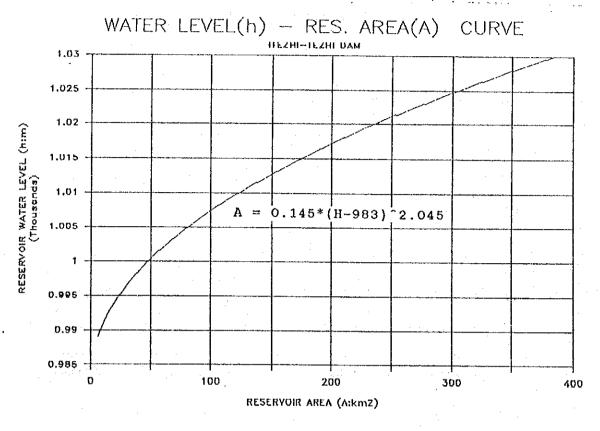
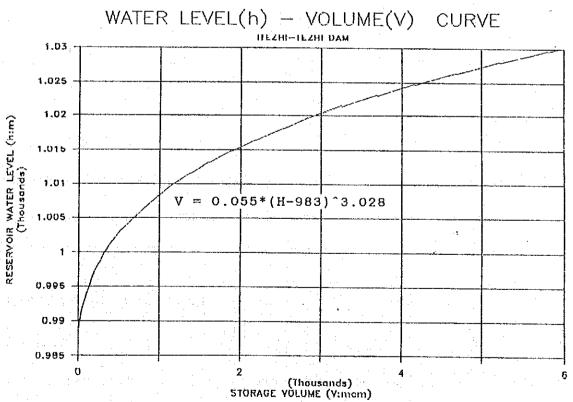
SUPPLEMENT - 4.4

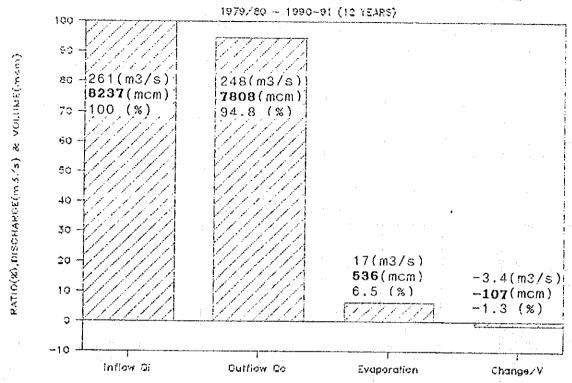
RESERVOIR WATER BALANCE

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				•••••	• • • • 4 4 ***]
KAFUE GORGE	DAM				A A 1 s
	Prilitary :	e d			
KARIBA DAM					4 4-94

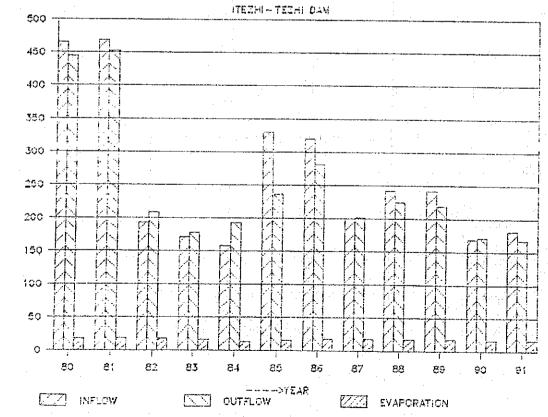




ITEZHI- TEZHI RESERVOIR WATER BALANCE

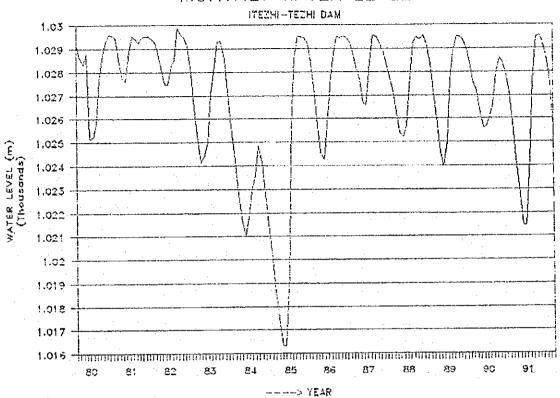


ANNUAL INFLOW, OUTFLOW & EVAPORATION

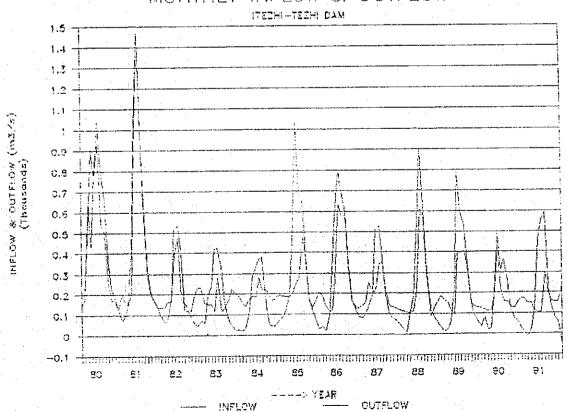


INJOUTFLOW & EVAFORTION (n.3 /s)

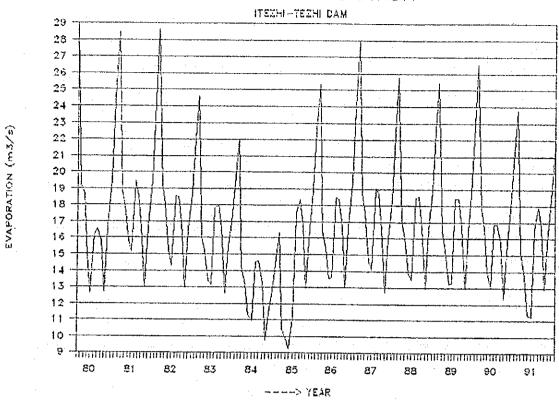
MONTHLY WATER LEVEL

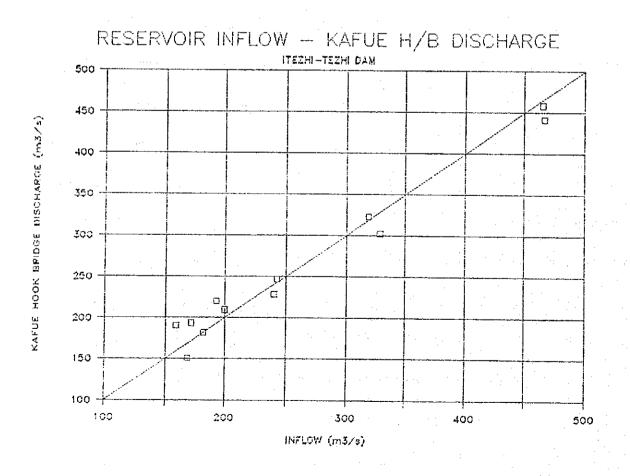


MONTHLY INFLOW & OUTFLOW



MONTHLY EVAPORATION





HI-TEZHI ====================================) Qo(#3/s) Qf(#3/s) (#	0 445.6 441.1 25.6	7 449.1 458.5 7.4	3 206.9 219.3 -26.9	7 178.5 193.0 -21.6	90.2	02.1	80.6 322.3	01.1 208.8	24.9 246.5			3 167.6 181.9 -0.3	0 247.6 261.9 6 7808 8259			
OW A.E	(8/	6.8 18.	18.	18.	71.4 16.	9	15.	8.8	18.	2.6 17.	17.	17.	16.	1.2 12237			
ange/V Inf	dV(#3/s) Qi(#3	3.1 46	-2.0 46	-32.9 19				20.6 31	19.8 19	0.1 24	5.7 24	20.3 168	1.3	-3.4 2			
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11 4	OI II C	367			291		# 6 C		63	(6)			312				
n j name	- I (6026	6062	5025	N	2752	N	03	10	1 13		4797					
W/Level	(m)H	1029.17	02	1026.48	0.2	010	1027.06	02	N		. 0	1025.82	10			·	
[RESERVIO =N====== Year		1978/79	986	1981/82	1982/	1 60	1984/	985/	198	1987/	1988	198	1990/	MEAN(M)	17 18 18 18 18 19 19 19 19 19		

	IOIR OPE	ATION	(1)				DAM: IT	ZHI-TEZH	٠.	Year:	08/6/6
1 O 4	W/Level H(m)	Volume V(mcm)	R.Area A(Km2)	Rain R(mm)	P.Evap Eo(mm)	Change/V dV(m3/s)	Inflow Qi(m3/s)	A.Evap. E(m3/s)	Outflo	Kafue H/B Qf(m3/s)	01-0f (m3/s)
	1029.17	6026	H	ii s	ii ti	N L H E E E U	11 11 11	11 14 16 16	# 	8 tt tt 11 11 11 11	11 11 12 14
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- W	1027.7	5467	344	į.	1 00	55 T	809.	9	534		က
- X V V	1028.7	5862	0 0 		12	į .	657.	ນ I	,	1 t-	10
	1029.3	0.78	((C) () ()	1 .	1 6 1	၊ ထ ၊ က	371.		-1	4,	<u> </u>
ı Tı	1029.	6194	37	I	0	4.8	234	ι (Ο	7.4	37.	 (3)
UG	1029.5	6.18	37	1	40	1 7	179.		ဖ	101	 : .
1 th 1 th	1029.42	6126	37	1 07	170	1 77	132.	24.	129	1 4 1	i . : i છ i
AN (TAL	∥ •୪ ା		 U IF II U U II	8 7 2 8 5 5 9 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	135	3.6	466.8	i Ο Ø.	445. 1405.	i . H	1 KV 60

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	IR OPER	TION]	(2)			· · · · · · · · · · · · · · · · · · ·	DAM: IT	ZHI-TEZH		Year:	980/81
X H H H H H H H H H	Level (m)	olume (mcm)	R. Area A(Km2)	Rain Rain R(mm)	P.Evap Eo(mm)	hange/V V(m3/s)	Inflow i(m3/s	A.Evap. E(m3/s)	Outflow (m3/s)	H/B (s)	Qi-Qf (m3/s)
EP 10	29.42	11 G	II €? II II	} {	11 £1 11 Jt	11	10 UL EH 12 13 14 15 16	IF EL IN SV		} { } } } }	11 k l k
CT 10	28.36	5712	3 3 3	⟨⟨1	ΟŪ	154,	73.4	8	199.5	111.0	-37.6
OV 10	27.73	547	3		i 🗝		(တ	18.9	(0)	122	1 8
EC 10	27.61	54		180	1 4	l 🕶	149.			61.	
AN 10	28.286	590	: ω	I 🗝	12	ļ	1.4	15.8	208.	37	1 60
EB 10	29.51	616	1 1	1 4	i 🛏	90	024	വ	8	792.	1 (2)
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PR 10	29.23	805	၊ တ⊹	1	30	124	970.	ω.	976.	039.	
AY 10	29.47	614	_	0	1 73	ය ය	630	16.	578.	62	! • ⊷
UN 10	29.53	617	1 1	O I I I	i O	1 0	309.	I (V)	ι 😄	321	
UL 10	29.5	616	~		l ∾i	-	205.	1 49	190.	221	ω ·
UG 10	29.4	1 m	I 1		i , i	3 1	68.		162.	178.	10
EP 10	29.26	6062	369	! 	170	-26	1 (C) 1 1 (A) 1	24	136	က ။ က ။	
EAN(mm OTAL(mm	& m3/s) & mcm)	() }	E 4 E 4 4	1013	135		465.8	 	La Caracia	458.5 14458	100

1 Volume R.Are V(mcm) A(Km2 ====================================	Rain P. Ev	THEFT HERE	H II		11 11 11	11 11 11 11 11 11	11 11 11 11
1029.26 6062 369	R(mm) Eo(m) dV(m3	Inflow Qi(m3/s)	.Evap. (m3/s)	tf10 m3/s	afue H/B f(m3/s)	Q1 E 3
		16 61 10 10 10 11 11 11 11 11	6) (3	81 61 18 24 21 81	81 11 18 16 16 11 11	11 11 14 14 19 11	41 41 51 11
1028.82 5889 362	24 2	10 -64.6		28.6	135.0	106.0	0.91
1028.19 5647 3	74 1	0	66.2	0 1 1	140.2	89.0	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1027.48 5383 34	31 1	86-0	84.4	18.1	165.0	120.0	
1027.49 5386] ↔ ! ! !	0 1		15.3	166.5	191.0	
1028.25 5670 352	76 1	0 11	519.0	14.3	387.5	518.0	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1028.54 5781 35	65 1	0 41	32		1 1		
1029.91 6323 37	#1 	0 209.	0.8	i :			
1029.60 6198 37	0 1	1	127	9	157.7	233.0	-105.3
1029.44 6134 37		0 -24.	1 8	13.0	34		-34.8
1029.11 6003 3	0 1	0 48 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		į φ.	1 H 1	123.0	-35.4
1027.94 5553 34	1	0 -167.	-1	1 😄	06.		
1026.48 5025 325		0 -203	48	1 (1)	30.		1 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1(mm & m3/s)	T 6	35 -32.9	1 1 1 1 1 1 1 1 1 1	# ## ## ## ## ## ## ## ## ## ## ## ## #	1 2 0 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

RVIOIR OPE	ATION	(4)	j ; ;	1 1 1	† 	DAM:	ZHI-TEZ	\$ \$ 1 1 1 1	Year	982/83
W/Level H(m)	Volume V(mcm)	R.Area A(Km2)	Rain R(mm)	P. Evap Eo(mm)	Change/V dV(m3/s)	Inflow i(m3/s)	A.Evap. E(m3/s)	Outflo Qo(m3/s	Kafue H/B Qf(m3/s)	Qi-Q (m3/s
1026.48	502		E C C E L	l	f					
1025.04	4537	303	91	N.	181.	72.7	2.4	230.0	74.0	හ ස
1024.13	4247	290	34	4	-112.2	63	₩	က	88.0	
1024.38	4325	294	238	14	-	ິດ ∺	-		0	
1025.02	4531	000	1	N	<u> </u>			0	230	
1027.06	5230) က)) (208		1 2	421		-	385	36.
1027.99	557	34	86	~	127.	425.	•	80	50.	٠ ٣
1029.31	6082	3.7	L	1 (2)		331.	ස ස	17	37.	i Oi
029.33	0609	370	į Į	120	i	54		်ည် (အ	8 4	•
1028.54	5781	357	i i	। o	110.5	7.1	 	177.	22	50.
1027.14	5259	 (0)	1	1 01	-194.7	44. I	. ເກ		က တ ၊	ကြ
1025.65	74	1 0	0	140	-193.9	8	9	205	8 1 51	56.
1024.22	4275	1	1 0 1 0 1	17	6 1	. N	6	185	723	4 6
& m3/s	n n	11 14 14 14 15 11 11 11	1 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	135	123.8	171.4	16.	178.5	193.0	FI (0) (0)

 $(x_{i_1}, \dots, x_{i_{k-1}}, \dots, x_{i_k}) = (x_{i_k}, \dots, x_{i_k}) \in \mathbb{R}^{n}$

西の田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	VIOIR	RATION	(2)				\geq	ZHI-TEZHI		Year:	83/8
1 42 12 1	W/Level H(m)	Volume V(mcm)	R.Area A(Km2)	Rain Rain R(mm	P.Evap Eo(mm)	ha V	Inflow Qi(m3/s	A. Ev E (m3	Outflow Qo(m3/s)	==== H/B /s)	1 O E
1 E 1	1024.2	4275	11	11 K . D	11 11 11 11 11	# # # # # # # #	11 11 11 11	16 81 81 81 81 10	11: 11: 51: C1: 14: 15: 11:	CI Li IR II II CL EI	LI II II II
E I	022.81	3 1	[•	210	-159.6	2	22.1		· i -	
20	21.7	353	256	54		-119.7	(က	14.2	H 80 E I	1 IO	1 0
124	021.0	3347	247	160	140		1 6	1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	90	000
AA	021.7	355	(A)	6		77	279.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	io	1 00 1	io
EB	2.2	3885	27	0 0	1	i (V		·	8 I	ျ ၂ မာ	1 .
AR	1023.62	40	283	0	40	L	369.	 5	78.	50 1	80.
PR	1024.8	4472	300	C	130	147.	380.	1 24	17.	38.1	1 4
\ \ \	1024.13	42	0	1 E I	120	34.	49.2	i က	20.	84	34
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UL	1021.53	8 4	ျပ		0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	41.4	i .	8 8	8 9	1 4
J.G	1020.07	0	23.4	0	1 4	43	54.	1 01	85.	1 4	၊ ၈
다 II 다 II II	1018.64	2752	216	l i	170	1 3 4	75.	1.4	1 6	62.	
EAN (OTAL	т & т3/s mn & тст		 	l		-48.3 -1523	158.5 4999	∥ ର 4	= = = 93. 609	190.2	+ 0

= = N		11 11	经经济技术经济	11 11 11	11 11 11 11 11 11 11		E Ĺ	1 1 1	1 1 2 2 2		
8 1 1 1 1	W/Level H(m)	Volume V(mcm)	R.Area A(Km2)	Rain R(mm	P.Eva Eo(mm	Change/V dV(m3/s)	Inflow Qi(m3/s)	A.Evap E(m3/s	Outflow Qo(m3/s)	afue H/B f(m3/s)	======================================
SEP	1018.64	27	2.1.6	! . ! ! !)(() ()	11	11 11 11 11 11 11 11	11 11 13 14 14 14 11 14	11 (4 (6 (6 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
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NOV	1016.32	2244	l i	7.0	140	-75	I (V)	10.5		58.0	64.
ပ မ	1016.3	2249	189	80	1 1 1 1 1 1 1 1	l = 1 l	1 .00		186.9	130.0	68.
JAN	1019.34	2919	8	157	1	250	461		i 🛇		75.
ម្មា	1025.74	477	3 1 4	36		765	102		253.1	795.0	234.
MAR	1028.58	579	353	9	 	1. 83 1. 83 1. 87	678	111111111111111111111111111111111111111	77.	650.0	1 2 1 2 2 1 2 3 1 .
APR	1029.55		37	0	E	₹7	646	ι დ ι .	480.4	65	
MAY	1029.50	1 1 1 1						I	70.	1 1	123.
JUN	1029.46	6142	372	O 	(න 	9	178.0	121		8	-25.
JUL	1029.21	6042	368		 - 	-37.2	113.0		: ::	141.0	-27.
AUG	1028.43	5738	। ପ । ପ ।	C ₂ 	14	ි ස ස	'	i 😄		111.0	-35.
SEP	027.06	230	334	1	7 T	196.0	31 T S	22.6	204.5	88.0	l l l l ·
MEAN (TOTAL	m & m3/s)	1 	1 1 1 1 1	 	132	78.6	328.8		235.2	302.1	1

r:1986/87	H/B Q1-Qf S) (m3/s)	· 1	.6- 0	0 -22.	24.	0 3.	0 63.	28.		0 H 1 1 1	0 136.	0 -26.	0	0 -28.0	.8 19.5 19.5 1.300
Y Y	Kafue) Qf(m3/s	 	6	i lo	99	i io	1 44	10	77	၊ တ	1 0	90	8	92	20 8 E E E E E E E E E E E E E E E E E E
 	Outflow Qo(m3/s)		142.7	56	l IO	<u> </u>	215	3.44	3 1	217	T	1 th		1 21 1	201.1 6341
7 1	A. Evap. E(m3/s)	; i i i i i	27.9	. •		14.7	14.1	0	l 174	. .	1 1 1	9		2 1 2 1	18 1 2 3 7 0
DAM:	Inflow Qi(m3/s)	 	81.9	0 1	বা	o	H	530	368	(9 9	79.	-	8	199 3 199 3 6286
1 1 1 1 1 1 1	Change/V dV(m3/s)		88 1	`⊘ i	တ	2	1 8 1	166	က	-44.	59.	1 1 1	74.	96	
	P.Evap Eo(mm)	1 1	210		140		o i	140	ဗ ု	120	<u>ත</u>	N	4	17	135
R 9 11 11 11 11 12 12 13 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Rain R(mm)		166		171	হা ।		44		 	i		0	1	
# # # # # # # #	R.Area A(Km2) ======	361	RO I	34	ස I ය I	(C)	L CI	373	37	36	36	ကြော	ঘা ।	8 1	
	Volume V(mcm)	5381	64	54	510	504	572	617	616	6046	5893	570	550	5256	
VIOIR OPE	W/Level II(m)	လ ၂	8.1	27.6	1026.	1026.5	1028.	1029.5	1029.5	1029.2	028.	1028.3	1027.8	1027.13	m & m3/s
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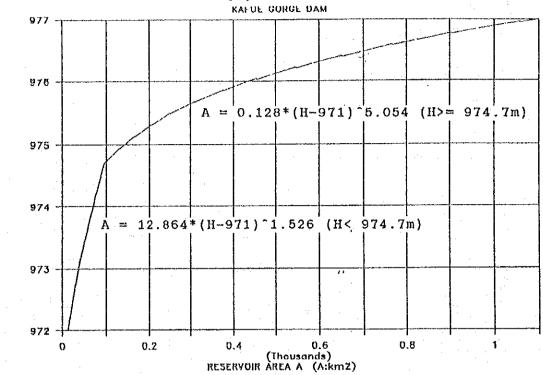
IR OPE	RATION ======	(6)		E 11 11 12	 	DAM: ITE	HI-TEZH	; ; ; ; ;	Year:	987/88
Level (m)	Volume V(mcm)	R.Area A(Km2)	Rain R(mm)	P.Evap Eo(mm)	Change/V dV(m3/s)	nflow (m3/s	vap. (3/s)	Outflow (0 (m3/s)	Kafue H/B Qf(m3/s)	Qi-Qf (m3/s)
27.13	22 II	11 CO	El 13 - 16 16 16	11 21 22 16 14 11	•	 } 	H)11 51 21
26.28	495	322	40	1 2	112.	I (N)		116.3	1	31.
25.40	4656	309	1 6 1 1	14	115.	123	1 1	1 🕶	1 9 7	3.4 1 .
25.23	4600	306	1 [~	1 1	I (V)	0 11	် တ	10	i -	10.2
25.70	4757	31	67	1 12	. 1 . 3 . 1	187	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i H	79.	, w
27.39	535	339	99	10	36	466	, (G)	216	1	. 1
29.26	6062	36	3 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		893	: œ	609	800.	۱
29.50	6158	373	- - - - - - - - - - - - - - - - - - -	((C) (C) (C) (C) (C) (C) (C) (C) (C) (C	36.	617.		561	631.	1 3 1
29.40	6118	371	0	i (N	i 🗗	297	1 9	9 5	310.	iQI
29.56	6182	374	! ! !		2 1	26.	1 0	i &	8	i i
029.18	0603	36	t		i io	(A)	i .	l RO	၂က	N
028.34	5704	354	l .	140	-121.	57.9	l	09	94.	10
027.14	5259	335	1 O 1 1 1	170	-171 7	36.7	22.	1 H 1 8 1 E	74	1 (0)
8 m3/s п & mсm	H H H	100 100 100 100 100 100 100 100 100 100		135	# O # T		າ : ເດ		II • 1	0 0
	H H H H H H		ï			H		11 11 11 11 11 11 11		

13 C I		· (i 	l i	1	1			1	111111111111111111111111111111111111111	1
1 C 4	W/Level H(m)	olume (mcm)	R.Area A(Km2)	Rain R(mm)	P.Evap Eo(mm)	Change/V dV(m3/s)	Inflow Qi(m3/s)	A. Evap. E(m3/s)	Outflow Qo(m3/s)	Kafue H/B Qf(m3/s)	Qi-Qf (m3/s)
0 0 11 C. 11 E3	1027.14	5259	11 11 11 11 11 11 11 11 11 11 11 11 11	# # L	71 15 14 11	11 16 19 19 19 19 11	16 10 11 11 12 18 18 18	10 11 16 16 16 16 11		14 14 10 10 10 11 11 14 11	14 14 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
CT	1025.7	4777	(m	i Ci i i	210		16.6	25.4	171 2		-42.4
	1024.56	4382	296	62	140		21.9	16.5	157.6	61.0	-39.1
l l	1023.96	4194	288	1 60	140			15.3	121.3	87.0	-20.9
1	1025.02	4531	303	156	120			13.5	•	18	48.3
l .	1027.64	5442	343	1 2 1	100	_	787		397.4	20 0 1	197.2
Ĺ	1028.8	5912	363	1 5 1 9 1 1	140		593.8	13.4	9.668	က ·	95.
1 .	1029.52	6166	373	! 	130	! 		18.4	4.1	l KO	42.9
1	1029.49	6154	372	1 0 1 1	120		337.8	16.7	325	352	(0) (1)
1	1029.36	6102	370	O - - - -	06			12.9	151.2	184.0	6.68
JUL	1028.96	0 44 1	364	C 	120	-59.	91		133.		28.7
00	1028.38	7.1	55 T	0	140		65.6	18.8	130.5	<u>-</u>	
I 広	1027.63	5438	3 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	O 	170	011	40.4	6	126.1	75	34.6
		1! : II II	11 11 11 11 11 11 11	# # # # # # # # # # # # # # # # # # #	1035	5.7	240.3	7 . 4 548	217.2	22	12.4

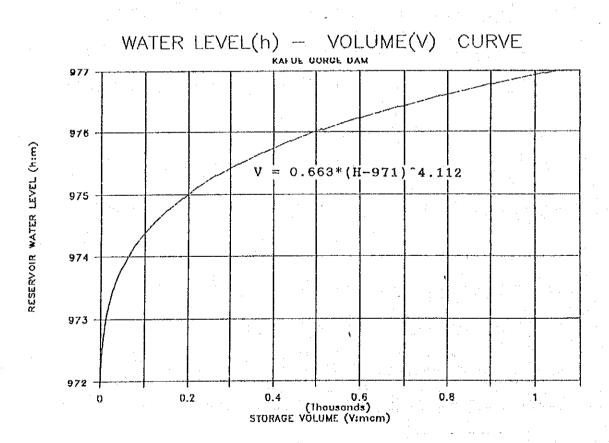
06/	-0f /s)	u 11 11	51 51 6	2 . 4			1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				(1)		21.	6 5 5	54.3	İ	
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\ 8 8	======= Kafue H/ Qf(m3/s)	11 2 1 1 1 1 1 1	30 I	j •	1 4	· -	446.0	26.	50	855	04	61.	43.	29	150.	1	
	Outflow oo(m3/s)	lt E) II E) IE B)	120.0	114.0		7.7		. 0	61.	56	വ	26		78	71.		
HI-TEZHI	A.Evap. E(m3/s)	it 81 10 11 11 11 11 11	26.6		16.6	14.0	13.0	16.9						1 1 1	17.1		
AM: ITE	 	16 81 17 81 18 18 84 41	1 00	23.6		တ	1 🖒	312.1	65.	50	N	75.	64.	23	168.2	1	
	hange/V V(m3/s)	10 31 10 10 10 10 10 10 10	09:	108.	က်	, to	າ ເກ າ ເກ	ນາ ເ~		1	0	-66.	Ø	-176.	120.3	ì	
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	Rain R(mm)	EI } 31 E		1	, O	l Q	l ω		ا ب			١,	1	1 O	64		٠
(11)	R.Area A(Km2)	ii ii ii の ii と	ı (۲)	32	::	ı 🛶	J 777		4	(ည (ည		34	i က	1 E	11 11 13	1 1 1 1 1 1	
ATION]	Volume V(mcm)	11 11 13 14 13 14 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	527	90		74	8 6	0.7	5557	579	1 6	555	1 12	4797	ii d ii ii ii ii ii	A 11 11 11 11 11	
ا ا ن	/Level H(m)	027	027.1	026.4	025.6	025.6	026.03	026.61	027.9	028.	028.42	027.95	027.1	025.82	E &	14 17 13 18 18 19	-
RESERV	f j	SEP] 	NOV	 0	JAN	FEB	! ! :: !	APR	MAY	NOC		AUG	SEP	AN(m TAL(11 U. U. U.	

8 8 8 8 8 8 8 8	۵ ا	ATION)	(12)				DAM:	ZHI-TEZH	:	Year:	් ග
	W/Level H(m)	Volume V(mcm)	R.Arca A(Km2)	Rai Rai R(m	d	Change/V dV(m3/s)	Inflow Qi(m3/s)	A.Evap. E(m3/s)	Outflow Qo(m3/s)	H/B (s)	
SEP	1025.82	4797	il :	9 9 9 9	1 E E E E	11 11 11 11 11 11 11 11	! ! ! !	 	।। झ झ	14 16 11 11 11 11 11 14	!! !! ·
007	1024.29	4297	20 1) !		! 	10.0	1	၊ က	Ħ	
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	1021.47	3468	1 W	197	l d	က	i &	(O)	i io	i က i	i i ·
JAN	1021.46	3466	2 5		50	 	I 🛇		1 🖽	1 8	1 1
I 원 원	1024.2	4290	! !	42	00	1 7	4 5		90	512	1
MAR	1027.5	5423	342	l		1 (2)	549.	6	: -	5 1 4	! ! 1
APR :	1029.48	6150	37	0	l භ (80	၊ က		ι α 1 σ	1 2	[[]
MAY	1029.55	617		0	120	10.5	228.2	16.7	1	iက	
NUC	1029.32	809	370	0	0	က် ကြ	် (တ (တ	, W	9 1	10	1
JUL	1028.6	5 1 2 1	3			မ မ မ	7.4	1 60	56.	69	1
AUG	1027.	0 5 1	V	O 		-114.7	60.7		i io	53	.
SEP I	1025.60	4723	312		170	0 0 1	53	21.6	23	. ဆ တ	
MEAN (EL LU SII SII	ir it it is is is is	53	(C)		1.6	ဖြေ	167.	181,9] } }

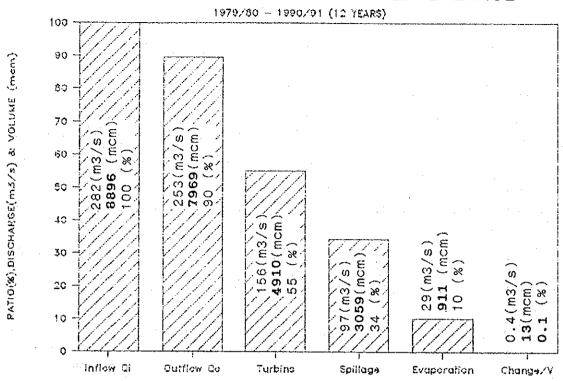


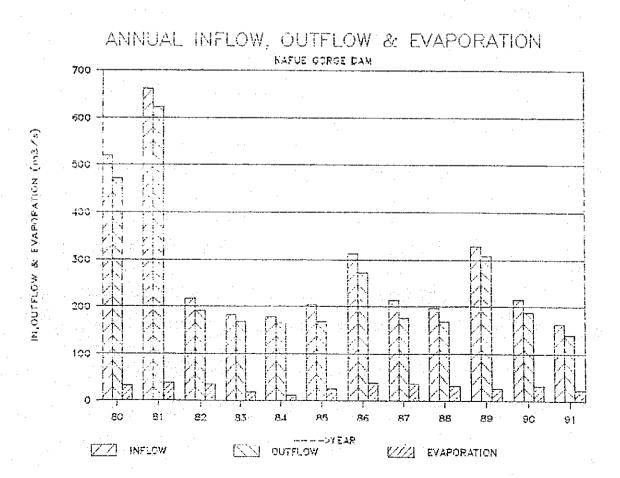


RESERVOIR WATER LEVEL (him)

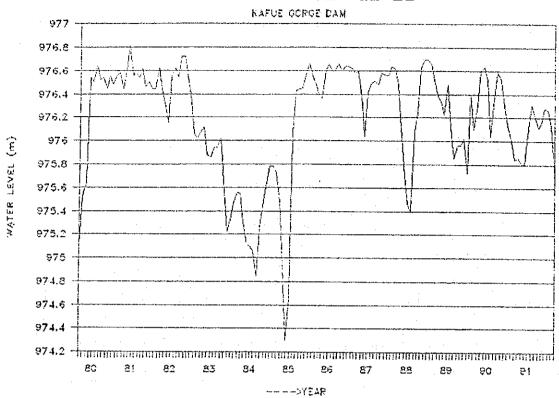


KAFUE GORGE RESERVOIR WATER BALANCE

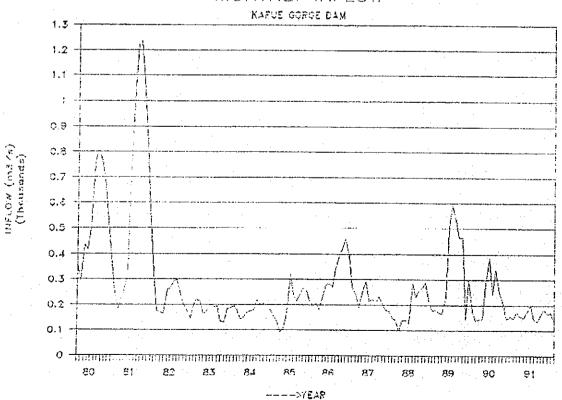




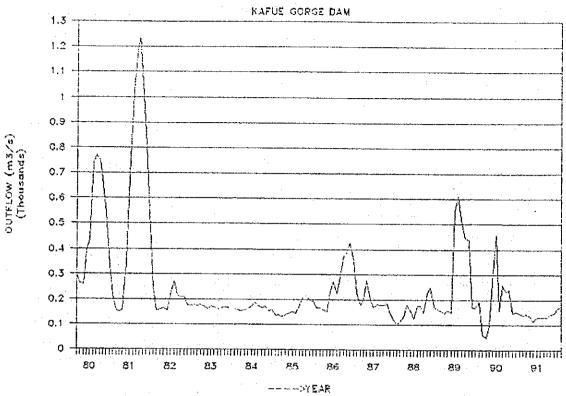
MONTHLY WATER LEVEL



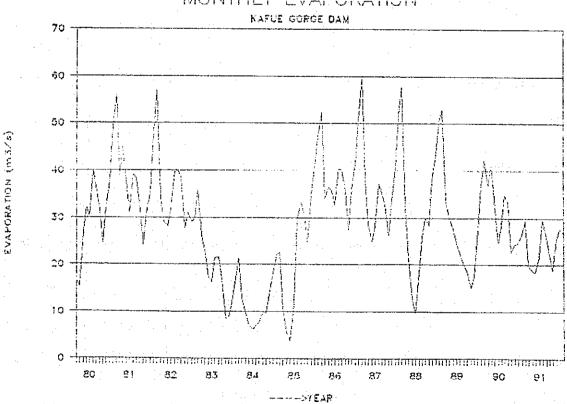
MONTHLY INFLOW



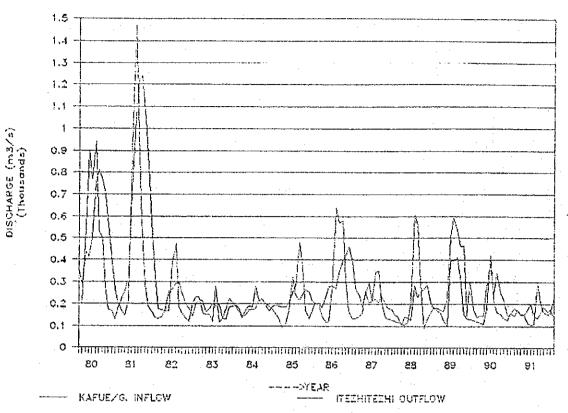
MONTHLY OUTFLOW

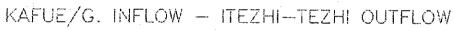


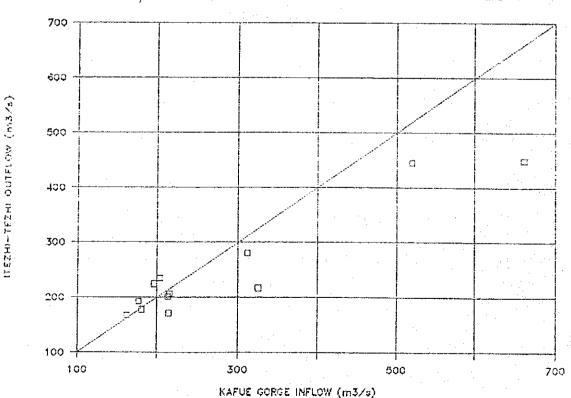
MONTHLY EVAPORATION











	RVI ===	OIR OPER	ATION]	11 11 13 14 14 14 16	il 11 11 11		1979/80	1990/91	(12 YEAR	S	 	DAM:	AFUE G	ន
	Year	W/Level II(m)	V(mcm)	R.Area A(Km2)	Rain R(mm)	P. Ev Eo (m	hange/V V(m3/s)	Inflow Qi(m3/s)	A.Evap. E(m3/s)	Outflo Qo(m3/s	Turbi. (m3/s)	Spill. (m3/s)	IT-Qoi (m3/s)	====== Qi-Qoi (m3/s)
	1978/79	975.10	0 1 0 1	160	[] [] []			16 1 31 1 83 1 84 1 86 1 87 1 87 1 81 1			1) (1) (1) (1) (1) (1) (1)	16 11 11 11 11 11) } } } } } } }
	979/80	976.5	779	760	673	16	17.7	519.7	31.0	470.9	140.3	330.6	444.4	75.3
٧	980/81	976.62	802	788	1048	9 1 1	0.7	660.2	38.1	6.21.4	161.4	460.0	449.1	211.1
	1981/82	976.02	504	445	726		ន - - - 	215.8	34.7	190.5	1 T	\(\frac{1}{2}\) \(\frac{1}{2	206.9	0.8
4.	1982/83	975.56	340	274	1 51 1 44 1 43	1 1 9 1 1 9	1 0 1 1 1 1 1 1	182.0	18.7	168.5	168.5	0.0	178.5	(n)
4 -	1983/84	75.72	392	326	462	1. 1. 1.	9 F4 1 1 1	177.7	12.2	163.9	163.9	0.0	192.6	-14.9
23	1984/85	976.48	723	609	640	1 5	10.5	203.1	24.6	168.0	168.0	0.0	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	-32.1
	1985/86	976.58	779	760	694	16	1.8	311.8	38 6	271.4	178.7	92.7	280.0	31.2
	1986/87	976.6	7.9	781	6.4	162	0 1 0 1	213.8		176.9	155.6	21.3	201.1	12.8
·	1987/88	976.	745	719	1 S	162	9 1 0	197 1	•	168.1	149.1	18.9	224.3	-27.2
	1988/89	976.10	538	482	4 1	16	-6.6	326.0	27.1	305.5	73.9	231.6	217.2	108.8
	989/9	975.84	6.1	370			8 8 8 8 8 8 8 8 8 8	214.9	о I	187.1	187.1	0.0	171.4	43.5
	1990/91	975.70	11 S	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	11 (5) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	 		162.4	0 0 0 0 0	140.2	0	0	167.6	1 10
	MEAN (mm TOTAL (m	& m3/s) & mcm)			701	162	4.5	282.	20.00	252.		97.0 3059	247.4 7802	34.6 1091
	 } } } }	61 61 61 61 61 61 61 61	:{ } 		11 16 17 15 15 15	EI EI EI EI EI EI	e1 73 13 16 16 16 17 11		81 11 11 11 11 11 11 11	11 11 11 11 11 11	11 11 11 11 11	11 11 11 11 11 11	H H H H H H	

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EP CT		1	160	Rain R(mm)	Evap (mm)	Change/V dV(m3/s)	# # #) 	A.Evap. E(m3/s)	Outflow Qo(m3/s)	Turbi. (m3/s)	Spill. (m3/s)	IT-Qoi (m3/s)	Q1=Q01 (#3/s)
CT		വിയിത്	:	H	R 0 H B	61 11 11 11 11 18	11 11 10 16	11 11 11 11	ir ir ir ir ir	11 31 15 16 17	. H H H	11 11 11 11	11 11 11 11
OV 975.6		(A) (A) (A)	265	56	210	41.5	355.6	ပေ	1 5	140.2	157.2	200.0	155.6
AN		CJ 1	299	! ∞ 1 1	14	-	90.		62	142.0	120.0	10	1 8
AN 976.5 EB - 976.5 AR		1	733	236	140	146.2	i က	27.0	1 6	124.5	ി ത	546.5	1
AR 976.6	 	(n)	706	12	10	8	1 6	1 01	1 0	30.	262.3	903 4	
AR 976.5	1	1 T	802	1 m	001	1 1 0	97.	0 .	1 (C)	26.1	10	5.4	67.
PR 976.5	 	1 15 1 15 1	719	2.9	140	1 2 1 1 2 2 1	54.	9 .	1 4	127.	1 00	941.0	1 6
1		 L-	733			7	12.	36	771	1 0 1	10	534.8	1 5
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JG 976.5		 &	746] !	1 44	1 7 1	388	1 .	334.	157.	177.	1 4	14
3P 976.		6	760	0	170	4	266.7	49.	212	161.	1 1 2	1 0	37
AN(mm & m TAL(mm &	/s) cm)	1 1 1 1	1 3 F	i o	II T 9	11 11 15	519.7	11 · 80	II ⋅ O	∥ ⊢ (` ∥	======================================	444 = = = 4052	75.3 2382
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SE	RVIOIR O	ATION] (2)		:		DAM: KAF	UE GORG				1980/81	
N=== 0/81 onth	W/Level II(m)	olume (mcm)	R.Area A(Km2)	Rain R(mm)	P. Evap C	hange/V IV(m3/s)	In In	A . E v E (m3	Outflow Qo(m3/s)	Turbi. (m3/s)			
SEP	976.58	8 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	1 0 0 L	14 El IL II	(R)A)(I)(I)(F)(E)(E) 	14 : 1 17 : 1 10 : 1 14 : 1 14 : 1 16 : 1	en in the state of	ot : El : II : II : El : El :	nt 91 1 11 14 1 16 1	18 21 16 17 17	14 14 14 16 18	
OCT	976.44	702	99	ម 	; 	N	181.1	Ol i	154.0	154.0	0 . 0	199,5	
NOV	9.946	791	177	:! :! :!	1 40	1 6 1 4 1	22.0	က် က	152	152.8	0.0	186	
10	976.82	927	940	17	140	ं था । ।	254	7 7	159.	52.9	6 4	4 6	-
JAN	976.56	768	746	305	101	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32.4	37	346	157.8	188.3	208.7	-
। । । ।	976.58	624	760	348	100	4	720	(1)	8 4	65.9	19.0	903.2	1 1
MAR	976.54	757	733	101	140	 83 1	104	30	019.3	161.2	83 10 83 10	71.	1
APR	976.62	802	788	44	1		1225.	1 0	। प्र ¹	74.8	994.6	976.0	•
MAY	976.4	713	681	0	120	133.	123	3 2	239	56.4	8 8 8	ເນ	l I
JUN	976.5	734		 	! ! !	3 1	1040.	24	007	185.2	822.5	287.3	!
JUL	976	1	9	10	1 1	1 -1	829.	30.	810.9	၂ ၂ က ၂ လ	51.7	0	ł
10	976.44	702	1 (0	1	 	0	516.	1 B	1 44	56.8	324.3	1 2 9 1 1 2 1 2 1	
SEP	976.62	I	1 2	0	170	38.00	327.7	47.7	241.2	161	80.1	136.0	1 (
MEAN TOTA	(mm & m L (mm & m	II II II II II II	*	87 1048	1 6 2 0 0 1 1 1 6 2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FI II II	# 660 1080 1080 1080 1080	38.1 1201	621 4 19596	161.4 5089	460.0 14507	14164	11

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		0.4	44 15	! 1 & i !	170	(C) (C) (C) (C) (C) (C) (C	200.	201	177	77	1 0		129
	s/ sm	(1))))	U	ii II ⊷y CO		11 - 6 11 - 6 11 - 1 11 11 11 11			190.5	11 02 12	# # # # # # # # # # # # # # # # # # #		11 ∞ №
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RESE	VIOIR OP	RATIO	$\mathcal{L}_{\mathcal{L}}$				DAM: KA	UE GORG			Уеаг	1982/8	
	Leve H(m)	olume (mcm)	 .Area (Km2)	Rain Rain R(mm)	P.Evap Eo(mm)	change/V dV(m3/s)	Inflow Qi(m3/s	A.Evap. E(m3/s)	Outflow Qo(m3/s)	Turbi. (m3/s)	Spill. (m3/s)	IT-00i (m3/s)	Qi-00 (m3/s
SEP	976.02	1	11 11 12 14 15 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	11 12 13		11 15 14 17 18 18 18 18 18	# 11 11	il : il : il : :		it ! IE ! If !	ii i ii i ii i	id (; ; ;	! !
OCT	976.0	530	47	1 ~~	210	9.4	1	36.0	174.4	174.4	0.0	230.0	i i
NOV	976.12	547	1 0 1 0 1 0 1	113		6.7	 0 			8	0.0	159.3	
DEC	975.88	444	386	55	1 4	136.	160.	22.9	<u>-</u>	73.	0	150.	i ri i
JAN	975.8	1 77	3 1	173	1 01	1 2 1	1 1	-	ပြ	162.	0	150.	(0)
 FEB	975.9	472	410	. ∞	0	12.7	200.	9	7.7	17	0	r-! !	∞ :
MAR	975.9	I -	i . 🗝		1 4	0				г-1		280.	- i 1
APR	0.976	1 0		3 2 1	က	i •	195	i + i ⊢ i		ဖ	0	r에 r러	<u>.</u>
MAY	975.6		30	1	17	7 7 1			ဖြ	i ပေ	0	ં જે į	
JU	975.	1 4	1 & 1 H	1	1 (5) 	148.	130.	က : က	ဖ	. 69	0	1.7	4
700	975.3	1 2-	10	0	1 (3) 1 11 1	(C)	1 8 1	ω .	(0)	16	0	224.	က
AUG	7 1	1 +4	1 4		14	141	188.8	•	162	162		205.	1
EP	75.5	340	274	0	F-	7 . 4	100	17.0	165.1	165.1	0.0	185.4	. !
EAN BAN	mm & mm	il It	lt	11 4 - 11 12 4 11 13 4		01 to 1 t	11 11 11 11 11 11 11 11 11 11 11 11 11	II - C		168, 58		178.5	ii の f ii ii

 $\label{eq:continuous_problem} \mathcal{S}_{i,j} = \{ (i,j) \mid \forall i \in \mathcal{I}_{i,j} \mid \forall i \in \mathcal{I}_{i,j} \mid \forall i \in \mathcal{I}_{i,j} \} \}$

0 0 0	1 3 0 8	ا		·									
N = 1) 	R A 3]. (5)	i) i! ii	I I	# # # # # # #	DAM: KA	GORG	: :: :: :: :: :: :: :: ::	 	∀ ! •	983/8	
/84 nth	W/Level H(m)	Volume V(mcm)	R.Area A(Km2)	ain (mm)	P.Eva Eo(mm	ange/V (m3/s)	Inflow Qi(m3/s	A.Evap. E(m3/s)	Outflor Qo(m3/s	urbi. m3/s)	S m	IT-001 (m3/s)	
SEP	975.5	\(\forall \)	274	61 10 10 11 11	1) 8). 16 11		# # # # # # # # # #		11 11 11 15 14 11	11 11	11 51 18 18 11	И И - И	61 . 13 13 14
OCT	975.55	337	271	17	21.	H	178.3	21.4	158:1	1 1 2 2 1 1 1	0.0	161.4	16.9
NOV	975.30	267	1 2 1	; ; ;	140	126.9	141.8	1 0		155.9		138.1	1 0
DEC	975.1	224	164		1.4	1 9 1 -	152.6			159.1	0.0	174.2	-21.6
JAN	975.10	510	160	 တ ဆ	120	1 1	1 1-			164.4	0.0		120.6
FEB	975.06	211	152	100	100	 	7.5		-1 1	72.	0.0	185.5	-10.4
42	974.84	168	111		140	-16	178.	7.	8.7	1 1	i •	1 ~	-100.2
APR	975.	257	194	ထ	130	34		7.	1 1	1 1-		217.6	1 .
MAY	975.48	31	250	0	120	0 0	8 8	0	_	iω	1 •	1 0	2 1 1
JUN	975.64	365	289	0	06	1 8		6	100	7.3		1 10	1 .
JUL	975.78	1 1 1 1	348		i i	! 	87	. 4	l lo	(S)		iφ	1 6
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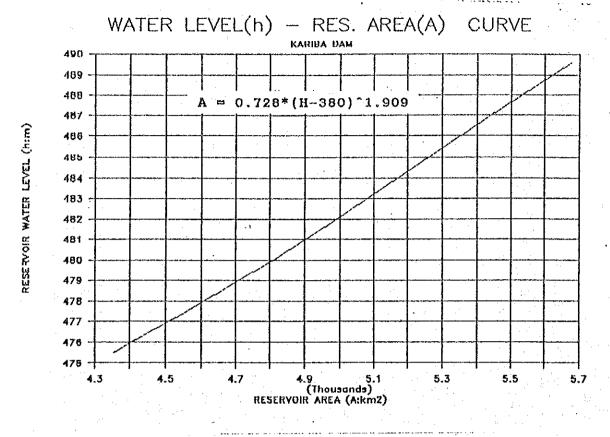
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9	926	826] [140	F	208	က	। ५५	140.5	33 1	160.8	1 22
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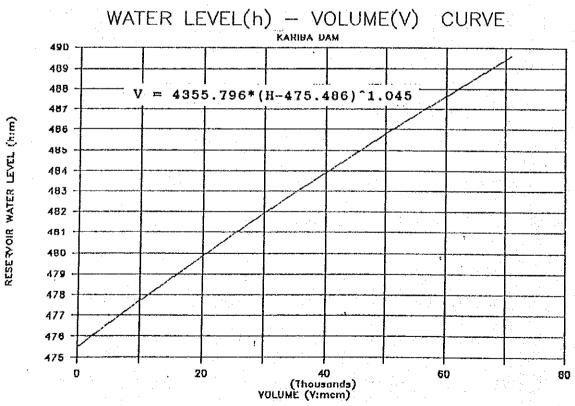
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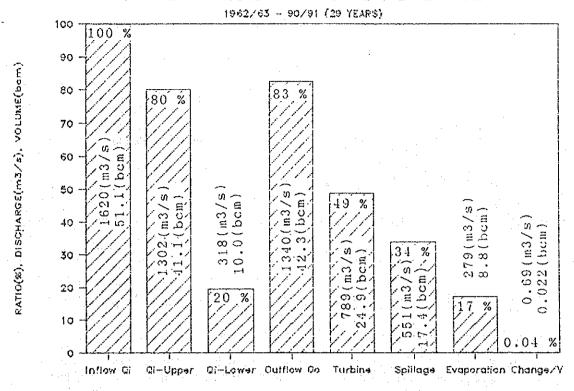
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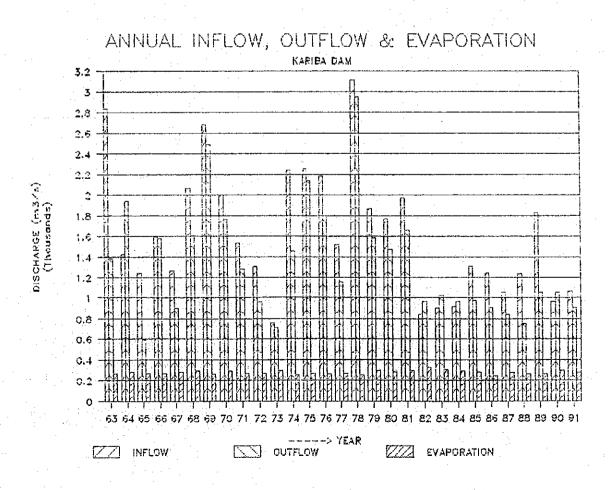
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R 976.22 592 542 0 140 -16.1 142.5 29.6 129.0 129.0 0.0 Y 976.11 543 487 0 130 -19.2 135.7 25.8 129.0 129.0 0.0 N 976.28 621 575 0 90 21.6 134.5 18.9 144.0 144.0 0.0 L 976.28 611 564 0 120 -3.6 166.9 25.5 145.0 145.0 0.0 G 976.13 551 497 0 140 -22.3 173.4 27.7 168.0 168.0 0.0 P 975.70 385 319 0 170 -64.3 136.4 226.8 174.0 0.0	i m	976.31	63.1	591	127	100	47.	00	! • ! !, ⊷ :	3 1 1	31.		90	 Q
R 976.11 543 487 0 130 -19.2 135.7 25.8 129.0 129.0 0.0 Y 976.16 565 512 0 120 21.6 139.6 22.4 129.0 129.0 0.0 N 976.28 621 575 0 90 21.6 134.5 144.0 144.0 144.0 0.0 L 976.26 611 564 0 120 -3.6 166.9 25.5 145.0 144.0 0.0 C 976.13 551 497 0 140 -22.3 173.4 27.7 168.0 0.0 P 975.70 385 319 0 170 -64.3 136.4 23.8 140.2 140.2 AN (mm & m3/s) 45 135 1.6 1.6 1.6 1.6 1.6 1.6 1.6	i ≃.	976.22	59	542	† 	40	1	42	၂ က	29.) ·		110.0	32.5
Y 976.16 565 512 0 120 8.3 159.6 22.4 129.0 129.0 0.0 N 976.28 621 575 0 90 21.6 184.5 18.9 144.0 144.0 0.0 L 976.26 611 564 0 120 -3.6 166.9 25.5 145.0 0.0 G 976.13 551 497 0 140 -22.3 173.4 27.7 168.0 168.0 0.0 P 975.70 385 319 0 170 -64.3 136.4 26.8 174.0 0.0 AN(mm & m3/s)	- ~	976.1	543	1 20	10	130	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	() () ()	ا ا	60	၂ ၈ (•	. ∞	(2) (2)
L 976.28 621 575 0 90 21.6 184.5 18.9 144.0 144.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	X	976.1	565	51	I . O I	120	(C	50	8	29.	0	· • i	1 0	41
L 976.26 611 564 0 120 -3.6 166.9 25.5 145.0 145.0 0.0 G 976.13 551 497 0 140 -22.3 173.4 27.7 168.0 168.0 0.0 P 975.70 385 319 0 170 -64.3 136.4 26.8 174.0 174.0 AN(mm & m3/s) 45 135 -1.6 162.4 23.8 140.2 140.2		976.28	621	575	10	6 	21.	34	8	44	44		. 0	2 2 .
G 976.13 551 497 0 140 -22.3 173.4 27.7 168.0 168.0 0.0 P 975.70 385 319 0 170 -64.3 136.4 26.8 174.0 0.0 AN(mm & m3/s)	11.	976.2	1 6	1.8 1.8	Į.	Z 	ဗ	66.	ຸນ	45.	45.	0		
P 975.70 385 319 0 170 -64.3 136.4 26.8 174.0 174.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 0	76.13	5 5 1	497	0	1 4 0	. (3) (3) (4) (4)	၊ က ၊ က ၊ က	·	88	68	0	in i	i co i
AN(mm & m3/s) 45 135 -1.6 162.4 23.8 140.2 140.2 0.0	F PL	975.70	1 0 1 0 1	310	0	170	1 - 64	136.4	1 00 1 1 10 1 1 10 1 1 10 1 1 10 1 1 1 10 1	174.0	174.0	0	ا ن ا بس	41
TAI(EE & ECE) 538 1020 148 5143 440 4440	AN TA	(mm & m3)		11 13 18 11 11		135 185 1620		162.4	23.8	140 2 4423	140.2	0 0	167.6	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



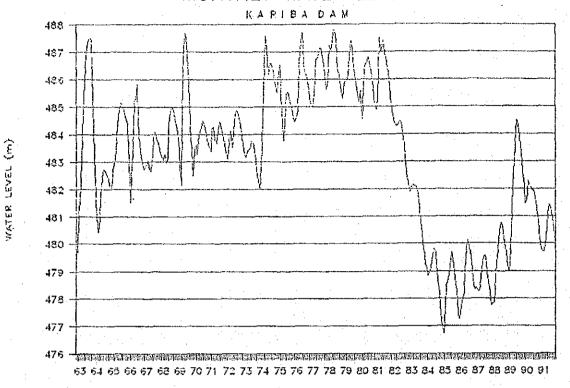


KARIBA-RESERVOIR WATER BALANCE

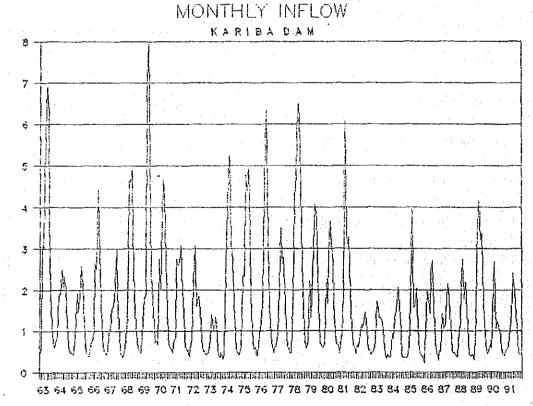




MONTHLY WATER LEVEL

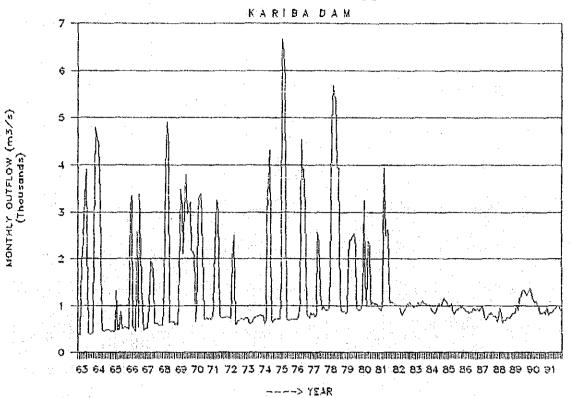




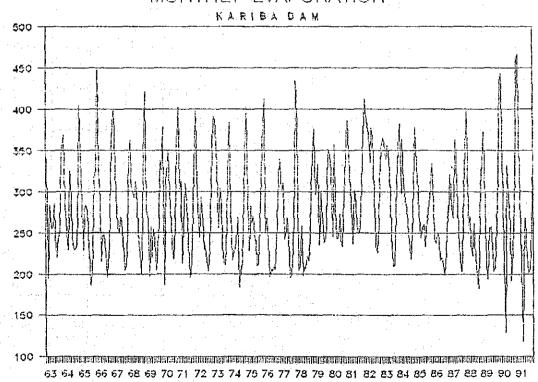


MONTHLY INFLOW (m3/s) (Thousands)

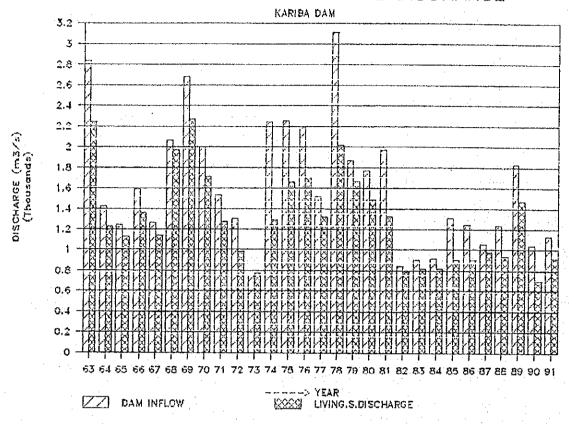
MONTHLY OUTFLOW

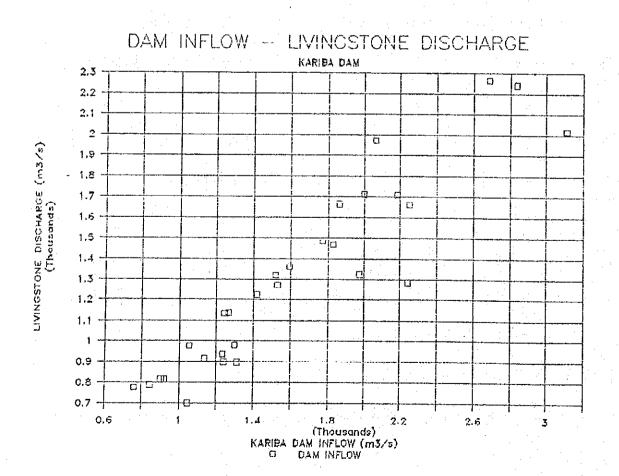


MONTHLY EVAPORATION



DAM INFLOW - LIVINGSTONE DISCHARGE





											•
[RESERVIO	IR OPERA	(NOIT			PERIOD:	1962/63	1990/91	(29 Year	s)	DAM : KA	RIBA
YEAR	W/Level H(m)			Change/V dV(m3/s)	Q1(m3/s)	E(m3/s)		Turbi. (m3/s)		LIVING. Q1(m3/s)	19-19 1\Cm)
1961/62	479.97	20896	4785		*****	=======================================		* # = = # # = = = =	****	*****	3 2 2 2 5
1962/63	487.44	58220	5491	1184	2835	269	1382	410	973	2242	50
L1963/64	482.38	32754	5008	-805	1420	282	1943	483	1460	1225	19
1964/65	484.78	44755	5234	381	1245	272	592	497	95	1134	1 (
1965/66	483.18	36736	5083	~254	1594	274	1574	517	1057	1359	23
1966/67	483.70	39335	5132	82	1267	282	903	570	333	1138	12
L1967/68	484.74	44554	5230	165	2064	290	1609	633	976	1973	
1968/69	484.31	42392	5189	-69	2684	265	2488	686	1802	2267	41
1969/70	483.99	40787	5159	-51	1998	590	1759	699	1080	1711	28
1970/71	483.85	40086	5146	-22	1529	274	1277	735	542	1271	25
L1971/72	484.34	42543	5192	78	1301	267	957	696	260	981	33
1972/73	482.73	34494	5040	~255	759	298	716	716	0	776	!
1973/74	486.11	51468	5362	538	2241	253	1450	701	749	1284	95
1974/75	485.12	46467	5267	-159	2250	269	2139	711	1428	1661	5.6
L1975/76	485.93	50557	5344	129	2183	258	1795	743	1052	1708	4
1976/77	486.53	53596	5402	96	1518	269	1152	833	319	1320	19
1977/78	485.92	50507	5343	-98	3111	257	2952	884	2068	2017	109
1978/79	485.82	50001	5334	-16	1863	296	1584	914	670	1663	20
L1979/80	485.91	50456	5342	14	1772	285	1473	994	479	1486	21
1980/81	485.99	50861	5350	13	1973	303	1657	1010	647	1325	6
1981/82	483.13	36487	5078	-456	844	331	969	969	0	791	;
1982/83	480.36	22799	4821	~434	902	305	1031	1031	0	816	
L1983/84	4 7			-342			967	967		816	1
	478.50	13797	4652	57	1312	282		972	. 0	898	
	479.04	16390	4700	82		247		911	O		
	478.62	14371	4662	-64	1053	278	839	839		977	
L1987/88	480.03	21188	4790	216	1233	262		755	c	936	
1988/89	483.29	37285	5093	510	1828	260		1057	C	1468	
1989/90	480.66	25248	4867		970	296		1055	C	701	. 2
1990/91	480.10	21529	4797	-118	1066	277		906		917	1
MEAN(m3/s TOTAL(mcm PERCENTAG) /year) E(%)			0.69 27 0.04	1620 61080 100	0 279 8 8799 0 17.22	1340 42256 82.72	789 24882 48.70	551 17376 34,01	1302 41060 80.37	3 100 19.
	W/Level	Volume	R.Area	Change/V	Inflow	A. Evap.	Outflow Qo(m3/s)	Turbi	 Spill.	LIVING	01-0

								:			
/Level II(m)	Volume		change/V dV(m3/s)	Inflow Qi(m3/s)	A.Evap. E(m3/s)	tflow m3/s)	Turbi. (m3/s)	Ų.	Evap.	urbi. (mom)	pill. (mcm)
479.9	20896	4785	11 11 11 11 11 11 11 11	ft 51 18 18 18 18	R O II S O II II S S II II II II II II II II II II	\$\ 11 11 15 16 10 11 11 11 11	# # # # #	% ∐ 	11 13 14 14 14 14 14 14 14 14 14 14 14 14 14	18 75 11 11 14	() () ()
479.80	20069	4769	-309	V 	•	•	(0)	0	926	1050	0
479.72	19680	4762	-150	1 10		400	10			10	
481.09	26378	4888	2501	30	i တ		1 80	l L			1
481.53	28546	4929	8	30	(α)	1 0	ı છ.			1 4	၂ တ
483.06	36138	5071	3138	578		1 0	(LD	: 2	617		lΩ
484.83	45006	5239	3311	689	257	3327	10	2.9	03	60	8133
85 88	50304	5340	2044	1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	i es	10	40	i o	741	10	082
486.54	53647	5403	1248	380	i 🕏			06	l R	10	5089
487.20	56999	5467	1 7 7 1 1 2 1	10		4	[• ~	ţ.	1 5	o i	t 1
487.48	58423	5495	23 23 1	117	4	40			cs 1	: =	
487.51	58576	5498	57	7			, -1	1	675		0
487.44	58220	5491	-137	09	। ए । ११ ।	404	404	1 0	1 00 I	1047	[
n %	11 15 16 11 18	16 13 18 18	37324 8 8 1 1 8 4 1 8 8 1 1 8 8 8 8 8 8 8 8	80 80 80 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 1 1 3 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 0 0 10 11	30673 34.3	847 847	l G	30673

			0	0	0	0	1336	10	0	1 8 8 9 9	0	24	0	0	
	urbi. Sp (mcm)		1221	1231	1251	1259	1207	1315	1275	1379	1340	1382	1428	1 00	15673
964/6	1 > 0		1085	892	753	613	670	761	715	0 0	-	0000	632		
υ 0	====== pill. m3/s)	1) 	0	0	0	0	825		0	369	0	1 0	0]	3008
	Turbi. (m3/s)	H . H . H . H . H	456	ı ~	467	470	6617	491	၂ တ	515	517	518	533	1 ru	15673 39.9
	utflow (m3/s)		456	475	2		1324		O	,	*	i Oi	533	534	
8 ∀	.Evap. 0 (m3/s) Qo					229	277	00		ĺΝ		0	236	9.1	272 8573 21.8
M: KAR	Inflow i(m3/s)		453	456	:	ഗ		1 00	in I	7			0	403	1245 39255 100.0
			. 0	898-	,	8	:	, –	7.0	ന	ល	ന	28	-447	120
(3)	m ~	5008		9 0	8	02	l lO			24	27	0	25	23	
- ¥ 1	Volume V(mcm)	3275	156	0.7	7	ი გ	514	798	54	<+ i	ပ	46618	45913	4755	
VIOIR OP	W/Level H(m)	482.38	82.1	81.9	2.2	2.9	82.8	83.4	84.3	8.4	485.17	8 1 51		484.7	3/s) mcm) TAGE(%)
RESER II SER II E	64/65 Month	SEP	0	0	DEC	A	FEB	MAR	APR	MAY 	חכא	JUL	<u>ා</u>	(L)	R A A A A A A A A A A A A A A A A A A A

RVIOIR		ION] (4)		DAM: KAR	IBA			Year:1	965/66]
el Volum	Volum V(mom	0 0	R.Area A(Km2)	Change/V dV(m3/s)	Inflow Q1(m3/s)	A.Evap. E(m3/s)	Outflow Qo(m3/s)	Turbi. (m3/s)	Sp:11. (m3/s)	Evap.	Turbi. (mam)	
484.78 4475	4475		5234					H H : H :	 		1] 11 11	11 11 11 11 11
4.54 435	ຕຸ		٠- ا	5.			521	521		873	1395	0
84.40 428	8		, -	2.7	ω.	447	C		0	1159	1275	0
2.93 354	54		ശ	74		326	1 1-		M.	1	1395	7114
1.51	8		5		0	287	4	ທີ່	5	ω	1484	7473
2.42 329	2.9		τ-	186	9		l ro	J M	53		1287	50
3.35 3758	758	្រស	5099	172	2486						1355	11
5.26 471	7.1	က	00		40		ω.		0	643	1192	0
5.32 474	7.4	ω		·	တ			531	2041	608		
85.84 5010	010	α,	က <u> </u>	-	1747	၂ တ -] ທ]			511	:	0
84.53 434	34	. 00		4.6	ത്		ထ က		-	573	1524	7534
3.60 3883	88 83	ល	0		8 8 9			1 4	50	I N	1454	4283
.18 367	367		5083		484	ო	974	439	ភ ១១១	82	113	138
3/s) mam) TAGE(%)				-254 -8018 -16.0	5025 100.	27 863 17.	1574 9638 98.8	16317 32.5	3323	 	16315	
		11		11				11				11 11 11 11 11 11 11 11 11

-	Spill (mom)	H H	0	0	0	0	10	70,	4 4	(2)	0	0	0		10503
	rbi. mcm)		Ö	1322	1425	1425	1357	14	1490		1	1681	00	9	
/9	Evap.] 	1039	ന		j o	ž .	1 1-		678	1 0	4	ω	64	
. 0 0 7	Spill. (m3/s)]]]]]]	0	0	0	0		03	1330	l [~		0] · -	10503
	Turbi. (m3/s)		1 00	510	1				575	j 亡		•	10	57	570 17964 45.0
	outflow o(m3/s)		484	i -				1 60	0		10	620	10	576	28467 71.3
ВА	.Evap. (m3/s) Q		388	• -		298						202	210	24	
AM: KAR	Inflow i(m3/s)	 	425	508	•	1072	1568	i w	ល់	0.2		1) (S) (S) 	1267 39949 100.0
	hange/V V(m3/s)		4	0	വ		330)ີ ຕ		KJ	1081	3	ω	-444	
(2)	R. Area C A(Km2) d	5083	0	0.4	0	0.5	0.7	(m)	03	0 0		τ		5132	
RATION	Volume V(mcm)	36736	554	449	464	52	808	34395	0.0	753	40336	1 18	048	i	
VIOIR	W/Level H(m)	483.18	82.9	82.7	482.76	82.8	83	482.71	82	83	483.9		483.93	483.70	
RESER III	66/67 Month	SEP	0	0		٦ ۲	и ш ш	MAR	APR	MAY	NO I	_ ⊃ i		Q.	

/Level Volume R. Are H(m) V(mcm) A(km2 483.70 39335 513 43 43.20 36886 508 483.20 36836 507 483.28 37235 509 482.96 35539 506 643.09 35539 507	a Change/V) dV(m3/s)Q 2 2 2 7 -504 6 -504 7 -385 1 -261	00 % % % % % % % % % % % % % % % % % %	. E	0.1.1.0.W	urbi.	0.04	V V V	 	
483.70 39335 513 483.23 35986 508 483.20 35836 508 483.06 36138 507 483.28 37235 509 482.96 35539 506	7	4 1 3 5 6 2	(8/6111)	m3/s)	(m3/s)	(m3/s)	(mom)	(mom)	
483.23 35985 510 483.20 35985 508 483.00 35138 507 482.95 37235 509 482.96 35539 505	7 6 7 7 6 7 7 6 7 7 7 8 7 7 8 7 7 8 7 7 7 8 7 7 7 7	- I O););););)) 	11 11 11 11 11	11 11 11 11 11 11	
483.23 36986 508 483.20 36836 508 483.28 37235 507 482.96 35639 506 483.09 36287 507	7 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ω	344	573	·	0	921	1535	0
483.20 35836 508 483.28 36138 507 482.96 35639 506 482.96 35639 506	7 4 7 5 5 6 7 7 7 7 7 7 7 7 7	į	ယ	ι α		0		-	. - - - -
483.06 36138 507 483.28 37235 509 482.96 35639 506 483.09 36287 507	1 126	815	307		ıω	}	82.5	1513	0
483.28 37235 509 482.96 35639 506 483.09 36287 507	C 7	37	8 6	၂ က	ω		ഗ	1570	
482.96 35639 506 483.09 36287 507) - -	ယ	0 1	& . & .	648	4	10		8 1 1 1
483.09 36287 507	2 -5	62	<u> </u>	0 6	.0	50		1883	10
ASA ASSOA ROLL	4 25		284	4357	8 8 8	ω	736	၂ တ	949
	5 239	8	10	64	7		<u></u>	1 0	 - - -
484.86 45157 524		8	C	670	670	0		1737	
485.01 45913 525	6 2	14	0	ம	ω	0	ෆ	ω	
484.91 45409 524	[- L	1-1	ပြော	·		0		1816	
P 484.74 44554 523	(C) (C)	0.0	(C)	η (α)	∞]	 	•	Ωį	
an(m3/s) TAL(mcm) RCENTAGE(%)	165 5219 8.0	2064 65259 100.0	290 9155 14,0	1609 0885 78.0	633 0006 30.7	m	Δ (Δ	0 0	3087

	 .111. (mcm)	ii H H	0	0		7505		1 ~	• -	10	I	ĺ m.	6516	7 5	0 (II (II (II (II (II (II (II (II (II (I	
	bi. S cm)		1663	1553	1645	1827	1713	1875	1786	1904	1840	1939	1982	0)	1	
	σ. Tu ()	H H H	28	1.8	23	30	22]]] (7)] (8)	58	48	() ←	24	•	7.9	50 21	
رب ص	A.EV	 		<i>L</i> .	<u> </u>	2) (0 	<u> </u>	9	9) 10]]]	9	ω 		(*) (*) 	
• >	11 - U	li 		0	1110	00	2381	7	m		2256	2370	2470	144	1802 56817 67.1	
٠.	rbi. 3/s)	 	621		514	,00	10	0	1 00	711	710	724	. –	737	21637 25.6)
		 	621	្រា	1724	4				j ~	2966		₹ .		2 8 0 4 4 2 8 7 .	
B A	Evap (m3/s			1	i ~	ງ ຫ	വ	220	I W		205		ယ	ල ල	265 8350 9.9	
. KAR	Inflow i(m3/s)		498	489	1227		00	-		0	2425	ഗ		നി		
	nge/V m3/s)		ΙŲ.	B M		03	1	6	4702	0	74	-1574	230	178	216	
(7)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5230	5203	5.18.4	5145	0		22	4	ហ	4	on i	2.7	(C)] 	
ATI	V (m c m	4455			0.0	4 1	7	430	9	934	740	(n)	70	നി	i ii 11 11	
IOIR OP	/Level H(m)	484.74	84.4	ထ	483.84	တ	2.1		87	487.66	87.	ω	85.2	484	3/s) mcm) TAGE(
RESERVED	တင္း	S F P	O !	Z		٠, ١		Σ	4 I	ΣI	NOO		AU	S III III III III III III III III III I	MEAN TOTA PERC	

IOIR OP	RATION	(8)		M: KAR	ВА			\ ⊕ \ 'L	26927		: *
W/Level H(m)	Volume V(mcm)	R.Area A(Km2)	H	inflow i(m3/s)	.Evap. (m3/s)	Outflow O(m3/s)	Turbi. (m3/s)	Spill. (m3/s)	. Eva (mom)	Turbi. (mam)	Spill. (mom)
484.31	4239	5189))] } })) () ()	H	11 11 11	11
က (၃)	783		-1702	1. 1~	326		743	1408	873	1990	3771
82.4	325	i o	4	μ. φ.	F-			0	:	1980	3386
483.50	3833	5113	1898	ານ ຕ		650		•	501	1741	0
	(C)	12) (O)	j	8	622	ω	(m	i io	
3.2				2712	321	0.5		0	i [~	58	
83.7	973	3	(B)	64	ιo	ω		72	(n	1714	N
84.	1 1 8	ω.	l ro	2	:	J &	708	ω	1 -		တ
84.2	204	ω		275		17	ო	: .	ത	1963	3857
84.	Iα	201	1 4	<	, —			iò	ω	1840	0 0
1 00	30	10		349	218	0	iö	0		1891	0
00	20	00		613			m			1961	0
483.99	40787	5.159	-503	78	၂ က ၂ က	728	728	0	923	1887	! !
(m3/s) L(mcm) ENTAGE(%)			- 	1998 63011 100.0	290 9140 14.5	1759 55476 88.0	52042 35.0	33435 53.1	9140	22042	33435

THE RESERVE WAS SECTION.

	ATION] (9)		DAM: KA	RIBA		·	φ υ	:1970/71	:	
/Level H(m)	Volume V(mom)	R.Area A(Km2)		Inflow Qi(m3/s)	A.Evap. E(m3/s)	Outflow (00(m3/s)	li DE	∥ o ∨	A.Evap. (mom)	Turbi. (mom)	
483.99	40787	515			H H			11)			11 11
œί	39035	, 	(1) (0)	491	403	742	742	0	1079	1987	
က (အ (အ	00		N	780	808	402	709		785	1838	0
83.3	773	5101	26		3 1 3 1	775	688	87	888	1843	233
84.2	194	: -		2741	213	1 10	681	297	570	1770	795
84	4	į	~~	Ω I	255	2201	769	1432	617	1860	3464
83.7	9.7		, 	l ro	310		782	2480	830	2095	6642
3.6	9.1	-		10	288	3011	767	2244	746	1988	5816
84	ပြ	17	1 m	0.0		778	727	5	635	1947	137
00 1	30	5202	523	4	196	734	734	0	508	1903	0
8 4	52	F		77	200	744	744	0	536	1993	0
84	148	5172		572	238	746	746	0	637	1998	0
က ။ က ။	400	514	-541	545	328	758	75]	0 0	1965	
/s) cm) AGF(%				15	00 1	1277	735	542 17088		23186	17088

RESER	VIOTE OF	<u> </u>	(10		AM. KART				1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
=L====	======================================	Volume	V	chande/	30		11 + 1				1 !! 2 !! 2 !!	
	H(m)			dv(m3/s)	(m3/s) E	3/8)	s/ew)	(m3/s)	- 🔪 [(BOB)	(mcm)	
SEP	483.85	40086	5146] 	
၁			5107	-76	၂ တ	ത	764			10.66		0
NOV	83.2	713	၂ တ	-347				757	0	1 00	: =	
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< €	83.7	9 6 3	 (O)	2.1	1 8	₹ 7	726	N (j lo	9 4	
CC LU	484.1	7	·~	7 8	0 7	i တ .	0			(M)	77	1 2
) (<u>/</u>	483.52	38435	ļ <	-1178	1594		20	638	1867	715	1709	5001
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<7	84.5	369	N		8.4	234	တ်	တ	0		50	
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	8 S	505		O	7.93	0	584	00		544	:	
	84.	ල ල	N	က	ນ ເ	(V)	· 🖚	.	O	· •	1918	
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MEAN(n TOTAL(m3/s) (mcm) NTAGE(%)	1 } 1			1301 41156 100.0	267 8450 20.5	30249 73.5	22016 53.5	280 8233 20.0	l ro		

កា !! ល !! កា !!	문 []	ERATION	1 (11)		DAM: KA	ВА			0 0 c	1972/		
ത⊈∥	W/Level H(m)	Volume V(mam)	n 0 0 0	Change/V dV(m3/s)	Inflow Q1(m3/s)	A.Evap. E(m3/s)	0utfl	11	spill. (m3/s)	11 ≪	Turbi. (mam)	Spil
ا ا ا	484.34	42543	519				11 11 11 11 11	11 11 11	ii 11 14 11 11	 	11 11 11	H H H
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· 0 1	83	858	~		N	1 00	ຸທ	ທ	0	i m	10	
IAY	483.7	67.9	ر ا	്ര		l m) 00		0	629		
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ال ال ال	482.73	344	ហ	-615	4.00	ന	782	7	į.	8 32	2027	
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W 1	ESERV	IOIR OP	ERATION] (12)	also pays men men gan men ann dan dan ban	 X A]	- 1		Year	1973/7		
z m, o !	/74 W	/Level H(m)	Volume V(mam)	R.Area A(Km2)	Change/V dV(m3/s)	า์ ไจพ (m3/s)	A.Evap. E(m3/s) Q] 3 (s) 1 (s)	Turbi. (m3/s)	Spill. (m3/s)	A.Evap (mcm)	Turbi. (mom)	Spill.
		482.73	34494	5040					1) 3) 1)	1 11 11]]]]	H H	
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	Z	4	6	(7)	3231	8	N	628	628	0	011	1682	0
u.	ш Ш]	6.6	400	4.1		12	n		675	0	5000	1633	0
Σ	AR	87.	898		1860	504.3		2943	718	(Q)	643	1923	5959
< !	PR	487.15	674	4	00	3057	ဖ	65	718	0	695	1861	7508
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R S	RVIOIR	ERATIO	. (1		 AA	RIB			 C	1974/75		:
=N==== 74/75 Month	W/Level H(m)	Volume V(mom)	R. Area A(Km2)	Change/V dV(m3/s)	Inflow Oi(m3/s)	A.Evap. E(m3/s)	Outflow Qo(m3/s)	Turbi. (m3/s)	Spil. (m3/s)	Evap.	Turbi. (mcm)	Spill Cmc
1 G 1 E	486.1	51468	11 12 13 13 13 13 13 13 13 13 13 13 13 13 13			li .]]]]]]			 	
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ıΣ	4.3	34	1 6	227	്ര	27	ര	! 😝		723		14
I A	83	9 1	1 1 3	106	10	2	i o	14	5047		1934	13082
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JUL) in	၂ က	(n)	-	1011		1 00	lω	0	568	1837	
AUG	4 8 5	757	1 8	0	571		710		0	•	1902	
ı OL i	485.12	4646	5267	-428	09	32	7.0	708		8]
	(m3/s) L(mcm) ENTAGE(%]]]])) 	- 159 - 5001	2250 70942 100.0	8 2 4 4 1	2139 67471 95.1		1428 45046 63.5		1 0	4
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1 4 7	W/Level H(m)	Volcae V(mom)	R.Area A(Km2)	Change/ dV(m3/s	Inflow Oi(m3/s)	A.Evap. E(m3/s) Q	Outflow o(m3/s)	Turbi. (m3/s)	Spill. (m3/s)	A.Evap.	Turbi. (mom)	Spirit (
 ប C	485.12	46467	5267]]]]]] 	11	11
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	484.48	4324	520	0	946	ល			0	670	:	
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u.	84.9	4535	52	Ó	1636		(0)		က က က	599	1759	23
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Z	487.1	56795	546	0		208				0 0 0 1 0	2211	796
Jac Jac	486.2		537	7.0	1625	205	O.		2286		2247	612
₹ (86 17	5177	367	-170			τ-)	637	2191	
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	83/8) (808) (81408))		2183 69025	8 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	56769 2000	23498 3400	33271 482	l (o	23498	3327

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	Outflow O(m3/s)		136		၂ တ			8 1		က		O	00	တ -	1152 36327 75.9
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	oz ii			J	643			1 ← .	0	- 1	0	ပ		80	1518 17861 100.0
:	hange/V V(m3/s)		9	55) IO	00	0	2438	} ~	190	0	n l	ω :	-626	
•	1 (15) R.Area A(Km2)	5344	ا ش ا ح	i N	(0)	N	2300	 	542	07 1 4 1 8	5460	9	₩ ₩	5402	
; ;		5055	1 83 1 83	7	8	576	1.0	5476	456	550	664	679	552	53596	
()	VIOLK OP HEHHERM M/Level H(B)	485.93	485.6	485.3	485.0	84.	485	486.7	486.7	486.82	487.13	487	486.85	486.53	m3/s) (mcm) NTAGE(%)
L () ()	ンドンセ ロニント	ll Ω	00	> 0 2	Ω	JAN	П П П	MAR	APR	MAY	N 10 10	JUL	AUG	SEP	MEAN (TOTAL

00. 2	ESER	IOIR OP	ATION] (16		DAM:	KIBA			7 60 7	1977/	; 	
Z ~ 0 1	7 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/Level H(m)	Volume V(mom)	R. Area A(Km2)	Change/V dV(m3/s)	Inflow Oi(m3/s	A.Evap. E(m3/s)	Outflow Qo(m3/s)	Turbi. (m3/s)	Spill. (m3/s)	A.Evap (mcm)	urb; (mam	Spil.
៖ ម្	<u>п</u>	6.53	5359	2019]] } }]] })))
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່ິ		485.92	50507	5343	7	[j	0 1	0 1			785	1 2 1	
$\Sigma \vdash \Omega$		S) B) GE(%)]]]	00 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	311		2 3 3 9 4 9	88 2787 28.	208 6521 66.	107	27870	ы 2

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NESSENVOIR OPERATION (17)			÷			· .				•			
SET INTERIOR ALENAR Control of Marca Change/V Intrigue ALENAR ALENAR Control of Marca Change/V Intrigue ALENAR ALENAR Control of Marca Change/V (maj/s)	RESE NIII	VIOIR OP	RATION] (17)		AM: KA	IBA	100 Am		Year	1978/7	. j	r I
NOV 485.32 47476 5286 -526 733 376 8683 661 6 916 2306 800 800 800 800 800 800 800 800 800 8	8/79 onth	W/Level H(m)	Volume V(mom)	R.Area A(Km2)	Change/ dV(m3/s	Inflow i(m3/s)	A.Evap. E(m3/s)	Outflow Qo(m3/s)	Turbi. (m3/s)	Spill. (m3/s)	A.Evap (mcm)	urbi. (mam)	Spil (ma
OCT 485.59 48839 5312 -623 580 342 861 861 0 0 916 2306 NOV 485.32 47476 5286 -526 733 376 893 883 0 975 2299 DEC 485.89 50355 5340 1075 2206 297 834 834 0 795 2234 JAN 485.97 50760 5348 151 1332 315 866 865 0 844 2319 MAR 486.13 51569 5435 -63 1884 4076 298 2391 881 1510 772 2284 391 APR 486.84 55169 5488 1082 3846 288 2894 997 1537 617 2584 398 JUL 486.40 52837 5390 -1327 1193 243 2277 1026 1151 651 2748 335 SEP 486.82 50001 5334 -644 659 352 49541 28826 2111 PREKENINGE(\$\phi\$) PREKENINGE(\$\phi\$) PREKENINGE(\$\phi\$) PREKENINGE(\$\phi\$) PREKENINGE(\$\phi\$)	8) ロ	485.92	50507	5343								i i i	 - - - -
NOV 485.32 47476 5286 793 376 883 883 0 975 2269 DEC 485.89 50355 5340 1075 2206 297 834 0 795 2234 JAN 485.97 5060 5345 151 132 366 0 644 2319 FEB 485.94 5060 5345 -63 1864 333 1594 875 719 806 2117 173 MAR 486.13 51569 5345 -63 1864 333 1594 875 719 806 2117 173 APR 486.84 55169 5342 1389 4076 286 2496 962 1564 376 401 APR 486.84 55169 548 4076 286 2496 962 1564 396 JUL 486.40 5629 5167 5234 974 50 5174 <td>OCT</td> <td>(N)</td> <td>(S)</td> <td>1 0</td> <td>62</td> <td>) CO</td> <td>4</td> <td>100</td> <td>(O</td> <td>0</td> <td>·</td> <td>230</td> <td></td>	OCT	(N)	(S)	1 0	62) CO	4	100	(O	0	·	230	
DEC 485.89 50355 5340 1075 2206 297 834 834 0 795 2234 JAN 485.94 50568 5348 151 1332 315 866 866 0 844 2319 FEB 485.94 50608 5348 151 1332 315 866 866 0 844 2319 WAR 486.13 51569 5364 359 3011 236 2416 916 1500 632 2453 401 APR 486.84 55169 5432 1389 4078 298 2291 881 1510 772 2284 391 JUL 486.40 52937 5390 -1327 1193 243 2277 1026 1251 651 2748 335 SEP 485.82 50001 5334 6629 352 296 2311 891 531 631 1510 772 2284 393 MAN(m3/s) PERCENIAGE(%) PERCENIAGE(%)	0		747	(N)	1 KP	l m	100	(3)	(C)	į	· 1~	228	0
JAN 4085.97 50760 5348 151 1332 315 866 866 0 844 2319 FEB 405.94 50608 5345 -63 1864 333 1864 333 1864 211 173 MAR 486.13 51569 5364 356 4078 298 2391 881 1510 772 2284 301 MAY 487.41 58067 5488 1082 3846 268 2391 881 1510 772 2284 391 JUN 487.41 58067 5488 1082 243 2277 1026 1251 651 2748 395 JUL 486.40 5537 5366 -473 730 253 944 0 694 2728 AUG 486.15 51671 5366 -473 730 259 944 0 694 2728 AUG 486.15 51671 5366 -473 730 259 921 921 921 931 2381	D E	8 1 12 1 8	000	ω 4	0	0 0	52	ത	(1)	ł	က	23	
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APR 486.13 51569 5364 359 3011 236 2416 916 1500 632 2453 4011 APR 486.84 455169 548 1082 3846 268 2496 962 1534 718 2577 410 JUL 486.40 52937 5390 -1327 1193 243 2277 1026 1251 651 2748 335 AUG 486.15 51671 5366 -473 730 259 921 921 0 912 2337 SEP 485.82 50001 5334 -644 629 352 921 0 912 2337 PERCENTAGE(%) PERCENTAGE(%)	LL	က က က က	0.80	1 m	φ	80	m m 	i on	-	-	0	 -	-4 [
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MAY 487.41 58067 5488 1082 3846 268 2496 962 1534 718 2577 4100 JUN 487.10 56490 5458 -608 2164 238 2534 997 1537 617 2584 398 JUL 486.40 52937 5390 -1327 1193 243 2277 1026 1251 651 2748 335 AUG 486.15 51671 5366 -473 730 259 944 944 0 694 2528 SEP 485.82 50001 5334 -644 629 352 921 921 0 912 2397 MEAN(m3/s) PERCENTAGE(%) PERCENTAGE(%) PERCENTAGE(%)	A P	86.8	5	1 0	က က	07	5.0	ι σ Ι σ	co .	<i>w</i> −	F-	8	8
JUN 487,10 56490 5458 -608 2164 238 2534 997 1537 617 2584 398 JUL 486.40 52937 5390 -1327 1193 243 2277 1026 1251 651 2748 335 AUG 486.15 51671 5366 -473 730 259 944 944 0 694 2528 SEP 485.82 50001 5334 -644 629 352 921 921 0 912 2387 MEAN(m3/s) -506 58766 9332 45941 28826 21114 9332 28826 21111 PERCENTAGE(%) -6.0.9 100.0 15.9 85.0 49.1 35.9	Σ	87.4	808	4 Ø	8	84	26	0	(C)	n n	·	2	<u> </u>
AUG 486.15 51671 5366 -473 730 259 944 944 0 694 2528 SEP 485.82 50001 5334 -644 629 352 921 921 0 912 2397 MEAN(m3/s) -16 1863 296 1584 870 9332 28826 21114 9332 28826 21111 PERCENTAGE(%) -0.9 100.0 15.9 85.0 49.1 35.9	7	487.1	649	4 5	00	6	23	(n)	G	ις (3)	\ \rac{1}{2}	(X)	8
AUG 486.15 51671 5366 -473 730 259 944 944 0 694 2528 SEP 485.82 50001 5334 -644 629 352 921 0 912 2337 MEAN(m3/s) TOTAL(mcm) -506 58766 9332 45941 28826 21114 9332 28826 2111 PERCENTAGE(%) -0.9 100.0 15.9 85.0 49.1 35.9	1 3	86.4	283	[m	132	0	2.4	2 1	02	25	ຸທ	74	හ හ
SEP 485.82 50001 5334 -644 629 352 921 921 0 912 2387 MEAN(m3/s) TOTAL(mcm) PERCENTAGE(%) -0.9 100.0 15.9 85.0 49.1 35.9	AU	86.1	167	ည	-47	m	25	40	₹		တ	52	
MEAN(m3/s) -506 58766 9332 45941 28826 21114 9332 28826 21114 PERCENTAGE(%) -0.9 100.0 15.9 85.0 49.1 35.9	SEP	485.82	2000	ည	10.	0 0	വ	92	92		9 1	233	1 1
THURWINDENDENDENDENDENDENDENDENDENDENDENDENDEN	MEAN TOTA PERC	m3/s) (mcm) NTAGE(%)			-50	186 876 00.	9 2 3 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	158 4994 85.	0 0 4	35.) က က) တ	88	1 1 1
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\geq 1	evel (m)	EEI	R.Area A(Km2)	Change/V dV(m3/s)	nflow (m3/s)	Evap. m3/s)	Outflow o(m3/s)	Turbi. (m3/s)	. (s	A.Evap. (mcm)	Turbi. (mcm)	Spill (mam)
SEP	5.82	50001	533)) }))))	11 11 11 11
007	5.4	8	30.1	9	500	344	:	896	0	921	2400	
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	Level H(m)	Volume V(mcm)	R.Area A(Km2)	Change/V dV(m3/s)	Inflow Q1(m3/s)	A.Evap. E(m3/s)	Outflow Qo(m3/s)			A.E.	Turbi. (mom)	Spill (mom)
S P P	្រ ហ	5045	5342	11 14 11 11 11 11		11 11 11 11] 	
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DAM: KARIBA Inflow A. Evep. Q1(m3/s) E(m3/s) Q0(m3/s) (m3/s) (m0/s) m0m) Q1(m3/s) E(m3/s) Q0(m3/s) (m3/s) (m0/s) (m0m) Q1(m3/s) E(m3/s) Q0(m3/s) (m3/s) (m0/s) A48 353 1020 1021 1031 10	AM: KARIBA Inflow A.Evap. Outflow Turbi. Spill. i(m3/s) E(m3/s) Qo(m3/s) (m3/s) (mcm) (mcm) i(m3/s) E(m3/s) Qo(m3/s) (m3/s) (mcm) (mcm) f(m3/s) E(m3/s) Qo(m3/s) (m3/s) (mcm) f(m3/s) E(m3/s) Qo(m3/s) (m3/s) (mcm) f(m3/s) E(m3/s) Qo(m3/s) (mcm) f(m3/s) E(m3/s) f(m3/s) E					•			
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	S	RVIOIR O	ATION] (22)		DAM: KA	ВА			Year	1983/8		:
	83/84 Month	W/Level H(m)	Volume V(mcm)	R.Area A(Km2)	Change/V dV(m3/s)	Inflow Oi(m3/s)	A. Evap. E(m3/s) Q	 Dutflow o(m3/s)	Turbi. (m3/s)	Spill. (m3/s)	A.Evap.	Turbi. (mom)	Spill.
	1 (L.)	480.36	22799	482)) } } }				ii 11 11 11	H H H H		11 11 11 11)))))) ()
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	_ LU - 1	479.10	1667	470	0 (n (1	948	297		l RO	0	795	2563	
	U AN	478.85	1547	9	44	0	ဖ		ഗ		972	2389	0
	п п	478.9	581	6.5	<u>ෆ</u>	0		860	I	0	769	2155	0
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Change/V Inflow A.Evap. Outflow Turbi. Spill. A.Evap. Tudv(m3/s) Qi(m3/s) E(m3/s) Qo(m3/s) (m3/s) (m3/s) (m3/s) (m0m) (m0m) (m	Area Change/V Km2) dV(m3/s) ====================================	Inflow A.Ev 21(m3/s) E(m3	ab. Outflow)) } }	11 13 11 11 11
4559 -1147 383 378 1152 1152 0 1012 4510 -989 437 331 1095 1095 0 858 4493 -327 1013 300 1040 0 864 4523 569 1827 270 988 988 0 723 4647 2712 3930 244 974 974 0 590 4662 286 1573 256 1031 1031 0 586 4685 500 1613 260 853 853 0 674 4736 500 1613 260 857 857 0 664 4734 475 475 285 285 909 909 0 763	4659 -1147		/s) Qo(m3/s)	ma/s) (411. A.E 3/s) (m	ap. Turbi	
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11 0 1 K	ATION										
/86 W/Level nth H(m) EP 478.50] (24)		DAM:	IBA			Year	1985/86		
EP 478.50 CT 477.96	olume (mcm)	R.Area A(Km2)	Change/V dV(m3/s)	Inflow Qi(m3/s)	A.Evap. E(m3/s)	Outflow Qo(m3/s)	Turbi. (m3/s)) · (s	A.Evap. (mom)	Turbi. (mam)	
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UG 479.53	875	7.4	ເດ	ထောင်	N	906		0	0	12	
P 479.04	0589	700	(C)	00	27	934	၂ က	0	715	10	0
EAN(m3/s) OTAL(mcm) ERCENTAGE(%)			7 7 1 1 1	1240 39112 100.0	247 7802 19.9	911 28717 73.4		0 0	7802	11 -	

J												
/87 nth	W/Level H(m)	Volume	R.Area A(Km2)	li .	1) 3 0)	••	Outflow Oo(m3/s)	urbi. m3/s)	II • •	A.Evap. (mom)		
اما	479.04	16390	470					SI 11 11 11		11 10 11 11 11 11)) }	} } }
	78.6	461	(Q)	664	540		ന	000		726	2499	
>0	-3	7.9	4633	70	507	321	887	887		(n)		
	8	, σ	1 9	0	1426	ြိတ	្រ	່ທ		750	2544	
l Z	78.3	284	0 0	F~-	1066	ட்ம	· -	976	0	718	2614	
1 1 1 00 1 111	78.2	1 7	၂ က	m	1157] m	ျော	ω	0	813	2081	
MAR	i co	13653	<	339	1444	963		742	0	972	1987	
	79.0	ည	70	m	2134	0	က	0		0)	iò	
	ຸທຸ	[τ.− Γ:ΤΟ	4745	ω	1803	ເດ	m	739	0		1 1-	
	79.5	0.0	74	1	1111	· ·	V	· ·		j (O _i	7	
	က	17596	4723	50	516	202		820		541	2196	0
້ ອ	7.8	0.0	က	[4	N .	LO .	വ	0		2295	
0	478.62	14371	4562	-611	4.7	0 0	0				2037	
ZAU	m3/s) (mam) NTAGE(%)	! !] 	2018 2018	1053 33204 100.0	278 8762 26.4	839 26460 79.7		:	ω .	4 6	

SERVIOIR OPERATION] (26) 88 W/Level Volume R.Area C 1th H(m) V(mcm) A(Km2) d 1th H(m) A(Km2)	DAM: ange/V Inf (m3/s) Qi(m -749	KARIBA mmemememememememememememememememememem					
[RESERVIOIR OPERATION] (26) LL==================================	DAM: ange/v Inf (m3/s) Qi(m -749 -787 -787	KARIBA		-			
ST/88 W/Level Volume R.Area C Wonth H(m) V(mcm) A(Km2) d SEP 478.62 14371 4662 OCT 478.20 12365 4625 NOV 477.77 10325 4590 JAN 477.89 10893 4597 FEB 478.33 12984 4636 MAR 479.28 17548 4722 APR 479.76 19874 4766 MAY 480.46 23288 4830 JUN 480.77 24806 4858	ange/v Inf (m3/s) Qi(m n-749 88	OW A.EVB		700	ear:1987/	80	
SEP 478.62 14371 4662 OCT 478.20 12365 4625 NOV 477.77 10325 4596 JAN 477.82 10562 4597 FEB 478.33 12984 4636 MAR 479.28 17548 4722 APR 479.76 19874 4766 MAY 480.46 23288 4830 JUN 480.77 24806 4858	749		Outflow Qo(m3/s)	Turbi. (m3/s)]]. A.EV /s) (ma	. Turbi. (mom)	Spill. (mom)
OCT 478,20 12365 452 NOV 477.77 10325 458 DEC 477.82 10562 459 JAN 477.89 10893 459 FEB 478.33 12984 463 APR 479.28 17548 472 APR 479.76 19874 476 MAY 480.46 23288 4836 JUN 480.77 24806 4858	787 88 124)) }
NOV 477.77 10325 458 DEC 477.82 10562 459 JAN 477.89 10893 459 FEB 478.33 12984 463 MAR 479.28 17548 472 APR 479.76 19874 476 MAY 480.46 23288 483 JUN 480.77 24806 485	787 88 124	0	1 -		0 94	3 2065	0
DEC 477.82 10562 459 JAN 477.89 10893 459 FEB 478.33 12984 463 MAR 479.28 17548 472 APR 479.76 19874 476 MAY 480.46 23288 483 JUN 480.77 24806 485	88	06 4	2 79		104	2 2050	
JAN 477.89 10893 459 FEB 478.33 12984 463 MAR 479.28 17548 472 APR 479.76 19874 476 MAY 480.46 23288 483	24	001	9 65	654		4 1752	0
FEB 478.33 12984 463 MAR 479.28 17548 472 APR 479.76 19874 476 MAY 480.46 23288 483		199 2	08	P		3 2156	0
MAR 479.28 17548 472 APR 479.76 19874 476 MAY 480.46 23288 483 JUN 480.77 24806 485	្ល	045 2	7	~	 	24	0
APR 479.76 19874 476 MAY 480.46 23288 483 JUN 480.77 24806 485	0.4	39	2 81	813	65 0	217	10
AY 480.46 23288 483 UN 480.77 24806 485	98	794 2	2 63	m	9	164	
UN 480.77 24806 485	74	196 2	0 7 0	702		188	0
	586	465 2	0 67	} ~	10	175	
UL 480.67 24316 484	ි ල	759	3	759		203	
UG 480.37 22847 482	10.	34 2	9 75	10	9	201	
EP 480.03 21188 4790	640	405	9	73	1 5-	191	1
EAN(m3/s) OTAL(mcm) ERCENTAGE(%)	588	233 978 0.0	0 m 0) ოდ	0 0 0 0.0	3 23887	

 $e^{i\phi} = e^{i\phi} + e^{i\phi} = e^{i\phi} + e^{i\phi} = e^{i\phi}$

RESE	⊢ ←	ERATION) (27)		DAM: KA	RIBA			0 0 C	198	٠.	
140	W/Level H(m)	Volume V(mcm)	R.Area A(Km2)	Change/V dV(m3/s)	Inflow Qi(m3/s)	A.Evap. E(m3/s)	Outflow Qo(m3/s)	Turbi. (m3/s)	Spill. (m3/s)	A.Eva (mcm	Turbi. (mom)	Spill. (mom)
S G G	480.0	21188	4790				11 11 11 11 11)) }} }}			11 11 11	# # #
OCT	479	1 8 8	ហ		429		784	784	0	897	2100	
NOV	479.1	0	<u> </u>	JO	10		829	828	0	967	2149	
DEC	478.9	605	469	(0)	Ų ₹	ı i~		832	0	742	2228	
JAN	79.2	-	!	្រ ហៈ	တ		10		0	560	2210	0
ш (ш (ш	480.4	33	က [ထ	. ***	3608		(O)	၂ တ	0		2417	
A R	482.1	14	0 0] တ [တ	4149	j in	•		0		2397	
۵. ا د	483.	359	5068	176	3182	257	1161	1161	0	666	30.08	
¥	484.07	4118	516	194	(G)			1196	0		10	
Z D	484	თ ო	20	00 	ίω.) .0		1311	0	526) හ හ	
L L	484	42543	ਲ 1	ا ش	·	0			0	557	3565	
g N	483.8	40136	514	0 0	i io	10	0	၂ တ		691	3463	
	483.29	37285	50		4	3.1	123	123]	10	1 00	
ERC OTA	m3/s) (mcm) NTAGE(%)			510 15097 27.9	182 763 00	26 20 4	1057 33328 57.8	1057 33328 57.8	000	8 20 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
												ii 11 11 11 11

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07	ì	VO\ Om)\ Omi	R.Area A(Km2)	Change/V dV(m3/s)	Inflow Qi(m3/s)	ap. (s)	Outflo Qo(m3/s	Turbi. (m3/s)	Spill. (m3/s)	.Evap. (mcm)	Turbi. (mcm)	Sp Sp
SEP	483.29	37285	5003					· · 		11 11 11 11	11 11	11 11
OCT	482.	₹	203	-117		435	03	1288	0	1164	3450]
NON	82.0	1167	4978	114	~		•		0	1147		
	1.4	82	7 6 7	ထ	585				0	l ro	12	1
JAN		8596	4929	12	1517	220	ω		0	1	1	
I Ш.	482.26	3215	9667	147	ω	N		ω	0	į —	57	
MAR	482.07	31217	4979	3	(0)		1090	1090	0		10	
APR	482.04	106	976		N	တ			0	764	l to	1
> 1	481.93	305		-20	, `	256			0	1 00	2]
N I	481.9	052	ဖြ		(3)		832		0		2157	
JUL	481.6	CI	9.0	46	(O)		ന	ന		611	2 1 2	
AUG	481.30	27412	0	7.0	ന	ထ	4	母	0	່ທີ່	i w	
S G G	480.86	25248	4867	(C)	42	370	8	8	0	0 0 1	2	
MEAN(TOTAL PERCE	m3/s) (mcm) NTAGE(%)		 - -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	970 30577 100.0	30 S S S S S S S S S S S S S S S S S S S	332	1055 3279 08.8	0.	0	C	ii 11 11

ALTER .

훘	OIR OP	ATI	(29		× ×	RIBA			> © ©	მ მ		
N 3 N	Level Level H(m)	Volume V(mcm)	R. Area A(Km2)	Change/V dV(m3/s)	Inflow Inflow Oi(m3/s)	A.Evap. E(m3/s)	1 + E	Turbi. (m3/s)	Spill. (m3/s)	A.Eva (mom)	ii r E ii r o	Spill.
# # # # # # # # # # # # # # # # # # #	80.86	11 TO	4867]]]]]])) }}	łì	H	 	
4	80.4	3 0	00	92-	514	-	821	821	0	1237	2199	0
> 4	0.00	080	1 60	1 co	0000	467	974	974		1211	2525	0
0	79.7	įω	4760	0	618		808	808	0	804	2164	0
	79.7	0 1 10 1 00	1 2		1067					574		
B	79	080	18	N	1398	117	00	859	0		,	0
X .	80	00	84		2403	267	878	878	0	716	im	0
i }	81.	1 4	00	4	<u> </u>	ယ		:			1 2	
j 	81.4	7.80	ത		1710	220) (5) 	ო	0		Ω ⊢	0
1	81.8	751	06	<u> </u>	1052	jo	10	1002	0		i in	
7	80	554	87	-11	474	0	0 .	1004	0	550	10	0
Q i A	480.51			1 -	412		606	606		679	2435	0
	80.10	21529	4797	-173	46	34	00	896	0		232	0
AN(BS)	/s/ /s/	h H)		1066	277					ll io	

SUPPLEMENT - 4.5

ANNUAL & MONTHLY RIVER FLOW

		Marian															i.			
						100						٠.	٠.	. 4					3.1	
<annual< th=""><th>MEAN</th><th>DISC</th><th>HARGE</th><th>> .</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>4</th><th>F</th><th></th></annual<>	MEAN	DISC	HARGE	> .														4	F	
UPPER	AREA	(32	YEARS)										· ·				4	5-	•
MHOTE	AREA	(12	YEARS)				М.,	121	5.5	1.50	30							E	ì
<monthly< th=""><th>Y MEAN</th><th>DIS</th><th>CHARG</th><th>E> .</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>• •</th><th></th><th></th><th>4</th><th>5-</th><th></th></monthly<>	Y MEAN	DIS	CHARG	E> .											• •			4	5-	
<annual< td=""><td>FLOW</td><td>PATT</td><td>ERN></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></td><td> 1-</td><td>4</td><td>F 3</td><td>c</td></annual<>	FLOW	PATT	ERN>														1-	4	F 3	c
UPPER	AREA	(32	YEARS)											•	• •		7 ·	£~3	Č
WHOLE	AREA	(12	YEARS)						•				•	• •	•		À	54	4
<monthly< th=""><th>Y FLOW</th><th>PAT</th><th>TERN></th><th></th><th></th><th></th><th></th><th></th><th>- 1</th><th></th><th></th><th></th><th></th><th></th><th></th><th>•</th><th>1.</th><th>A .</th><th>5 - A</th><th>4</th></monthly<>	Y FLOW	PAT	TERN>						- 1							•	1.	A .	5 - A	4
UPPER	AREA	(32	YEARS)	en en en en									•		•	. :	7 ·	S - A	-
WHOLE	AREA	(12	YEARS)					•			•	• .	•	•	• •		4	5-6	4
		·.					- 7	· . · ·	. • •				•				- 4	A .	~ ~	٤

	-											-			(1/4)
	BASINS	No.	ST.	POINT & STATION NAME /	AREA(km2)	59/60	60/61	61/62	62/63	63/64	64/65	65/66	66/67	67/68	68/69
	ZAMBEZ I	(1)		Cholose	73,512	620	747	908	943	483	559	512	554	1096	1006
в.	я.	(2)	1~150	St. Zambezi Pump House	87,275	736	886	1077	1119	574	663	608	658	1301	1195
•		(3)		Zambezi R. Portion	90,353	762	918	1115	1159	594	687	629	681	1347	1237
•	×	(4)	1-650	St. Kabompo Boma	42,740	185	221	277	282	222	196	211	181	231	451
	¥ .	(5)		Kabompo R. Portion	45,029	185	228	286	295	228	199	214	183	236	465
R		(6)		Dangwe R. Partian	20,568	0	58	79	120	53	32	32	19	42	127
		(1)		Confiliuence	65,597	184	286	365	415	280	231	247	202	278	592
*	* ;	(8)	1950	St. Watopa Pontoon	66,449	184	288	368	420	283	232	248	202	280	597
×		(9)		Kabompo R. Portion	72,347	184	305	391	454	298	241	257	208	292	634
te .		(10)		Confluence	162,700	946	1223	1506	1613	892	928	886	889	1638	1871
ŧ.,			2-030	St. Lukulu	205,531	748	849	1054	1087	798	777	764	751	1125	1113
•		(12)		Zambezi R. Portion	228,076	847	955	1141	1189	933	882	864	829	1165	1167
٠			2-250		34,621	56	59	94	169	51	42	89	- 51	115	138
*		(14)		Luanginga R. Portion	41,233	87	92	120	200	92	74	120	75	128	154
T .		(15)			269,309	934	1046	1261	1390	1025	956	984	904	1293	1321
•			2-400	St. Senanga	278,298	975	1090	1297	1433	1081	1000	1025	937	1309	1343
•				St. Raglan Farm	4,999	22	31	67	55	27	20	21	28	25	63
•		(22)		Kafue R. Portion	7,730	32	49	100	85	49	40	35	124	48	100
2			4-128	St. Mwambashi	869	5	- 6	13	11	5	5	5	5	7	1
6				St. Smith's Bridge	8,599	37	55	113	96	55	45	39	129	55	11
•				St. Moatamato	11,655	55	79	163	147	78	84	56	67	66	15
		• •	4-280	•	22,920	80	118	248	243	126	100	80		90	241
		(27)		Kafue R. Portion	24,582	. 83	124	259	254	132	106	- 84	98	93	25
		(28)		Luswishi R. Portion	8,866	20	29	61	60	31	30	20		17	8
		(29). (29)		Confluence	33,448	103	153	320	314	162	136	103		111	31
3			4-350		34,162	105	155	325	319	165	139	105		112	32
,			4-450	· -	54,442	111	187	343	414	203	149	111		112	35
						65	118	196	215	203 86	59	50		56	24
,			4-560		21,445	69	120	199		94	67	56		52 52	23
		(33)		Lunga R. Portion	24,416	180	308	542	534	297	218	167		174	23 59
		(34)		Confluence	78,858						210 261	202			
۰۲. ۳۲ ۵			4-669	St. Kafue Hook Bridge	95,053	203	319	556	663	343	201	202	223	204	58
OMEX	ZMBEZI			Livingstone	466,324										
-		(18)		in (Kariba Dəm)	508,634			•							
		(18E		Evaporation							••				
	•	(188))	Storage									•		
		(19)		Out (Kariba Dam)			٠			** .	1 4				
		(20)		Zambezi R. Portion	612,724				:	•					
•		(36)		In (Itezhi-tezhi Dam)	105,672						. !				
,		(368)		Evaporation	2-111/2							* *			
ķ	₩	(368)	Storage											
*	•	(37)		Out (Itezhi-tezhi Dam)					:			•			
•	*	(38)		In (Kafue Gorge Dam)	151,576										
		(38E))	Evaporation						. •					
	•	(385))	Storage											
•	•	(39)		Out (Kafue Gorge Dam)							2.00				
*	H	(40)		Kafue R. Portion	154,882				•						
F .	ZAMBEZI.			Confiluence	767,606		9 1	1.1						٠	
ŧ	Я	(42)		Zambezi R. Portion	786,686										
	LUANGWA		5-940	St. Luangwa Bridge	143,781	301	427	1117	875	633	566	309	381	388	62
*		(44)		Luangwa R. Portion	150,586	316	447		917						
4.															

AREAS	BASINS	No.	ST.	POINT & STATION NAME	AREA(km2)	69/70	70/71	71/72	72/73	73/74	74/75	75/76	76/77	77/78	78/78
IPOFR	ZAMREZ I	(1)		. Cholose	73,512	824	594	356	347	487	697	716	586	729	765
			1-150	St. Zambezi Pump Kouse		978	706	422	412	578	828	850	695	866	908
	*	(3)		Zambezi R. Portion	90,353	1013	731	437	427	599	857	880	720	896	940
,	Ħ .		1-650	St. Kabompo Boma	42,740	325	267	157	115	122	200	231	243	306	363
*	•	(5)		Kabampo R. Portion	45,029	332	271	158	116	123	205	239	246	316	370
	4	(6)		Dangwe R. Partion	20,568	60	43	9	4	15	44	69	26	91	64
	•	(1)		Confluence	65,597	391	314	167	120	138	249	308	272	407	433
B .		(8)	1-950	St. Watopa Pontoon	66,449	394	316	167	120	139	251	311	213	411	436
*	. • .	(9)	. :	Kabompo R. Portion	72,347	411	328	170	121	143	264	331	280	437	454
•	•	(10)		Confluence	162,700	.1424	1059	607	548	742	1121	1211	1000	1333	1394
	•	(11)	2-030	St. Lukulu	206,531	977	822	613	553	683	956	965	869	994	1049
* -	a	(12)		Zambezi R. Portion	228,076	1063	915	683	594	757	989	975	916	1025	1092
•	٠.	(13)	2-250	St. Kalabo	34,621	110	38	45	13	76	113	123	48	142	77
•	1 .	(14)		Luanginga R. Portion	41,233	137	66	- 67	25	99	123	126	62	152	90
×		(15)		Confluence	269,309	1200	981	750	619	856	1112	1101	978	1177	1182
	. •	(16)	2-400	St. Senanga	278,298	1236	1020	779	637	887	1125	1105	997	1190	1200
	KAFUE	(21)	4-050	St. Raglan Farm	4,999	40	63	40	10	17	30	52	42	80	73
5	•	(22)		Kafue R. Portion	7,730	68	97	74	28	45	83	- 100	84	127	113
		(23)	4-120	St. Mwembashi	869	. 7	10	8	3	. 5	10	13	8	15	13
N .	* .	(24)	4-130	St. Smith's Bridge	8,599	. 75	107	82	31	50	78	- 113	92	142	125
		(25)	4-200	St. Mpatamato	11,655	88	134	88	35	73	100	135	103	178	165
	. *	(26)	4-280	St. Machiya Ferry	22,920	133	193	124	47	114	148	194	149	298	246
•	•	(27)		Kafue R. Portion	24,582	140	201	129	49	121	155	202	156	312	258
	•	(28)		Luswishi R. Portion	8,866	37	41	29	10	. 38	39	43	39	78	67
٠.		(29)		Confluence	33,448	177	241	159	59	159	195	244	195	390	325
	*		4-350	St. Chilenga	34,162	180	245	161	59	162	198	248	198	396	330
x .	•			St. Lubungu	54,442	210	248	167	62	175	226	271	191	335	355
•	•		4-560	St. Chifumpa Pontoon	21,445	126	96	58	26	44	79	107	79	245	165
*		(33)		Lunga R. Portion	24,416	129	107	67	33	57	.: 89	120	82	284	174
x ,	٠,	(34)		Confluence	78,858	339	354	235	94	232	315	392	273	619	530
	• ;		4-669	St. Kafue Hook Bridge		353	411	289	128	303	369	465	288	832	581
OHER	ZAMBEZI	•		Livingstone	466,324	٠.		-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1 1 1		٠.	111	1.1
2	R	(18)		In (Kariba Dam)	608,634		•							**	
•		(18E)	Evaporation	****								:		
•	•	(188		Storage										•	
*		(19)	•	Out (Kariba Dam)											
	R	(20)		Zambezi R. Portion	612,724					71					
	KAFUE	(36)		In (Itezhi-tezhi Dam)											
	•	(36E)	Evaporation											
	4	(365		Storage									: '		
	2	(37)	,	Out (Itezhi-tezhi Dam)											
94		(38)		In (Kafue Gorge Dam)						٠.					•
•		(38E)	}	Evaporation								ž.			
,		(385		Storage		15th							1		
	•	(39)	,	Out (Kafue Gorge Dam)							6.30	٠.		: -	
٠	9	(40)		Kafue R. Portion	154,882				:	. :					
	ZAMBEZI			Confluence	767,606										٠.
	TALESCY I	(42)		Zambezi R. Portion	786,686				4.3			٠	1		
,	LUANGHA		5-040	St. Luangwa Bridge	143,781	470	773	357	323	861	501	831	500	1132	842
	LUNITORIA		J-240	Luangea R. Portion	150,586	492	810	374	339	902	525	871	523		882
	711117577	(44)		Confluence	937,272	436	. 414	413	. ' प्रथम	445	454	er t	acia	1 (44	
-	ZAMBEZI	(47)		con mense	331,212										