
27		1.60	1	1,23		0.50	0.40	0.40	0.40	0.60	0.60	1.25
28	0.65		1.00	0.87	0.60	0.50	0.40	0.40	0.40	0.60	0,62	0.93
29	0.65	-	1.48		0.60	0.50	0.40	0.40	0.40	0.50	0.53	1.00
- 30	0.60	-	1.44	0.97	0.53	0.50	0.40	0.40	0.40	0.43	0.89	1.23
31	0.60	1	1.15	- -	0.50		0.40	0.40	· •	0.40		1.35
		1			{		<u> </u>	ļ	1	<u> </u>		{
TOTAL	1							ļ			 	
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	I		<u> </u>	<u></u>	, 1 2	30 -						

3.3 Stream stere - - - · Table 6 4 . JAN ~

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H 1 2 3 4 5 6 7	0.87 0.80 0.87 1.20 1.58	FTB. 0.60 0.60 0.60	MAR. 1.15 1.05	aberan APR. 0.60	2 <u>8</u> May.	Gor		~~~~~		~~~~~		
1 2 3 4 5 6 7	0.87 0.80 0.87 1.20 1.58	0.60 0.60 0.60	1.16	(MAY.		na pap	oer mi	ll int	axe	198	J
2 3 4 5 6 7	0.80 0.87 1.20 1.58	0.60	1.05	0.60		JUNE.	JULY.	AUG.	SEP.	OCT,	nov.	DEC.
3 4 5 6 7	0.87 1.20 1.58	0.60			0.70	0.50	0.50	0.50	0.50		0.50	
4 5 6 7	1.20		[]	0.50	}	0.50		0.50			0.50	
5 6 -7	1.58	0.88	1.08	0.50	5	0.50		0.50			0.50	
6		(~ * ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1.25	0.53	1.00	0.50	{	0.50			0.50	1
-7	1:65	0.60	1.05	0.98	0.76	0.50	0.55	1	0.50		0.50	1.16
		1.86	0.91	0.83	0.70	0.50	0.50	7	0.50	0.50	0.50	1.00
	1.90	2:13	0.85	0.80	0.65	0.50	0.50	0.50	0.50	0.50	0.50	1.00
8	2.63	1.68	0.90	1.18	0.63	0.50	0.50	0.50	0.50	0.50	0.56	1.17
9	2.93	1.13	1.49	0.90	0.70	0.50	0.50	0.50	0.50	0.50	0.56	1.13
10	2.35	1.07	1.30	0.95	0:67	0.50	0.50	0:50	0.50	0.50	0.73	i. 30
		}			 	}	-). 				
11	2.13	1.00	1.00	0 ₂82	0.65	0.50	0.50	0.50	0.50	0.50	0.76	1.17
32	7.27	2.45	0.60	0.77	0.57	0.50	0.50	0.50	0.50	0.50	0.63	1,25
33	1.07	2.93	0.75	.0.66	0.65	0.50	0.50	0.50	0.50	0.50	0.60	1.99
14	.103	2.13	2.71	1.45	0.60	0.50	0.50	0.50	0.50	0.50	0.50	1.82
15	-1.00	2.10	1.43	120	0.60	0,50	0.50	0.50	0.50	0.50	0.50	1.35
16	7.47	1.95	0.96	1.23	0.60	0.50	0.50	0.50	0.50	0.50	0.41	0.90
17	∃.00	1.88	1.94	1.50	0.60	0.50	0.50	0.50	0.50	0.50	0,35	0.85
18		1.57		0.93	0.60	0.50	0.50	0.50	0.50	0.50	0.65	
19	2.93	1.22	1.28	0.83	0.60	0:75	0.50	0.50	0.50	0.50	0.74	1.42
20	2.78	1.13	1.61	0.74	0.43	0.73	0.50	0.50	0.50	0.50	0.50	1.54
~~~~~~		<u>}</u>		<u> </u>		}		} 				
21	2.91	1.40	1.50	0.67	0.40	0.66	0.50	0.50	0.50	0.70	0.63	1.50
22	1.75	1.42	1.36	0.73	0.40	0.60	0.50	0.50	0.50	0.63	0.60	1.00
23	1.35	1.75	1.05	1.03	0.60	0.60	0.50	0.50	0.50	0.60	0.50	1.30
24	1.13	1.57	1.06	0.67	0.90	0.60	0.50	0.50	0.50	0.60	0.57	2.18
25		1.33	1	3	1	1	ſ	0.50	2	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1
26	0,88	1.60		<u>}                                    </u>	1	1	1	0.50	÷	1	F	}
27	0.75	1.43	j			1	1	0.38		1		1
28		1.51	5	{	{	1	1	0.50	[	1	T	
	0.67	1.37	<b>}</b>	<u></u>	(	1	1	0.50	[	{	,	A and a star provide star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of the star of t
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2		0.80						}		}		*
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6		0.78									}	
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9	1.36	1.63	0.70					}				
10	1.55	1.65	0,77		\							
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12		2.18										
13	0.96	1.47	0.70						·		}	
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£	iver Sy	3 - WIII	<u> </u>	River				rvatory		****** ** **********	Yea	r
Jens	bersa	5	101	apozaz	ug	Xo:	scili	Weir	******		197	
	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	4	1	SEP.	ocr.	::ov.	DEC.
1_1	17.03	17.05	17.00	17.13	16.65	15.98	16.88	16 30	15.93	15 08	16 80	17 17
	111.02	11.12	10.30	17.10	16.65	16.97	16.07	16 23	15 95	16 15	16 85	AE 00
3	11.02	11.15	10.33	11.05	116.60	16.88	16.88	15.22	15-93	16.28	16 85	17 00
4	111.00	11,13	110.23	10.95	10,68	16.83	16.87	16.18	15.95	16.28	16.90	17 28
	10.77	11.20	11.03	10.98	16.65	116,83	16.78	16.20	16.03	16.23	16.93	17 20
0.	10.93	11.15	11.03	11.00	116.55	16.95	16.75	16.20	16,23	\$ 15, 13	16.83	17.15
. 7	11.00	117.20	17.00	16.90	16.70	17.00	16.73	16.18	16.16	16.05	16.90	17.13
8	17.08	17.25	17.05	16.90	16.75	17.05	16.70	16.16	16.03	16.05	16.90	17.08
9	17.10	17.18	17.23	16.95	16,80	17.00	16.70	16.15	16.00	116.00	16.95	17.05
10	17.08	17.10	17.55	17.08	16.83	15.95	16.70	16.10	15.98	16.00	16.93	17.03
	ļ		ļ				}					ł
11	17:03	17.05	17.38	17.05	16.88	16.98	16.65	16.03	15.95	16.05	17.13	17.00
12	17.00	17.05	17.33	17.05	16.90	17.00	16.65	16.05	15.95	16.05	17.03	17.00
13	17.00	17.10	17.33	17.05	16.85	16.95	16.60	16.03	15.95	16.05	16.93	16.90
14	16.90	17.08	17.43	17.00	16.90	16.93	16.65	16.00	15.93	15.98	16.90	17.00
15	16.88	17.03	17.43	16.95	16.95	16.93	16.60	15.95	15.90	15.95	16.85	17.08
16	16.85	17.00	17.90	16.90	16.95	16.95	16.63	15.93	15.93	15.98	16.88	17.08
17	16.95	16,95	17.40	16.88	17.00	17.00	16.65	16.00	15.95	15.95	16.95	16,98
		76.95										
												16,90
20	17.12	17.05	17.15	16.93	16.95	16.98	16.65	15.95	15.90	16.58	17.25	16.93
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	1	17.23	(S					1	·····			
22	f	t i			1 .		\$					16.98
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	}	17.18						}				
	7		{							1		16.85
	17.25							<u>,</u>				16.83
	17.18	{	17.00	16,70			10.58	16.13	15.95	10.85	17.00	
31	17.15		17.03		16.93							
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Table 3.4 Stream sters records at K

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1 21	ver Sys	r.om			26 7 61	<u>,0118</u>	et Kar		COLT	<u> </u>	,	
				River		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Obser	vatory	·····		Yea	<u>r</u>
	repera			lebere	38		Kami!	li to	17		19	72
		FLB.	MAR.		MAY,		JULY.			OCT.	nov.	DEC.
1	18.13	17.13	17.05	17.08	16.93	17.00	15.91	15.67	15.67	15.67	15.66	16.61
2	18.03	17.08	17.00	17.13	16.90	16.04	16.80	15.67	15.66	15.65	15.66	16.63
3	10.00	17.05	16,95	17.13	15,88	16.05	15.89	15.67	15.66	15.66	15.67	16.65
4	10.03	17.10	17.05	17.03	16,90	16.11	15.89	15.67	19-66	15.66	15.68	16.67
5	11	17.03	17.03	16.98	16.95	16.11	15.89	15.67	15.66	15.66	15.68	15.69
6	10.20	17.08	17.08	17,00	16.95	17.10	15.89	15.67	15.66	15.66	15.68	16.70
7	17.60	17.03	17.15	17.08	17.03	16.15	15.88	15.67	15.66	15.66	15.69	16.68
8	17.10	17.05	17.13	17.08	17.00	16.13	15.87	15.67	15.66	15.65	16.60	16.73
9	17.85	17.03	17.18	17.03	16.95	16.13	15.87	15.67	15.65	15.65	15.70	16.65
10	18.95	17.03	17:13	17.05	16.98	16.12	15.86	15.69	15.65	15.65	15.73	16.95
 								L			}	
												16.70
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15		· · · · · · · · · · · · · · · · · · ·	,									16.65
16		,									*****	16.25
17				the second second second second second second second second second second second second second second second se		y			****			16.23
18						·····						16.63
19	and the second sec											16.35
20	17.15	17.08	17.08	17.08	16.28	15.98	15.73	15.68	15.64	75.64	15.82	16.1E
						<u></u>	}			<u></u>		
21					****************			~~~~~~~~~~	·····	****	******	16.13
22							3	<u> </u>			1	16.08
23			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			· · · · · · · · · · · · · · · · · · ·		3		****	7	16.00
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25			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			· · · · · · · · · · · · · · · · · · ·	r	*	1		(16.70
26		·····				J	r	£ .	1	7	7	16.68
27			7		1	1 .	4	1	ł	}	S	16.70
28												17.26
29	17.05	17.08	16.95	17.03	16.16	15.93	15.68	15.67	19.65	15.65	16.18	17.18
30	17.03				F The second second second second second second second second second second second second second second second	3						17.13
31	17.08		16.90		17.00		15.68	15.67		15.65	-	17.05
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Table 3.4 Streen stage records at Kampili wir (2)

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Table 3.4 Stream stage records at Kampili weir (3)

	Tsd	1. 3.	4 Stre	ean st	age r	ecords	i at K	ampili	L weir	(3)		
harmon	ver Sys			River			Obser	vatory			Yea	r
941	to bars	ng	Je	neper	ing	R	ampili	. 178a	r		1973	•
	JAN.	FLB,	MAR.			JUNE.	JULY.	AUG,	SEP.	OCT.	NOV.	DEC.
1	1.700	17.00	16,68	16.95	16.98	16,90	16.50	16.18	15.95	17 10	16.05	17.08
2	16.93	17.03	17.08	17.00	16.95	16.88	16.58	16.13	15.93	17.10	16.23	17.05
3	16.93	16.85	17.03	17.08	17.00	16,85	16.58	16.08	15.88	17 03	16.28	17.03
4	16.95	16.70	16.80	17.10	16.95	16.80	16.58	16.05	15.85	15.99	17.15	17.03
5	17.13	16.65	16.75	17.08	17.00	16.85	16.55	16.05	15.90	15.90	17.08	16.95
6	17.08	16.60	16.90	17.05	16.95	16.93	16.60	16.05	15.90	16.81	16.98	17.00
7	17.10	16.65	17.03	17.23	17.08	16.95	16.78	16.30	15.90	16.70	16.95	17.03
8	17.13	16.70	17.05	17.13	17.00	16.88	17.15	16.15	15.90	16.23	16.88	16.98
9	17.53	16.70	17.05	17.05	17.08	16.83	16.98	16.15	15.90	16,18	16.83	16.98
10	17.05	16.75	17.03	17.03	17.03	16.85	17.50	16.43	16.10	16.13	16.78	17.08
11	16.88	16.85	17.00	17.00	17.08	16.88	17.08	16.18	16.20	16.07	16.80	16.95
12	أورج والمراجع والمتحدي والمستور والمراج	the second second second second second second second second second second second second second second second s	and the second se				•		ş	,		16.93
13	16.70	17.10	17.13	17.00	17.08	16.68	16.80	16.10	16.33	16.03	16.85	17.03
14	the second second second second second second second second second second second second second second second s	the second second second second second second second second second second second second second second second s	the second second second second second second second second second second second second second second second s	the second second second second second second second second second second second second second second second s	a a mantul series and a second	a de la seconda de la companya de la companya de la companya de la companya de la companya de la companya de la	7		2	2	3	17.00
15	16.73	16,98	17.60	16.95	16.97	16.43	16.63	16.00	16.35	15.95	16.85	16.98
16	16.85	16,90	17.13	17.00	17.03	16.35	16.58	16.00	16.33	15.93	16.83	16.98
17	16.93	16.83	17.05	17.00	16.98	16.35	16.60	16.00	16.68	15.90	16.78	16.98
18	16.90	16.93	17.05	16.98	16.95	16.35	16.65	16.00	16.73	16.03	16.73	16.93
19	16,93	16.88	17.00	16.98	16.98	16.48	16.63	15.98	17.35	16.00	16.78	16.95
20	16.93	16.85	16.95	17.18	16.98	16.30	16.60	16.03	17.10	15.98	17.08	17.00
				· · ·						}		
21	16.95	16.88	16.93	17.10	17.00	16.30	16.58	16.03	16.93	15.93	17.05	17.03
22	16.95	16.95	16.90	17.10	16.98	16.30	16.53	16.00	16.90	15.90	17.23	17.23
23	17.08	16.88	16.88	17.10	17.00	16.65	16.43	16.00	16.98	15.95	17.68	17.28
24	17.18	16.83	16.85	17.03	17.08	16.65	16.38	15.98	17.05	15.98	17.18	17.25
25	17.33	15.78	16.80	16.98	17.00	16.68	h6.35	16,20	17.00	15.90	17.35	17.45
25	17.30	16.70	16.80	17.00	17.00	16.56	16.30	16.50	17.10	16.03	17.08	17.38
27	17.28	16.70	16.75	17.03	17.00	15.55	16.20	16.90	17.05	16.03	17.10	17.25
28	17.33	16.65	16.73	17.03	17.00	16.48	16.20	16.18	17.03	15.98	17.05	17.33
29	17.55		16.80	16.98	17.00	16.40	16.18	16.10	17.00	16.45	17.10	17.28
30	17.23		16.88	17.00	16,95	16.48	16.15	16.05	17.05	15.98	17.08	17.30
31	17.08		16.85		16.90		16.15			16.00		17.61
		~~~~										1
TOTAL												
VERA-							-					
E						L	[	}	<u>}</u>	ł	L	<u> </u>

gauge zero =15,7m

the second second second second second second second second second second second second second second second se

Table 3.4 Stream stage records at Kempili main (4)

<u></u>	ver Sys	Com		River			Obser	vatory			Yea	r
Jo	neber	ang	Ja	lober	LL g	]	Kampil	i wai	*		197	4
<u> </u>		FEB.		APR.		JUNE.	JULY.	AUG.	SEP.	ocr.	NOV.	DEC.
1	17.50	16.75	17.63	17.65	16.15	16.63	16.13	16.88	15 95	15.98	17.13	17.05
2	11.43	16.73	78,45	16.98	16.23	16,55	16.10	16.90	15.95	15.88	17.05	17.04
3	17.33	16.70	18.10	16.98	16.38	16.50	16.13	16.68	15.95	15.90	17.05	17.0
4	17.33	16.90	17.50	16.95	16.48	16.45	16.10	16.58	15.95	15.95	17.28	17.0
5	17.38	16.90	17.08	17.00	16.53	16.40	16.13	16.48	15.90	16.00	17.18	16.9
6	18,60	16.95	17.00	17.05	16.70	16.35	16.13	16.43	15.98	16.03	17.15	17.00
7	17.80	16.93	17:83	17.10	16.83	16.35	16.13	16.35	16.48	17.10	17.20	77.00
8	17.33	16.95	17.25	17.10	16.93	16.30	16.18	16.23	16.30	16.88	17.18	17.1
9	17.20	17.00	17.10	17.13	16.83	16.30	16.33	16.18	16.53	16.78	17.15	17. 11
10	17.15	17.08	17.05	17.05	16.73	16.28	16.23	16.15	16.60	16.75	17.95	17.1
11	17.08	17.03	17.03	17.00	16.70	16.20	16.18	16,13	16.70	16.73	17.68	17.15
12	17.05	18.30	16.93	16.93	16.75	16.15	16.15	16.08	16.68	16.70	17.50	17.15
13	17.03	19.50	16.95	17.03	16.68	16.13	16.13	16.08	16.73	16.75	17.28	17.23
14	16.88	17.98	17.58	17.15	16.70	16.10	16.13	16.08	16.78	16.75	17.23	18.2
15	16.88	17.60	18.50	17.15	16.75	16,15	16.13	16.03	16.73	16.80	17.20	17.8
16	15.85	17.15	18.13	17.10	16.73	16.20	16.20	16.03	16.68	16.80	17.48	17.3
17	16.83	17.65	18.83	17.18	16.63	16.25	16.18	16.83	16.58	16.85	17.38	17.2
18											18.18	
19	16.90	17.33	17.68	17.00	16.58	16.30	16.63	15.98	16.25	16.93	18.10	17.1
20	16.90	17.58	17.88	16.93	16.48	16.45	16.48	15.98	16.18	17.23	17.73	17.1
									Ĺ	ļ		<u> </u>
21											17.55	
22											17.43	
23											17.38	
24											17.43	
25											17.28	
26											17.20	
27											17.18	
28								***			17.13	
29	16.70						have been a second second second second second second second second second second second second second second s	6 m		é a la companya da companya da companya da companya da companya da companya da companya da companya da companya	17.13	<u> </u>
30	15.68				16:43		16.30			[	17.10	
31	16.73	******	16.73		16.35		170.47			[ 	<u> </u>	17.1
TUTAL	-						}	}		<u> </u>		
NVERA-											<u> </u>	
30						L	<u> </u>	<u> </u>	L	<u> </u>	<u> </u>	}
												•

Table 3.4 Stream stage records at Kampili weir (5)

	****		1 67 4 4 4		ege re	corde	at K	angili	. wair	(5)	r	
	ver Sys		******	River			Obse	rvatory		المرد معسم معروب مع	Yea	r
	iebera		Je	neber	ang		Kamp:	121 W	eir		19'	75
D M		FEB.	MAR.	APR.	MAY.	JUNE.		AUG,	SEP.	ocr.	tiov.	DEC.
	17.13	17.00	17.23	17.03	17.18	17.10	16,48	16.33	15.03	16.00	17.10	17.03
2	17.03	17.08	17.23	16.98	17.33	17.08	16.69	16.23	15.93	15.93	17.13	17.03
								16.15				
4	17.48	17.23	17.23	17.08	17.10	16.98	16,58	16.08	15.83	17,28	17.10	17.25
5	17.35	17.10	17.15	17.15	17.08	16.95	16.58	16.05	16.10	16.80	17.13	17.90
<u>6</u>	17.23	17.10	17.33	17.15	17.10	16.98	16.60	16,10	15.98	16.88	17.15	17.48
7	17.05	17.15	17.28	17.03	17.05	16.93	16.5	16,08	16.00	16.83	17:05	17.28
8	16.95	17.20	17.23	17.03	17.13	16,90	16.3	16.05	16.05	16,90	16.9	17.13
9	17.13	17.18	17.15	17.13	17.23	17.03	16.3	16.08	16.15	16.75	16,88	17.03
10	17.08	17.15	17.18	17.08	17.15	16.95	16.3	16.08	15.33	16,80	16.95	17.03
							_	<u> </u>	1			
11								16.10				
12								16.65				
13								\$ 16.43				
14								216.40				
15								3 16.33				
16								316.23				
17		7						316.23		the second second second second second second second second second second second second second second second se		
15	}				7			16.30	1		1	
19								15.03	1			· · · · · · · · · · · · · · · · · · ·
20	17.13	11.03	11.28	17.60	17.18	17.03	75.3	<u>16.03</u>	15.88	16.90	16,90	17.10
~~~~~	12.00	47 00		 		477 00						
								16.05				
22		1						16.05	F		5	
	1	<	1					16.05	} · · ·	1		{
	1	5	}		1	• · · · ·		16.05	}	1	t	{
25 26	· · · · · · · · · · · · · · · · · · ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						15.95	3	1	2	(
	1	1			¥* ·	t	· ·	\$	1	{	4	1
	(· · · · · · · · · · · · · · · · · · ·			ł.	,			15.95	2	}		3 (
	17.15							16.00				
	17.08	1			7	1		16.43	f	1		· · · · · · · · · · · · · · · · · · ·
	17.03	<u></u>	17.03		17.03			15.93		17.13		17.0
	11403	}	11002		11.42		1400				<u> </u>	······································
TOTAL		{	<u> </u>	{				+	<u> </u>	<u> </u>	<u> </u>	t
AVERA-	<u>}</u>								<u> </u>		<u> </u>	
GE	L	<u> </u>	[<u> </u>	[L		1	<u>}</u>	<u> </u>	L	L
					**	37- 🗝 🗄						
		1.1										

Ri	ver Svs			River		TSCOL		vatory	•		Yea	r 1
Jer	lebera	ng	Je	neber	ang	1	(ampi)	i we	ir		197	6
~~	JAN,	FCB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	oct,	NOV.	DEC.
1		1.50	2.37	0.98	1.97	0.73	0.73	0.04		0.17	0.52	
2		1.66	2.76	0.99	4.80	0.58	0.65	0.13		0.16	0.60	1.73
3		1.80	2.55	1.20	4.62	0.52	0.61	0,11		0.41	0.84	1.08
4		1.68	2.03	2.18	4.17	0.45	0.53	0.05		0.65	0.47	4.11
5		3.84	1.58	2.40	4.35	0.45	0.35	0.05		0.62	1.68	6.105
6		2.94	3.60	1.65	4.32	0.13	0.33	0.02		0.57	1.38	2.41
7		3.39	3.96	1.29	4.10	0.40	0.28	0.05	· /	0.62	1,29	2.01
S		5.31	3.90	2.37	4.38	0.78	0.25	0.05	1	0.99	0.98	2.04
9		3.90	2.94	1.85	4.26	0.68		0.05		0.58	0.63	1.65
•1		4.35	2.13	2.39	4.14	· 0.58		0.14		0.48	0.81	2.415
.1		4.55	1.74	1.83	4.77	0.48	0.28	0.14		0.40	1.25	3.78
2		3.36	1.49	1.82	4.38	0.43	0.20	0.14		0.49	1.29	4.47
3		3.57	2.10	1.74	4.17	0.28	0.25	0.13		0.65	2.33	3.39
4		2.64		3.03	4.14	- 0.33	0.23	0.13		0.45		3.09
<u>j</u>		2.31	3.21	1.92	3.69	0.33	0,15	0.11		0.48	1.64	3.17
5 ~		3.93	2.71	1.53	3.90	_ 0.28	0.14	0.11		0.65	1.28	2.70
?		4.21	2.20	3.78	4.53	1.0.25	0.13	0.11		0.52	1.38	2.07
8		2.31	.	4.71	des surrents and state of the		0.11	0.10		0.45	1.43	1.94
9			2.37			The second second second second second second second second second second second second second second second se	0.10	0.11		0.48		1.77
0		1.72	2.34	2.70	3.30	0.40	0.05	0.10		0.50	1.32	1.635
		• • • • • • • • • •	} 	} }							ļ	
1			1.97			0:33	0.10	0.10		1.88	*	1.50
2	 • • • •		1.74			0.28	0.10	0,10		1.44	·	1.37
3.			1.71			0.25	0,09	0.11		1.19	1.95	
i i	•		1.76		1	0.18	0.09	0.10		1.58		2.61
5			1.77			0.15	0.09	0.09		1.50	1	3.27
ti .			1.35			0.15		0.14		1.43		1.92
17			1.85			0.20		0.13		0.81		1.59
8		2.67	1.41			0.30		0.13		1.91		0.35
9		• • • • • •	1.10			0.35		0.13		0.83		1.32
in I	بابتا راسا		1.32	2.49		0.73	0.07	0.12		0.44	4.88	1.35
11	F -	, 446 . • 500 A	1.41	· hab	3.72		0.06	0.11	·	0.54		1.67
		(}	}		{	ļ			· }			
TAL	· · ·	,			•							
2.1-		• •										

	ver Sy		ļ	River				tvatory			Yea	r
Jei	neber	ang	Je	nebere	urg			li w			197	
~ 21	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG,	SEP	OCT.	HOV.	DEC
1			1.49	1.04	0.50		0.23		0.18		0.07	<u>†</u>
2			1.20	1	1			0.25	*		0.07	1
3			1.03		0.37		1	0.26			0.10	1
4			1.01	0.90	1		1	0.25			0.10	1
5		1.14	1.51	0.90	0.40	·····	}		0.17	1	0.10	1
б		1.60	1.11	0.80	0.40		and the second second second second second second second second second second second second second second second	0.24	+	<u> </u>	0,12	1
7		1.33	2.40	0.70	0.37		1	1	0.17	0,10	0.12	1
8		1.20	1.43	0.80	0.40		*****	0.23	0.18	0.10	}	1
9		1.21	1.19	1.15	0.50			0.23	0.18	1	0.12	*
10		1.71	1.11	1,08	0.33		0.27	0.22	0.17	0.10		<u></u>
				}				1	<u> </u>			
11		1.50	1.05	2.90	0.33		0.25	0.25	0.17	0.10	0.13	1.0
12		1.74	1.00	1.34	0.27		0.23	0.33	0.17	0.10		Y
13		12.46	0.99	1.18	0.31		0.24	0.37	0.17	3	0.13	1
14			1.03	1.04	*		0.23	0.35	0.17	0.10		1.0
15		2.45	1.03	1.01	0.33		0.22	0.32	0.17	T	0.10	.
16		2.17	0.99	0.99	0.33		0.22	0.29	0.15	0.10	_	
17		3.20	1.02	0.97	0.29		0.22	0.25	0.15		0.10	┢┉┉┉┉┉
18		1	1.33	0.85	0.50		0.22	0.21	0.15		0.15	÷
19 -		1.79	1.06	0.99	0.40		0.20	0.20	0.14		0.13	
20			1.05	0.90	0.37		0.20	0.19	0.14		0.16	1.6
										1		
21		1.20	1.00	0.90	0.37		0.20	0.19	0.13		0.16	1.30
22			1.03		0.37		0.20	0.19	0.12		0.19	<u>}</u>
23			1.07		0.29		0.20	0.19	0.14		0.70	f~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
24		· · · · · · · · · · · · · · · · · · ·	0.95	0.50	0.34		0.20	0.19	0.13		0.70	
25		,	1.05	0.33	0.31		0.20	0.19	0.13	1	0.60	
26			0.95		0.25		0.20	0.19	0.13		0.40	*******
27	·		0.90	0.30			0.20	0.19	0.13		0,20	2
28			0.90		0.16		0.20	0.19	0.13		0.20	
29			0.97		0.15		0,20	0.19	0.12		0.75	freedom
30	······		0.96		0.16		0.20	0.19	0.12		0.75	1.3
31			0.93		0.16		0.20	0.19				1.3
		1								}		
TOTAL		1										
ERA-									 	<u> </u>		

- 39 - (a)

Rí	iver Sy	stem	T	River	A 7.50				******	8)	7	****
	ane year					<u> </u>		rvatory			Yea	.r
	3	7		lebera	T	Kei	pili	Weir		·	19	78
0 H	<u>}</u>	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	ocr.	NOV,	DEC.
	1.30	1.00	1.30	1.28	1.09	1.06	1.10	1.18	0.70	0.40	2.50	1.30
2	1.45	1.45		1.20	1.05	1.07	1.67	1.18	1.08	0.40	}	1.23
3	1.60	1.50	1.10	1.17	1.45	1.09	1.43	1.09	1.11	0.40	1	1.33
4	1:55	1.35	1.10	1.14	1.33	1.08	+	1.04	1.05	0.40	2.75	1.38
5	1.40	1.45	1.15	1.63	1.29	1.10	And the second s	1.01	1.02	0:,30	2.50	1.38
6	1.35	1.70	1.45	1.55	1.23		1.70	8.75	0.90	0.30	2.75	1.34
7	1.40	1.70	1.45	2.20	1.18	1.30	1.43	7.75	1.11	0.40	0.30	1.25
8	1.30	1.35	1+43	1.55	1.12		1.28	6.75	1.18	0.40	0.30	1.13
9	2.65	1.25	1.53	1.98	1.07	the second second second second second second second second second second second second second second second s	1.45	0.60	1.25	0.40		1.11
10	2.60	1.45	1.50	1.65	1.04	2.45	1.07	5:70	1.27	0.40	9.30	1.27
					ļ		 					
11	Section and the section of the secti	1.30	1.58	1.45	1.23	1.50	1.07	5.75	1.17	0.40	1.13	1.13
12	2.05	1.35	1.45	1.28	1.19	1.40	1.08	0.50	1	0.40	1.26	1.09
13	1.85	1.35	1.30	1.25	1.24	1.33	1.23	0.50	1.10	0.30	1.08	2.40
14	1.50	1.25	1.23	1.18	1.24	1.45	1.45	0.50	0.70	0.30	1.04	2.15
15	1.45	1.18	1.18	1.33	1.33	1.35	1.28	8.50	6.50	0.30	5.02	1.58
16	1.45	1.20	1.20	1.23	1.85	1.24	1.21	0.60	0.60	0.30	1.05	1.35
17	1.45	1.25	1.15	1.19	1.63	1.19	1.08	0.60	0.60	0.40	0.90	1:38
18	1.28	1.60	1.15	1.10	1.43	1.23	1:08	1.09	0.50	0.30	4.55	1.35
19	1.58	1.60	1.10	1.05	1.33	1.22	1.04	1.09	2.25	0.30	5.06	1.28
20	1.43	1.40	1.05	1.00	1.23	1.33	1.08	1.08	0.20	0.30	9.55	1.13
			·									
21	1.43	1.55	1.05	9.85	1.20	1.19	1.07	0.80	0.15	0.30	5.25	1.40
22		1.43	1.07	1.00	1.11	1,09	1.05	0.60	0.60	\$	5.53	
23	1.40	1.30	1.18	1.14	1.08	1.07	1.04	0.60	0.50		1.08	
24		1.20	1.70	1.15	1.23	1.06	1.05	0.60	0.50	9,20	1.15	2.50
25	1.40	1,15	4.80	1.15	1.15	1.08	1.02	0.50	0.40	1.50	1.50	2.23
26	1.30	1.15	1.45	1.13	1.15	1,38	9.00	0.50	0.40	0.40	1.40	1.95
27	1.20	1.35	1.38	1.05	1.11	1.43	8.50	0.50	0.40	0.40	1.35	1:75
28	1.15	1.45	1.32	1.05	1.09	1.33	8.45	0.50	0.40	0.40	.23	2.20
29	1.07		1.33	1.25	1,09	1,22	9.10	0.50	0.40	0,30	1.13	1.90
30	1.05		1.24	1.13	1.19	1.18	1.13	0.50	0.40	2.50	1.15	1.80
31	1.03	-	1.20		1.06		1.08	0.50		2.50		1.85
TOTAL												
VERA-												
E						l		L	L			

Table 3.4Stroam stage records at Kampili wair (8)

- 39 - (b)

Table 3.4 Stream stage records at Kampili weit (9)

ទេរ	ver Švs	1.355				ords e			0913			~~
	. <u></u>			River			Obser	vatory			Year	<u> </u>
~~~~~	epera			teden	ing	Kaj	apili	weir			197	9
N C	JAN.	FCB.	MAR,	APR.	MAY.	JUNE.	JULY.	AUG,	SEP.	OCT,	nov.	DEC.
	1.55	1.02	1.60	1.28	1.34	0.92	0.45	0.22	Q. 10.	0.12	0.14	
2	1.35	3.30	1.35	1.21	1.33	0.93	0.45	0.22	0.10	0.15	0.14	
3	1.45		1.17	1.27	1.65	1.35	0.40	0.21	0.10	0.12	0.17	
4	0.88		1.35	1.17	1.49	0.92	0.40	0.20	0.10	0.11	0.16	
. '5	1.45	1.37	1.25	1.25	1.37	0.98	0.40	0.20	0.11	0.11	0,17	
6	1.95		1.22	1.32	1.37	1.43	0.60	0.24	0.12	0.11	0.16	
7	2.78	1.16	2.20		1.45	1.35	0.50	0.23	0.12	0.12	0.17	
8	<u>}</u>	1.24	2.20	1.68	1.55	1.17	0.50	0.23	0,12	0.12	0.15	
9		1.21	2.30	1.38	1.37	1.22	0.50	0.24	0.12	0.11	0.16	
10	2.65	.1., 19	5.05	1.35	1.25	1.27	0.50	0.21	0.12	0.10	0.15	
· ·												
.11	3.35	1.16	2.25	1.33	1.30	1.23	0.36	0.18	0.12	0.10	0.14	
12	2.48	1.14	2.05	1.18	2.15	1.12	0.46	0.18	0.12	0.90	0.14	
13	2.15	1.25	1.85	1.15	1.55	1,05	0.40	0.17	0.13	0.10	0.10	
14	1.65	1.27	1.62	1.11	1.45	0.99	0.39	0.17	0.14	0.10	1.05	
15	1.45	1.40	1.47	1.07	1.35	1.04	0.38	0.16	0.14	0.09	1.03	0
16	1.68	1.25	1.37	-1.05	1.28	1.09	0.37	0.15	0.13	0.09	1.00	U
17	1.58	1.40	7.45	1.17	1.22	1.03	0.35	0.14	0.12	0.09	1.00	54
18	1.70	1.43	1.27	1.22	1.19	0.90	0.32	0.13	0.12	0.10	1.01	22
19	1.47	1.27	1.23	1.13	1.16	0.89	0.40	0.13	0.11	0.09	0.60	~~~~ <b>#</b> ~~~~
20	1.35	1.35	1.35	1.07	1.09	0.95	0.37	0.12	0.09	0.11	0.40	NO
				•								
21	1.32	1.43	1.52	1.08	1.11	1.02	0.37	0.12	0.09	0.14	0.20	
22	1.28	1.32	1.42	1.45	0.99	0.90	0.32	0,12	0.08	0.16	0.20	
23	1.47	1,23	1.33	1.35	1.02	0.93	0.32	0.12	0.08	0.28	0.20	
24	1.27	1.20	1.22	1.35	0.98	0.93	0.30	0.11	0.08	0,20	0.20	
25	1.16	1.23	1.19	1.35	0.96	0.90	0.28	0.11	0.09	0.20	1.06	
26	1.35	1.22	1.65	1.45	0	0.92	0.26	0.11	0.09	0.19	1.10	
27		2.45	1.35	1.55	0	0.90	0.25	0.10	0.08	0.17	1.06	
28	1.20	2.25	1.33	1.27	0.94	0.49	0.25	0.10	0.09	0.16	1.04	
29	1.09		1.80	1.24	0.92	0.48	0.23	0.10	0.09	0.16	1.05	
30	1.06		1.70	1.43	0.93	0.46	0.23	0.10	0.10	0.16	1.07	
31	1.03	-	1.55	-	0.91	-	0.23	0.10	-	0.15	-	
	<b>†</b>		t		!							
TOTAL	† · ·	•			1					1		
AVERA-	<u>}</u>									}		
CE	}	) 		L	<u> </u>	}		<u>}</u>	}	<u> </u>	L	
•••	· ·					-						
					- 4	0 -						

~~~~	ver Sys			River		<u> </u>	Ohser	vatory			Yea	r
31	neser	ang	Ĵ	Dober	un,z		Kamp	ili we	eir		198	0
<u> </u>	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUC.	SEP.	OCT,	NOV.	DEC
1	1.48	1.05	1.63	1.29								1
2	1,48	1.04	1.53	1.23								
3	1.55	1.06	1.43	1.24								
4	1.48	1.38	1.45	1.22								ĺ
5	1.58	1.23	1.55	1.48								<u>}</u>
6	1.63	2.00	1.33	1.35					{			
7			1.24			<u> </u>				<u> </u>		ļ
8			1.20						}		· .	
	2.35									} .		
10	2.10	1.53	1.65	1.50	}						ļ	ļ
	L					<u> </u>			<u> </u>	<u> </u>		ļ
11			1.45		à				<u> </u>	<u> </u>		ļ
12			1.33				L	<u> </u>	<u> </u>			ļ
13	1.65	÷		÷				ļ		ļ		}
14	1.53						<u> </u>	<u> </u>	ļ		<u> </u>	
	1.39			**************************************			Ì	ļ 	1			
and the second	1.55			*****				<u></u>				ļ
17	1.53	2.15	1.35	1.73	i ; i		<u> </u>	<u> </u>	<u> </u>			1
	1.38	*			4		}	<u> </u>	}		<u></u>	Į
19	3.30	1.55	1.65	1.45	<u> </u>		<u> </u>		<u> </u>	1		ļ
20	2.65	1.48	1.80	1.43			<u> </u>		<u>}</u>	ļ		<u> </u>
			<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u></u>		ļ
21	2.20	1.43	1.68	1.34	<u> </u>	· ·			<u>}</u>	ļ		<u> </u>
22	2.25	1.65	1.45	1.31				<u> </u>) 		<u> </u>
23	1.65	1.70	1.39	1.58	ļ		ļ		1			
24	1.45	1,80	1.36	1.38	<u> </u>					1		+
25	1.32	1.65	1.43	1.30	<u> </u>			<u></u>	<u></u>	-	<u> </u>	·
26	1.23	1.53	1.38	1.38	Ì				<u>.</u>			<u> </u>
27	1.23	1.80	1.34	1.36	; ;	_		ļ	<u> </u>			
28	1.15	1.59	1.33	1.38				} 	. <u> </u>			4
29	1.24	1.58	1.30	1.73	<u>į</u>			<u></u>	<u></u>		<u> </u>	
30	1.15		1.34	1.45	1			<u> </u>			4	ļ
31	1.08	-	1.38	-				ļ			+	<u> </u>
	T	1				<u> </u>	1	1	<u> </u>		<u> </u>	ļ
IOTA	ų			1	}			1		-	_	1
ERA	1	·		1	T	1	1				}	

Table 3.4 Stream stage records at Kampili main (10)

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	ver Sy		<u></u>	River			Obser	evatory	1		Yea	IT.
Jose	beren	8	Kamp	ili c	anal	K	ampili	L (BI	1)		197	7
	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	DCT,	NOV.	DEC.
1	0.00	0.00	0	0.40	0.70	0.00	0.38	0.30	0.22	0.00	0	0
2	0.00		0	0.40			0.39) }	0.20	0.00	0	0
3		<u> .</u>	0	0.40	0.70		0.39	1	0.20	0.00	0	0
4	 	0.04	0	0.40	0.70		0.39	1	0.19	0.00	0	0
5		0.11	0	0.30	0:70		0.41	0.26	0.19	0.00	0	0
6		0.11	0	0.30	0.70		}	(0.18	0.00	0	0
7		0.20	0	0.30	0.54		0.47	0.25	0.18	0.00	0	0
8		0.30	o	0.40	0.70		0.50	0.25	0.21	0	0	0
9		0.40	0	0.40	0.50		0.47	0.25	0.20	0	0	0
10		0.40	0	0.40	0.50		0.46	0.24	0.19	0	0	0
				} 					}			
11		10.40	0.50	0.40	0.49		0.43	0.23	0.19	0	0	0
12		0	p.50	0.20	0.40		0.40	0.30	0,18	0	0	0
13	}	0	p.50		0.38		0.40	0.40	0.18	0	0	0.40
14		0	p.50	0.20	0.51		0.39	0.38	0.18	0	Ö	0.40
15		0	p.50	0.20	0.49		0.39	0.36	0.18	0	0	0.28
16	{ 	0	0.50	0.20	0.45		0.38	0.33	0.16	0	0	0.40
17		0	b.50	0.20	.0.49		0.38	0.29	0.13	0	0	0.40
18		0	0.50	0.20	0.65				0.13	0	0	0.65
19		0	0.50	0.40	0.65		0.35	0.21	0,12	0	0	0.43
20		0	0.50	0.40	0.65		0.34	0.20	0.12	0	0.20	0.50
	} 	Ì	}	ļ				}				L
21		0	0.50	0.40	0.65			,	0.11		0.20	0.60
22		0	0.50	free and the second second second second second second second second second second second second second second	0.65		7		0.10		0.20	0.60
23	Í. 	0	0.50	0.50	0.53		0.34	0.20	0.12	0	0.33	0.60
24		0	0.50	0.50	0.58				0.11	*	0.40	0.20
25		<u> </u>	0.50	f annound the second	0.37		7		0.11		1	0.80
26		0	0.30		0.29			1	0.11		{	0.85
27		0	0.30	******	0.25			· · · · · · · · · · · · · · · · · · ·	0.11	1	1	0.90
28		0	0.30	÷	0.23				0.11			0.90
29			0.30	÷	0.21				0.10		·	0.95
30			0.30	0.70	0.21	 		·····	0,10	1	0.25	0.95
31	0.00		0.35		0.21		0.34	0.23		0		0.95
	ļ	1	<u> </u>	ļ	<u> </u>	ļ	Į	 	ļ 	 	<u> </u>	
TOTAL	f	1		L	<u></u>	<u> </u>		ļ		·	<u> </u>	
era-						1 · · ·		}		{		

Ri	ver Sys	tem		River			Obser	vatory		}	Year	r
Jone	ge Lon	š	Kanp	ili ca	100		Kampi	li (BL.1)		197	18
N.	JAN.	FCB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	ocr.	HOV.	DEC.
3	0.90	0.85	0.90	0.60	0.50	0.50	0.50	0.50		0.50		0.50
2	0.90	0.65	0.80	0.60	0.50	0.50	0.50	0.50	0.70		0.30	0.50
3	0.50	0.70	0.80	0.60	0.50		0.50	0.50			0.35	0.50
4	0.10	0.90	0.80	0.60	0.50	0.50	0.50	0.50	0.70		0.35	0.50
5	0.30	0.90	0.80	0.60	0.50		0.50	0.50			0.30	0.50
6	0.60	0.90	0.80	0.60	0.50		0.50	0.50	0.70		0.35	0.40
7	0.80	0.90	0.80	0.50	0.30		0.50	0.50	0.30		0.40	0.40
8	0.80	0.90	0.80	0.50	0.40	h	0.50	0.50	0.30	0.50	0.40	0.40
9	0.80	0.90	0.80	0.50	0,50	+	0.50	0.50	0.30	0.50	0.40	0.40
10	0.55	0.90	0.80	0.50	0.50	0.50		0.50	0.30	A	0.40	0.40
- , , , , , , , , , , , , , , , , , , ,			f			h						
11	0.30	0.90	0.80	0.40	0.50	0.50	0.50	0.50	0,30	0.50	0.40	0.50
12	0.50	0.75	0.80	0.40	0.50	0.50	0.50	0.50	0.30	0.50	0.40	0.50
13	0.50	0.85	0.80	0.40	0.50	0.50	0.50	0.50	0.30	0.40	0.40	0.50
14	0.85	0.90	0.80	0.40	0.50	0.50	0.50	0.50	0.30	0.40	0.40	0.50
15	0.85	0.90	0.80	0.15	0.40	0.50	0.50	0.60	0.30	0.40	0.38	0.60
16	0.85	0.90	0.80	0.30	0.35	0.50	0.50	0.60	0.30	0.40	0.30	0.70
17	0.85	0.85	0.80	0.30	0.35	0.50	0.50	0.60	0.30	0.50	0.30	0.70
18	·	0.90	0.BO	0.50	0.35	0.50	0.50	0.60	0.30	0.40	0.20	0.7
19	0.85	** * * * * *** ****	0.80	0.50	0.35	0.50	0.50	0.60	0.30	0.40	0.20	0.7
20			0.80		0.35	0.50	0.50	0.60	0.20	0.40	0.20	0.7
	· •	4	+			1	1	1		<u> </u>	 	1
21	0.65	0.80	0.80	0.50	0.35	0.50	0.50	0.60	0.15	0	0.30	0.6
22	0.55	0.70	.f	- j	0.50	0.50	0.50		0.40	0	0.30	0.7
23	0.75	0.80			0.50	- <u>↓</u>	0.50	0.60	0.50	0	0.30	0.7
24	. i	0.80		- 	0.50		0.50	0.55	0.50	0.20	0.30	0.5
25		· • • • • • • • •	0.80		0.50		0.50	0.50	0.50	0.20	0.30	0.7
26			0.80		0.50		0.50	0.50	0.50	0.10	0.30	0.7
27		nga na na 200 y 200	0.80		0.50		0.50	0.50	0.50	10	0.30	0.7
28		0.80		~ <u>↓~~~~</u> ~~~~~~	0.50	· ·∤ ∼∽∽∽∽∽∽	0.50		0.50	0.10	0.30	0.7
29	0.80		0.70		0.50	·┽~───	0.50	0.45	0.50	0.40	0.50	0.7
30	0.80		0.70		0.50		0.50	0.58	0.50	0.35	0.50	0.7
31	0.80	· ••••••••••••••••••••••••••••••••••••	0.60		0.50	<u> -</u> }	0.50	0.69	~	0.35	-	0.7
	•	i		+	Ì		1.	1	1		1	1
TUTA		1	+		<u> </u>	1	1	1	1	1	1	1
AVERA			+		1	1	+	1	1	1	1	1
GE		1					1	<u></u>		<u> </u>	L	J

·		AAALITOR GE		~~~~~				1/ 1/3.		-
Riv	ver System	River			Obser	vatory			Year	
Jen	eberang	Kampili on	<u>eal</u>	ł	(ampil	1 (B	L-1)		1979	•
12 - 23	JAN. FEB.	MAR. APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT,	NOV.	DEC.
1	0.70 0.40	0.40 0.40	0,40	0.60	0.25	0.25	0.13	0.15	0.14	
	0.70 0.40	0.40 0.40	0,40	0.60	•			0.18	0.16	
3	0.30 0.40	0.40 0.40	0.40	0.60	(0.15	[
4	0.30 0.40	0.40 0.40	0.40	0,60	1	2	1	0.14	1	
A		0.40 0.40		0.60	0	0.23	0.14	0.14	0.20	
6	0.30 0.40	0.40 0.40	0.40	0.60	0	0.27	0.15	0.14	0.19	
7	0.30 0.40	0.40 0.40		0.60	0.25	0.26	0.15	0,15	0.20	
5	0.30 0.40	0.40 0.40	0,40	0.55	0.35	0.26	0.15	0.15	0.19	
0	0.30 0.40	0.40 0.40	0,40	0.50	0.40	0.27	0.15	0.14	0.19	
10	0.30 0.40	0.40 0.40		0.50						
				ļ		}				
13	0.30 0.40	0.40 0.40	0.40	0.50	0.43	0.23	0.15	0.13	0.17	
12	0.20 0.40	0.40 0.40	0.40	0.50	0,60	0.23	0.15	0.12	0,17	
13	0.20 0.40	0.40 0.40	0.40	0.50	0.50	0.21	0.16	0.13	0.17	
14	0.20.0.40	0.40 0.40	0.40	0.50	0.49	0.21	0.17	0.13	0,17	
15	0.20 0.40			0,10	0.44	0.20	0.17	0.12	0.10	RECOR
16	0.20 0.50			0	0.40	0.18	0.16	0.12	0	Ŭ Ŭ
17	0.30 0.60			0	0.38	0.17	0,15	0.11	0	<u></u>
18	0.40:0.60							0.12	1	
19	0.40 0.60		<u></u>	-t			r	0.11	,	
20	0.40.0.60	0.40 0.50	0,40	0.70	0.40	0.15	0.13	0.13	0	
		· · · ·	ļ		}	<u> </u>	}	<u> </u>	<u>`</u>	<u> </u>
Beatries Parkin	م المنتخب المراجعة التي الم المانية (and a line and a line and a line and a line and a line and a line and a l	0.40 0.60			{		1	0,16	· · · · · · · · · · · · · · · · · · ·	
- 	ta manun, sa manunta internationale.	0.40 0.60					>	0.17	2 · · · · · · · · · · · · · · · · · · ·	
Summer of the second second second second second second second second second second second second second second		0.40 0.60		2	1	4	3	0.19	1	├│
		0.40 0.60	-	ł	1	1 · · ·	i	0.18	1	
3	A CONTRACTOR AND A CONTRA	0.40 0.60			1	1	4		1	
		0.40 0.60								
27		0.40 0.60								<u> </u>
29		0.40 0.60			1			0.16	(
29	4 1 1	0.40 0.60	0.60	0.70		,	*	0.16	· · · · · · · · ·	ļ
30	0.40	0.40 0.40					1	0.15	7	
31	0.40	0.40	0.60		10.26	0.13		0,14	0	<u> </u>
	ļ	ļ	1		<u>}</u>	1	1	<u>}</u>		<u> </u>
TOTAL					<u> </u>		<u> </u>	<u> </u>	 	
AVERA-									<u> </u>	
GE		-h	÷	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						

Table 3.5 Overflow depth records at Kempili (BL;1) weir (3)

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	Tabl	ر و	Overi	low de	opth :	record	s at i	(ampil	<u>i (BL</u>	<u>1) w</u>	<u>pir (</u> 7)
R1	ver Svs	tem	<u> </u>	River			Obser	vatory			Yea	
Jens	90191	6	Kazy	111 6	nal		Kampi]	Li (B	L-1)		198	0
DM	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG	SEP.	ocr.	Nov.	DEC.
1	0.65	0,60	0	0.50							· ·	
2	0.65	0.60	0	0.53						· ·		
3	0.65	0,80	0	0.55	,						†	
4	0,65	0,80	0	0.55								
5	0,65	0.40	0	0.55								
6	0,65	0,40	0	0.55								
7	0,65	0.60	0	0.55					_			
8	0.65	0.80	0	0.55								
9		0,80		0.55			l					
10	0.50	0.80	0,70	0.55						· ·	[
11	0.40	0.70	0.70	0.55								
12	0.40	0.40	0,80	0.55								
13		0.40										
14		0.40										
15	0.40	0.40	0	0.55								
16	0.40	0,60	0	0.55							1	
17	0.40	0,80	0	0.55								
18	0.60	0.80	0	0.55								
19	0.40	0.80	0	0.55								
20	0,60	0,80	0	0					[
											1	
21	0.30	0.80	0	0								
22	0	0.80	0	0								
23	0	0.40	Q	0								
24	0	0	0	0								
25	0	0	0	0								-
26	0	0	0	0	1				•			
27	0	0	0	0								
28	0	0	0	0							<u> </u>	
29	0			0								
30	0	••••••••••••••••••••••••••••••••••••••	0	0								
31	0		0,50	-								
	<u> </u>											
TOTAL		<u> </u>			<u> </u>							T
AVERA-		· • • • • • • • • • • • • • • • • • • •	<u> </u>			1		<u> </u>			1	1
GE	1	l : 1	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	l	<u> </u>	<u> </u>	<u> </u>

•

Ri	ver Sys	tem		River		recor				—r		
<u>. </u>	ebera							vatory		<u></u>	Yea	
$\overline{}$				epersi	Г — ——	ļ	B111-F	3111 (Intake)	19	79
<u>D</u>	JAN.	FCB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1			·			ļ	0.76	0.36	0.35	0.36	0.33	
2						ļ	0.74	0.40	0.34	0.40	0.31	l
3	·					ļ	0.94	0.39	0.33	0.37	0.30	
4				<u> </u>		ļ	0.89	0.49	0.32	0.35	0.31	
5	· ·						1.07	0.55	0.36	0.37	0.40	
6	·						1.35	0.55	0.35	0.37	0.35	
7			····				1.18	0.55	0.35	0.35	0.37	
8								0.55				
9							+	0.55				
10								0.57				
							<u> </u>					
11			· · · · · · · · · · · · · · · · · · ·			1	0.98	0.52	0.37	0.32	0.30	
12						1	0.95	0.51	0.34	0.30	0.78	j
13						1	0.87	0.53	0.36	0.30	0.52	
14								0.50				
15								0.50				
16					·	1		0.47				
17						{		0.45				
18						<u> </u>	0.70	0.48	0.33	0.30	0.57	
19	·					┧─────	0.10	0.46	0.32	0.29	0.56	
20						<u> </u>		0.45				
					· · · · · · · · · · · · · · · · · · ·	 	10,14	0.45		-V. 21	V. 77	
21						┼	0 76	0.45	0.30		0 52	- -
22					· · ·	┨────	T	0.45				
	· ····	·			<u> </u>	┽────	T. – – –	0.45				
23				 			1	0,44	•		· · · i	·
24					<u> </u>		ļ	0.43	1 -	1		
25		 			 	<u> </u>		0.43		l i		
26	·							0.42	1			1
27					<u> </u>	<u> </u>		0,38				4
28							Ţ	0,40				
29	· · ·				ļ	<u> </u>		0.43				
30				·	 		0.61	0.45			1,06	
31		•	 		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>	0.46		0.35		
			ļ		ļ		<u> </u>	 				
TOTAL						<u> </u>	ļ	[ļ
AVERA-					}	{	1	{	[· .	

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Ri	ver Sys	tem		River			Obser	vatory			Yea	r ·
Jer	ebera	ng	Jen	eboré	18		Bili-	Bili	(Inta)	.e)	198	30
M	JAN.	FCB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	tiov.	DEC.
1	1.34	0.85	1.28		1							
		0,95			· ·							
		1.15										
	1.36	• •	1.33		[
	1.36	1 1	1.23						{			
6	1.53	1.98	1.10							; ;		
7	1.81	1.90	1.05					······	}	}	1	
8	1,86	1.58	1.15									
9	2.65	1.40	1.40		į		{				1	
		1,28										
11	1.80	1.23	1.08			1						
.12	1.45	1.87	0.96								.	
13	1.34	2.03							}	1		}
14		2.07										
15	1.18	1.97	1.39				<u> </u>		1			1
16	1.37	1.73	1.30									
17.	1.26	1.77	1.90			<u> </u>			{		1	}
18	1.20	1.45	1.55		<u> </u>		 	<u> </u>		<u> </u>	<u> </u>	ļ
19	2:75	1.30	-1.53			<u> </u>	ļ			<u> </u>	<u> </u>	
.20	.2.13	1.31	1.63]	<u> </u>	<u> </u>	Ĺ
]		[<u> </u>		<u> </u>	<u> </u>	ļ	<u> </u>	<u> </u>	<u>}</u>
21	1.82	1.32	1.50	[Í		<u> </u>	1	1
22	1.69	1.54	1.33		ļ	<u> </u>	}	<u> </u>	<u> </u>	ļ	1	ļ
23	1.44	1,81	1.18					ļ	} 			<u> </u>
24	1.25	1.65	1.20		ļ			ļ	<u> </u>	ļ		ļ .
25	1,23	1.35	1.18	 	ļ			ļ			ļ	<u>}</u>
26	4	1,65	1		<u> </u>	<u> </u>		<u> </u>	ļ		<u> </u>	<u> </u>
27	1.00	1,43	1.08	ļ	<u> </u>		<u> </u>	<u>}</u>	<u> </u>			ļ
28	0.99	1.30	1.20	 		ļ	ļ			<u> </u>		
29	0.95	1.38	1.23		<u> </u>		<u> </u>	<u> </u> 	<u></u>	<u> </u>	<u></u>	<u> </u>
30	0.97	}	1.25		ļ	<u> </u>	<u> </u>	Į	<u></u>	ļ	<u></u>	ļ
31	0.90	1	1.13		<u> </u>	<u></u>	<u> </u>		ļ		1	<u> </u>
					<u> </u>	<u></u>	<u> </u>		<u> </u>	<u> </u>		ļ
TUTAL					<u> </u>	ļ	<u> </u>	ļ	<u> </u>	ļ	<u> </u>	1
AVERA-				1				· ·	} .	}		1
GE	<u> </u>	<u> </u>	L	<u> </u>	L	47 -	<u></u>			-£	_i	

						<u></u>	in Bi	66 - 4 S	E E C F C F C F C F C F C F C F C F C F		.	
	ver Sys			Kiver		ļ	Obser	vatory			Year	
	neber			neber	ang	B	ili-Bi	111 (Canal)	197	9
	JAN.	FEB.	MAR.	APR,	MAY.	JUNE.	JULY.	AUG,	SEP.	ocr.	NOV.	DEC.
_1					{ 		0.76	0.36	0.35	0.36	0,33	
2							0.75	0.40	0.34	0.40	0,31	
3							0.95	0.39	0.33	0.37	0,30	
4	·	} 					0,89	0.49	0.32	0.35	0.31	
5							1.07	0.55	0.36	0.37	0.40	
6	·	<u>}</u>		 		}	1,24	0.55	0.35	0.37	0,35	
7				}					0.35			
8		{ .							0.34			
ģ					1		0.98	0,55	0.36	0.33	0.33	
10		1					0.84	0.57	0.37	0.33	0.32	
							{					
11		1			1	1	0.78	0.52	0.37	0.32	0.30	
12		[1	[1	1			0.34			
13					1				0.36			1
14		1	1				1	1	0.35		ł)
15					1		1	F	0.34			i 1
16		1			1	1	2	T	0.33		4	
17		1	1	1	1	1		7	0.34		1	5 and
18		1	1		1				0.33		3	a
19		1	1					· · · · · · · · · · · · · · · · · · ·	0.32	3	1	7
20			1			1	1		0.30	1	1	l n
		1	1	1	1	1						
21	}	1		1	1	1	0.77	0.45	0.30	0.37	0.52	
22	<u>}</u>	1							0.29			3
23				1	1				0,28	1	1	1
24	<u>}</u>	1		{				3	0.29	•	()	1
25	1	+ 1		1	T			1	0.28	1	1	1
26		+	**	1				1	0.28		7	1
27	†		1	1	1			· · · · · · · · · · · · · · · · · · ·	0.28	(· · ·	1	1
28	1	1		1				1	0,27	4	1	Ş .
29	1		1	1			0.62	0.4	0,28	0.37	1.00	
30	<u> </u>			1	1		0.61		\$ 0.29	1	1	1
31		1	1	1	1			0.4	7	0.35	·····	
	1	+	+	1	1	1						
TOTAL	<u> </u>	+	+	1								
AVERA-	÷	+	+	1	1	1	1	1		1	1	1
CE	<u> </u>	<u>.</u>	1	<u></u>					<u></u>	1		

Table 3.7 Streen sters records in Bili-Bili eanal (1)

- 48 -

Ri	ver Svs	rea		River				vatory		<u>al (2</u>	Ува	 γ
	eberan	g	Jen	eberar	g	B111			Casel	·)	1984	
	JAN.	FEB.	MAR.	APR,	MAY.	()	JULY.		{	OCT.	NOV.	DEC,
1	1.19	0.85	0.98					}				iiiiiiiiiii-
2	1.12	0.95	0.90									
3	1.13	1.03	0.97					{				
4	1.20	1.03	1.05					1				
5	-1.,20	1.05	0.95					}	<u> </u>			
6	1.32	1.68	0.85									
7	1.58	160	0.93	{ 								
8	1.5B	1.33	1.03	{ } •	<u> </u>					}		
9	2.23	1.15	1.25	 								
10	1.80	1.00	1.10							<u> </u>		
		· · · · · · · · · · · · · · · · · · ·	 	ļ 			ļ	Į	<u> </u>	<u> </u>	ļ	ļ
11	1.50	0.95	0.80	<u> </u>	{ 	ļ		<u> </u>	Ì			
12	1.33	1.60	0.84	<u> </u>		<u> </u>			<u> </u>	ļ	<u> </u>	ļ
13	1,11	2.12	0.96	ļ		<u> </u>		· ·	<u> </u>	ļ	<u> </u>	<u> </u>
14			1.59	{	<u>}</u>		<u>}</u>	<u>}</u>	<u> </u>		<u> </u>	<u>.</u>
15			1.09		ļ		<u> </u>		ļ		ļ	<u> </u>
16			1.00	 								
17			1.65	ļ								ļ
18	,		1.23				ļ		1		<u> </u>	
19			1.23		ļ.						·}	
20	128	1.06	1.30				+			- <u> </u>	<u> </u>	<u> </u> .
	· .										<u> </u>	
23	7		1.20	· .	· · · ·		- 				+	
22			1.03				+					+
23			1.93	3			+	}	+			+
24	+		0.95	1	÷	+						
25		5 · · · · · · · · · · · · · · · · · · ·	1.05	1	<u> </u>	-{	+	+	+		+	+
26	· · · · · · · · · · · · · · · · · · ·		1.11	<u>1</u>					+			+
27			1.08			+			+	1	+	 1
			1.05					+		+	+	+
29	7	1	1.00	1	<u> </u>		+		+	+	+	+
	0.70		1.00	4	1		+			+	+	+
31	0.70	<u>.</u>	1.23	<u> </u>	+		+			-	+	+
		{		+	}	+			+		+	+
TOTAL	\$		+						+		1	
AVERA- GE]		<u> </u>	1	<u></u>	

Table 3.7 Stream stage records in Bili-Bili capal (2)

- 49. -

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•

Ri	ver Svi	sten		River			06 ca-	rvatory		1	Tea	
Jen	epera		Je	eneber	ang			-9111		}	19	~~~~~
N N	JAN.	FEB.	MAR.	APR.	MAY.	אורוז		AUG.			<u>.</u>	
Ŀ	*******			{	0.64			0.93				
2					0.77	0.53	0.15	0.85		0. 34		0.93
3				 	0.69	0.52	0.22	0.78			0.55 	
<u> </u>		{		<u> </u>	0.74		0.44	0.75	Carlina -		0.00	
5		1			0.77	0.52	0.44	0.74	5 27	0.47	10. CO	0 71
6		1		{. } }	0.77	0.52	0.43	0.71	<u>V. 31</u>		104000 10-76	6 71
7					0.72	0,52	() X3	0.66	0.42 5. * *	0,70	0.00 0 92	<u>6648</u> 3
<u>s</u>				k k	0.67	0.50	0.+ <u>5</u>	0.63	5 4 7		n 75	<u> </u>
¢		: ;			0.69	0.45	0.50 6 50	0.59	0. *C	0.04	0.77	6.2
10		u i		}	0.74		0.13	0.56	C #4	0.00	m 07	0 21
			5 5	[<u>. V.</u>	. (m. 19. 19. (m. 1)	والعباري بي الماري ا) (and an effer 14	i ura ura i		
11				<u>.</u> };	- -	0 15	6.47	0.55	0.11	0 57	n 07	6.8:
12		: {:		<u>[</u>]				0.53				
<u>1</u> 3		17 17 1	r 6 11	<u> </u>	_			0.51				
<u>14</u>		<u>.</u>		r 1. 1.	1.			0.50				
15		<u> </u>		<u>p</u> t	****			0.48				
16				} };	<u> </u>			0.47				_
17		1		}: }: }:				0.46				
<u>r</u> e		s		<u>}:</u> };				0.46			the second second second second second second second second second second second second second second second s	
 E9) }						0.44				
ZO	****	n [(<u> </u> {;				0.42				
					i w. 70	<u>U, 7 R</u>			· · · · · · · · · · · · · · · · · · ·			* * * ******
(2'E	·····				0 57		0.45	0.12	(n. ž . 7	6.08	0.83	1.05
22		4: 4:	ę Ģ	3(:				0.41				
23		<u>}</u>	}			V.72	6.12	0.40	0 35	0.00	1.01	n 01
 24		st						0.40				
25		<u>11</u>	а }					0.39				
26		:	;					0.39				
20 1			<u>.</u>) 0.33			5	
 2%		н. {	1					0.33				
 79			ş					0.38				
<u> </u>		11 11	î F					0.38				
) }				0.62			0.69		0.5
<u>FR</u>			<u>i</u>		0.67		,	1)	1	1 U. GC	}	رالی توجب
······································			}						<u> </u>		}	!
TOTAL			1	};		<u>;</u>	<u>}</u>)) - -		₩ ¥)
NERS CE						<u> </u>	}		}	<u> </u>	}	
						- 50 -					"	

Taole. 3.8 S	SISTS ROSI	records	c+2	2424 2434		and a second second second	6 . 5	
	· · · · · · · · · · · · · · · · · · ·		No. 10	and the state of the state of the state of the state of the state of the state of the state of the state of the	the same state of the same state of		6 11 2	

Table.	3.8	Stream	stage	recorde	a +	B111-B111			(0)	•
				キャウヘモガウ	Ci Q	-211 -0111	2212122	BURTION	$(\boldsymbol{\mathcal{L}})$	

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	rota.			LA STE	ge re	corda	at Bi	l1-B1)	i gau	ging (statio	n (2)
	er Svs			River			Obser	Vatory		1	Year	
Jen	eberar	35	Je	zeber	ing		B11	1-B11:	L .		197	5
DN	JAN.	FCB.	MAR,	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT,	HOV.	DEC.
1	1.20	0.62	1,18	0.89	1.63	0.97	0.63	0.61	j	0.46	0.88	1,00
2	1.16	0.64	1.18	0.89	1.67	0.97	0.62		0.50		0.84	0.95
3	1.24	0.66			1.80	0.97	0.62	0.57	0.53	0.47	0.81	0.88
4	1.52	0.67	1.17	0.97	1.67	0.98	0.62	0.55	0.56	0.62	0.78	0.85
5	1.34	0.72	1.15	1.00	1.50	1.00	0.61	0.56	0.62	0.70	0.77	0,82
6	1.12	0,84		1.00	0.99	1.00	0.60	0.56	0.60	0.71	0.77	0.95
7	0.58	0,70	1.49	0.99	0.87	0.99	0.61	0,55	0	0.78	0.77	0,96
8	0,48	0.76	1.52	0,98	0,90	0.94	0.59	0.55	0	0.80	1.14	0.95
9	0.60	0.77	1.43	1,02	0,98	0,86		0,55	0	0.73	1.17	0.96
10	0.71	0.81	1.28	1.05	3	0.83		0,55	0.54	0.70	1.14	1,08
					į				-			
11	0.71	<u></u>	1.14	1.10	0.96	0,87	0.57	0,80	0,55	0.68	1.11	1.43
12	0.64	0.85	}			0.92	1	0.80	1	0.66	0.89	1.70
13	the second second second second second second second second second second second second second second second s	0.77	1,28	1.10	0.92	0.92	· · · · · · · · · · · · · · · · · · ·		0.60	1	{	1.56
14		0.74	1.14	1.11	0.93	0.81	0.56	0.71	0,62	0.63	1.31	1.30
15	0.85	0.74	1.27	1.11	0.89	0.75	0.59	0.65	0.59	0.60	1.48	1.24
16	1.23	0.74	1.28	1,21	0,88	0.80	0.57	0.58	0.60	0.56	1.40	1.28
17	1.13	0.74	1.20	1.31	0.87	0.80	0,58	0.59	0,59	0.56	1.28	1.21
18	1,00	0.73	1,21	1.25	1	0.79	{ · · · · · · · · · · · · · · · · · · ·	0.57	Į	0.55	1.15	1,20
19	0.92	0.73	1.20	1.19	0.94	0.75	0.60	0.57	1	0.57	1.06	1,26
20	0.88	0,76	1.23	1,28	0.96	0.75	0.60	0.56	0.53	0.70	1.07	1.29
					<u> </u>	<u> </u>			i			
21	0.85	0.79	1.19	1.26	0.89	0.75	0.60	0.55	0.47	0.83	1,05	1.30
22	0.71	0.79	1.20	1.23	0,89	0.70	0.59	0.56	0.47	0.81	1.00	1.30
23	0.54	0.75	1.13	1.72	0.82	0.69	0.57	0.56	0,48	0.93	1.00	1.23
24	1.15	0.68	1.16	2,28	0.89	0.69	0.62	0.56	0.48	0.76	1.05	
- 25	1.37	0.68	1.09	1.94	0,84	0.68	0.92	0.55	0.47	0.76	1.07	-
26	1.48	-	1.04	1.70	0.91	0.67	0.86	0.54	0.47	0.78	1.10	· -
27	1.38	-	1.07	1.40		0.66			0.60	0.79	1.05	-
28	1.43	-	1.01	1.30	0,96	0.66	0.74	0.52	0.65	0.78	·	
29	1.24		0.97	1.35	{	0.65	0.67	0.52	0.65	0.84		
30	0,87	-	1.04	1.50	0.93	0.64	1		0.53	0,92	1.12	
31	0.63		0.95		0.95	j <u> </u>	0.64	0.50		0.90	-	
					 	ļ			ļ		ļ	
TOTAL					[ļ	ļ			 	ļ	
AVERA-			} :	{				}	1	ļ		{
CE		L	L	ليستنسب	L	d	£	÷	••••••••••••••••••••••••••••••••••••••	······································	+	ليعصب معدا

1	able.	3.8	Stree	a sta	ge rec	ords a	at B11	1-B11	i gaug	ging s	tatio	a (3)
	ver Sys			River				vatory	······································		Year	
Je	nebere	ing	Jer	ebere:	ng		Bili	-Bili			197	6
$\frac{1}{2}$	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	ocr.	NOV.	DEC.
1			1.18	1.06	0.97	0.50	0.58	0.39	0,35		0.56	0.87
2			-	0.71	0.74			0.40		0.35		0.81
3			-	0.75	0.68			0.39			0.50	0.79
-4			-	0.94	0.74			0.39		0.35	0.49	0.7
-5	·		0,99	0.89	0.89			0.38			0.48	0.8
6			0.99	0.90	0.81	0.59	0.52	0.38	0.35	0.35	0.46	0.8
7			0.93	.0.87	0.77	.0.56	0.50	0.37	0.35	0.35	0.46	0.8
8			0.83	0.89	0.83	0.55	0.49	0.37	0.35		0.44	0.7
9			0.87	0.99	0.88			0.37			0.56	··
10			0.87	0.91	0.84				0.35		0.58	
11			0.85	0.84	0.81	0.53	0.49	0.37	0.35	0,35	0.72	0.8
12			1.06	0.76			0.48		0.35		0.63	
13			1.10	0.70		0.55	0.46		0.35		0.56	
14			1.15	0.70		0.53	0.45				0,53	
15			1.24	0.77		0.51	0.43		1		0.53	
16			1,26	0.83		0.49	0.41	1	4		0,53	
17			1.27	0.79	0.65		0.41	0.35			0.57	i — —
18			1.13	0.75	0.64		0.40	0.35			0.63	0,8
19		 	1.61	0.75	0,62	0.54	0,39	0.35		0.35	0,68	0.9
20			1.74	0.76	0.57	0.54	0,39	0.35	0.35	0.35	0.67	0.9
] 				 			<u> </u>			
21			1.45	0.81	0.58	0.53	0.39	0.35	0.35	0.37	0.69	1.0
22			1.19	0.89	0.61	0.53	0.39	0.35	0.35	0,40	0.76	1.0
23			1.15	0.86	0.57	0.51	0.39	0.36	0.35	0,62	0.74	0.8
24		1.24	1.12	0,86	0.56	0.49	0.39	0.36	0.35	0.71	0.74	0.8
25		0.77	1.06	0.81	0.55				0.35	0,65	0.74	0.7
26		1.20	1.06	0.75	0.54	-		1	0.35		0.75	0.7
27		1.46	0.99	0.69	0.50	0.45	0.39	0.36	0.35	0.61	0.76	1.0
28		1.44	0.93	0.71	0.51	0.48	0.39	0.36	0.35	0.56	0.72	1.1
29		1.33	0.90	0.69	0.50	0,59	0.39	0.35	0.35	0.54	0.77	1.0
30		-	1.12	0,94	0.50	0.60	0.38	0.35	0.35	0.54	0.92	0.9
31		-	1,26		0.50		0.40	0.35	-	0.55	; _	0.9
		ļ	ļ			<u> </u>			 	<u> </u>		
TOTAL	Į	ļ	ļ	_	<u> </u>	<u> </u>		<u> </u>	 		<u> </u>	<u> </u>
AVERA- GE	1			1								

Table. 3.8 Streen stage records at Bili-Bili gauging station (3)

- 52 -

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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$						- <u>6</u> - 1	cords	at Bi	11-B1	li gau	ging	static	<u>m (4)</u>
3 M JAN. FEB. MAR. APR. MAY. JUNE. JULY. AUG. SEP. OCT. HOV. DEC. 1 0.91 0.77 1.17 0.76 0.64 0.32 0.32 -0.05 -0.08 -0.09 0.40 0.92 0.92 0.73 1.06 0.76 0.58 0.32 -0.05 -0.08 -0.09 0.40 0.90 0.41 0.55 0.32 0.32 -0.05 -0.08 -0.09 0.35 4 1.25 0.76 0.96 0.66 0.59 0.31 0.29 -0.06 -0.08 -0.09 0.38 5 1.18 1.41 1.07 0.22 0.33 0.22 -0.06 -0.08 -0.06 0.20 0.27 -0.06 -0.08 -0.06 0.12 1.14 1.16 1.12 0.45 0.30 0.27 -0.06 -0.08 -0.07 0.45 1 1.62 1.26 0.89 1.80 <t< td=""><td></td><td></td><td></td><td>·······</td><td></td><td></td><td></td><td>Obser</td><td>vatory</td><td></td><td></td><td>Yea</td><td>r</td></t<>				·······				Obser	vatory			Yea	r
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			ng	Je	neber	ang		Eili	-Bili			19	77
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D_M	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1		0.77	1.17	0.76	0,64	0.32	0.32			_		
3 0.97 0.69 0.95 0.71 0.55 0.32 0.92 -0.05 -0.08 -0.09 0.35 4 1.25 0.76 0.96 0.56 0.31 0.31 -0.05 -0.08 -0.09 0.38 5 1.18 1.14 1.17 0.62 0.56 0.31 0.29 -0.05 -0.08 -0.09 0.38 6 1.29 1.43 1.06 0.51 0.50 0.30 0.28 -0.06 -0.08 -0.06 -0.08 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.07 -0.25 10 1.74 1.40 0.90 1.20 0.50 0.32 0.27 -0.066 -0.08 -0.07 0.45 11 1.62 1.26 0.85 1.01 0.48 0.27 -0.066 -0.09 -0.06 -0.09 -0.06 -0.09 -0.06 -0.09 -0.06 -0.2	2				0.76								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	3				0.71	0.55		0.32				<u> </u>	
5 1.18 1.14 1.17 0.62 0.56 0.31 0.29 -0.05 -0.08 -0.07 0.29 6 1.29 1.43 1.00 0.61 0.54 0.30 0.24 -0.06 -0.07 0.45 10 1.74 1.40 0.90 1.20 0.50 0.32 0.27 -0.06 -0.06 -0.07 0.45 11 1.62 1.26 0.89 0.46 1.30 0.27 -0.06 -0.06 -0.07 0.21 11 1.62 1.26 0.85 1.01 <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.31</td> <td></td> <td></td> <td></td> <td></td> <td></td>	4							0.31					
7 2.03 1.12 1.54 0.59 0.50 0.30 0.28 $-0.06 - 0.08 - 0.06$ 0.14 8 1.87 1.07 1.22 0.83 0.56 0.31 0.27 $-0.06 - 0.08 - 0.06$ 0.15 9 1.79 1.16 $-$ 1.35 0.58 0.35 0.27 $-0.06 - 0.08 - 0.07$ 0.29 10 1.74 1.40 0.90 1.20 0.50 0.32 0.27 $-0.06 - 0.06 - 0.06 - 0.07$ 0.45 11 1.62 1.26 0.89 1.40 0.447 0.88 0.27 $-0.06 - 0.06 - 0.06 - 0.07$ 0.21 13 1.50 1.54 0.85 1.01 0.48 1.11 0.26 $-0.06 - 0.09 - 0.06$ 0.22 14 1.47 1.92 0.85 0.48 0.75 0.22 $-0.06 - 0.09 - 0.05$ 0.28 15 1.40 2.25 0.85 0.48 0.75 0.22 $-0.06 - 0.09 - 0.05$ 0.51 16 1.34 2.15 0.83 0.78 0.48 0.60 0.19 $-0.06 - 0.09$	5						0.31	0.29					
8 1.87 1.07 1.22 0.83 0.56 0.31 0.27 -0.06 -0.08 -0.06							0.30	0.24		-0,06	-0.08	-0.06	0.20
9 1.79 1.16 1 1.35 0.50 0.17 0.27 0.27 0.06 0.08 0.07 0.29 10 1.74 1.40 0.90 1.20 0.50 0.32 0.27 0.06 0.08 0.07 0.45 0.07 0.45 0.27 1.0.06 0.08 0.07 0.45 0.27 0.29 0.56 0.32 0.27 0.06 0.08 0.07 0.45 0.27 0.26 0.08 0.07 0.45 0.27 0.26 0.08 0.07 0.45 0.27 0.26 0.08 0.07 0.45 0.27 0.26 0.08 0.07 0.45 0.27 0.26 0.08 0.07 0.45 0.27 0.26 0.08 0.07 0.45 0.27 0.26 0.08 0.07 0.45 0.27 0.26 0.08 0.07 0.21 0.26 0.08 0.07 0.21 0.21 0.22 0.26 0.08 0.07 0.21 0.22 0.26 0.08 0.07 0.22 0.26 0.09 0.06 0.09 0.06 0.22 0.26 0.08 0.09 0.22 0.26 0.06 0.09 0.06 0.22 0.26 0.09 0.06 0.09 0.06 0.22 0.25 0.85 0.83 0.48 0.75 0.22 0.06 0.09 0.06 0.28 0.51 1.40 2.25 0.85 0.83 0.48 0.60 0.19 0.06 0.09 0.05 0.55 0.71 0.25 0.52 0.15 0.06 0.09 0.05 0.55 0.71 0.25 0.55 0.76 0.08 0.06 0.09 0.05 0.55 0.51 1.22 0.90 0.75 0.55 0.76 0.08 0.00 0.09 0.05 0.55 0.51 1.2 0.22 0.90 0.75 0.55 0.76 0.08 0.00 0.09 0.05 0.51 0.13 1.21 0.48 0.67 0.46 0.62 0.04 0.05 0.00 0.09 0.05 0.51 0.22 0.00 0.05 0.55 0.76 0.08 0.00 0.09 0.05 0.51 0.22 0.31 1.21 0.56 0.52 0.55 0.76 0.08 0.00 0.09 0.05 0.51 0.22 0.00 0.05 0.55 0.76 0.08 0.00 0.05 0.09 0.05 0.51 0.22 0.38 0.49 0.05 0.00 0.05 0.09 0.05 0.51 0.22 0.00 0.75 0.55 0.76 0.08 0.00 0.05 0.09 0.05 0.51 0.22 0.38 0.49 0.005 0.00 0.05 0.09 0.05 0.51 0.22 0.00 0.75 0.55 0.76 0.08 0.00 0.00 0.05 0.90 0.25 0.51 0.00 0.05 0.00 0.05 0.90 0.05 0.51 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.05 0.90 0.05 0.51 0.00 0.05 0.00 0.00 0.05 0.00 0.00 0.05 0.00 0.00 0.05 0.00 0.05 0.00 0.00 0.05 0.00 0.00 0.05 0.00 0.00 0.05 0.00 0.00 0.05 0.00 0.00 0.05 0.00 0	7			1.54			0.30	0.28		-0.06	-0.08	-0.06	0.14
10 1.74 1.40 0.90 1.20 0.50 0.27 -0.06 -0.08 -0.07 0.45 11 1.62 1.26 0.89 1.80 0.47 0.88 0.27 -0.06 -0.08 -0.07 0.86 12 1.56 1.34 0.86 1.18 0.46 1.30 0.27 -0.06 -0.08 -0.07 0.21 13 1.50 1.54 0.85 1.01 0.48 1.11 0.26 -0.06 -0.09 -0.06 -0.22 14 1.47 1.92 0.85 0.89 0.46 0.93 0.26 -0.06 -0.99 -0.05 0.05 0.05 0.05 0.06 -0.9 -0.05 0.006 0.09 0.0	8			1.22			0.31	0.27		-0.06	-0.08	-0.06	0.15
10 1.74 1.40 0.90 1.20 0.50 0.27 -0.06 -0.08 -0.07 0.45 11 1.62 1.26 0.89 1.80 0.47 0.88 0.27 -0.06 -0.08 -0.07 0.86 12 1.56 1.34 0.86 1.18 0.46 1.30 0.27 -0.06 -0.08 -0.07 0.21 13 1.50 1.54 0.85 1.01 0.48 1.11 0.26 -0.06 -0.09 -0.06 -0.22 14 1.47 1.92 0.85 0.89 0.46 0.93 0.26 -0.06 -0.99 -0.05 0.05 0.05 0.05 0.06 -0.9 -0.05 0.006 0.09 0.0	9			-	1.35	0,58	0.35	0.27		-0.06	-0,08	-0.07	0.29
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	10	1.74	1.40	0.90				0.27		-0.06	-0.08	-0.07	0.45
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$													
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11	1.62	1.26	0.89	1.80	0.47	0.88	0,27		-0.06	-0.08	-0.07	0.86
14 1.47 1.92 0.85 0.89 0.46 0.93 0.26 $-0.06-0.09$ -0.06 0.28 15 1.40 2.25 0.85 0.83 0.48 0.75 0.22 $-0.06-0.09$ -0.05 0.31 16 1.34 2.15 0.83 0.78 0.48 0.60 0.19 $-0.06-0.09$ -0.05 0.51 17 1.24 2.43 0.85 0.71 0.56 0.52 0.15 $-0.06-0.09$ -0.05 0.51 18 1.15 2.32 1.05 0.71 0.63 0.96 0.11 $-0.06-0.09$ -0.05 0.59 19 1.28 1.29 0.90 0.75 0.55 0.76 0.08 $-0.06-0.09$ -0.05 0.51 20 1.13 1.21 0.84 0.67 0.46 0.62 0.04 -0.05 -0.06 -0.09 -0.5 0.51 21 1.06 1.06 0.82 0.64 0.38 0.49 -0.05 -0.06 -0.09 <	12	1.56	1.34	0.86	1.18	0,46	1.30	0,27		-0.06	-0.08	-0.07	0.21
15 1.40 2.25 0.85 0.48 0.75 0.22 -0.06 -0.09 -0.05 0.31 16 1.34 2.15 0.83 0.78 0.48 0.60 0.19 -0.06 -0.09 -0.05 0.65 17 1.24 2.43 0.85 0.71 0.56 0.52 0.15 -0.06 -0.09 -0.05 0.51 18 1.16 2.32 1.05 0.71 0.63 0.96 0.11 -0.06 -0.09 -0.05 0.59 19 1.28 1.29 0.90 0.75 0.55 0.76 0.08 -0.06 -0.09 -0.05 0.90 20 1.13 1.21 0.84 0.67 0.46 0.62 0.04 -0.05 -0.06 -0.09 -0.05 0.51 21 1.06 1.06 0.82 0.64 0.38 0.49 -0.05 -0.06 -0.09 0.34 22 1.55 1.15 0.93 0.58 0.38 0.49	13	1.50	1.54	0.85	1,01	0.48	1.11	0,26	<u> </u>	-0.06	-0.09	-0.08	0.22
16 1.34 2.15 0.83 0.78 0.48 0.60 0.19 -0.06 -0.09 -0.05 0.65 17 1.24 2.43 0.85 0.71 0.56 0.52 0.15 -0.06 -0.09 -0.05 0.51 18 1.15 2.32 1.05 0.71 0.63 0.96 0.11 -0.06 -0.09 -0.05 0.59 19 1.28 1.29 0.90 0.75 0.55 0.76 0.08 -0.06 -0.09 -0.05 0.90 0.51 20 1.13 1.21 0.84 0.67 0.46 0.62 0.04 -0.05 -0.06 -0.09 -0.05 0.51 21 1.06 1.06 0.82 0.64 0.38 0.49 -0.05 -0.06 -0.09 -0.34 22 1.55 1.15 0.93 0.56 0.38 0.49 -0.05 -0.06 -0.09 0.22 0.81 23 1.61 1.76 0.88 0.59	14	1.47	1.92	0,85	0.89	0.46	0.93	0.26		-0.06	-0.09	-0.06	0.28
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	1.40	2.25	0,85	0.83	0.48	0.75	0,22	ļ	-0.06	-0.09	-0.05	10.31
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16	1.34	2.15	0.83	0,78	0.48	0.60	0.19	 				
19 1.28 1.29 0.90 0.75 0.75 0.03 $-0.06 - 0.09 - 0.05 0.90$ 20 1.13 1.21 0.84 0.67 0.46 0.62 0.04 $-0.05 - 0.06 - 0.09 - 0.05$ 0.51 21 1.06 1.06 0.82 0.64 0.38 0.55 $-0.05 - 0.06 - 0.09 - 0.05$ 0.34 22 1.55 1.15 0.93 0.58 0.38 0.49 $-0.05 - 0.06 - 0.09 - 0.09$ 0.04 0.54 23 1.61 1.76 0.88 0.59 0.38 0.44 $-0.05 - 0.06 - 0.09 - 0.09$ 0.02 0.81 24 1.35 1.67 0.88 0.59 0.38 0.44 $-0.05 - 0.06 - 0.09 - 0.09$ 0.02 0.54 25 1.99 1.46 0.52 0.38 0.41 $-0.05 - 0.06 - 0.09 - 0.02$ 0.45 26 1.18 1.45 0.75 0.50 0.37 -0.37 $-0.03 - 0.07 - 0.09 - 0.02$ 0.48 27 1.01 1.37 0.71 0.49 0.36 0.34 $-0.04 - 0.08 - 0.09 - 0.20$ 0.50	17	1.24	2.43	0.85	0.71	0,56	0.52	0.15	İ	-0.06	-0.09	-0.0	0.51
19 1.28 1.29 0.90 0.75 0.75 0.03 $-0.06 - 0.09 - 0.05 0.90$ 20 1.13 1.21 0.84 0.67 0.46 0.62 0.04 $-0.05 - 0.06 - 0.09 - 0.05$ 0.51 21 1.06 1.06 0.82 0.64 0.38 0.55 $-0.05 - 0.06 - 0.09 - 0.05$ 0.34 22 1.55 1.15 0.93 0.58 0.38 0.49 $-0.05 - 0.06 - 0.09 - 0.09$ 0.04 0.54 23 1.61 1.76 0.88 0.59 0.38 0.44 $-0.05 - 0.06 - 0.09 - 0.09$ 0.02 0.81 24 1.35 1.67 0.88 0.59 0.38 0.44 $-0.05 - 0.06 - 0.09 - 0.09$ 0.02 0.54 25 1.99 1.46 0.52 0.38 0.41 $-0.05 - 0.06 - 0.09 - 0.02$ 0.45 26 1.18 1.45 0.75 0.50 0.37 -0.37 $-0.03 - 0.07 - 0.09 - 0.02$ 0.48 27 1.01 1.37 0.71 0.49 0.36 0.34 $-0.04 - 0.08 - 0.09 - 0.20$ 0.50	18	1.15	2.32	1,05	0.71	0.63	0.96	0,11	·	-0.06	5-0.09	-0.05	0.59
21 1.06 1.06 0.82 0.64 0.38 0.55 -0.05 $-0.06-0.09$ $ 0.34$ 22 1.55 1.15 0.93 0.58 0.38 0.49 -0.05 $-0.06-0.09$ $ 0.34$ 23 1.61 1.76 0.88 0.59 0.38 0.44 -0.05 $-0.06-0.09$ 0.02 0.81 24 1.35 1.67 0.84 0.52 0.38 0.44 -0.05 $-0.06-0.09$ 0.02 0.81 24 1.35 1.67 0.84 0.52 0.38 0.41 -0.05 $-0.06-0.09$ 0.02 0.54 25 1.99 1.46 0.85 0.50 0.37 0.37 $-0.03-0.07$ -0.09 0.22 0.45 26 1.18 1.45 0.75 0.50 0.37 0.37 $-0.03-0.07$ -0.09 0.02 0.48 27 1.01 1.37 0.71 0.49 0.36 0.34 $-0.04 - 0.08 - 0.09$ <	19	1,28	1.29	0,90	0.75	0.55				-0.06	-0.09	-0.0	0.90
21 1.06 1.06 0.82 0.64 0.38 0.55 -0.05 -0.06 -0.09 $-$ 0.34 22 1.55 1.15 0.93 0.58 0.38 0.49 -0.05 -0.06 -0.09 $-$ 0.34 23 1.61 1.76 0.88 0.59 0.38 0.49 -0.05 -0.06 -0.09 0.02 0.81 24 1.36 1.67 0.84 0.52 0.38 0.41 -0.05 -0.06 -0.09 0.02 0.51 24 1.36 1.67 0.84 0.52 0.38 0.41 -0.05 -0.06 -0.09 0.02 0.54 25 1.99 1.46 0.85 0.50 0.37 0.37 -0.03 -0.07 -0.09 0.02 0.45 26 1.18 1.45 0.75 0.50 0.37 0.37 -0.03 -0.09 0.02 0.45 27 1.01 1.37 0.71 0.49 0.36 0.34	20	1.13	1.21	0,84	0,67	0.46	0.62	0.04	-0.05	-0.06	-0.05	0.05	0.51
22 1.55 1.15 0.93 0.58 0.38 0.49 -0.05 -0.06 -0.09 0.04 0.54 23 1.61 1.76 0.88 0.59 0.38 0.44 -0.05 -0.06 -0.09 0.02 0.81 24 1.36 1.67 0.84 0.52 0.38 0.41 -0.05 -0.06 -0.09 0.02 0.54 25 1.99 1.46 0.85 0.50 0.38 0.39 -0.03 -0.07 -0.09 0.02 0.45 26 1.18 1.45 0.75 0.50 0.37 0.37 -0.03 -0.07 -0.09 0.02 0.48 27 1.01 1.37 0.71 0.49 0.36 0.34 -0.04 -0.08 -0.09 0.22 0.50 28 0.87 1.33 0.80 0.46 0.36 0.33 -0.05 -0.09 0.26 0.56 30 0.82 -0.80 0.67 0.34 0.32 -0.05 <td< td=""><td> </td><td>·</td><td></td><td>ļ</td><td></td><td><u> </u></td><td>ļ</td><td></td><td><u> </u></td><td>ļ</td><td></td><td></td><td></td></td<>		·		ļ		<u> </u>	ļ		<u> </u>	ļ			
23 1.61 1.76 0.88 0.59 0.38 0.44 -0.05 -0.06 -0.09 0.02 0.81 24 1.36 1.67 0.84 0.52 0.38 0.41 -0.05 -0.06 -0.09 0.02 0.51 25 1.99 1.46 0.85 0.50 0.38 0.39 -0.03 -0.07 -0.09 0.02 0.45 26 1.18 1.45 0.75 0.50 0.37 0.37 -0.03 -0.07 -0.09 0.02 0.45 26 1.18 1.45 0.75 0.50 0.37 0.37 -0.03 -0.07 -0.09 0.02 0.48 27 1.01 1.37 0.71 0.49 0.36 0.36 -0.04 -0.08 -0.99 0.22 0.50 28 0.87 1.33 0.80 0.46 0.36 0.33 -0.05 -0.09 0.26 0.56 30 0.82 -0.80 0.67 0.3	21	1.06	1.06	0,82	0.64	0.38	0.55						
24 1.36 1.67 0.54 0.52 0.38 0.41 -0.05 -0.06 -0.09 0.02 0.54 25 1.99 1.46 0.85 0.50 0.38 0.39 -0.03 0.07 -0.09 0.02 0.45 26 1.18 1.45 0.75 0.50 0.37 0.37 -0.03 -0.07 -0.09 0.02 0.45 27 1.01 1.37 0.71 0.49 0.36 0.36 -0.04 -0.08 -0.09 0.22 0.50 28 0.87 1.33 0.46 0.36 0.34 -0.04 -0.08 -0.09 0.22 0.50 28 0.87 1.33 0.80 0.46 0.36 0.34 -0.05 -0.09 0.22 0.56 29 0.80 -0.87 0.59 0.35 0.33 -0.05 -0.09 0.26 0.56 30 0.82 -0.75 -0.32 -0.05 -0.0	22	1.55	 1.15.	0.93	0,58	0.38	1						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		E	1 -			1 · · ·	7						0.81
26 1.18 1.45 0.75 0.50 0.37 0.37 -0.03 0.07 -0.09 0.02 0.48 27 1.01 1.37 0.71 0.49 0.36 0.36 -0.04 -0.08 -0.09 0.02 0.50 28 0.87 1.33 0.80 0.46 0.36 0.34 -0.04 -0.08 -0.09 0.13 0.48 29 0.80 $=$ 0.87 0.59 0.35 0.33 -0.05 -0.09 0.26 0.56 30 0.82 $=$ 0.80 0.67 0.34 0.32 -0.05 -0.09 0.34 0.57 31 0.85 $=$ 0.75 $ 0.32$ $ -0.05$ $ -0.09$ $ 0.56$ TOTAL AVERA-													0.54
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		ſ	1	1	1	ŧ.				i			0.45
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			1	1					1	•			0.48
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			1	i									0.50
30 0.82 0.80 0.67 0.34 0.32 -0.05 -0.09 0.34 0.57 31 0.85 0.75 - 0.32 - -0.05 - -0.09 - 0.56 TOTAL - - - - - 0.56 - - 0.56 AVERA- - - - - - - - 0.56	·		1			1			-0.04	-0,08	-0,09	0,13	0.48
31 0.85 _ 0.75 _ 0.32 _		0.80		1			1		-0.05	-0.08	-0.09	0,26	0,56
TOTAL AVERA-			i	1		i	1 1				-0.09	0.34	0.57
AVERA-	31	0.85		0.75		0,32	-		-0,05		-0.09	-	0.56
AVERA-			 	[<u> </u>	<u> </u>	 	ļ
			¦ 								 	<u> </u>	
and the state of the state of the state of the state of the state of the state of the state of the state of the	AVERA- GE	.:											

Table. 3.8 Stream stage records at Bili-Bili gauging station (4)

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	River System				ze rec	orae (at B1]	1- B11	i gaug	ding a	tation	1 (5)
				River			Obser	vatory			Year	
181 	lebera	ng	Jez	nebers	ng		Bil	1-B111	•		197	в
DM	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
	0.66	0.24	0.43	0.30	0.15	0.08	0.08			-0.02	0	0,24
2	0,64	0.26	0.34	0.25	0.14	0,08			-0.01	-0.02		0.31
3	0.77	0.29	0.29	0.19	0.27	0.09			-0.01			0.36
4	0.74		0.31	0.18	0.24	0.12			-0.01	-	0	0.43
5	0.69		0.33	0,49	0.19	0.14	~		~0.02	-	0	0.39
6	0.53		0.44	0.52	0.15	0.12			-0.02	-	0	0.38
7	0.64		0.50	0.75	0.12	0.29		1	-0.01	-	0	0.32
8	0.50		0.49	0.76	0.10	0.29	0.20	0.04	-0.01	-	0	0.23
9		0.59		0.69	0.08	0.28	0.14	-0.00	0.00	-	0	0.22
10	0.80	0.69	0,56	0.62	0.08	0,60	0,12	-0.00	0,06	-	0	0,26
								-		,		
11	1.79	0,50	0,58	0.43	0.09	0.31	0.13	-0.00	0.06	0	0.14	0.20
12	1.19	C.48	0.43	0.34	0.13	0.37	0,19	-0.01	0.06	0	0.15	0.34
13	0,82	0.47	0.31	0.27	0.21			-0.01	0,06	-0.01	0.09	0.64
14	0.65	0.42	0,26	0.22	0.29			-0.01				
15	0.57	0.37	0.24	0.19	0.34	0.21	0.16	0.06	0.06	-0.02	0.09	0.65
16	0.48	0.32	0.24	0.16	0.64	0.15	0.12		0.06			
17	0.62	0.41	0.20	0.17	0.45	0.12	0.0B	0.06	0.02(-0.03	0.09	0.43
18	0,55	0.41	0.17	0.16	0.31		0.06	0.07		-0.03		
19	0.70	0.52	0.15	0.12	0.23	0.15	0.05	0.06	0.24	-0.03	0.01	0.41
20	0,60	0.66	0.24	0.10	0.18	0.23	0.05	0.06	0.22	-0.03	0.09	0.30
21	0.67	0.49	0.18	0.10	0.15	0.14	0.05	0.06	0.15	-0.03	0.13	0.43
22	1.11	0.48	0.21	0.19	0.14	0.11	0.05	0.05	0.10	-0.03	0.17	0.60
23	0,76	0.41	0.31	0.25	0.13	0.08	0.05	0.02	0.10	-0.03	0.27	0.94
24	0.69	0.38	0.72	0.25	0.13	0.08	0.03	0.00	0.10	-0.05	0,40	1.29
25	0,80	0.33	0.71	0.27	0.10	0.10	0.05	-0.01	0.10	-0,02	0.44	1.13
26	0.73	0.31	1		0.11		T	-0.02	[· · · · · · · · · · · · · · · · · · ·	}		
27	0.51	0.93			0.09		1	7	}	· · · · ·		· · · · · · · · · · · · · · · · · · ·
28	0.39	0.63			0.07		1	1		[
29	0.32				0.07						1	
30	0.26	!	0.28	0.17	0.10	0.11		1	1	1	0.19	0.80
31	0.22		0.28	-	0.08		0.17	-0.00	<u></u>	0	-	0.71
	ļ	}	ļ	ļ	<u></u>			+	+	<u></u>		
TOTAL	ł		<u></u>		<u> </u>		<u> </u>		<u> </u>	<u> </u>	ļ	Į
AVERA- GE	1			[}		}	L
مستبتيه												

Table. 3.8 Stream stage records at Bili-Bili gauging station (5)

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Table. 3.8 Stream stage records at Bili-Bili gauging station (6)

Ri	ver Sys	rem		River			Obser	vatory			Year	7
Jei	nebera	ng	Je	nebera	ng			-B111			197	{
D M	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.			{
	0.59	0.14		0.30			-0.03		÷	OCT.	NOV. 0.27	DEC.
	0.67	0.88		0,24			-0.04				0.26	
	0.58	0.85		0.25			-0.06				0.26	
4	0.44	0,40					-0.07				0.28	
5	0.41	0, 79	0.34	0.28			-0.09					0,60
6	0.76	0.37	0.30	0.34	1 1		-0.14					0,61
7	1.35	0.29	0.96	0,733			-0.14					0.83
8	1.63	0.22	1.19	0.33			-0.13					1.34
9	1.44	0.19	1.00	0.41	0.32	0.11	-0.13	-0,18	-0.30	0.24	0,28	1.03
10	1.37	0_18	0.64	0.37			-0.12					1.00
								}				
11	1.63	0.16	0.95	0.26	0.27	0.08	-0.12	-0.19	-0.30	0.23	0.27	0,95
12	1.34	0.38	0.90	0.19	0.35	0.02	-0.12	-0.19	-0.30	0.24	0.37	0.96
13	0.86	0.74	0,68	0.14	_0.48	0	-0.72	-0.20	-0.30	0.23	0.43	0.83
14	0.55	0.56	0.53	0.11	0.38	0	-0.12	-0.2	-0.30	0.23	0.40	0.73
15	0.47	0.38	0.41	0.08	0.31	0	-0.13	-0.24	-0.30	0.22	0.38	0.60
16	0.55	0.69	0.33	0.07	-0,22	0	-0,13	-0.24	-0.30	0.22	0.37	0.60
17	0.50	0.63	0.34	0.16	D.16	0	-0.13	-0,24	-0,30	0.22	0.35	0.88
18	0.37	0.43	0.29	0.18	10.72	0	-0.13	-0.24	-0.30	0.23	0.34	1.10
19	0.29	0.27	0.37	0.09	0.09	0	-0.13	-0.24	-0.30	0.24	0.36	1.05
20	0.23	0.34	0.39	0.10	_0.08		-0.13	-0,24	-0.30	0.25	0.35	1.08
					į 	ļ	Į		<u> </u>			
21	0.24	0.39	0.35	0.17	0.08	0	-0.15	-0.24	-0.30	0.29	0.31	0.93
22	0.44	0.27	0.43	0.35	0.07	0	-0.17	-0.24	-0.30	0.31	0.31	0.79
23	0.42	0.22	0.39	0.34	0.04	0	-0.18	-0.24	-0,30	0.31	0.31	0,81
24	0.28	0.21	0.26	0.28	0.02	0		1	-0.30	5	<u>,</u>	1
25	0.23	0.32	0.27	0.36		∮	1	1	-0.30	1		
26	0.31	0.37	0.30	0.48		<u>↓</u>			-0.30	1		j
27	0.34	1.16	0.30	0.43		t	7	······································	4-0.3 0	,	1	1
28	0.25	1.01	0.30	0.25		1	1		1 0.21		1	
29	0.21		0.42	0.31	0.02	┟┈───	7	1	1.0.22	1	1	0.98
30	0.16		0.54	0.38	1	<u> </u>	1	1	0.22	1	1	
31	0.12	-	0.46		0.01		1-0.23	-0.3) -	0,27		1.25
		<u> </u>		<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>
TOTAL			L	L		ļ	ļ	<u> </u>	ļ	ļ		Į
AVERA-			}	}	· ·		}				}	↓
CE	ł	L	L	<u>}</u>	ł	£			*	•	*	*

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·	Table.	3.8	Stre	am st	age re	scords	at B	ili-Bi	li se	uging	stati	on (7
Ri	ver Sys	tem		River				vatory			Yea	
Je	uepers	ng	Jer	nebera	ng		B11:	1-B111			198	0
DM	JAN.	FEB.	MAR,	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	ocr.	HOV.	DEC.
11	1.00	0.58	0.94	0.66	0.74	0.47	0.30	0,15	-	0.07	0.20	
2	0.93	0.61	0.81	0.65	0.67	0.45		0.16	-	0.07	0.18	0.69
3	0,85	0.67	0.86	0.67	0.69	0.43		0.16	-	0.07	0.16	0.70
4	1.01	0.75	1.02	0.70	0.91	0.42	0.27	0.17	-	0.07	0.15	0.76
5	1.20	C.78	0.99	0.85	0.87	0.40	0.25	0.17	0.12	0.07	0.12	0.85
6	1.32	0.85	0.82	0.83		0.38	0.25	0.17	0.12	0.07	0.11	0.79
7	1.52		0.77	0.77		0.37	0.24	0.23	0.11	0.07		0.76
8	1.58		0.74	0.84		0.37	0.24	0.20	0.10	0.08		0.81
9	2.10		1.18	0.78		0.37	0.25	0.20	0.10	0.09	0.23	0.91
10	1.63	0.96	1.09	0.91	0.62	0.40	0,25	0.19	0.10	0.09	0.39	0.81
 			 								<u>.</u>	
11	1.46	0.93	0,88	0.86	0.59	0.38		T ···		0.10	0.38	0.85
12	1.17	1.32	0.84	0,78	0.57		0.24	<u> </u>	0.10		0.34	0,87
13	_1.00	1.97	0.89		0.55	······································	0.23		0.09		0.30	1,09
14	0.87	1.69	1.52			0.34			0.09	· · · · · · · · · · · · · · · · · · ·	0,26	1.35
15	0,81	1.73	1.24			0.34			0.09		0.23	1,01
16	1.04	1.51	1.01	1.04	0.49	0.33	0.23	0.15	0.08		0.22	0.81
17	0.91	1.59	1.21	1.06	0.47	0.34	0.24	0.13	0.08		0.27	0.70
18	0.83	1.33	1.36	1.08	0.46	0.35	0.24	0.13	0.07			0.76
19			1.12	0.91	0.44	0.34	0.23	0.12	0.07		0.50	0.89
20	1.83	1.05	1.28	0.83	0.44	0.43	0.21	0.12	0.07	0.14	0.38	1.14
				 				0.11				
21			1.34	0.76	0.43	0.38				0.14	T	1,23
22			1.09			0.34				0.16		
23	1.25		0.94				0.18			0.21	-	
24	0.04	1.45	0.88	0,78	0.73	1	0.18			0,21		L
25	0.92	1.15	0.88	0.79	0.69	÷	0.18			0,20	1	
26			0.81	0,97	0.50	<u> </u>	0.18	0.10	0.07		0.61	<u> </u>
27	0.74		0.74	0.84	0.50	+	i		0.07	<u> </u>	0.64	1
28		1.06	0.78	0.83	0.41	<u> </u>	0.18		0.07	<u> </u>	0.64	1
29	0.67		0.89					0.12	0.07		0.62	
30	0.65			0.86	0.56		0.15		0.07	<u>_</u>	0.74	
31	0.60		0.72	-	ļ		0.15	-		0.23	-	
			[[i <u> </u>		[<u> </u>	[]		
TOTAL						<u> </u>						
AVERA- GE				1		<u> </u>		<u> </u>			<u> </u>	<u> </u>

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Table, 3.8 Stream stage records at Bili-Bili sauging station (7)

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	ver Sve	scen .		River			Obser	vatory			Year	Г
	aber	ng	Jaz	lelata			Jene:	late			197	7
· <u>~</u> ?]	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.		SEP.	OCT.	NOV.	DEC.
1							0.50	0.36	0.26	0.17	0.13	0.92
2							0.50	0.36	0.26		0.14	0.89
3							0.50	0.35	0.26	0.18	0.15	0.94
4							0.49	0.36	0.25	0.19	0.16	0.96
5				-			0.49	0.36	0.33	0.20	0.17	0.8
-6							0.49	0.35	0.43	0.18	0.18	0.84
7							0.49	0.34	0.38	0.19	0.18	0.7
8							0.48	0.33	0.28	0.19	0.19	0.90
9							.0.40	0.33	0.26	0.19	0.20	1.2
. 10							0.40	0.33	0.29	0.19	0.23	1.0
]										
LL LL		1			1	1	0.40	0.33	0.26	0.17	0.21	0.8
12		1			1		0.40	0.34		0.14		0.7
13) !			1		0.40	0.43				1.1
14		{		1	1		0.40	0.38	0,20	0.13	0.16	1.2
15	~~~ · ~~	1			1	1	0.40	0.33		0.13	0.14	1.0
16		1				1	0.40	0.32		0.13	0.11	1.4
17		1		1	1		0.40	0.32	0.22	0.13	0.17	1.3
18		1	1				0.40	0.30	0.22	0.13	0.21	1.6
19		1	1			1	0.39	0.28	0.22	0.18	0.47	1.7
20			1		1	1	0.39	0.29	0.21	0.19	0.46	1.6
		}	1	1		1					[1
21		1	1.	†		1	0.38	0.29	0.18	0.16	0.49	1.0
22		}		1	1	0.70	0.38	0.29	0.22	0.15	0.49	1.0
23			1		1	0.69	0.38	the second second second second second second second second second second second second second second second s		0.15	+	+
24		1	1	1		+	0.38			0.15		1
.25		; ; ;	1	1.	1			0.31		1	1	7
26			1	1.			0.37		0.27	7	0.39	7
27	t	1		1	1			0.28				1
28		+		1				0.27				
29	}	+	1 .	1	1			0.27	[······································	0.59	1
30		1	-	1	1		0.35		0.17		0.76	-j
31	<u> </u>	1	1	1	1		0.35	-		0.12		1.1
	<u>}</u>	+	1	1	1	1	1	1		1	1	1.
TOTAL	<u> </u>	1	+	1	1	1	1	1			1	1
VERA-	 		+	+	+	†	1	+	<u> </u>	 	1	1
<u>JE</u>	{ .	1 .	{	1	1	ť	4	}	1	1	1	1

Table. 3.9 Stream stage records at Jenelate gauging station (1)

					- <u>5</u> e 14	corue		nelat	a gau	ging a	tatio	n (2)
	ver Svs			River			Obser	vatory			Yea	r
	ersde	ng	Je	nelat	S.		Jana	lata			197	8
<u>v ~3</u>	JAN.	FCS.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	ocr,	NOV.	DEC.
<u></u>	1.28		1.08	0.80	0.60	0.64	0.76	0.68	0.55	0.50	0.40	1.06
2	2.08	·	0.92	0.76	0.62	0.60	1.11	0.74	0.52	0.54	0.39	1.04
3	2.40	1.95	0.91	0.72	1.34	0.59	1.03	0.81	0.55	0.51	0.39	0.99
4	2.30	1.53	0.92	0.68	0.99	0.92	1.16	0.69	0.64	0.51	0.38	1.03
5	1.36	1.72	0.92	1.23	0.86	1.08	1.18	0.66	0.59	0.50		0.93
6	1.20	1.70	1.31	1.29	0.88	0.93	1.30	0.63	0.61	0.55		0.87
7	1.19	1.55	1.50	1.28	0.79	1.18	1.02	0.60	0.66	0.66	0.42	0.86
8	1.06	1.19	1.33	1.27	0.73	1.27	0.94	0.59	0.71	0.82		0.82
9	1.11	1.06	1.11	1.03	0.67	1.06	0.79	0.57	1.87	0.66	0.49	0.71
10	1.28	0.97	1.02	1.12	0.78	1.79	0.76	0.56	0.91	0.56	0.49	1.04
11	3.16	0.92	2.38	0.98	0.77	1.07	0.73	0.66	0.84	0.53	0.62	0.86
12	2.97	1.39	1.42	0.87	1.04	0.95	0.69	0.57	0.75	0.50	0.53	1.24
13	2.88	1.25	1.07	0.81	0.96	0.89	0.66	0.56	0.68	0.53	0.45	1.78
14	1.46	1.11	0.89	0.77	1.01	0.86	1.21	0.56	0.64	0.51	0.42	1.51
15	1.07	1.00	0.87	0.72	1.16	0.85	1.05	0.56	0.60	0.50	0.53	1.05
16	1.00	0.89	0.84	0.67	1.67	0.81	0.89	0.60	0.58	0.47	0.59	1.28
17	0.96	0.78	0.81	0.71	1.34	0.78	0.81	0.78	0.55	0.46	0.48	0.86
18	0.85	0.76	0.79	0.66	1.10	0.85	0.78	0.75	0.96	0.45	0.43	0.83
19	0.85	1.30	0.77	0.63	0.93	1.00	0.75	0.65	1.05	0.45	fr	0.81
20	0.97	1.66	0.75	0.61	0.82	0.94	0.73	0.60	0.93	0.45	0.51	0.90
				ļ	 	ļ	ļ			ļ		<u> </u>
21	1.00	1.74	0.72	0.60	0.79	0.79	0.69	0.56	0.85	+	0.45	<u></u>
22	1.97	1.67	0.81	0.59	0.75		0.65	0.53	0.74		0.61	0.98
23	1.81	1.40	0.87	0.66		1	0.62	0.52	0.67			1.63
24	1.50			0.67	1		0.57	1	0.63		from the state of the	2.38
25	1.37			0.67		0.80	7)	0.60	· · · · · - ·	0.87	
26	1.22		{	0.64			0.58		0.58		1.07	
27	1.02		7	0.61		1.05	r	0.50		1	1.07	
28	0.89	1.31	1.00	7		0.88	1	0.49	0.55	0.40	f	1.88
29	0.83			0.87	{	0.78	2	0.49	0.53	0.40	h	1.69
30	0.78			0.72	0.67		0.56	0.49	<u>{</u>	0.40		1.55
31	0.72	·	0.86	-	0.66		0.62	0.49	-	0.42		1.35
					} 		<u> </u>			<u> </u>	ļ	
TUTAL				<u> </u>	 	ļ		 		<u> </u>	 	
AVERA-			ł	•	. ·]			ļ		
GE	L		L	1	l	·	<u> </u>	÷		+		

Table. 3.9 Stream stage records at Jenelata gauging station (2)

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Table 3.8 Stream stage records at Jenelata gauging station (3)

Janeb pranz Jenelate Jenelate 1979 0 MAR. APR. MAY. JULF. AUG. SEP. OCT. HOV. DC. 1 1.21 0.68 0.95 0.94 0.93 0.54 0.46 0.34 0.27 0.28 0.20 0.74 1 1.22 2.80 0.90 0.89 0.95 0.57 0.45 0.34 0.27 0.28 0.20 0.74 2 1.22 2.80 0.90 0.95 0.91 0.40 0.38 0.27 0.22 0.23 0.22 0.23 1.22 0.85 0.86 0.76 1.04 0.99 1.22 0.44 0.31 0.26 0.22 0.28 0.73 2.14 0.79 1.54 0.94 1.41 0.66 0.44 0.31 0.26 0.22 0.28 0.22 1.31 10 2.71 0.56 1.62 0.76 1.27 0.43 <	Ri	ver Sys	tem		River								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$								Ubser	vatory				
2 308. 347. 308. 307. 30		- 1						Jene	Lata			197	9
1.22 2.80 0.90 0.69 0.95 0.57 0.45 0.34 0.27 0.25 0.18 0.55 3 1.08 1.18 0.86 0.92 1.12 0.66 0.46 0.32 0.27 0.22 0.23 1.22 5 0.85 0.86 0.78 1.04 1.06 1.10 0.44 0.38 0.24 0.21 0.24 0.73 1.22 5 0.85 0.86 0.76 1.04 0.99 1.25 0.44 0.31 0.26 0.22 0.28 0.58 6 1.18 0.75 1.54 0.94 1.41 0.86 0.44 0.31 0.26 0.22 0.28 0.58 8 2.75 0.74 1.62 1.45 1.13 0.77 0.43 0.36 0.27 0.21 0.22 1.25 1.31 10 2.71 0.69 1.22 0.86 0.73 0.71 0.43 0.32 0.27 0.14 0.13 0.22 1.65 0.41 0.33 0.23 <t< td=""><td></td><td></td><td></td><td></td><td> [</td><td>MAY.</td><td>JUNE.</td><td>JULY.</td><td>AUG.</td><td>SEP.</td><td>OCT,</td><td>NOV.</td><td>DEC.</td></t<>					[MAY.	JUNE.	JULY.	AUG.	SEP.	OCT,	NOV.	DEC.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1						0.54	0.46	0.34	0.27	0.28	0.20	0.74
4 0.93 0.90 0.95 0.94 1.07 0.54 0.46 0.34 0.27 0.24 0.23 1.22 5 0.85 0.86 0.78 1.04 1.06 1.10 0.44 0.38 0.24 0.21 0.24 0.74 6 1.18 0.85 0.75 1.04 0.99 1.25 0.44 0.31 0.26 0.22 0.30 0.63 7 2.14 0.79 1.54 0.91 1.13 0.79 0.43 0.35 0.27 0.22 0.28 0.99 8 2.75 0.71 1.62 1.31 0.71 0.42 0.35 0.26 0.18 0.22 1.31 10 2.71 0.66 1.62 0.76 1.27 0.61 0.41 0.33 0.22 0.14 0.19 0.22 1.31 0.22 0.41 0.33 0.23 0.16 0.22 1.22 1.35 0.31 1.23 0.44	2						0.57	0.45	0.34	0.27	0.25	0.18	0.59
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	3	1.08	1.18	0.86	0.92	1.12	0.66	0.46	0.32	0.25	0.24	0.18	1.51
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-4		0.90				0.54	0.46	0.34	0.27	0.24	0.23	1.22
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5	0.85	0.86		1.04	1.06	1.10	0.44	0.38	0.24	0.21	0.24	0.74
8 2.75 0.74 1.62 1.45 1.73 0.79 0.43 0.35 0.27 0.22 0.25 1.36 9 2.68 0.70 1.62 1.05 0.90 0.73 0.43 0.36 0.27 0.19 0.23 1.31 10 2.71 0.69 1.22 0.88 0.73 0.71 0.42 0.35 0.26 0.18 0.22 1.06 11 7.52 0.67 1.66 0.80 0.67 0.65 0.41 0.33 0.24 0.14 0.19 1.02 12 1.96 0.63 1.62 0.76 1.27 0.61 0.41 0.33 0.23 0.16 0.42 1.13 1.47 0.84 1.08 0.65 1.04 0.57 0.41 0.33 0.22 0.16 0.42 0.71 16 1.29 1.47 0.88 0.60 0.57 0.41 0.30 0.22 0.16 0.32	6	1.18	0.85	0.76	1.04	0.99	1.25	0.44	0.31	0.26	0.22	0.30	0.[3
9 2.68 0.70 1.62 1.05 0.90 0.73 0.43 0.36 0.27 0.19 0.23 1.31 10 2.71 0.69 1.22 0.88 0.73 0.71 0.42 0.35 0.26 0.18 0.22 1.06 11 2.72 0.67 1.66 0.80 0.87 0.65 0.41 0.33 0.24 0.14 0.19 1.02 12 1.96 0.63 1.62 0.76 1.27 0.61 0.41 0.33 0.23 0.16 0.25 1.23 13 1.55 0.91 1.38 0.71 1.17 0.59 0.43 0.32 0.27 0.13 0.48 1.02 14 1.23 0.84 1.08 0.65 1.04 0.57 0.41 0.33 0.22 0.16 0.42 0.71 16 1.29 1.47 0.68 0.60 0.82 0.54 0.40 0.30 0.22 0.16 0.42 0.71 16 1.29 0.45 0.88 <td< td=""><td>7</td><td>2.14</td><td>0.79</td><td>1.54</td><td>0,94</td><td>1.41</td><td>0.86</td><td>0.44</td><td>0.31</td><td>0.26</td><td>0.22</td><td>0.28</td><td>0.98</td></td<>	7	2.14	0.79	1.54	0,94	1.41	0.86	0.44	0.31	0.26	0.22	0.28	0.98
10 2.71 0.69 1.22 0.88 0.73 0.71 0.42 0.35 0.26 0.18 0.22 1.06 11 :2.52 0.67 1.66 0.80 0.87 0.65 0.41 0.33 0.24 0.14 0.19 1.02 12 1.96 0.63 1.62 0.76 1.27 0.61 0.41 0.33 0.23 0.16 0.25 1.23 13 1.55 0.91 1.38 0.71 1.17 0.59 0.43 0.32 0.27 0.13 0.48 1.02 14 1.23 0.84 1.08 0.65 1.04 0.57 0.41 0.33 0.23 0.16 0.42 0.71 16 1.29 1.47 0.88 0.60 0.82 0.54 0.40 0.30 0.22 0.16 0.32 0.64 17 1.26 1.50 0.85 0.81 0.74 0.53 0.39 0.22 0.16 0.32 0.64 17 1.26 1.50 0.80 0.69 <				1.62	1.45	1.13	0.79	0.43	0.35	0.27	0.22	0.25	1.36
11 :2,52 0.67 1.66 0.80 0.87 0.65 0.41 0.33 0.24 0.14 0.19 1.02 12 1.96 0.63 1.62 0.76 1.27 0.61 0.41 0.33 0.23 0.16 0.25 1.23 13 1.55 0.91 1.38 0.71 1.17 0.59 0.43 0.32 0.27 0.13 0.48 1.02 14 1.23 0.84 1.08 0.65 1.04 0.57 0.41 0.33 0.23 0.16 0.42 0.71 16 1.29 1.47 0.88 0.60 0.82 0.54 0.40 0.30 0.22 0.16 0.32 0.64 17 1.26 1.50 0.85 0.81 0.74 0.53 0.39 0.22 0.16 0.32 0.64 17 1.26 1.50 0.80 0.69 0.51 0.39 0.22 0.16 0.32 0.64 <td>9</td> <td>2.68</td> <td>0.70</td> <td>1.62</td> <td>1.05</td> <td>0.90</td> <td>0.73</td> <td>0.43</td> <td>0.36</td> <td>0.27</td> <td>0.19</td> <td>0.23</td> <td>1.31</td>	9	2.68	0.70	1.62	1.05	0.90	0.73	0.43	0.36	0.27	0.19	0.23	1.31
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	10	2.71	0.69	1.22	0.88	0.73	0.71	0.42	0.35	0.26	0.18	0.22	1.06
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$													
13 1.55 0.91 1.38 0.71 1.17 0.59 0.43 0.32 0.27 0.13 0.48 1.02 14 1.23 0.84 1.08 0.65 1.04 0.57 0.41 0.33 0.23 0.19 0.56 0.82 15 1.04 1.15 0.97 0.61 0.90 0.56 0.41 0.32 0.23 0.16 0.42 0.71 16 1.29 1.47 0.88 0.60 0.82 0.54 0.40 0.30 0.22 0.16 0.32 0.64 17 1.26 1.50 0.85 0.81 0.74 0.53 0.39 0.22 0.15 0.28 0.71 18 0.99 0.95 0.80 0.69 0.69 0.51 0.39 0.22 0.17 0.33 1,21 19 0.86 0.87 0.77 0.66 0.66 0.50 0.39 0.27 0.21 0.15 0.26 0.30 1.10 20 0.83 1.07 0.68 0.71 <t< td=""><td>11</td><td>2.52</td><td>0.67</td><td>1,66</td><td>0.80</td><td>0.87</td><td>0.65</td><td>0.41</td><td>0.33</td><td>0.24</td><td>0.14</td><td>0.19</td><td>1.02</td></t<>	11	2.52	0.67	1,66	0.80	0.87	0.65	0.41	0.33	0.24	0.14	0.19	1.02
14 1.23 0.84 1.08 0.65 1.04 0.57 0.41 0.33 0.23 0.19 0.56 0.82 15 1.04 1.15 0.97 0.61 0.90 0.56 0.41 0.32 0.23 0.16 0.42 0.71 16 1.29 1.47 0.88 0.60 0.82 0.54 0.40 0.30 0.22 0.16 0.32 0.64 17 1.26 1.50 0.85 0.81 0.74 0.53 0.39 0.29 0.20 0.15 0.28 0.71 18 0.99 0.95 0.80 0.69 0.51 0.39 0.28 0.35 0.20 0.25 1.20 19 0.86 0.87 0.77 0.66 0.66 0.50 0.39 0.27 0.24 0.17 0.43 1.21 20 0.79 1.13 0.74 0.67 0.62 0.50 0.39 0.26 0.23 0.21 0.24 0.93 21 0.83 1.07 0.68 0.71 <t< td=""><td>12</td><td>1.96</td><td>0.63</td><td>1.62</td><td>.0.76</td><td>1.27</td><td>0.61</td><td>0.41</td><td>0.33</td><td>0.23</td><td>0.16</td><td>0.25</td><td>1.23</td></t<>	12	1.96	0.63	1.62	.0.76	1.27	0.61	0.41	0.33	0.23	0.16	0.25	1.23
15 1.04 1.15 0.97 0.61 0.90 0.56 0.41 0.32 0.23 0.16 0.42 0.71 16 1.29 1.47 0.88 0.60 0.82 0.54 0.40 0.30 0.22 0.16 0.32 0.64 17 1.26 1.50 0.85 0.81 0.74 0.53 0.39 0.29 0.20 0.15 0.28 0.71 18 0.99 0.95 0.80 0.69 0.69 0.51 0.39 0.28 0.35 0.20 0.25 1.20 19 0.86 0.87 0.77 0.66 0.66 0.50 0.39 0.29 0.25 0.14 0.30 1.21 20 0.79 1.13 0.74 0.67 0.62 0.50 0.39 0.27 0.21 0.15 0.26 0.93 21 0.83 1.07 0.68 0.71 0.62 0.51 0.38 0.27 0.21 0.15 0.26 0.93 22 1.03 1.21 0.65 <	13	1.55	0.91	1.38	0.71	1.17	0.59	0.43	0.32	0.27	0.13	0.48	1.02
16 1.29 1.47 0.88 0.60 0.82 0.54 0.40 0.30 0.22 0.16 0.32 0.64 17 1.26 1.50 0.85 0.81 0.74 0.53 0.39 0.29 0.20 0.15 0.28 0.71 18 0.99 0.95 0.80 0.69 0.69 0.51 0.39 0.28 0.35 0.20 0.25 1.20 19 0.86 0.87 0.77 0.66 0.66 0.50 0.39 0.27 0.24 0.17 0.33 $1,21$ -20 0.79 1.13 0.74 0.67 0.62 0.50 0.39 0.29 0.25 0.14 0.30 1.10 -21 0.83 1.07 0.68 0.71 0.62 0.51 0.38 0.27 0.21 0.15 0.26 0.93 22 1.03 1.21 0.65 1.41 0.59 0.50 0.39 0.26 0.23 0.21 0.24 0.93 23 1.01 0.79 0.62 1.36 0.70 0.56 0.37 0.28 0.26 0.28 0.22 0.81 24 0.81 0.76 0.61 0.96 0.61 0.66 0.36 0.26 0.24 0.25 0.30 1.20 25 0.74 0.70 0.99 0.58 0.53 0.35 0.22 0.22 0.21 0.51 0.95 24 0.86 (1.79) <td< td=""><td>14</td><td>1.23</td><td>0.84</td><td>1.08</td><td>0.65</td><td>1.04</td><td>0,57</td><td>0.41</td><td>0.33</td><td>0.23</td><td>0.19</td><td>0.56</td><td>0.82</td></td<>	14	1.23	0.84	1.08	0.65	1.04	0,57	0.41	0.33	0.23	0.19	0.56	0.82
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	-1.04	1.15	0.97	0.61	0.90	0.56	0.41	0.32	0.23	0.16	0.42	0.71
18 0.99 0.95 0.80 0.69 0.69 0.51 0.39 0.28 0.35 0.20 0.25 1.20 19 0.86 0.87 0.77 0.66 0.66 0.50 0.39 0.27 0.24 0.17 0.33 1,21 20 0.79 1.13 0.74 0.67 0.62 0.50 0.39 0.29 0.25 0.14 0.30 1.10 21 0.63 1.07 0.66 0.71 0.62 0.51 0.38 0.27 0.21 0.15 0.26 0.93 21 0.63 1.07 0.66 0.71 0.62 0.51 0.38 0.27 0.21 0.15 0.26 0.93 21 0.63 1.21 0.65 1.41 0.59 0.50 0.39 0.26 0.23 0.21 0.24 0.93 22 1.03 1.21 0.65 1.41 0.59 0.50 0.39 0.26 0.23 0.21 0.24 0.93 23 1.01 0.79 0.62 <t< td=""><td>16</td><td>1.29</td><td>1.47</td><td>.0,88</td><td>0.60</td><td>0.82</td><td>0.54</td><td>0.40</td><td>0.30</td><td>0.22</td><td>0.16</td><td>0.32</td><td>0.64</td></t<>	16	1.29	1.47	.0,88	0.60	0.82	0.54	0.40	0.30	0.22	0.16	0.32	0.64
19 0.86 0.87 0.77 0.66 0.66 0.50 0.39 0.27 0.24 0.17 0.33 $1,21$.20 0.79 1.13 0.74 0.67 0.62 0.50 0.39 0.29 0.25 0.14 0.30 1.10 .21 0.83 1.07 0.68 0.71 0.62 0.50 0.39 0.29 0.25 0.14 0.30 1.10 .21 0.83 1.07 0.68 0.71 0.62 0.51 0.38 0.27 0.21 0.15 0.26 0.93 22 1.03 1.21 0.65 1.41 0.59 0.50 0.39 0.26 0.23 0.21 0.24 0.93 23 1.01 0.79 0.62 1.36 0.70 0.56 0.37 0.28 0.26 0.28 0.22 0.81 24 0.81 0.76 0.61 0.96 0.61 0.61 0.36 0.26 0.24 0.25 0.30 1.20 25 0.74 0.73 0.70 0.99 0.58 0.53 0.35 0.27 0.22 0.23 0.50 1.97 26 0.72 0.70 1.31 1.06 0.56 0.60 0.36 0.25 0.21 0.60 1.25 28 0.76 1.43 1.00 0.85 0.62 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.65 -1.34 <td< td=""><td>רב </td><td>1.26</td><td>1,50</td><td>0.85</td><td>0.81</td><td>0.74</td><td>0.53</td><td>0.39</td><td>0,29</td><td>0.20</td><td>0.15</td><td>0.28</td><td>0.71</td></td<>	רב	1.26	1,50	0.85	0.81	0.74	0.53	0.39	0,29	0.20	0.15	0.28	0.71
-20 -0.79 1.13 0.74 0.67 0.62 0.50 0.39 0.29 0.25 0.14 0.30 1.10 -21 0.83 1.07 0.68 0.71 0.62 0.51 0.38 0.27 0.21 0.15 0.26 0.93 22 1.03 1.21 0.65 1.41 0.59 0.50 0.39 0.26 0.23 0.21 0.24 0.93 23 1.01 0.79 0.62 1.36 0.70 0.56 0.37 0.28 0.26 0.28 0.22 0.81 24 0.81 0.76 0.61 0.96 0.61 0.61 0.36 0.26 0.24 0.25 0.30 1.20 25 0.74 0.73 0.70 0.99 0.58 0.53 0.35 0.27 0.22 0.23 0.50 1.97 26 0.72 0.70 1.31 1.06 0.56 0.60 0.36 0.25 0.22 0.21 0.51 0.95 27 0.86 $(\overline{1.79}$ 0.97 1.04 0.56 0.52 0.35 0.25 0.21 0.21 0.60 1.25 28 0.76 1.43 1.00 0.85 0.62 0.49 0.34 0.27 0.20 0.18 0.48 0.97 29 0.76 1.43 1.00 0.58 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.6	18	0.99	0,95	0.80	0.69	0.69	0.51	0.39	0.28	0.35	0.20	0.25	1.20
21 0.83 1.07 0.68 0.71 0.62 0.51 0.38 0.27 0.21 0.15 0.26 0.93 22 1.03 1.21 0.65 1.41 0.59 0.50 0.39 0.26 0.23 0.21 0.24 0.93 23 1.01 0.79 0.62 1.36 0.70 0.56 0.37 0.28 0.26 0.23 0.21 0.24 0.93 24 0.81 0.76 0.61 0.96 0.61 0.61 0.36 0.26 0.24 0.25 0.30 1.20 25 0.74 0.73 0.70 0.99 0.58 0.53 0.35 0.27 0.22 0.23 0.50 1.97 26 0.72 0.70 1.31 1.06 0.56 0.60 0.36 0.25 0.22 0.21 0.51 0.95 27 0.86 $(\overline{1.79})$ 0.97 1.04 0.56 0.52 0.35 0.25 0.21 0.61 1.25 28 0.76 1.43 1.00 0.85 0.62 0.49 0.34 0.27 0.20 0.18 0.48 0.97 29 0.70 $ 1.39$ 0.87 0.58 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.65 $ 1.42$ 0.56 0.47 0.35 0.23 0.27 0.23 0.67 0.93 31 0.61 $ 1.17$ <	19	0.86	0.87	0.77	0.66	0.66	0.50	0.39	0.27	0.24	0.17	0.33	1,21
22 1.03 1.21 0.65 1.41 0.59 0.50 0.39 0.26 0.23 0.21 0.24 0.93 23 1.01 0.79 0.62 1.36 0.70 0.56 0.37 0.28 0.26 0.28 0.22 0.81 24 0.81 0.76 0.61 0.96 0.61 0.61 0.36 0.26 0.24 0.25 0.30 1.20 25 0.74 0.73 0.70 0.99 0.58 0.53 0.35 0.27 0.22 0.23 0.50 1.97 26 0.72 0.70 1.31 1.06 0.56 0.60 0.36 0.25 0.22 0.21 0.51 0.95 27 0.86 $(\overline{1.79}$ 0.97 1.04 0.56 0.52 0.35 0.25 0.21 0.21 0.60 1.25 28 0.76 1.43 1.00 0.85 0.62 0.49 0.34 0.27 0.20 0.18 0.48 0.97 29 0.70 $ 1.39$ 0.87 0.58 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.65 $ 1.34$ 1.42 0.56 0.47 0.35 0.23 0.27 0.23 0.67 0.93 31 0.61 $ 1.17$ $ 0.54$ $ 0.35$ 0.23 0.21 $ 1.19$ TOTALAVERA- <td>_20</td> <td>-0.79</td> <td>1.13</td> <td>0.74</td> <td>0.67</td> <td>0.62</td> <td>0.50</td> <td>0.39</td> <td>0.29</td> <td>0.25</td> <td>0.14</td> <td>0.30</td> <td>1.10</td>	_20	-0.79	1.13	0.74	0.67	0.62	0.50	0.39	0.29	0.25	0.14	0.30	1.10
22 1.03 1.21 0.65 1.41 0.59 0.50 0.39 0.26 0.23 0.21 0.24 0.93 23 1.01 0.79 0.62 1.36 0.70 0.56 0.37 0.28 0.26 0.28 0.22 0.81 24 0.81 0.76 0.61 0.96 0.61 0.61 0.36 0.26 0.24 0.25 0.30 1.20 25 0.74 0.73 0.70 0.99 0.58 0.53 0.35 0.27 0.22 0.23 0.50 1.97 26 0.72 0.70 1.31 1.06 0.56 0.60 0.36 0.25 0.22 0.21 0.51 0.95 27 0.86 $(\overline{1.79}$ 0.97 1.04 0.56 0.52 0.35 0.25 0.21 0.21 0.60 1.25 28 0.76 1.43 1.00 0.85 0.62 0.49 0.34 0.27 0.20 0.18 0.48 0.97 29 0.70 $ 1.39$ 0.87 0.58 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.65 $ 1.34$ 1.42 0.56 0.47 0.35 0.23 0.27 0.23 0.67 0.93 31 0.61 $ 1.17$ $ 0.54$ $ 0.35$ 0.23 0.21 $ 1.19$ TOTALAVERA- <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· .</td>													· .
23 1.01 0.79 0.62 1.36 0.70 0.56 0.37 0.28 0.26 0.28 0.22 0.81 24 0.81 0.76 0.61 0.96 0.61 0.61 0.36 0.26 0.24 0.25 0.30 1.20 25 0.74 0.73 0.70 0.99 0.58 0.53 0.35 0.27 0.22 0.23 0.50 1.97 26 0.72 0.70 1.31 1.06 0.56 0.60 0.36 0.25 0.22 0.21 0.51 0.95 27 0.86 (1.79) 0.97 1.04 0.56 0.52 0.35 0.27 0.20 0.18 0.48 0.97 28 0.76 1.43 1.00 0.85 0.62 0.49 0.34 0.27 0.20 0.18 0.48 0.97 29 0.70 - 1.39 0.87 0.58 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.65 - 1.34 1.	_21	0.83	1.07	0.68	0.71	0.62	0.51	0.38	0.27	0.21	0.15	0.26	0.93
24 0.81 0.76 0.61 0.96 0.61 0.61 0.36 0.26 0.24 0.25 0.30 1.20 25 0.74 0.73 0.70 0.99 0.58 0.53 0.35 0.27 0.22 0.23 0.50 1.97 26 0.72 0.70 1.31 1.06 0.56 0.60 0.36 0.25 0.22 0.21 0.51 0.95 27 0.86 1.79 0.97 1.04 0.56 0.52 0.35 0.27 0.20 0.21 0.60 1.25 28 0.76 1.43 1.00 0.85 0.62 0.49 0.34 0.27 0.20 0.18 0.48 0.97 29 0.70 - 1.39 0.87 0.58 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.65 - 1.34 1.42 0.56 0.47 0.35 0.23 0.27 0.23 0.67 0.93 31 0.61 - 1.17 -	22	1.03	1.21	0.65	1.41	0.59	0.50	0.39	0.26	0.23	0.21	0.24	0.93
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23	1.01	0.79	0.62	1.36	0.70	0.56	0.37	0.28	0.26	0.28	+	· · · · · · · · · · · · · · · · · · ·
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24	0.81	0.76	0.61	0.96	0.61	0.61	0.36	0.26	0.24	0.25	0.30	1.20
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25	0.74	0.73	0.70	0.99	0.58	0.53	0.35	0.27	0.22	0.23	0.50	1.07
28 0.76 1.43 1.00 0.85 0.62 0.49 0.34 0.27 0.20 0.18 0.48 0.97 29 0.70 - 1.39 0.87 0.58 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.65 - 1.34 1.42 0.56 0.47 0.35 0.23 0.27 0.23 0.67 0.93 31 0.61 - 1.17 - 0.54 - 0.35 0.23 0.21 - 1.19 TOTAL AVERA- - - - - - - - - - - 1.19	26	0.72	0.70	1.31	1.06	0.56	0.60	0.36	0,25	0.22	0.21		1
29 0.70 - 1.39 0.87 0.58 0.48 0.35 0.24 0.24 0.30 0.46 1.05 30 0.65 - 1.34 1.42 0.56 0.47 0.35 0.23 0.27 0.23 0.67 0.93 31 0.61 - 1.17 - 0.54 - 0.35 0.23 0.21 - 1.19 TOTAL AVERA-	27	0,86	(1.79	0.97	1.04	0.56	0,52	0.35	0.25	0.21	· · · · · · · · · · · · · · · · · · ·		<u> </u>
30 0.65 - 1.34 1.42 0.56 0.47 0.35 0.23 0.27 0.23 0.67 0.93 31 0.61 - 1.17 - 0.54 - 0.35 0.23 0.21 - 1.19 Total AVERA-	28	0.76	1.43	1.00	0.85	0.62	1	1		1	T		
31 0.61 - 1.17 - 0.54 - 0.35 0.23 0.21 - 1.19 TOTAL	29	0.70	-	1.39	0.87	0.58	0,48	0.35	0.24	0.24	(1	†
TOTAL AVERA-	30	0.65	-	1.34	1.42	0.56	0.47	0.35	0.23	0.27		f	
AVERA-	31	0.61	-	1.17		0.54		0.35	0.2	<u>B</u>	0.21	-	1.19
AVERA-					 	ļ	ļ <u></u>	 	ļ	 	 	 	
	TOTAL				ļ	ļ	ļ	 	<u> </u>		 		
	AVERA- GE				ļ								

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Table.	3.9	Stream	stage	records	点土	Jenslata			(1)	
				7000702		netta to fo	ALL LAR LELE	ECHLION	141	

Ri	ver Sys			River	3- 10	COLUZ		vatory				
Jer	lebera	ng		nelat							Yea	·
	JAN.	FCB.	MAR.	APR.	MAY.	tinte	Jenel				1980	
<u> </u>	1.03	0.62				JUNE.	JULY.	AUG.	SEP.	OCT.	NON.	DEC.
2	0.97	0.63		0.72	1.27	0.50	0.39	0.30		0.14	0.27	
3	0.86	0.66	0.86		1.28	0.48	0.39	0.32		0.11	[
4	1.15	0.94	0,86		1.57	0.46	0.39	0.33		0.07	0.20	
	1.11	0.80			1.10	0.46	0,39	0.31		0.09	0.17	
5	1.21				1.21	0.45	0.39			0.09	0.17	
	1.62			1.08	1.08	0.44	0.38	0.30		0.04	0.29	
	1.93	+		1.27	0.99	0.46	0.38		0.13		+	0.99
9	<u> </u>	1.15		1.73	0.93	0.55	<u></u> {	÷	0.17	0.13	0.33	+
	÷	1.04		1.16	0.86	0.57	0.38	<u> </u>	0.13	0.14		1.09
	<u> </u>	1.04			10400		0.38	0.31	V+12	0.10	0.39	1,17
11	1 73	1.02	n ào	1.40	0 70	10-54)	0 20	0.27	0.17	0.12	0.36	1.25
12		2.01		1.26			0.38	· · · · · · · · · · · · · · · · · · ·	0.16	0.09	*	1.35
13		2.46		1.02	0.69	1	0.38	+	0.15	0.10		1.60
14	1	1.77	,	1	0.65		0.37	ł		4		1.67
	1	1.76	(1.65	0.63		0.39		0.19	0.23	÷	1.27
 16	<u>, </u>				1				0.14	0.21	+	1.02
17	1	1.51	2	1.34	+		0.47	<u>}</u>	0.15	0.18	<u>↓</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.00
18	1	1.91		,	0.61	frances	0.39	+	f	0.16	4	1.04
19	(·	1.35		1.07	0.58	1	0.37	1	متشمشتم	0.15	<u>↓</u>	1.03
20	3.10	~~~~	f	0.96	0.53	1		}	0.10	0.13		1.12
~~~~~	6.06	1.10	1027	0.30		0.10	0.36	0.23				
21	1 96	1 02	1.24	0 85	0.46	0.53	0.36	0.22	0.11	6.49	0.66	1.70
22	••••••	*****	1.04		Cartor and the second second second second second second second second second second second second second second	0.48					*****	<u> </u>
23	4	·			1	0.40	1	(		T	0.53	1.30
24	+	1	0.96		1	7	0.34		÷	1	0.63	1.91
25			0.90				0.31				0.65	1.66
26			0.80		0.72		0.31	· · · · · · · · · · · · · · · · · · ·		7	0.82	1.25
27			0.76		0.59		0.31	<del></del>	÷	0.20	1	1.03
28			0.73		0.67		0.32			7	0.86	1.05
29	1	1.51			0.71		0.35			0.47	1	1.30
30	0.69	1	0.81		0.75	7	0.31			0.37	7	1.15
31	1		0.80		0.67			0.15	-	0.30	~	1.39
<u></u>	0.63	i 1	0.00			<u></u>			<u> </u>	1	<u> </u>	
TOTAL	<u> </u>	<u> </u>			<u> </u>	<u>†</u>	<u> </u>	+	j	†	†	<u> </u>
AVERA-	ļ	}			<u>}</u>	+	<u> </u>	j	<u> </u>	<u> </u>	<u> </u>	<u>}</u>
CE	}	 			<u> </u>	<u></u>	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>

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Table 3108;reas	etage	records	at	Bantimurung	ganging	stat	ion	(2)

$\begin{array}{c c c c c c c c c c c c c c c c c c c $				0.00	3 1300	Tas &	t bant	1 mairu	es gar	ging	stati	on G	
M         JAN.         FEB.         MAX.         AFR.         MAY.         JUNE.         JULY.         AUG.         SEP.         OCT.         HOV.         DEC.           1         2.29         1.85         1.94         1.83         0.96         1.85         1.94         1.90         1.83         1.80         1.75         1.94           2         2.38         1.92         1.65         1.62         0.91         1.83         2.02         1.85         1.82         1.75         2.01           3         2.39         1.93         1.43         0.92         1.83         2.02         1.83         1.82         1.93         1.74         2.11           5         2.24         1.99         2.14         1.73         0.92         1.88         x         1.87         1.83         1.83         1.77         2.12           7         2.23         2.02         2.26         2.05         0.90         1.93         1.93         1.85         2.07           9         1.98         1.99         2.24         2.14         0.83         1.92         1.96         1.87         1.86         1.91         1.85         2.07           9	Riv	er Sys	tem	·	River			Obser	vatory			Year	:
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		08	·	Ban	timur	ing	·	Bent	imiru	lg		197	8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	) M	JAN.	F28.	MAR.	APR,	MAY.	JUNE.	JULY.	AUG,	SEP.	OCT,	nov.	DEC.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1	2.29	1.85	1.94	1,83	0,9.6	1.85	1.94	1.90	1.83	1.80	1.75	1.94
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2.38	1.92	1.85	1.62	0.94	1.84	1.97	1.89	1.82	1.82	1.75	2.01
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3	2.39	1.93	1.93	1.43	0.92	1.83	2.02	1.89	1.81	1.88	1.75	2.06
6       2.40       2.06       2.27       1.89       0.92       1.88       1.87       1.83       1.83       1.77       2.12         7       2.23       2.02       2.26       2.05       0.90       1.92       1.87       1.84       1.44       1.83       2.10         8       2.09       1.99       2.29       2.27       0.69       1.93       1.98       1.87       1.67       0.93       1.45       2.07         9       1.98       1.95       2.24       2.14       0.83       1.92       1.96       1.87       1.86       1.91       1.65       2.03         10       2.04       2.06       2.41       2.16       0.87       1.97       1.91       1.86       1.87       1.29       1.88       2.05         11       X       2.06       2.41       2.16       0.87       1.91       1.86       1.87       1.29       1.88       2.05         12       X       2.06       2.42       2.00       0.87       1.97       1.91       1.86       1.87       1.74       1.93       2.02         13       2.80       2.06       1.95       1.92       1.91       1.86       1.87 <td>4</td> <td>2.29</td> <td>2.06</td> <td>2.03</td> <td>1.33</td> <td>0.91</td> <td>1.86</td> <td>2.06</td> <td>1.88</td> <td>1.82</td> <td>1.93</td> <td>1.74</td> <td>2.11</td>	4	2.29	2.06	2.03	1.33	0.91	1.86	2.06	1.88	1.82	1.93	1.74	2.11
7 $2 + 23$ $2.02$ $2.26$ $2.05$ $0.92$ $x$ $1.87$ $1.84$ $1.44$ $1.93$ $2.10$ 8 $2.09$ $1.99$ $2.29$ $2.27$ $0.89$ $1.93$ $1.96$ $1.87$ $1.87$ $0.93$ $1.85$ $2.07$ 9 $1.98$ $1.95$ $2.24$ $2.14$ $0.83$ $1.92$ $1.86$ $1.91$ $1.86$ $1.91$ $1.86$ $1.91$ $1.86$ $1.91$ $1.86$ $1.91$ $1.86$ $1.91$ $1.86$ $1.97$ $1.29$ $1.86$ $2.03$ $2.05$ 11 $x$ $2.06$ $2.41$ $2.16$ $0.87$ $1.97$ $1.96$ $1.86$ $1.66$ $1.74$ $2.04$ $2.06$ 13 $x$ $2.06$ $2.08$ $0.93$ $1.92$ $1.91$ $1.86$ $x$ $1.74$ $1.90$ $2.21$ 14 $2.05$ $1.78$ $1.95$ $1.18$ $2.16$ $x$ $1.74$ $1.93$ $2.11$ 15 $2.44$ $2.05$ $1.77$ </td <td>5</td> <td>2.24</td> <td>1.99</td> <td>2.14</td> <td>1.73</td> <td>0.92</td> <td>1.89</td> <td>I</td> <td>1.87</td> <td>1.83</td> <td>1.88</td> <td></td> <td></td>	5	2.24	1.99	2.14	1.73	0.92	1.89	I	1.87	1.83	1.88		
8       2.09       1.99       2.29       2.27       0.69       1.93       1.98       1.87       1.87       0.93       1.85       2.07         9       1.98       1.95       2.24       2.14       0.63       1.92       1.96       1.87       1.88       1.91       1.65       2.03         10       2.04       2.06       2.41       2.16       0.87       1.97       1.91       1.86       1.87       1.29       1.88       2.05         11       x       2.06       2.41       2.16       0.87       1.97       1.91       1.86       1.87       1.29       1.88       2.02         12       x       2.06       2.19       1.96       0.92       1.94       1.91       1.86       x       1.74       2.02       2.02         13       2.80       2.06       2.08       1.95       0.93       1.92       1.91       1.86       x       1.74       1.93       2.11         15       2.44       2.05       1.78       1.55       1.18       2.16       1.96       1.86       x       1.74       1.93       2.21         15       2.44       2.05       1.78       1.92	6	2.40	2.06	2.27	1.89	0.92	1.88	:z	1.87	1.83	1.83		
9         1.98         1.95         2.24         2.14         0.83         1.92         1.96         1.87         1.88         1.91         1.65         2.03           10         2.04         2.06         2.41         2.16         0.87         1.96         1.94         1.86         1.87         1.29         1.88         2.05           11         x         2.06         2.41         2.16         0.87         1.97         1.91         1.86         1.87         1.29         1.88         2.05           12         x         2.06         2.19         1.96         0.92         1.94         1.91         1.86         x         1.74         2.04         2.06           12         x         2.06         2.09         1.95         0.93         1.92         1.91         1.86         x         1.74         1.93         2.11           15         2.44         2.05         1.78         1.55         1.18         2.16         1.96         1.86         x         1.74         1.93         2.21           16         2.25         1.77         1.38         2.63         2.05         1.93         2.01         1.86         1.22         1.93 </td <td>7</td> <td></td> <td></td> <td>2.26</td> <td>2.05</td> <td>0.90</td> <td>1.92</td> <td>I</td> <td>1.87</td> <td>1.84</td> <td>1.44</td> <td></td> <td></td>	7			2.26	2.05	0.90	1.92	I	1.87	1.84	1.44		
10       2.04       2.06       2.41       2.16 $0.87$ $1.96$ $1.94$ $1.86$ $1.87$ $1.29$ $1.88$ $2.05$ 11       x       2.08       2.23 $2.00$ $0.87$ $1.97$ $1.91$ $1.86$ $1.74$ $2.04$ $2.06$ 12       x $2.06$ $2.19$ $1.96$ $0.92$ $1.94$ $1.91$ $1.86$ x $1.74$ $2.02$ $2.02$ 13 $2.80$ $2.06$ $2.08$ $1.95$ $0.93$ $1.92$ $1.91$ $1.86$ x $1.74$ $1.93$ $2.11$ 15 $2.44$ $2.05$ $1.78$ $1.55$ $1.18$ $2.16$ $1.96$ $x$ $1.74$ $1.93$ $2.11$ 15 $2.44$ $2.05$ $1.78$ $1.55$ $1.18$ $2.16$ $1.95$ $1.86$ $x$ $1.74$ $1.93$ $2.11$ 16 $2.25$ $2.09$ $1.77$ $1.38$ $2.63$ $2.05$ $1.43$ $1.99$ $1.89$ $1.89$ $1.72$ $1.93$ $2.13$ </td <td>8</td> <td>2,09</td> <td>1.99</td> <td>2.29</td> <td>2.27</td> <td>0,89</td> <td>1.93</td> <td>1.98</td> <td>1.87</td> <td>1.87</td> <td></td> <td>1.85</td> <td>2.07</td>	8	2,09	1.99	2.29	2.27	0,89	1.93	1.98	1.87	1.87		1.85	2.07
11       x       2.08       2.23       2.00       0.87       1.97       1.91       1.86       1.86       1.74       2.04       2.06         12       x       2.06       2.19       1.96       0.92       1.94       1.91       1.86       x       1.74       2.10       2.02         13       2.80       2.06       2.08       1.95       0.93       1.92       1.91       1.86       x       1.74       1.93       2.02         14       2.58       2.09       1.98       1.76       0.93       1.96       1.95       1.86       x       1.74       1.93       2.11         15       2.44       2.05       1.78       1.55       1.18       2.16       1.96       x.86       x       1.74       1.99       2.21         16       2.25       2.09       1.77       1.38       2.63       2.05       1.93       1.86       x       1.72       1.93       2.31         17       2.09       2.28       1.61       1.52       2.03       1.86       1.93       1.72       1.93       2.31         19       1.88       2.95       1.25       1.29       1.12       1.35 <t< td=""><td>9</td><td>1.98</td><td>1.95</td><td>2.24</td><td>2.14</td><td>0.83.</td><td>1.92</td><td>1.96</td><td>1.87</td><td>1.88</td><td></td><td>1.85</td><td>2.03</td></t<>	9	1.98	1.95	2.24	2.14	0.83.	1.92	1.96	1.87	1.88		1.85	2.03
12 $\mathbf{x}$ 2.06       2.19       1.96       0.92       1.94       1.91       1.86 $\mathbf{x}$ 1.74       2.10       2.02         13       2.80       2.06       2.08       1.95       0.93       1.92       1.91       1.86 $\mathbf{x}$ 1.74       1.93       2.02         14       2.58       2.09       1.98       1.78       0.93       1.96       1.95       1.86 $\mathbf{x}$ 1.74       1.93       2.11         15       2.44       2.05       1.78       1.55       1.18       2.16       1.96       1.86 $\mathbf{x}$ 1.74       1.93       2.11         15       2.44       2.05       1.78       1.55       1.18       2.16       1.96       1.86 $\mathbf{x}$ 1.74       1.90       2.21         16       2.25       2.09       1.77       1.38       2.63       2.05       1.93       1.86 $\mathbf{x}$ 1.72       1.94       2.59         18       1.98       2.31       1.55       1.40       1.59       2.06       1.62       1.88       1.93       1.72       1.89       2.18         20       1.76       2.75       1.2	10	2.04	2.06	2.41	2.16	0.87	1.96	1.94	1.86	1.87	1.29	1.88	2.05
12 $\mathbf{x}$ 2.06       2.19       1.96       0.92       1.94       1.91       1.86 $\mathbf{x}$ 1.74       2.10       2.02         13       2.80       2.06       2.08       1.95       0.93       1.92       1.91       1.86 $\mathbf{x}$ 1.74       1.93       2.02         14       2.58       2.09       1.98       1.78       0.93       1.96       1.95       1.86 $\mathbf{x}$ 1.74       1.93       2.11         15       2.44       2.05       1.78       1.55       1.18       2.16       1.96       1.86 $\mathbf{x}$ 1.74       1.93       2.11         15       2.44       2.05       1.78       1.55       1.18       2.16       1.96       1.86 $\mathbf{x}$ 1.74       1.90       2.21         16       2.25       2.09       1.77       1.38       2.63       2.05       1.93       1.86 $\mathbf{x}$ 1.72       1.94       2.59         18       1.98       2.31       1.55       1.40       1.59       2.02       1.83       1.89       1.72       1.93       2.31         19       1.88       2.95       1.25       1.2													ļ
13       2.80       2.06       2.08       1.95       0.93       1.92       1.91       1.86       x       1.74       1.98       2.02         14       2.58       2.09       1.98       1.76       0.93       1.96       1.95       1.86       x       1.74       1.93       2.11         15       2.44       2.05       1.78       1.55       1.18       2.16       1.96       1.86       x       1.74       1.90       2.21         16       2.25       2.09       1.77       1.38       2.63       2.05       1.93       1.86       x       1.73       1.90       2.43         17       2.09       2.28       1.81       1.28       2.32       1.99       1.91       1.89       1.29       1.93       2.43         19       1.68       2.95       1.35       1.40       1.59       2.06       1.62       1.83       1.93       1.72       1.89       2.31         19       1.68       2.95       1.24       1.14       1.35       2.02       1.83       1.89       1.77       1.88       2.58         20       1.76       2.75       1.29       1.12       1.35       2.03	11	I	2.08	2.23	2.00	0.87	1.97	1.91	1.86	1.86	1.74	2.04	2.06
14       2.58       2.09       1.98       1.78       0.93       1.96       1.95       1.86       x       1.74       1.93       2.11         15       2.44       2.05       1.78       1.55       1.18       2.16       1.96       1.86       x       1.74       1.90       2.21         16       2.25       2.09       1.77       1.38       2.63       2.05       1.93       1.86       x       1.73       1.90       2.43         17       2.09       2.28       1.81       1.28       2.32       1.99       1.91       1.89       1.27       1.94       2.59         18       1.98       2.31       1.53       1.30       1.94       2.03       1.66       1.92       1.89       1.72       1.93       2.31         19       1.88       2.95       1.30       1.94       2.03       1.66       1.92       1.89       1.77       1.89       2.18         20       1.76       2.75       1.29       1.12       1.35       2.02       1.83       1.93       1.77       1.88       2.22         2.85       2.49       1.30       1.39       1.94       1.99       1.81       1.86	12	ĩ	2.06	2.19	1.96	0.92	1.94	1.91	1,86	X	1.74	2.10	2.02
15 $2.44$ $2.05$ $1.78$ $1.55$ $1.18$ $2.16$ $1.96$ $1.86$ $\mathbf{x}$ $1.74$ $1.90$ $2.21$ 16 $2.25$ $2.09$ $1.77$ $1.32$ $2.63$ $2.05$ $1.93$ $1.86$ $\mathbf{x}$ $1.73$ $1.90$ $2.43$ 17 $2.09$ $2.28$ $1.81$ $1.28$ $2.32$ $1.99$ $1.91$ $1.89$ $1.72$ $1.93$ $2.33$ 17 $2.09$ $2.28$ $1.81$ $1.28$ $2.32$ $1.99$ $1.91$ $1.89$ $1.72$ $1.93$ $2.33$ 18 $1.98$ $2.31$ $1.50$ $1.40$ $1.59$ $2.06$ $1.62$ $1.38$ $1.72$ $1.93$ $2.31$ 20 $1.76$ $2.75$ $1.29$ $1.12$ $1.35$ $2.02$ $1.83$ $1.86$ $1.84$ $1.77$ $1.88$ $2.22$ 21 $1.79$ $2.55$ $1.24$ $1.14$ $1.35$ $2.03$ $1.82$ $1.86$ $1.77$ $1.78$ $2.90$ $2.25$	13	2.80	2.06	2.08	1.95	0.93	1.92	1.91	1.86	I	1.74	1.98	2.02
16       2.25       2.09       1,77       1.38       2.63       2.05       1.93       1.86 $x$ 1.73       1.90       2.43         17       2.09       2.28       1.61       1.28       2.32       1.99       1.91       1.69       1.29       1.94       2.59         18       1.98       2.31       1.53       1.30       1.94       2.03       1.66       1.92       1.89       1.72       1.93       2.31         19       1.88       2.95       1.35       1.40       1.59       2.06       1.62       1.88       1.93       1.72       1.89       2.18         20       1.76       2.75       1.29       1.12       1.35       2.02       1.83       1.86       1.84       1.75       1.88       2.22         21       1.76       2.75       1.24       1.14       1.35       2.03       1.82       1.86       1.54       1.77       1.88       2.22         21       1.79       2.55       1.24       1.14       1.35       2.03       1.82       1.86       1.54       1.77       1.88       2.22         2       2.85       2.49       1.30       1.99 <td< td=""><td>14</td><td>2.58</td><td>2.09</td><td>1.98</td><td>1.78</td><td>0.93</td><td>1.96</td><td>1.95</td><td>1.86</td><td>x</td><td>1.74</td><td>1.93</td><td>2.11</td></td<>	14	2.58	2.09	1.98	1.78	0.93	1.96	1.95	1.86	x	1.74	1.93	2.11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	2.44	2.05	1.78	1.55	1.18	2.16	1.96	1.86	z	1.74	1.90	2.21
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16	2.25	2.09	1,77	1.38	2.63	2.05	1.93	1.86	I	1.73	1.90	2.43
19 $1.88$ $2.95$ $1.35$ $1.40$ $1.59$ $2.06$ $1.62$ $1.88$ $1.93$ $1.72$ $1.89$ $2.18$ 20 $1.76$ $2.75$ $1.29$ $1.12$ $1.35$ $2.02$ $1.83$ $1.86$ $1.84$ $1.75$ $1.88$ $2.22$ 21 $1.79$ $2.55$ $1.24$ $1.14$ $1.35$ $2.02$ $1.83$ $1.86$ $1.84$ $1.75$ $1.88$ $2.22$ 21 $1.79$ $2.55$ $1.24$ $1.14$ $1.35$ $2.03$ $1.82$ $1.86$ $1.54$ $1.77$ $1.88$ $2.58$ 22 $2.85$ $2.49$ $1.30$ $1.39$ $1.94$ $1.99$ $1.81$ $1.86$ $1.07$ $1.77$ $2.00$ $2.59$ 23 $2.61$ $2.39$ $1.95$ $1.27$ $1.95$ $1.97$ $1.80$ $1.86$ $1.19$ $1.78$ $1.99$ $2.35$ 24 $2.77$ $2.25$ $2.12$ $1.15$ $1.92$ $1.96$ $1.80$ $1.85$ $1.77$ $1.78$ $2.09$ $2.76$ 25 $2.92$ $2.13$ $2.34$ $1.21$ $1.85$ $1.80$ $1.79$ $1.85$ $1.73$ $1.78$ $2.04$ $3.26$ 26 $2.71$ $2.05$ $2.09$ $1.08$ $1.80$ $1.55$ $1.79$ $1.84$ $1.26$ $1.78$ $1.78$ $2.92$ 27 $2.43$ $2.08$ $1.99$ $1.24$ $1.84$ $1.62$ $1.79$ $1.84$ $1.80$ $1.78$ $1.95$ $2.72$ 28 $2.29$ $2.$	17	2.09	2.28	1.81	1.28	2.32	1.99			1.89	1.72	1.94	2.59
19 $1.88$ $2.95$ $1.35$ $1.40$ $1.59$ $2.06$ $1.62$ $1.88$ $1.93$ $1.72$ $1.89$ $2.18$ 20 $1.76$ $2.75$ $1.29$ $1.12$ $1.35$ $2.02$ $1.83$ $1.86$ $1.84$ $1.75$ $1.88$ $2.22$ 21 $1.79$ $2.55$ $1.24$ $1.14$ $1.35$ $2.02$ $1.83$ $1.86$ $1.84$ $1.75$ $1.88$ $2.22$ 21 $1.79$ $2.55$ $1.24$ $1.14$ $1.35$ $2.03$ $1.82$ $1.86$ $1.54$ $1.77$ $1.88$ $2.58$ 22 $2.85$ $2.49$ $1.30$ $1.39$ $1.94$ $1.99$ $1.81$ $1.86$ $1.07$ $1.77$ $2.00$ $2.59$ 23 $2.61$ $2.39$ $1.95$ $1.27$ $1.95$ $1.97$ $1.80$ $1.86$ $1.19$ $1.78$ $1.99$ $2.35$ 24 $2.77$ $2.25$ $2.12$ $1.15$ $1.92$ $1.96$ $1.80$ $1.85$ $1.77$ $1.78$ $2.09$ $2.76$ 25 $2.92$ $2.13$ $2.34$ $1.21$ $1.85$ $1.80$ $1.79$ $1.85$ $1.73$ $1.78$ $2.04$ $3.26$ 26 $2.71$ $2.05$ $2.09$ $1.08$ $1.80$ $1.79$ $1.84$ $1.26$ $1.78$ $1.78$ $2.92$ 27 $2.43$ $2.08$ $1.99$ $1.24$ $1.84$ $1.62$ $1.79$ $1.84$ $1.81$ $1.78$ $1.78$ $2.72$ 28 $2.29$ $2.00$ $1.$	18	1.98	2.31	1.53	1.30	1.94	2.03	1.86	1.92		1.72	1.93	2.31
21       1.79       2.55       1.24       1.14       1.35       2.03       1.82       1.86       1.54       1.77       1.88       2.58         22       2.85       2.49       1.30       1.39       1.94       1.99       1.81       1.86       1.07       1.77       2.00       2.59         23       2.61       2.39       1.95       1.27       1.95       1.97       1.80       1.86       1.19       1.77       2.00       2.59         24       2.77       2.25       2.12       1.15       1.92       1.96       1.80       1.85       1.77       1.78       2.09       2.76         25       2.92       2.13       2.34       1.21       1.85       1.80       1.79       1.85       1.73       1.78       2.09       2.76         26       2.71       2.05       2.09       1.08       1.80       1.79       1.85       1.38       1.78       2.09       2.92         27       2.43       2.08       1.99       1.24       1.84       1.62       1.79       1.84       1.81       1.78       1.92       2.72         28       2.29       2.00       1.95       1.34 <t< td=""><td>19</td><td></td><td></td><td>1.35</td><td>1.40</td><td>1.59</td><td>2.06</td><td>1.62</td><td>1.38</td><td>1.93</td><td>1.72</td><td>1.89</td><td>2.18</td></t<>	19			1.35	1.40	1.59	2.06	1.62	1.38	1.93	1.72	1.89	2.18
22       2.85       2.49       1.30       1.39       1.94       1.99       1.81       1.86       1.07       1.77       2.00       2.59         23       2.61       2.39       1.95       1.27       1.95       1.97       1.80       1.86       1.19       1.78       1.99       2.35         24       2.77       2.25       2.12       1.15       1.92       1.96       1.80       1.85       1.77       1.78       2.09       2.76         25       2.92       2.13       2.34       1.21       1.85       1.60       1.79       1.85       1.73       1.78       2.04       3.26         26       2.71       2.05       2.09       1.08       1.80       1.55       1.79       1.85       1.38       1.78       2.09       2.92         27       2.43       2.08       1.99       1.24       1.84       1.62       1.79       1.84       1.26       1.78       1.78       2.92       2.92         28       2.29       2.00       1.95       1.34       1.86       1.80       1.78       1.81       1.76       1.93       4.42         29       2.13       -       1.82       1	20	1.76	2.75	1.29						2	1.75	1.88	2.22
22       2.85       2.49       1.30       1.39       1.94       1.99       1.81       1.86       1.07       1.77       2.00       2.59         23       2.61       2.39       1.95       1.27       1.95       1.97       1.80       1.86       1.19       1.78       1.99       2.35         24       2.77       2.25       2.12       1.15       1.92       1.96       1.80       1.85       1.77       1.78       2.09       2.76         25       2.92       2.13       2.34       1.21       1.85       1.60       1.79       1.85       1.73       1.78       2.04       3.26         26       2.71       2.05       2.09       1.08       1.80       1.55       1.79       1.85       1.38       1.78       2.09       2.92         27       2.43       2.08       1.99       1.24       1.84       1.62       1.79       1.84       1.26       1.78       1.78       2.92       2.92         28       2.29       2.00       1.95       1.34       1.86       1.80       1.78       1.81       1.76       1.93       4.42         29       2.13       -       1.82       1								}	[		<u> </u>		<u> </u>
23       2.61       2.39       1.95       1.27       1.95       1.97       1.80       1.86       1.19       1.78       1.99       2.35         24       2.77       2.25       2.12       1.15       1.92       1.96       1.80       1.85       1.77       1.78       2.09       2.76         25       2.92       2.13       2.34       1.21       1.85       1.80       1.79       1.85       1.73       1.78       2.04       3.26         26       2.71       2.05       2.09       1.08       1.80       1.55       1.79       1.85       1.38       1.78       2.09       2.92         27       2.43       2.08       1.99       1.24       1.84       1.62       1.79       1.84       1.26       1.78       1.78       2.09       2.92         28       2.29       2.00       1.95       1.34       1.86       1.80       1.78       1.84       1.81       1.78       1.93       3.48         29       2.13       -       1.82       1.04       1.86       1.93       1.78       1.84       1.80       1.77       1.92       2.75         30       2.00       -       1.80	21	1.79	2.55	1.24	1.14	1.35	2.03	1.82	1.86	1.54	1.77	1.88	2.58
24       2.77       2.25       2.12       1.15       1.92       1.96       1.80       1.85       1.77       1.78       2.09       2.76         25       2.92       2.13       2.34       1.21       1.85       1.80       1.79       1.85       1.73       1.78       2.04       3.26         26       2.71       2.05       2.09       1.08       1.80       1.55       1.79       1.85       1.38       1.78       2.09       2.92         27       2.43       2.08       1.99       1.24       1.84       1.62       1.79       1.84       1.26       1.78       1.78       2.09       2.92         27       2.43       2.08       1.99       1.24       1.84       1.62       1.79       1.84       1.26       1.78       1.78       2.92         28       2.29       2.00       1.95       1.34       1.86       1.80       1.78       1.84       1.80       1.78       1.19       3.48         29       2.13       -       1.80       0.99       1.85       1.90       1.79       1.84       1.80       1.77       1.92       2.79         30       2.00       -       1.90	22	2.85	2.49	1.30	1.39	1.94	1.99	1.81	1.86	1.07	1.77	2.00	2.59
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23	2.61	2.39	1.95	1.27	1.95	1.97	1.80	1.86	1.19			2.35
26       2.71       2.05       2.09       1.08       1.80       1.55       1.79       1.85       1.38       1.78       2.09       2.92         27       2.43       2.08       1.99       1.24       1.84       1.62       1.79       1.84       1.26       1.78       1.78       2.09       2.92         28       2.29       2.00       1.95       1.34       1.86       1.80       1.78       1.84       1.81       1.78       1.19       3.48         29       2.13       -       1.82       1.04       1.86       1.93       1.78       1.84       1.80       1.78       1.85       3.16         30       2.00       -       1.80       0.99       1.85       1.90       1.79       1.84       1.80       1.77       1.92       2.75         31       1.58       -       1.90       -       1.85       -       1.79       1.84       -       1.76       -       2.65         TOTAL         AVERA-	24	2.77	2.25	2.12	1.15	1.92	1.96	1.80	1.85	1.77	-+	-f	2.76
27       2.43       2.08       1.99       1.24       1.84       1.62       1.79       1.84       1.26       1.78       1.78       2.72         28       2.29       2.00       1.95       1.34       1.86       1.80       1.78       1.84       1.81       1.78       1.19       3.48         29       2.13       -       1.82       1.04       1.86       1.93       1.78       1.84       1.80       1.78       1.85       3.16         30       2.00       -       1.80       0.99       1.85       1.90       1.79       1.84       1.80       1.77       1.92       2.75         31       1.88       -       1.90       -       1.85       -       1.79       1.84       -       1.76       -       2.65         TOTAL         AVERA-	25	2.92	2.13	2.34	1.21	1.85	1.80	1.79	1.85	1	7		3.26
28       2.29       2.00       1.95       1.34       1.86       1.80       1.78       1.81       1.78       1.19       3.48         29       2.13       -       1.62       1.04       1.86       1.93       1.78       1.84       1.80       1.78       1.85       3.16         30       2.00       -       1.80       0.99       1.85       1.90       1.79       1.84       1.80       1.77       1.92       2.75         31       1.68       -       1.90       -       1.85       -       1.79       1.84       -       1.76       -       2.65         TOTAL         AVERA-	26	2.71	2.05	2.09	1.08	1.80	1.55	1.79	1.85				2.92
29       2.13       -       1.52       1.04       1.86       1.93       1.78       1.84       1.80       1.78       1.85       3.16         30       2.00       -       1.80       0.99       1.85       1.90       1.79       1.84       1.80       1.77       1.92       2.75         31       1.88       -       1.90       -       1.85       -       1.79       1.84       -       1.76       -       2.65         TOTAL         AVERA-	27	2.43	2.03	1.99	1.24	1.84			1.84	1			1
30       2.00       -       1.80       0.99       1.85       1.90       1.79       1.84       1.80       1.77       1.92       2.75         31       1.88       -       1.90       -       1.85       -       1.79       1.84       -       1.76       -       2.65         TOTAL         AVERA-	28	2.29	2.00	1.95	1.34	1.86	-		1.84		+		3.48
31     1.88     -     1.90     -     1.85     -     1.79     1.84     -     1.76     -     2.65       TOTAL	29	2.13	-	1.82	1.04	1.86	1.93	1.78	1.84		- <del>†</del>		3.16
TOTAL AVERA-	30	2.00	-	1.80	0.99	1.85	1.90	1.79	1.84	1.80			2.75
AVERA-	31	1.88		1.90	-	1.85	-	1.79	1.84		1.76		2.69
AVERA-						<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	4
	TOTAL							<u></u>	ļ	ļ	<u>_</u>	<u> </u>	+
GEl	f	{		1		1				1	}	1	
	IGE	I	<u> </u>	<u></u>	1. <u></u>	4	1	- <b> </b>		· · · · ·		- <b>b</b>	

- 61 -

R1.	ver Sys		es sta		1	at par			24 n.	C STAT	101	<u> </u>
				River	}		Obser	vatory			Yea	r
Mar	608		Bar	<u>itimir</u>	ung		Bantir	mrung			197	9
1	J.1.N.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1	.2.44	2.12	1.63	2.69	1.99	1.92	1.76	1.68	1.62	1.51	1.59	2.11
- 2	2.57	2.43	1.89	2.55	2.11	1.92	1.75	1.68	1.62	1.51	1.59	1=34
3	2.95	2-45	1.85	2.43	2.14	1.91	1.75	1.68	1.62	1.51	1.57	1.4
4	2.69	2.29	1.92	2.30	2.13	1.90	1.75	1.67	1.62	1.51	1.53	2.1
5	2.58	2.21	2.04	2.19	1.16	1.90	1.75	1.67	1.62	1.52	1.59	1.8
6	2.43	2.14	2.07	.2.16		1.90	1.74	1.67	1.62	1,52	1.21	1.4
7	1.99	2,12	1.43	2.22	2.53	1.91	1.74	1.67	1.62	1.52	1.25	1.6
6	1.89	2.08	1.17	2.39	2.58	7.91	1.74	1.66	1.63	1.52	1.49	2.2
9	1.99	2.04	1.12	2.46	2.48	1.90	1.73	1.66	1.63	1.52	1.65	2.5
10	2,00	2.02	1.48	2,38	2.38	1.89	1.72	1.66	1.63	1.52	1.76	2.3
									`````			
11	2,08	2:03	1.55	2.29	2.29	1.89	1.72	1.66	1.63	1.52	1.83	2.2
12			1,55			· · · · · · · · · · · · · · · · · · ·				1.52	1,82	<u></u>
13		í .	1.75		2					1.53	1.40	2.0
14			1.99		1			í	}	1.53		1
15		1	2.39		1	)	ſ	ł		1.53		<b>i</b> .
-16 -			2.45		J		1.71	ſ	-	1.54	1.30	1
17		1	2.40		1		******	}		1.54		
18			2,24	( .	ł	+		1		1.54		Į
19		i	2.34	) · · · · ·	1	1.82	[	}		1.54		1
20		•	2.28	f ·	1	{	1.71		í	1.54		7
		6 - 22 J - L-Joan 1							<u>-</u> 	{		<u> </u>
21	1.62	.2.25	2.23	1.90	2.02	1.81	1.71	1.63	1.54	1.55	1.72	2.0
22		4	2.22	f	1.99	1.81			1.54	1.55	}	2.0
23		-2.20	1	2.01	1	1.81			1.54	*	1.70	2.0
24	2.10	*	2.17	1.97	1	1.81	}		1.54	1.56		2.0
25			2.15	1	7		1	1	1+53	1.56	1.79	1.
26	2.12	1	2.27	1.95	1			1 4 6 4	1.53		1.82	1.
27	2.24	<u>,</u>	2.42	····	1.95	5	{	1	1.52	1.56	1.82	2.0
28	1	0.73	T		2.05	1.78	· · · · ·		1.52	1.57	1.77	2.0
29	2.25	1	2.40		2.01	1.78	[	1.64	1.51	1.57	1.66	2.0
30	2.20	T	2.82	2.00	1	1.77	,	1.64	1.51	1.58	1.90	2.
31	2.14		3.05		1.95	1	1.68	1.64		1.58		3.
•••••••••••	+==:-:	}		<u> </u>		1		1	1	1		1
TOTAL	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1		1		1		1
VERA-	<u> </u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	j	1	<u>}</u>	+		1
E	L	۰ ۸	<u> </u>	<u> </u>	<u> </u>	1	1	J	<u> </u>	<u>i</u>	l	<u>}</u>

## Table310 Stream stars records at Bar (2)

	or Syst		<b>Taco</b> 3	liver				vatory			Year	
Ma	ros		Ban	imiru	ng		Bant	imini	AR .	1	1380	
<u></u>	JAN.	FEB.	MAR,	APR,	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.
1		1.79	2.29	1.83	1.94	1.84	1.69	1.68	T I	1.48	•	1.86
2		1.72	2.28	•	1.92	1,84	1.69	1.68	•	1.48	•	1.81
3	2.40	1.68	2.26	4	1.90	1.82	1.69	1.68	1.47	1.48	•	1.87
4	2.46	1.73	2.27	•	1.88	1.82	1.70	1.68	1.47	1.48	•	1.79
5	2.44	1.77	2.24	•	1.87	1.81	1.70	1.68	-147	1.48	•	1.71
6	2.62	2.05	2.22	•	1.86	1.80	1.70	1.67	1.47	1.48	•	1.80
7	3.11	2.64	2.18	•	1.86	1.80	1.70	1.67	1,47	1.48		1.86
δ	3.35	3.04	2.15	•	1.84	1.79	1.70	1.67	1.46	1.48	0.54	1.79
9	3.50	2.31	2.12	•	1.83	1.78	1.70	1.66	1.46	1.48		2.02
10	3.52	2.20	2.10		1.82	1.78	1.70	1.65	1.45	1.48	0.54	1.07
		ب بیونیا بادیاند.										
13	3.38	2.15	•	~.	1.81	1.77	1.70	1.64	1.45	1.48	0.54	2.31
12	2.91	2.32	•	•	1.80	1.76	1.71	1.62	1.45	1.48	0.55	2.61
13	2.69	3.96	•		1.78	1.76	1.71	1.61	لستشميهم	1.48	0.55	2.69
14	2.63	3.76	•	2.09	1.77	1.75	1.71	÷	1.45	1.48	0.53	3.49
15	2.57	3.71	•	2.02		1.75	1.71	1.59		1.48	0.50	
16	2.49	3.13		2.08	1.75	1.75	1.71	÷*	1.45	1.48	0.50	
17	2.47	2.77	•	2.15	1.74	1.74	1.71	÷	1,45	1.48	0.51	
18	2.42	2.51		2.15		1.74		à	1,45	1.48		2.35
19		2.27		2.18	1.71	1.74	1.71	1.56	1.45	1,48	0.54	
26		2.42		2.22	1.71	1.73	1.71	1.56	1.45	1,48	0.54	2.41
									<u>.</u>			
21			2.92	*	<u></u>	1.73	<b></b>		1,44		,	
22			2.75			1.71	*····	******	1		0.57	ŗ = =
23			2.65			1,71		1.54	+	1.41	1	3.15
24	<u>.</u>		2.62	1	1	1.70		1.53	7	1.16	(···· - · · · · · · · · · · · · · · · ·	4.11
25	· · · · · · · · · · · · · · · · · · ·		2.56			1.70		1.53	1	1.03	}	3.38
26	2.37	2.23	2.51	1	1	1.70		1.52	·	0.98	<del> </del>	2.83
27	2.23	2.21		2.03		1.70	*****	1.52		0.98	1	2.63
28	2.17	5.20	<u>}</u>	2.00	<del>{</del>	1.69	÷	1.52		0.97	7	2.68
29	2.08		2 <u> </u>	1.98	+	1.69	+	1.52		0.97	*****	2.56
30	1.99	 	ļ	1.96	+	1.69	+	1.51	7		2.21	2.55
31	1.90	Į		•	1.85	1	1.68	1.50	1.48	[ 	<b> </b>	2.63
				 			<u> </u>	<b> </b>		ļ	<b> </b>	
TOTAL	<u></u>	ļ	l	<b> </b>	<u> </u>	<b>}</b>	<u> </u>	<u> </u>		ļ	<u></u>	<u> </u>
VERA-	1											
£	<b></b>	<b>L</b>	-d	••••••								

Table 310 Stare meaning of Paul

Table 3.1 Stream	stage	records	at	Tampobulu	gauging	station	(1)	5

River System	River	observatory	1 (1) Year
Maros	Maros	Tampobulu gauging station	1977
A JAN. + FUB	MAR. APR. MAY.	JUNE, JULY, AUG. SEP. OCT.	HOV. DEC.
		0.70 0.70 0.54 0.48 0.43	
	1.38 1.03 0.86	0.70 0.70 0.54 0.48 0.43	0.36 0.96
	1.28 1.00 0.87	0.68 0.69 0.54 0.47 0.43	0.36 0.96
· · · · · ·	1.30 0.90 0.90	0.68 0.68 0.55 0.47 0.42	0.36 0.98
· · · · · ·	1.45 0.93 0.89	0.68 0.67 0.54 0.47 0.42	0.36 0.93
n 1	1.27:0.97:0.87	0.67 0.66 0.54 0.47 0.42	0.40 0.82
······································	2.10 0.93 0.81	0.67 0.66 0.53 0.47 0.43	0.42 0.71
		0.68 0.65 0.53 0.47 0.42	
		0.67 0.64 0.53 0.46 0.42	
		0.65 0.63 0.53 0.45 0.42	
•			
	1.07 2.11 0.79	0.65 0.63 0.51 0.45 0.41	0.41 0.80
	0.99 1.50 0.91	0.66 0.63 0.60 0.44 0.41	0.41 0.71
	1.24 0.82 0.89	1.47 0.62 0.58 0.44 0.41	0.41 0.75
		1.32 0.61 0.54 0.44 0.40	
		1.09 0.61 0.52 0.44 0.40	
		0.93 0.60 0.52 0.44 0.40	
•		0.88 0.59 0.51 0.44 0.39	
· · · ·	4	1.53 0.59 0.51 0.43 0.39	· · · · · · · · · · · · · · · · · · ·
•		1.18 0.58 0.50 0.43 0.38	
	0.99 0.94 0.87	1.03 0.58 0.50 0.43 0.39	0.50 1.51
	F	0.94 0.57 0.50 0.43 0.39	
		0.89 0.57 0.50 0.44 0.39	
•		0.85 0.57 0.50 0.43 0.39	
· · ·	1.09 0.87 0.90	0.82 0.57 0.51 0.42 0.38	0.69 0.95
•	1.06 0.83 0.80	0.79 0.56 0.50 0.42 0.38	0.61 0.94
•		0.77 0.56 0.50 0.42 0.38	
	0.90 0.79 0.75	0.75 0.56 0.49 0.42 0.38	
•	and the second second second second second second second second second second second second second second second	0.74 0.55 0.48 0.42 0.37	0.90 1.10
••••	1.07.0.89.0.73	0.72 0.55 0.48 0.42 0.37	0.93 1.14
7+) 1		0.71 0.55 0.48 0.42 0.37	4. I I
•	0.92 - 0.70	- 0.14 0.40 - 0.30	1.17
versen en en en en en en en en en en en en e			

Marcos         Tampobulu gauging station         1978           Marcos         Tampobulu gauging station         1978           Marcos         Tampobulu gauging station         1978           Marcos         Tampobulu gauging station         1978           Marcos         Tampobulu gauging station         1978           Marcos         Tampobulu gauging station         1978           L         1.15         0.88         0.97         1.06         0.71         0.72         0.65         0.63         0.60         0.50         0.89         0.89           L         1.21         1.25         1.24         1.04         0.89         0.67         0.72         0.63         0.65         0.65         0.65         0.63         0.72         0.43         0.44         0.96         0.93           1         1.11         1.09         1.21         0.71         0.71         0.71         1.07         0.51         0.66         0.59         0.62         0.59         0.62         0.63         0.93           1         1.11         1.06         1.47         0.70         0.77         0.59         0.66         0.59         0.65         0.59         0.59         0.53         0.59		Taple_3.17 · Stree			I Teco	ords a	t Tem	pobulu	gaug	ing s	tatio	on (2)	
3.3:         FUS.         MAS.         APS.         MAY.         MUN.         MUN.         AUG.         SEP.         OCT.         TOY.         DEC.           1         1.15         0.88         0.97         1.06         0.74         0.688         0.71         0.72         0.62         0.62         0.63         0.63         0.63         0.63         0.63         0.63         0.63         0.63         0.63         0.63         0.63         0.63         0.63         0.64         0.84         0.94         0.95         0.72         0.63         0.63         0.64         0.84         0.99         0.92         0.93         0.63         0.64         0.84         0.99         0.92         0.31         1.11         1.04         0.87         0.71         0.71         1.02         0.61         0.59         0.73         0.50         0.91           1         1.17         1.91         0.71         0.71         0.77         0.91         0.60         0.60         0.56         0.53         0.59         0.59         0.59         0.59         0.59         0.59         0.59         0.59         0.59         0.59         0.59         0.59         0.59         0.59         0.59 <td>}</td> <td colspan="4">River System River</td> <td></td> <td>Obser</td> <td>vatory</td> <td></td> <td></td> <td>Yea</td> <td><u>۲</u></td>	}	River System River					Obser	vatory			Yea	<u>۲</u>	
1       1.15 $0.88$ $0.97$ $1.06$ $0.74$ $0.68$ $0.71$ $0.72$ $0.62$ $0.60$ $0.50$ $0.89$ 1 $1.27$ $1.05$ $0.94$ $0.55$ $0.72$ $0.67$ $0.64$ $0.69$ $0.63$ $0.64$ $0.49$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.94$ $0.96$ $0.97$ $0.62$ $0.62$ $0.72$ $0.93$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.59$ $0.61$ $0.88$ $0.77$	· · · · · · · · · · ·	······································		Maros		Tamp	obulu	1978					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		JAN. FIIB.	MAR,	APR.	MAY.	JUNE.	JULY.	AUG,	SEP.	OCT.	505.	DEC.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		······································	0.97	1.06	0.74	0.68	0.71	0.72	0,62	0,60	0.50	0.80	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	·	• • • •	1	0.95	0.72	0.67				i i	1	r	
1.36       1.21       1.04       0.87       0.76       0.72       0.93       0.63       0.64       0.49       0.96         1.31       1.11       4.09       1.21       0.73       0.71       1.02       0.62       0.62       0.79       0.50       0.91         1.17       1.19       1.07       1.12       0.71       0.71       0.70       0.51       0.59       0.73       0.50       0.91         1.21       1.24       1.06       1.47       0.70       0.91       0.60       0.66       0.69       0.65       0.91         1.21       1.24       1.06       1.47       0.70       0.77       0.91       0.60       0.66       0.57       0.59       0.62       0.81         0.99       1.11       1.41       1.29       0.67       0.92       0.77       0.59       0.60       0.57       0.58       0.87         1.31       1.22       1.22       1.09       0.67       0.82       0.77       0.58       0.59       0.55       0.70       0.82         1.78       1.11       1.06       1.02       0.69       0.76       0.88       0.90       0.54       0.51       0.51       1			1	1 1					0.63	0.72	0.49	0.94	
1.4.1       1.01       1.00       1.21       0.73       0.71       1.02       0.62       0.62       0.79       0.50       0.91         1.17       1.19       1.07       1.12       0.71       0.70       0.71       1.07       0.61       0.59       0.73       0.50       0.91         1.21       1.24       1.06       1.47       0.70       0.77       0.91       0.60       0.62       0.61       0.59       0.61       0.59       0.62       0.81         0.99       1.71       1.41       1.29       0.67       0.92       0.77       0.59       0.60       0.57       0.59       0.62       0.81         1.31       1.22       1.25       1.18       0.67       0.98       0.76       0.59       0.60       0.55       0.70       0.82         1.78       1.11       1.06       1.02       0.69       0.85       0.76       0.60       0.57       0.54       0.70       1.02         1.43       1.01       0.98       0.95       0.69       0.78       0.88       0.62       0.56       0.54       0.61       1.38         1.28       1.04       0.92       0.87       0.77	1 - 1	an and the second	1	0.87	0.76	0.72	0.93	0.63	.0.64	0.84	0.49	0,96	
1.21       1.24       1.06       1.47       0.70       0.77       0.91       0.60       0.66       0.68       0.61       0.88         1.07       1.13       1.04       1.35       0.68       0.79       0.82       0.59       0.61       0.59       0.62       0.68         0.99       1.17       1.14       1.29       0.67       0.92       0.77       0.59       0.60       0.56       0.59       0.62       0.61         1.31       1.22       1.18       0.67       0.92       0.77       0.59       0.60       0.55       0.70       0.82         1.78       1.11       1.06       1.02       0.69       0.85       0.76       0.58       0.59       0.55       0.70       0.82         1.78       1.11       1.06       1.02       0.69       0.85       0.76       0.60       0.57       0.54       0.70       1.02         1.43       1.00       0.98       0.99       0.63       0.54       0.59       1.28       0.70       1.28         1.43       1.00       0.99       0.85       1.14       0.94       0.81       0.65       0.54       0.59       1.17         1.	! · - 1	• • • • • • •		1.21	0.73	0.71				•	L		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	· · · · · · · · · · · · · · · · · · ·		4 · ····	1 :		·			the second second second second second second second second second second second second second second second s	0.73	0.50	0.91	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	• •	t							0.68	0.61	0.88	
1.31 $1.22$ $1.18$ $0.67$ $0.98$ $0.76$ $0.59$ $0.60$ $0.56$ $0.58$ $0.87$ 2.08 $1.12$ $1.22$ $1.09$ $0.67$ $0.82$ $0.75$ $0.58$ $0.59$ $0.60$ $0.56$ $0.58$ $0.87$ 1.78 $1.11$ $1.06$ $1.02$ $0.69$ $0.85$ $0.776$ $0.58$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.59$ $0.51$ $0.50$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$ $0.51$	•		1					0.59	0.61	0.59	0.62	0.81	
2.081.121.221.090.670.750.750.580.590.530.700.821.781.111.061.020.690.850.760.600.570.540.701.021.431.100.980.950.690.850.760.600.570.540.701.021.431.100.920.870.770.880.900.630.560.540.591.301.81.000.990.851.140.940.810.650.540.530.631.171.091.020.900.821.480.810.760.600.540.560.631.171.101.060.910.841.020.840.730.670.540.560.631.171.101.060.910.841.020.840.730.670.540.560.631.171.111.020.940.800.980.810.700.550.540.500.631.171.111.020.940.800.980.610.700.650.540.590.961.211.370.910.770.890.820.690.670.720.540.600.961.211.370.910.770.890.620.650.650.530.690.961.211.370.910.770.800.67 <t< td=""><td></td><td>• • • • •</td><td>1</td><td>· · · · ·</td><td>• •</td><td></td><td>•</td><td></td><td></td><td>0.57</td><td>0.59</td><td>0.82</td></t<>		• • • • •	1	· · · · ·	• •		•			0.57	0.59	0.82	
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1.28       1.04 $0.92$ $0.87$ $0.77$ $0.88$ $0.90$ $0.63$ $0.56$ $0.54$ $0.59$ $1.30$ 1.18       1.00 $0.99$ $0.85$ $1.14$ $0.94$ $0.81$ $0.65$ $0.54$ $0.53$ $0.63$ $1.17$ 1.09 $1.02$ $0.90$ $0.82$ $1.48$ $0.81$ $0.76$ $0.54$ $0.556$ $0.63$ $1.17$ 1.10 $1.06$ $0.91$ $0.84$ $1.02$ $0.84$ $0.73$ $0.67$ $0.54$ $0.56$ $0.63$ $1.17$ 1.10 $1.06$ $0.91$ $0.84$ $1.02$ $0.84$ $0.70$ $0.56$ $0.54$ $0.60$ $0.96$ $1.21$ $1.37$ $0.91$ $0.77$ $0.89$ $0.82$ $0.67$ $0.65$ $0.55$ $0.52$ $0.73$ $1.18$ $1.21$ $1.37$ $0.92$ $0.76$ $0.80$ $0.77$ $0.66$ $0.58$ $0.52$ $0.73$ $1.33$ $1.18$ $1.32$ $0.14$ $0.90$ $0.77$ $0$			1.06	, 1.02 ;	0.69	0.85	0.76	0.60	0.57	0.54	0.70	1.02	
1.18       1.00       0.99       0.85       1.14       0.94       0.81       0.65       0.54       0.53       0.63       1.17         1.09       1.02       0.90       0.82       1.48       0.81       0.76       0.60       0.54       0.56       0.63       1.17         1.10       1.06       0.91       0.84       1.02       0.84       0.73       0.67       0.54       0.56       0.60       1.08         1.17       1.02       0.94       0.80       0.98       0.81       0.70       0.54       0.56       0.60       1.08         1.21       1.37       0.91       0.77       0.89       0.82       0.69       0.67       0.72       0.54       0.60       0.96         1.18       1.32       0.92       0.76       0.84       0.80       0.67       0.65       0.65       0.53       0.69       0.94         1.32       1.14       0.89       0.76       0.80       0.75       0.67       0.61       0.60       0.52       0.73       1.18         1.85       1.13       0.90       0.83       0.77       0.65       0.60       0.55       0.50       0.70       1.33										0.54	0.61	1.38	
1.091.020.900.821.480.810.760.600.540.560.631.171.101.060.910.841.020.840.730.670.540.560.601.081.171.020.940.800.980.810.700.700.660.540.600.961.211.370.910.770.890.820.690.670.720.540.640.961.811.320.920.760.840.800.670.650.650.530.690.941.321.140.890.760.800.750.670.610.600.520.731.181.321.140.890.760.700.650.600.580.520.731.331.471.051.100.820.760.700.650.600.550.530.701.371.511.061.540.900.770.690.650.590.550.540.671.701.561.001.440.910.750.720.640.570.560.520.931.701.400.961.180.810.740.780.630.570.570.520.921.361.191.151.090.750.710.820.630.560.580.510.861.401.081.071.040.810.69<	<b>۱</b>	1.28 1.04	0.92	0.87	0.77	0.88	0,90	0.63	0.56	0.54	0.59	1.30	
171.101.06 $0.91$ $0.84$ $1.02$ $0.84$ $0.73$ $0.67$ $0.54$ $0.56$ $0.60$ $1.08$ 1.17 $1.02$ $0.94$ $0.80$ $0.98$ $0.81$ $0.70$ $0.70$ $0.66$ $0.54$ $0.60$ $0.96$ 1.21 $1.37$ $0.91$ $0.77$ $0.89$ $0.82$ $0.69$ $0.67$ $0.72$ $0.54$ $0.64$ $0.96$ 1.18 $1.32$ $0.92$ $0.76$ $0.84$ $0.80$ $0.67$ $0.65$ $0.65$ $0.52$ $0.73$ $1.18$ 1.32 $1.14$ $0.89$ $0.76$ $0.80$ $0.77$ $0.66$ $0.66$ $0.52$ $0.73$ $1.18$ 1.32 $1.14$ $0.89$ $0.76$ $0.80$ $0.77$ $0.66$ $0.65$ $0.52$ $0.73$ $1.18$ 1.35 $1.13$ $0.90$ $0.83$ $0.77$ $0.72$ $0.66$ $0.60$ $0.58$ $0.52$ $0.73$ $1.33$ 1.47 $1.05$ $1.10$ $0.82$ $0.76$ $0.77$ $0.65$ $0.60$ $0.56$ $0.53$ $0.70$ $1.37$ 1.51 $1.06$ $1.54$ $0.90$ $0.77$ $0.69$ $0.65$ $0.57$ $0.57$ $0.92$ $1.70$ 1.40 $0.96$ $1.18$ $0.81$ $0.74$ $0.78$ $0.63$ $0.57$ $0.57$ $0.52$ $0.92$ $1.36$ 1.19 $1.15$ $1.09$ $0.75$ $0.71$ $0.82$ $0.63$ $0.56$ $0.58$ $0.51$ $0.86$ $1.40$ 1.21 <td>۰ <b>ر</b></td> <td>1.18 1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.0.53</td> <td>0.63</td> <td>1.17</td>	۰ <b>ر</b>	1.18 1.00								.0.53	0.63	1.17	
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1.21       1.37       0.91       0.77       0.89       0.82       0.69       0.67       0.72       0.54       0.64       0.96         1.18       1.32       0.92       0.76       0.84       0.80       0.67       0.65       0.65       0.53       0.69       0.94         1.32       1.14       0.89       0.76       0.80       0.75       0.67       0.61       0.60       0.52       0.73       1.18         1.35       1.13       0.90       0.83       0.77       0.72       0.66       0.60       0.58       0.52       0.73       1.33         1.47       1.05       1.10       0.82       0.76       0.70       0.65       0.60       0.56       0.52       0.73       1.33         1.47       1.05       1.10       0.82       0.76       0.70       0.65       0.60       0.56       0.52       0.73       1.33         1.47       1.05       1.10       0.82       0.76       0.72       0.64       0.57       0.55       0.54       0.87       1.70         1.56       1.00       1.44       0.91       0.75       0.72       0.64       0.57       0.56       0.52       0	17	1.10 1.06	1	1						70, 56	0.60	1.08	
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1.51       1.06       1.54       0.90       0.77       0.69       0.65       0.59       0.55       0.54       0.87       1.70         1.56       1.00       1.44       0.91       0.75       0.72       0.64       0.57       0.56       0.52       0.93       1.70         1.40       0.96       1.18       0.81       0.74       0.78       0.63       0.57       0.57       0.52       0.92       1.36         1.19       1.15       1.09       0.75       0.71       0.82       0.63       0.56       0.58       0.51       0.86       1.40         1.08       1.07       1.04       0.81       0.69       0.84       0.62       0.56       0.62       0.50       0.75       1.96         1.02       -       0.98       0.84       0.69       0.76       0.62       0.64       0.60       0.52       0.75       1.59         0.95       -       0.93       0.76       0.69       0.73       0.74       0.65       0.60       0.52       0.75       1.46         0.90       -       1.13       -       0.68       -       0.71       0.61       -       0.50       -       1.													
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1.40.0.96								and a sum of the second second second second second second second second second second second second second se		*	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•	1.19.1.15									and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	the second second second second second second second second second second second second second second second s	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•	1.08 1.07									the set of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	a a manager a second	
0.90 - 1.13 - 0.68 - 0.71 0.61 - 0.50 - 1.55	20	1.02 –										and the second second second second second second second second second second second second second second second	
	1 47 4 1	U.95 -	0.93				0.74	0.65	0,60	0.52	0.75	1.46	
		0.90 -	1.13	-	0.68		0.71	0.61		0.50		1.55	
		محمد العربي الم <u>م</u> ور. مما 10.									·.		
		•							·				
	$\left\{ \frac{1}{A^{T}}, \frac{1}{A^{T}}, \frac{1}{A^{T}} \right\}$		1 I					-			М.,	. 1	

Table 3.11 . Stream stage records at Tampobulu sauging station (2)

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· · · · · · · · · · · · · · · · · · ·	Table3.1	Stream	a stage	Tec	rds a	t Tam	pobulu	gaug	ing st	ation	(3)	
	STARL CONTRACTOR STARL					Dirac		lear				
. سب ۲۰۰۰ سوارا	laros	<u>]</u>	aros		Tampo	Tampobulu gauging station						
	JAN.   FEB	1143	ALR.	HAY,	i		AUG.			::02,	DEC.	
1 1 1	1.38 0.96	1.31	0.95	0.89	0.68	0.58		· · · · ·	0.44	1	0.76	
	1.39 1.36		0.89					0.45	0.44	0.43	0.68	
	1.35_1.12	1.05	0.95	0+97	0.69	0.57	0.50	0.45	0.44	0.46	0.93	
· ÷	1.20 1.18	1.30	0.88	1.09	0.72	0.57	0.50	0.46	0.43	0.46	0.84	
1	1.15 1.16	1.08	0.84	1.00	0.76	0.56	0.50	0.47	0.42	0.46	0.69	
÷	1.64 1.01	1.00	10.89	1.00	0.83	v.56	0.50	0.46	0.42	0.51	0.70	
·	1.97 0.93	1.53	1.10	1.17	0.74	0.56	u.50	0.46	0.42	0.46	0.88	
· · .	2.03 0.90	1.70	1.24	1.16	0.72	0.57	0.50	0.44	0.42	0.46	1.34	
•	1.96 0.88	1.64	1.12	1.01	0.79	0.57	0.50	0.44	0.42	0.44	1.16	
<u>}</u>	1.92 0.86	1.33	1.04	1.04	1.00	0.56	0,49	0.44	0.42	0.53	1.13	
					1	•	1	1	1			
	2.16 0.86	1.51	0.94	0.98	0.80	0.56	0.47	0.44	0.41	0.53	1.17	
	1.89 0.99	1.44	0.86	1.05	0.73	0.55	0.47	0.44	0.41	0.48	1.10	
	1.58 1.20	1.26	0.82	1.05	0.71	0.55	0,48	0.44	0.41	0.52	0.97	
	1.35 1.13		0.78	0.92	0.69	0.54	0.48	0.43	0.40	0.43	0.86	
	1.23 1.02	1.11	0.75	0.86	0.71	0.54	0,48	0.43	0.40	0.50	0.80	
	1.28 1.17	1.11	0.74	0.82	0.68	0.54	0.47	0.43	0.40	0.49	0.94	
	1.17 1.13	1.06	0.78	0.79	0.66	0.53	0-47	0.44	0.40	0.46	1.15	
	1.07 1.00	1.00	0.75	0.76	0.66	0.55	0.46	0.44	0.40	0.46	1.26	
	0+33,0+33	0.98	V+16	<b>V</b> •74	0.65	0,55	0.46	0.44	0.39	0.45	1.08	
	0.94.1.09	0.94	0.72	0.73	0.72	0.54	0.47	0.44	0.39	0.44	1.11	
							 	) 				
1 21	0.96.1.07	0.90	0.81	0.72	0.69	0.52	0.47	0.44	0.45	0.44	1.14	
. 22	1.17:1.01	1.00	0.85	0.75	0.65	0.52	0.46	0.44	0.45	0.44	1503	
	1.10 0.91											
	0.99 0.95	1	0.83		1		• • • • • • • • • • • • • • • • • • • •			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	and a subscription of the second second second second second second second second second second second second s	
	0.93 0.96	•	0.87									
,	1.02 1.02		0.98									
i	1.02 1.99	0.97	0.92	0.72	0.60	0.50	0.46	0.44	0,43	0.62	1.33	
\$ ·	0.95 1.77		0.81									
§	0.90		0.84							0.57		
1.	0.86		0.93							0.76		
1	0.83	1.08	•	0.76	•••	U.50	0.47	***	0.42		1.76	
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Table 3.11 Stream	stage	records	at	Tempobulu	gauging	atation	(4)

R ( )			n River				Obser	STHE D	Year			
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	•					0.65						
	· •					0.64		A Design of the second s		فيعدد محمد مستعمر مست		است مستسب
1	2.00			~ ~ • •		0.63						
	∷1 ₊92]	1.11	1023	··· *		0.64	V+20	V+42	0.42	U.31	0.00	
		A			, . <u>.</u>		A			0 27		
	7.73	1.20	1.03		ын. А. те	0.63	0.56	0.45	0.42	0.57	0.20	1.34
)				a contract when any other states		0.62						
1	•		í ·			0.62		**************************************		*******		
	1.12			ويتبعيها ستعدد والمساجر الع	·····	0.62						
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}	1.23		ł		e	0.62		÷	ويعجو بنقا محيج	in an sea	₹ ~	
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{ ·	1,18		4	• •	• •	0.62		.4	-بمهد معد سخم م کم	وروارية المرسوم والمراجع	4	برهيمينا فالمالية مادريجر
۱ · · · ·	1.86		ł	a		0.62	• • ·	*** ***	A Present of American	(*************************************	2	*****
	~175	1.23		:] .00	: 0.60 :	0.64	0.52	0.44	0.42	0.38	0.59	1.25
		•		; ,					: 			
						0.62						
						0.61						
	1+36	1.57	. • .	1.09	0.70	0.59	0.50	0.44	0.41	0.54	0.64	1.33
	1.34	1.68	1.21	1.00	0.94	0.58	0.50	0.44	0.41	0.48	0.75	1.99
(,- }	1.22	1.35	1.27	1.06	0.85	0.58	0.49	0.43	0.41	0.45	0.74	1.61
•	1.09	1.49	1.18	1.09	0.73	0.59	0.49	0.43	0.41	0.45	0.73	1.26
	1.03	1.50	1.06	1.13	0.70	0.59	0.48	0.44	0.40	0.52	10.17	1.29
	0.98	1.23	1.05	1.14	0.68	0.58	U-48	0.44	0.40	0.62	0.17	1.31
2.9	0.93	1.17	1.10	1.09	0.73	0.58	0.48	0.43	0.39	0.59	1.14	1.17
1 20	1		1	-	•	0.56	0.48	0.43	0.38	0.51	1.18	1.27
	0.85	•	0.95		0.68		0.48	0.42		0.49		1.35
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~		FEB.	MAR.	APR,	HAY.	JUNE.	JULY.	AUG.	SEP.	ocr,	NOV	DEC.		
1						<u> </u>	0.58	0,52	0.45	0.35	0.14	1.21		
2							0.57	0.52	0.43	0.35	0.13	1.35		
3						<u> </u>	0.57	0.52	0342	0.35	0.12	1.42		
4						ļ	1 1		0.42					
5							1		0.42			1.53		
6						ļ	1		0.41			1.47		
7									0.41			1.39		
8		· ·				}			0.41			1.35		
9		ļ Ţ					1		0.40			1.36		
.0						<u> </u>	0.56	0.50	0.40	0.31	0.7	1.62		
1									0,40			1.47		
2						ļ			0.40			1.47		
3		<u> </u>				ļ			0.40			1.51		
4									0.39	0.29	0.5	1.70		
5						ļ	0.55		0.39	0.28	0.4	1.45		
6						ļ	0.55		0.39			1.52		
7						}	0.55	0.49	0.39	0.25	0.3	1.43		
8							0.54	0.48	0.39	0.25	0.3	1.59		
9		ļ							0.38			1.49		
0							0.54	0.50	0.38	0.23	0.34	1.63		
1							0.55	0.43	0.38	0.22	0.39	1.42		
2						}	0.55	0.48	0.38	0.20	0.46	1.37		
3			·				0.56	0.46	0.38	0,20	0.54	1.35		
4					-	ļ	0.55	0.46	0.37	0.18	0.62	1.35		
5						 	0.54	0.46	0.37	0.18	0.73	1.28		
6			}				0,54	0.45	0.37	0.17	0.85	1.22		
7						ļ	0.53	0.45	0.37	0.16	0.93	1.17		
8						ļ			0.37			1.08		
9							0.53	0.45	0.36	0.15	0.94	0.39		
0						<u> </u>	0.52	0.45		0.14	0.76	1.08		
31						1	0.52	0.45	-	0.14	-	1,20		
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Table 3.12 Sitream stage	records	st	Meradekaya	genging	station	(1	}

Table 3.12Stream	81523	records	at	Hamedokeva	ດສາມຄາໂກອ	*****	(2)	
			(A U	THEFT CALLER A CAL	Barrisballer		(4)	

K1	ver Sva	tem		Ríver			Obser	vatory			Yea	r
	Pappa		Ĩ	eqq.e]		Ea.	dexay	8		15	78
<u></u>	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUC.	SEP.	oct,	nov.	DEC.
	1.26	1.82	1.83	0.75	0.72	0.66	0.78	0.92	0.83	0.73	0,58	0.74
2	1.33	2,15	1.93	0.71		0.85) - - 7	0.92			0,57	
3	2.52	1.17	1.90	0.76	0.69	0.91	0.76	0.92	0,82	0.72	0.57	
4	1.77	1.62	1.81	2.25		0.89		0.91	0.81	0.72	0.57	0.90
5	1.32	1.52	1.81	1.76	0.68	0.85	0.77	0.91	0.81	0.71	0.55	1.04
6	1.32	1.44	2.01	1.70	0.63	0.89	0.77	0.90	0.80	0.71	0.55	1.05
7	1,58	1.34	2.03	1.59	0.68	1.33	0.81	0.90	0.80	0.71	0.59	0.90
3	1.65			1.73	1.36	1.56	0.78	0,90	0.79	0.70	0.79	0,81
9	1.65	1.23	1.69	1.68	1.27	1.73	0.77	0.83	0.79	0.70	0.94	0.32
10	1.77	1.23	1.54	1.55		1.62		0.87	0.78	0.70	0.77	0.81
	,	·										
11	3.89	1.18	1.49	1.48	1.00	1.56	2.42	0.86	0.78	0.69	0.83	0,78
12	3.92	1.14	1.44	1.57	1.38	1,52	2.21	0.85	0.73	0.69	0.83	0.79
13	3.05	1.17	1.40	1.60	1.67	1.45	1.81	0.85	0.78	0.68	0.80	0.79
14	2.32	1.09	1.67	1.23	1.57	1.25	3.41	0.84	0.78	0.68	0.74	0.73
15	2.50	1.09					1.13				0.75	0.77
36	2.45	1.11	1.36	0.93	0.98	0.75	0.98	0.86	0.76	0.58	1.00	0.75
17	2.51	1.06	1				0.93			0.68	0.89	0.73
18	2.29	1.28	1.13	0.73	1.07	0.75	0.97	0.84	1.07	0.67	0.85	0.75
19	2.15	1.59	0.97	0.72	0.96	0.78	0.97	0.84	0.95	0.66	0.93	0.74
20	1.97	1,63	0.77	0.71	0.89	1.04	0.98	0.83	1.34	0.66	0.97	0.74
			L			· · · ·			}			<u> </u>
21	1.79	1,60	0.72	0.71	0.84	0.86	0.98	0.83	0.79	0.65	0.99	0.75
22	1.70	2.33	0.69	0.71	0.84	0.77	0.97	0.83	0.77	0.64	0,99	1.16
23	1.59	2.56	0,65	0.70	0.83	0.73	0,97	0,83	0.77	0.64	1.04	1.31
24	1.82	2.19	2.49	0.69	0.82	0.73	0,95	0.83	0.77	0.63	0.94	1.45
25							0,96					1.49
26							0.95					2.87
27	1.33	1.85	2.34				0.94					2.35
28	1.20	1.72	2.00	0.70	0.30	1.00	0.94	0.82	0.75	0.60	0.80	1.78
29	1.07		1.53	0.87	0,86	0.85	0.94	0.62	0.74	0.59		1.54
30	0.91	. 	1.10	0.72	0.88	0.79	0.93	0.82	0.73	0.58	0.75	1.60
31	0.73	-	0.95	-	0.86		0.93	0.82		0.58	-	
		{				ļ	1	ļ	[
TOTAL		1						}				
AVERA-	{				}	}		}	}	1		1

	Non grates	a brage	records	at Mar				static	<u>n (3)</u>	·
			ver		Obser	valory			Yea	<u> </u>
· - · ·	appa	Pa	ppa		Mar	edeka;	уа		19	79
	JAN, FEB.	MAR, A		JUNE.	JULY.	AUG.	SEP.		NOV.	DEC
ويوسحوكم بدوانيم	2.30 0.77	2.24 1	.34 0.84	0.89	0.58	0.48	0.44	0.39	0.39	
	2.27 4.40	1.99 1	.19 0.8	0.88	0.57	0.47	0.44	0.39	0.39	
3	2.21 3.70	1.75 1	.03 0.8	10.88	0.57	0.47	0.43	0.39	0.39	
.; ~ ~ ~	2.22 3.43	1.40 0	.90 0.8	1 0.87	0.56	0.47	0.43	0.39	0,38	
š	2.20 2.81	1.31 0	.92 0.9	0.87	0.56	0.47	0.43	0.39	0.38	
.6	2.12 2.50	1.21 1	.02 2.0	2 0.85	0.55	0.47	0.43	0.39	0.38	
7	2.77 2.12	1.27 1	.17 1.5	3 0.83	0.55	0.46	0.43	0.38	0.38	
.8	3.35 1.74	1.25 1	.20 1.21	9 0.81	0.53	0.46	0.43	0.38	0.37	
u -	6.48 1.38	1.26 1	.10 1.1	0.81	0.53	.0.46	0.43	0.38	0.37	
3.4	5.59 1.18	1.15 1	.16 1.0	0.80	0,52	0.46	0.43	0.39	0.37	
- 1					• • • • • • • • • • • • • • • • • • •	•	ineti terilar 			
1 1	6,40 0.84	1.01 0	.99 0.9	8 0.78	0.52	0.46	0.43	0.38	0.37	
	5.57.0.79		.82 0,9							
	3.30.0.79		.79 0.9							
	1.91.0.78		.76 1.5							
	1.63.0.77		.68 0.9							
. 16	1.52.0.77	0.910	.65 0.8	3 0.69	0.50	0.45	0.42	0.37	94.0	
	1.32.0.77		.65 0.7							
• • • • •	1.20,1.74		.82; 0.7							
19	1.19.1.37	1 1~	.75 0.7							
23	1.13.1.19	0.95 0	.71 0.7	9 0.64		0.45	0.41	0.37	0.37	
		V•22	i in the second se			;	•			
21	1.08 1.00	0 40	.77 0.7	6 0.64	0.49	0.45	0.41	0,37	0 37	! !
1.1	1.10.0.96		.83 0.7							
			.85 0.7							
.24	1.14.0.88									
15	1.06.1.44									
24	1.04.2.52	- 4 - 77 1	.31 0.7	0 0 60	0 18	0.45	0.40	0.39	0.82	
1.7	: 1.32.2.47.									
28	1.95.2.76	4 24 1	14 0.6	5 0.50	0 10	0.45	0.10	0.39	1.19	
219	0.89	1 1 en 1	.08 0.6	4 0.58	0.18	0.44	0.40	0.39	1.40	
30	{ 	+ 9C 0	.93 0.6	3 0.58	A 10	0.44	0.30	0.39	2.45	
- H -	0.82	1.30	~ 0.6	3 -	D 19	0.44		0.39		
	V+10.	1-39		* 	1 V.12	1.000 23.000.11	+	1		
	·	┨╼╍╍╍┧╼╸	 	+	<u>}</u>		<u> </u>			
AVEFA-	· · · · ·	}	··		+	<u> </u>	<u> </u>	+		
жерал Æ					<u> </u>	<u> </u>	<u> </u>			L

Table 3.12Stream stage records at Maradekaya gauging station (3)

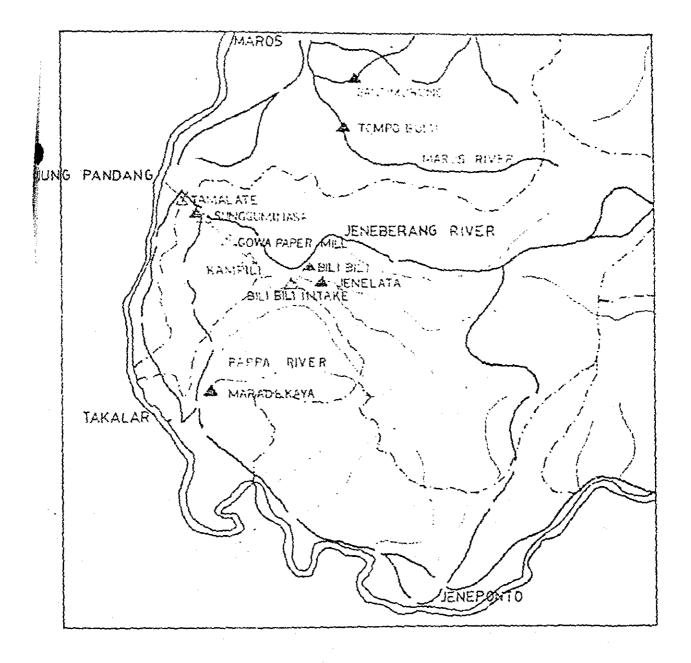
- 70 -

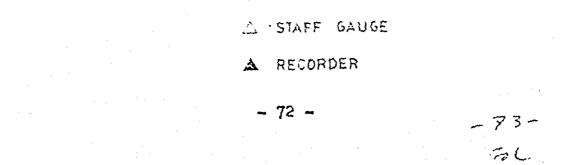
River System River Observatory. Year · Fappa Peppa Maradekaya 1980 2 JAN. 1 FEB. MAS. APR. MAY. JUNE. JULY. | AUG. SEP. OCT. HOV. DEC. 1.16 0.93 2.83 0.72 0.75 0.75 0.52 0.42 0.70 1 0.38 0.25 1.14 0.92 3.31 0.72 0.74 0.74 0.52 0.42 0.70 0.38 0.24 3 1.10 0.92 2.75 0.76 0.74 0.74 0.51 0.42 0.37 0.24 0.87 4 1.06 0.96 2.54 0.72 0.74 0.74 0.51 0.42 0.84 0.37 0.24 1.06 0.95 2.22 0.71 0.73 0.73 0.51 0.42 0.37 0.22 5 0.84 1.09 0.93 2.19 0.76 0.73 0.73 0.51 0.41 0.36 0.21 0.81 7 1.07 0.92 1.82 0.73 0.73 0.73 0.50 0.41 0.36 0.20 0.77 8 1.04 1.20 1.78 1.43 0.72 0.72 0.50 0.41 0.36 0.19 0.77 9 1.03 1.52 1.73 1.36 0.71 0.71 0.49 0.41 0.36 0.18 0.78 1. 1.02 2.25 1.71 1.27 0.71 0.71 0.49 0.41 0.35 0.18 0.72 11 1.00 3.77 1.80 1.28 0.70 0.70 0.49 0.41 0.35 0.16 0.69 2.54 3.34 1.64 1.26 0.70 0.70 0.48 0.41 0.35 0.15 12 0.67 3.44 1.70 1.87 1.24 0.69 0.69 0.48 0.40 0.35 0.14 13 0.65 2.59 1.41 3.38 1.24 0.68 0.68 0.48 0.40 0.35 0.13 11 0.70 1,94 1.40 2.39 1.24 0.68 0.68 0.48 0.40 0.34 0.13 $\mathbf{T}^{\mathbf{N}}$ 0.30 1.73 1.33 1.39 1.50 1.20 0.67 0.67 0.47 0.40 0.34 0.11 0.27 1.60 1... 0.44 1.44 3.73. 1.37 1.19 1.18 0.67 0.67 0.47 0.40 0.34 0.11 17 3.47 1.35 1.06 1.18 0.67 0.67 0.47 0.40 0.34 0.10 18 0.38 1.47 3.47 1.34 1.02 1.16 0.67 0.67 0.47 0.40 0.33 0.09 0.49 1,52 190.53 1.47 2.64 1.33 0.97 1.16 0.66 0.66 0.46 0.40 0.33 0.07 ΞĒ. 1.81 1.33 0.97 1.15 0.65 0.65 0.46 0.40 0.32 0.06 0.43 1.42 23 1.81 1.32 0.96 1.12 0.65 0.65 0.46 0.40 0.32 0.04 0.37 1.46 22 0.49 1.39 1.50 1.30 0.96 1.08 0.65 0.65 0.46 0.30 0.31 0.03 230.63 1.95 0.97 1.42 0.94 1.04 0.65 0.65 0.45 0.39 0.30 0.02 24 0.96 1.33 0.94 0.99 0.64 0.64 0.45 0.39 0.29 -25 1-15 2.02 0.95 1.29 0.92 0.93 0.64 0.64 0.45 0.39 0.27 3.26 1.79 26 0.95 1.23 0.92 0.88 0.63 0,98 1.67 0,27 27 0.63 0.45 0.39 1.20 1.79 0.93 1.22 0.83 0.83 0.63 0.25 14 0.63: 0.43 0.39 1.15 1.64 0.91 1.22 0.75 0.76 0.63 0.63 0.43 0.39 0.25 29 1.01 1.65 - 0.72 0.75 0.62 0.62 0.42 0.39 0.25 0.87 39 0.87 0.62 0.62 0.42 0.39 1.59 31 0.72 -TOTAL AVUEA-

Table 3.12	Stream st	tage record	s at	Maradekaya	gauging	station	(4)	
					000		- N - N - F	

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4. Discharge measurement records

Teble	4.1	Discharge measurement results at Sungguminasa gauging station	75
Table	4.2	Discharge measurement results at Bili-Bili gauging station	76
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Table	4.6	Discharge measurement results at Maradekaya gauging station	83

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No.	Date	<u>H</u> (m)	<u> </u>	<u>V</u> (m/s)	 (m²)	Q (m3/s)	<u>\/q</u>
-1 -	Jun 1979	1.03	103.0	0.34	64.50	22,09	4.70
2	0ct 1979	0.33	56.0	0.22	7.70	1.67	1.29
3	Мау. — 1980	0.60	110.0	0.32	43.20	13.88	3.73
-4	Mar. 2 1981	2.35	103.0	1.75	292.00	509.80	22.58
·5	Mar. 3 1981	1.33	103.0	0.99	186,90	184.80	13.59
6	Mar. 4 1981	1.00	103.0	0.59	148.20	88.10	9.39
7	Mar. 5 1981	0.83	103.0	0.62	.142.40	87.70	9.36
8	Mar. 6 1981	0.74	103.0	0.60	111.90	66.70	8.17
9	Mar. 7 1981	0.64	103.0	0.55	93.30	51,60	7.18

Table. 4.1 Discharge measurement results at SUNGGUMINASA gauging station.

Note : No.4 to No.7 measurements are conducted by the Survey team. No.4 measurement is by surface float method.

Discharge measurement results at BILI-BILI gauging station.

- <u></u>								
No.	Dat	e	H	<u> </u>	<u></u>	<u> </u>	<u> </u>	Ve
·			(m)	(m)	(m/s)	(\mathbf{R}^2)	(m^3/s)	-
1	Feb. 14	1976	1.02	74.0	0.80	61.63	49.14	7.01
2	Mar. 6	1976	1.06	74.0	0.79	65.79	51.97	-7.21
3	Sep. 30	1977	-0.08	59.5	0.05	19.65	0.93	0.96
4	Mar. 9	1978	0.44	.34.5	0.73	66.17	-48.6	.6,97
5	Mer. 29	1978	0.23	28.5	0.94	28.65	26.97	5.19
5 6	Apr18	-1978	0.15	-33.0	0,20	71.07	14.10	3.75
7	Jun. 27	1978	0.39	.33.0	0.62	82,42	51.41	7.17
. 8	Jul. 19	1978	0.05	.29.5	0.17	62.75	10.96	~3 .31
9	Sep. 14	1978	0.0	50,0	0.13	46.69	5.96	-2.44
.10	Oct. 7	-1978	0.14 🎉	32.0	0.17	66.69	11.43	3.38
(11)	Nov. 4	1978	0.05	.28.0	.0.05	65.36	2.87	1.69
12	Dec. 4	1978	0.42	-54.0	D.58	66,57	38.65	6.21
13	Feb. 3	-1979	0.48	75.0	0.66	86.78	-56.82	7.54
14	Feb. 20	1979	-0.35	71.0	0.60	66.60	:39.47	6,28
15	Mar. 18	1979	-0.34	72.0	.0.48	80.85	38.36	6.19
16	Mar. 26	1979	0.28	72.0	0.42	79.89	33.29	5 .77
17	Apr. 24	1979	0.21	73.0	-0,38	66.41	24.88	4,99
18	May 5	1979	0.01	56.0	-0.20	62.73	12.54	3.54
19	Jun. 16	1979	0.03	66.0	0.21	62.31	13.21	3.63.
20	Jul. 27	1979	- 0.23	27.5	0.05	49.83	2,61	1.62
21	Aug. 8	1979	- 0.15	.31.0	0.06	54.45	3,38	1.84
22	Sep. 22	1979	<u>]-0.30</u>	47.0	0.03	25.47	.0.71	0,84
23	00t. 9	1979	0.26	41.0	0.03	41.14	1.13	1.06
24	Nov. 27	1979	0.32	30.0	0.06	52.37	3.32	1.82
25	Dec. 16	1979	0.51	60.0	0.31	34.54	10.57	3.25
2 6	Fab. 4	1980	0.77	75.0	0.443	67.62	29.95	5.47
27	Feb. 11	1980	0.89	74.0	0.54	80.81	43.79	6.62
28	Mar. 3	1980	0.77	74.0	0.40	71.62	28.49	5.34
29	Mar. 9	1980	0.81	87.0	0.29	54.52	15.71	3.96
30	Apr. 25	1980	0.73	76.0	0.40	65.9	26,30	5.13
31	Мау 29	1980	0.48	66	0.40	30.0	12.00	3.46
32	Jul. 12	1980	0.24	51	0.21	16.0	3.37	1.84
33	Jul. 29	1980	0.16	41.50	0.10	15.70	1.50	1.22

No.		Date		Date <u>H</u> B		B	¥	X	Q	<u>Ve</u>	
,,				(m)	(m)	(m/s)	(m²)	(<u>m³/s</u>)			
34	Sep,	1	1980	0.14	46	0.12	15,20	1.75	1.32		
35	Sep.	25	1980	0.08	33	0.07	10.46	0.71	0.84		
36	Oct.	31	1980	0.23	44	0.17	15.42	2.67	1.63		
37	Nov.	11	1980	0.37	56	0.31	24.20	7.58	2.75		
38	Dec.	26	1980	0.98	83.50	0.87	78,70	68,50	8.28		
39	Jan.	31	1981	0.96	84	0.85	74.70	63.80	7.99		

Note : The gauge zero is dropped by 60 Cm on Sep.28 1979 from the old gauge zero height deu to bank errosion of the site.

Discharge measurement results at JENELATA gauging station.

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No.	. 3	Date	H	B	ν.	A	<u> </u>	$\sqrt{\mathbf{Q}}$
		·	(m)	(m)	(n/s)	(m²)	(m3/s)	- <u>L</u>
1	May	1979	0.61		0.12	52,60	6.36	2.52
2	Jun.	1979	0.55	-	0.09	49.90	4.41	2.10
3	Jul.	1979	0.35		0.05	43.50	2.22	1.48
4	Aug.	1979	0.35	-	0.05	41.60	1.85	1.36
5	Sep.	1979	0.18		0.03	45.70	1.26	1.12
6	Oct.	1979	0.15	-	0.03	44.60	1.21	1.10
7 ·	Eov.	1979	0.62		0.13	51.50	6.55	2.56
8	Dec.	1979	0.63	-	0.11	53.50	5.66	2.37
9	Feb.	1980	0.86		0.20	59,30	12.0	3.46
10	Feb.	1980	1.02		0.39	.68,00	26.7	5.16
11	Mar.	1980	0.85	~	0.34	45.10	15 . 3	3.91
12	Mar.	1980	0.65		0.09	62.30	5.9	2.42
13	Apr.	1980	0.76	~	0.21	52,90	11.3	3.36
14	May	1980	0.50	-	0.16	29.30	4.73	2.17
15	Jul.	1980	0.39	••	0.10	23.10	1.28	1.13
16	Jul.	1980	0.34	-	0.04	23.30	0.92	0.96
17	Sep.	1980	0.21		0.03	18,30	0.58	0.76
18	Sep.	1980	0.18	-	0.04	17.70	0.71	0.84
19	Oct.	1980	0.31	••••	0.05	19.30	1.00	1.00
20	Nov.	1980	0.35	•	0.09	22,60	1.94	1.39
21	Jun.	1979	0.91	35.5	0.10	47.10	4.59	2.14
22	Oct.	1979	0.58	17.0	0.08	4.40	0.34	0,58
23	May	1980	0.89	32.0	0.17	28,60	•	2,21

Note : No.21 to No.23 data are extracted from P3SA . which gauge zero is 0.34 meter higher than that of PMA stuff gauge.

Discharge measurement results at BANTIMURUNG gauging station.

<u></u>								
No.	Date	9	H	<u> </u>		<u>A</u>		Ve
	· .		(m)	(m)	(m/s)	(m²)	(m ³ /s)	
1	Mar. 12	1978	2.16	16.0	0,38	27.90	10,70	3.27
2	Mar. 17	1978	1.08	:16.0	0.36	15.60	5.64	2,37
3	≜pr. 12	1978	1.86	15,2	0.39	28.65	11.10	3.33
4	Apr. 19	1978	1.20	15.5	0.20	15.01	2,95	1.71
5	Jun. 19	1978		16.5	0.21	12.31	-2.60	1.61
6	Jul. 20	1978	1.85	-18.0	0.16	2759	4.53	2,12
7	Aug. 25	1978	1.84	18.0	0.11	26.37	3.00	1.73
8	Sep. 16	1978	1.89	170	0.10	26.55	2.70	1.64
9	Oct. 5	1978	1.80	16.0	0.12	23.21	2.78	1.66
.10	Nov. 13	1978	1.96	17.0	0.11	28.22	3.02	1.73
11	Dec. 3	1978	2.03	15.0	0.27	26.18	714	2.67
12	Jan. 27	1979	2.27	17.0	0.29	33.77	9.88	3.14
13	Feb. 20	1979	2.20	16.0	0.34	30.48	10.32	3.21
14	Mar. 24	1979	2.16	16.0	0.33	29.99	<u>9.95</u>	3.15
15	Apr. 27	1979	1.97	16.5	0.22	29,81	.6.42	°2, 53
16	May 7	1979	2.51	16.0	0.46	39,02	18.10	4.25
17	Jun. 5	1979	1.92	16.5	0.17	26,68	-4.50	2.12
18	Jul. 17	1979	1.71	18.0	0.12	21.33	2.46	1.56
19	Aug. 20	1979	1.63	28.0	0.11	20.34	4,85	2.20
20	Sep. 8	1979	1.63	17.0	0.07	22.35	1.60	1.26
21	Nov. 2	1979	1.50	16.5	0.05	19.41	0.88	0.93
22	Nov. 29	1979	1.60	16.5	0.05	21.19	1.10	1.04
23	Dec. 7	1979	1.50	18.0	0.05	19.41	0.88	0.93
24	Jan. 9	1980	3.70	19.0	0.81	61.58	50.03	7.07
25	Feb. 22	1980	2.19	17.0	0.24	32.35	7.71	2.77
26	Mar. 20	1980	3.17	19.5	0.59	50,23	27,86	5.27
27	Apr. 26	1980	2.06	17.0	0.29	31.27	9.15	3.02
28	May 31	1980	1.85	17.0	0.18	25 .40	_	2.11
29	Jul. 13	1980	1.71	18.0	0.11	23.50		1.60
30	Jul. 30	1980	1.68	17.0	0.09	22.50		1.39
31	Sep. 2	1980	1.47	17.0	0.08	19.10	1.60	1.26
32	Sep. 25	1980	1.48	18.0	0.06	19.07		1.09
33	0at. 30	1980	0.67	17.0	0.29	5.41	1.59	1.26

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No.	ת	ate	•	<u>H</u> (m)	<u> </u>	<u>V</u> (m/m)	$\frac{A}{(m^2)}$	$\frac{Q}{(m^3/s)}$	<u>V</u> <u>q</u> _
34	Nov.	7	1980	0.54	17.0	0,20	6.75	1.38	1.17
35	Dec. 2	27	1980	2,58	16.7	0.59	37.66	20,89	4.57
36	Feb.	2	1981	2.35	9.5	0,42	34.98	14.56	3.81

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Discharge measurement results at TOMPO BULU gauging station.

No.	Date		Ħ	B		A	0	Vq
		a 	(m)	(m)	(m/s)	(m²)	(m ³ /s)	•¥ <u>···</u>
1	Sep. 13	1973	0.30	47.0	0.10	32.90	3.13	1.76
-2	Jul. 26	1973	_0.45	:50.8	.0.16	-41.27	6.42	2.53
3	Jun. 19	1975	0.54	.51.5	.0.32	-45.10	14.46	3.80
4	Nov. 26	1975	1.09	69.0	0.59	66.30	39.41	6.27
5	Sep. 13	1976	0.10	25.0	0.30	5.25	1.56	1.24
6	:0ct. 10	1976	0.00	25.0	0.31	5.59	1.75	1.32
7	Jan. 4	1977	1.48	- #**			.	
8	Mar. 8	1977	1.60	73.0	0.51	-110.65	56.63	7.52
9	Apr. 27	1977	-0.76	-48.0	0.64	<i>2</i> 25, 45	16.33	4.04
:10	Jun. 18	1977	1.50	5 55.5	.0.83	72.25	62.73	7.92
71	Jul. 14	1977	_0.61	49₊0	:0.60	23.56	14.33	3.78
12	Aug. 13	1977	0,58	46.0	0.12	37.37	4.81	2.19
13	Sep. 30	1977	::0.43	21.0	0.47	-3-34	1.57	1.25
14	:Dec., :29	1977	1.07	59.5	0,25	75.90	18,98	4.35
15	Jan. 18	1978	1.08	62.0	0.53	67.77	36.20	6.01
16	Mar. 10	1978	=1.08	58.0	0.51	-77.64	39.20	6.26
17	Mar. 28	1978	2,00	61.5	0.43	71.66	31.17	5.58
18	Apr. 19	.1978	_0.78	61.0	0.20	56.94	11.60	3.40
19	Jun. 26	1978	0.72	60.1	0.24	53.42	12.83	3.58
20	Jul. 20	1978	0,68	63.0	0.19	50.20	9.75	3.12
21	Aug. 25	1978	0.57	63.0	0,12	43.65	5.30	2.30
22	Jul. 15	1978	0.55	60.0	0,10	40.71	4.23	2.06
23	Oct. 7	1978	0.61	61.0	0.15	44.55	6,65	2,58
24	Nov. 6	1978	049	.54.0	0.04	37.54	1.72	1.31
25	Nov. 18	1978	0.57	64.0	0,12	44.66	5+44	2.33
26	Dec. 3	1978	0.88	63.0	0.34	61.75	21.11	4.59
27	Jan. 28	1979	0.95	63.0	0.69	68.71	47.96	6.92
28	Mar. 3	1979	1.04	60.0	0.43		27,98	5.29
29	Mar. 24	1979	0.86	60.0	0.31	58.98	18.75	4.33
30	Apr, 18	1979	0.73	60.0	0.24			3.58
31	May 7	1979	0.94	63.0	0.34			5.04
32	Jun. 5	1979	0.69	63.0	0.21			3.34
33	Jul. 15	1979	0.54	62.0	0.08			1.83

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No.	Date			<u> </u>	 (ma)	<u>V</u> (m/s)	$\frac{A}{(m^2)}$	<u>Q</u> (m ³ /s)	Ve
						(ш/в)		(<u>8</u> 78)	هه <u>رومی در محمد محمد می</u>
34	Aug.	21	1979	0.47	64.5	0.04	41.15	1.69	1.3
35	Sep.	8	1979	0.44	62.5	0.04	38.40	:1.56	1.24
36	Nor.	2	1979	0.42	63.0	0.02	39.08	1.14	1.06
37	Nov.	29	1979	0.56	63.5	0.07	42.24	3.43	1.85
38	Dec.	7	1979	0.75	57.0	0.25	52.08	13.03	3.60
39	Jan.	16	1980	1.25		0,58	90-61	-48.32	6.95
40	Feb.	23	1980	1.20		0,60	87.99	48.04	6,93
41	Mar.	28	1980	0.94	66 . 0	0,38	74.21	28.22	5.31
42	Apr.	26	1980	0.93	61.0	0.29	66.74	14.82	3.84
43	May	30	1980	0.71	63.0	0.21	54.20	°1130	3.37
44	Jul.	21	1980	0.51	64.5	0.07	42.20	3.12	1.76
45	Jul.	31	1980	0.48	62.5	0.06	39.30	2.23	1.49
46.	Sep.	3	1980	0.45	83.0	0.05	37.30	1.92	1.38
47	Sep.	26	1980	0.41	60.0	0.03	41.01	1.25	. 1.11
48	Oct.	29	1980	0.55	59.0	0.09	47.39	4.35	2.08
49	Nov.	8	1980	0.46	56 .5	0.04	43.69	1.92	1.38
50	Dec.	27	1980	1.12	65.5	0.42	79,10	32,90	5.73
51	Feb.	1	1981	1.11	65.0	0.52	78.44	37.47	6.12

No.	Date			<u>H</u> (m)	<u> </u>	<u>V</u> (m/s)	<u>A</u> (m ²)	<u>Q</u> (m3/8)	Vq_
1	Mar.	26	1980	1.18	••	0.35	42.72	14.95	3.87
2	May	30	1980	0.68	-	0.02	28.30	0.56	0.75
3	Jul.	1	1980	0.50	-	0.03	23.10	0.66	0.81
4	Aug.	8 .	1980	0.45	-	0.01	19.79	0,22	0.47
5	Sep.	7	1980	0.38	-	0.03	19.36	0.56	0.75
6	Sep.	26	1980	0.12	••	0.03	16.16	0.44	0.66
7	Nov.	1	1980	0.00		0.03	9.47	0.24	0.49
8	Dec.	2	1980	0,50	-	0.09	30.21	2,62	1.62
9	Jan.	4	1981	1.47	-	0.69	48.98	30.62	5.53
10	Jan.	17	1981	1.33	-	0.42	43.40	18.34	4.28
11	Mar.	3	1981	1.35		0.33	43.18	14.37	3.79

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Table. Discharge measurement results at MARADEKAYA gauging station.

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