MONTHLY RAINFALL DATA

3

AT

BOLE INTERNATIONAL AIRPORT

(1965 – 1995)

•

LAT			Mar	Apres	1.e (Bole Alv May	Jun	10176	Aug	Sep.	0 ct	Nov	. Dec	No, MU
Year-	ne for the	Feb	۵۰ مه موجود مراجع مراجع محمد مراجع ال	يوجر مرجز مرجز برايين		16,8	168,9 165,2	231 9	AF. 7	64.2	6,4	0.5	12
) 1965		0.0	42.5	58.7	6.2	149.4	16512	282.9	45.7 111.6	41.9	0.0	0.0	12
	0.0	73.0	6.9	72.9	0.4	134.7	.263.9	208.9	232.9	20,1	38,9	0.0	12
1966	12.4	6.2	75.8	107.1	145.6	110.5	180:5(30	D. 155.A.	128,6	4.9	0.8	0.0	12
1962.		149.9	37.8	302.1	15.0	126.2		300505		0.0	0.3	0.1	12
D 1968	1.0	109.2	153.5	95.8	123.5	61.7	340 63	A TRACE	102 31	2.9	0.0	0.0	12
1969.	67.5	52.3	176.4	39.5	31.5	123.1	303 4	20000	161252	8.4	4.2	16.0	12
1970	0.0 7.3	0.0	36.8	67.9	154.1	91.4	268.9	153-11		3.2	6,4	0.0	12
) 1971		103.4	82.4.	162.8	83.3	117.6	266 3	333.7	130 8	31.1	0.0	74:6	12^{+2}
-1972	7.7	0.0	0.0	_ 25.3	68.8	140.3	269.8	237.4	203.3	10.0	0,0	0.0	12
1973		15.7	6.4	5.0	142.2	112.9	292.7	155.2	128.8	29.5	0.0	0.0	12
1974	0.0 5.7	0.0	26.2	79.2	8.6	106.3	249.7	236.9	102.3	0.0	78.3	3:4	12
1975	23.6	\$ 9.2	50.4	99.1	129.2	151.7	222.8	300.3	168.5	227.1	9.3	0.0	. 12
1976	23ND 64.0	46.8	95.2	76.5	104.8	101.6	162.3	244.5	195.9	44.8	0.0	0.0	12
1977	_	21.6	28,9	92.0	46.2	119.9	249.2	164.2	85.0	15.2	0.0	5.8	12
1978		7.2	91.0	31.4	139.5	129.1	268.1	214.8	118.6	0.0	0.0	0.0	12
1979	91.0	26.8	64.3	24.3	44.4	56.9	273.9	256.1	162.5	24.7	0.0	2.7	12
- 1980	23.6	43.6	217.5	79.0	18.4	63.6	220.3	221.6	142,8	19.0(30)	40.7	4.9	12
1981	0.0	96.4	90.2(30)) 48.1	73.5	56.3	217.9	213.7	202.2	35.9	0.0	1.5	12
1982		41.3	28.9	113.7	186.9	334.2	313.7	180.4	98.8	0.0	0.0	7.0	12
() 1983	-	0.4	11,6	11.6	135.0	110.9	209.7	260.8	168.6	29.8	0.0	0.4	12
1984		0.0	94.7	132.3	92.8	175.2	167.9	222.3	107.4	31.6(30)	0.0	2.5	12
1985		45.1	57.6	218.6	37.7	21.0	155.9	98.1	57.0		0.0		
1.00		49.1	180.1	85.7	154.6		147.7	301.9		, 16.6		0.4	12
1987		33.4	5.0	157.9	34.7	93.0 04 0	218.1	318.6	187.3	57.3	0.0	0.0	12
1980		33,7(2		-143.3	0.0	84.0	194.2		150.0	36.8	0.0	7.9	12
\bigcirc 1989		161.1	60.4	144.5	25.2	48.2		293.6	228.5	46.1	2.1	0.0	12
199		2916	124.1	15.0	12 17 st	107.15	279.4	287.9	123.1	4.4 (36)	2.1	0.0	$12 \\ 12$
199		25.0	35.0	58.5	55 V	33.	254,8	223.3	157.0	64.4	3 . 2	\$ • 4	12
(† 199		52.1	41.5	1,58.3			209.5	291.7	190.1	24.1	0.0	0.0	12
£90			54.8	25.6	31.2	120.4	264.3	174.1(30)	97.0	0.2	11.0	0.0	12
199		0.0 30.4 -		127.7	59.4	<u>4</u> 9	162.0	252.9	99	-99	-99	- 99	8
		و المحمد بن عديد مراجد بن الارتبار	میں۔ وقت جانا ہے کہ میڈ کار بار اور اور اور اور اور اور اور اور اور ا		. 22.5	<u> </u>	231.9	239.7	143.1	29.8	5.8	4.3	
0 199 	5 6.0 n: 13.4	و المحمد بن عديد مراجد بن الارتبار	57.5	.94.2	. 72.5	:09	231.9	239.7	143.1	29.8	518	4.0	

-

()

(}

· · · · · · · · 5-1 .

DAILY GAUGE HEIGHT AND DISCHARGE AT AKAKI GAUGING STATION OF AKAKI RIVER (1981 – 1993)

×

v Gage Height, in Meters, and Discharge, in second - Maters, of . AKAKI

PROVISIONAL MILITARY COVERNMENT OF SOCIAL NATIONAL WATER RESOURCES COMMISS WATER RESOURCES DEVELOPMENT AL Drainage and 884.4 Square kms. Obligher 400

Ne AKAK	• • • • • • • • • • • • • •			For the	Year Endin	g December	31, 198/
---------	--------------------------------	--	--	---------	------------	------------	----------

_										ويعتد بدريم				Dra	inage	•••• 834	1.4	Squ	are kma. Ol	014 Met		\sim
Þ	L	JAN	UARY		FEBR	UARY		MAR	CH	ļ	API	RIL	>		MA	¥		្សហ	NE		յվլ	.Y
, á	Gage height		Discharge	Gage		Discharge	Oage height		Discharge	Gage beight	_	Discharge	á	Gage height		Discharge	Gage height		Discharge	Gage height		Disebar.
ĺ,	17.0	Į_	1 2.2	0.40	,	0917	240		0.917	056		1.120	1.	0:40		1:120	23		0.641	0:39		C'S:
2	1/2		1.120	140		0.917	.40		0.517	[JY]		2.676	2	.45		1.452	:37		2641	-39		
	14		6917.	.40		6:213	144	1	1.335	136		2.920	3	43		1.837	. 34		3641	43		133
	₁ <i>4</i> ,5	•	6-212	. 4:		0.913	:52		2.313	:10		2013		10		0.917	.37		9 64%	12		K. 3.
15	§.⊴2		1 11 1	4-		n. 917	12	<u> </u>	5.662	1.14		3,373	5	19		0.221	.25		2:129	.46		1:1-
) r	47	Ł	and the	4		2.717	·17		3.072	•64		4.303	ه ا	39	i	0.82.	<u>: 3</u> 8		2227	14		19-
1 1	1 - 40		1913	14/0		0.917	ſΥ		2 626	1.49		1.942	į,	38		0.229	-38	.	0:729	141		1 45-
;ε 1	-40	1	0.914	1.10		0:717	148	!	1.338	·44		1.333	6	-39-		0.327.	:52		0.72.5	1.7/		5.20
1 9	125 - 137	1	6.612	-40		0:717	:42	.	1 12 0	112	·	1:12.0	۹ ا	- 32		0.729	·37	¦	0 641	[:J2]		0 3
0	· · · · · ·	· • • •		•4		0.911	-41		1.012	1 1/2		1.120	10	Ľ.	ļ	2.729			CC41	-14		4.5
1	:41	•	. 1.612 .	. 40		0.9.17	:42		0:917.	41.	••••	1:0A	11	:37		0:641 .	-38		0729	54		3.30
12	2 41	· F	. <i>1.5.1</i> 6	5		2.483	1.40		5.917.	40		S. 517	12	131		2 641	38		2325	1.1		3.33
	: 40 : 40		1912. 1912 -	4.4		1.120	-40 -44		0:512 1:33X	49		1:338	13	-36		822.0			01175-	1:37	•··· •	5:4?
15	14		· 212	4		1.017	-14		1:331	43		1.227		-3Y -37	}	0.729	·38 ·78	i	0.729	:10 :60		5.22
1 15	41		1.20	1.4		0.917	148		1.815	15		2.920	1)5		1	0.641	38		2729	108		13.9-
	1.41		1.017	.4		1.227	Q		2.073	52						0.727	39		2.821	.19		F
19			1.120	4		1.017	45	-	1-452	:60	1.1	2.343	1.	1.0		0.641			0.821	.92		3.3
19	- 41		0.917	.4		1007	· <u>5</u> 2.		2.343	43		1.671		38	}	0727	· 34 - 38		0.729	.56	-	9.90
20	1.4.		0.9A	14		2.917	.11		1.570	.48		1.815	2	5 27.		0.641			1540	1.00		x 5 11 x 1
21			0.917	4		1:017	1.42		1.120	-75	†	6.447	1	37	h	0.641	1.58	1-	19.970	1.84	1	80
22			. 2.7/3	. 4		0.917	1.15	1	1.452	63	1	5.255	1	1 33.		0641	:41		LOH	1.24	1	15 .4
23			0 217	.4		0.917	51		2007	1.64		11.208		37		2641-	39	1	6.2.1	110		11.51
24	4. 45		1212	. 4		0.917	.74		7.060	.52	1-	2 343		1	1	0.641	1.38		0.729	1.18		10.74
25	5 -10		0.917	1.35		12.729	18		1.811	.41		3 705	12	1.37		0.641	14		1.120	1.49		26.0
26	0:41	ıl.	1:20	.4	Ð.	0.917	1.72	I	5.662	58		3.226	Ι,	.37	1	0641	-39		0.701	2.92		55.0
27	1.40	2	0.9A	-4		p.911	-64		11.208			1.691	2			0.558	.40		0:212	122		17 9
28			0 729	. 40	2.	0:917	63		4:038			1.570	2	31		0.641	-38		0.719	178		36.8
x			. 4 91}				.72		5.662			1.338	2	1		0.641	110		2.917	1.11		254
x			. p. 9.12.	. ===	==		.88	1	9.020	1.42		1.20	Jх	1		0641	4		1.017	43		176
31	14	2.	. 9.9/2.				:68	·	4.915			-	3	1		0.641				120		12:3
-	अगंभ मेग	Ĺ	29 451	<u> </u>	1	X 28	1	2	2-189	1	. 7	4 306	Γ	1	22	833	1	25	336	1		504 4
Hea	A		0.950		_ /	· 014		2	.651.		3	2.477	Г	1	0 :	737		0.	845			6.27
Male	อส คว		2.545.		. 2	.452			101			. 420			1.9		1 -		189			13.5
	· • ·				4		. .				-											
•		1.									.		-			· · ·		-		.		
Maz	 640		1.120	·	-1	. 483	· · ·	0	020		2	. 447			1.11	c 7		0	an -	-	12	6-160
Mag			1-729			. 72.9	· [···	יאדיייי. איז	917 .		 ת	- 917	1	1.	1 H. D. S	52			920			
			0 1. 1		- 0	10-1		·				<u> </u>		- 1	v_{\cdots}	26		_D_	641	P	_0_	21

Rivez Creek

6-1



13											· · · · · · · · · · · · · · · · · · ·	
/ERNMENT OF SOCIALIST ET	HIOPIA	Teblos de ^g	d		D C +	1. of yea	ι	Jsa half-tentha I	between		1	
RESOURCES COMMISSION		Tobios dos 5-17-2-51	19	90-	From	19814	sept.	1782 (1	19 toF	<i>.</i>	lie Number	
OEVELOPMENT AUTHOR	RITT			•••							District	
Oburrer yes			1					nd lenthe store		ī	ಸಮುದ್ದರ್ಶವ ಕಾಷಿಕ್ರಾ ಕ್ರೀ ಇಂ	
JÚLY	AUGUST	SEPTEMBER	ž		TOBER	NOVE	MBER	DECEM	BER	Ż		
rge Gage Discharge Gag height		Gage Discharge	n N	Gage beight	Discharge	Gage height	Discharge	Gage height	Discharge			
11. 0:39 0:221 1.6	4 31.684		Γ.	0.65	4.915	0.46	-1:570	0.44	:338			
				- 14	4.208	144	1.338	<u> </u>	: 338	\$	•	
1.43 1.023.1.4	18 26.011	:93 . 10.183.		167	4.735	·94	1.691		1:332.	3		
1_ 52 8:343 14				-64	4.208	140	1452	<u>•44</u>	1:338	4		
	9 14-244	V-71 36 133		-62	3 870	YC	1.1152	-44	1.331	\$		
9 49 1.942		1.46 25.425	1	:64 -	- 1.208	·41	1.410-		1.538	6		
19 145 1.452 29		16 16.175				:45	1.450		1.35	1		
5 31. 5:422.13					3.812	-45	1:412	1 - f	1.338	8		
41 52 2.343 13		3:44 118:333		I Z/I	3.076	45	1:452.		1.338.			
9 59 3.383 1.1				155	- 2-772	.47 .47	1:0.52 1:33X		1.338	10 10		
9 59 3:383 15				L.Ŏ.	3.483		1.7.38		1.338			
5.191 5.472 16					7.343		1:332		1.538	14		
5 .70 5.284 13		1.44 24 761		51	8.207	4	1.49	<i>₩</i>	338	н	· ·	
·2 ·60 3.542 2.					8.013	-VV	1.338	·44	1:338	15		
1081 13.976 2.9				149	1.947	.44	1:338		1.338	56	:	
1 3.383 42	21 201.31			:48	1.815	.44	1.338	.44	1338_	17		
1 .92 9.903 11						.44	1.338	.44	1338	13	•	
12 .86 8.567 1.7			39		1942	.44	1:338	41.1	1.050	19		
1 122 11.298 12	19-387		20	X	1.691	.14	1.338		1.338	×		
0 84 8.D7 8		: 76 _ 10_906	21	41	1.691	144	1:338		1201 .	\$ 1		
1.24 18.490 13			22		!.815	.94 -	1:338		192	\boldsymbol{n}		
1. 1-10					- 11815-	:44	1.333	.43	1.207_	23	•	
9 1.18 16.743 18	5 8.347			•	1.67!	144	1.338	:Y3	1.12.1	28		
2/ 211 26 433 1.0	12.000	141 21 02			1.691	.44	1.333		1.238	ъ		
			-			-44	1-338	· 4 3	1227	26		
2 121 17.90 1. 9 19 36.89 1					- 1.57.6	.44	1:338			27	ž	
9. 1 1	22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1510	-44	1.334	:43		28		-
76 75 473 2				1 7/1	1.00	- 99	1333			29	* C	
120 17-3/8 1/			1	1 m	11.5.70	. 44	1.24		1. 152. 1590	.3Q	Period	25
			- 131	1 201				<u>, </u>	·	31	Yest	
504.49	1252.91			- 	80.927		1.636	1	050			
16.274	40.417				J-161		383		324 .	Į	· · · · · · · · · · · · · · · · · · ·	
. 43.588 .	108 250	109 918			6-997		3-597.	.3-3	542	ļ	298:25.4.	
				la de la				1			••••••	
				í				1		1	••••••••••••	
			-	.	· · · · · · · · · · · · · · · · · · ·		•	1.				
176.166	201.3/2		-		5-855		691	1.5			····	
0.821	-8.341	4.915		1	1.570	1 1	338	. 1.2	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		<u>i</u>	

C

: By Gage Height, in Meters, and Discharge, in second Meters, of $Akaki$	Rivar Craek
	C/#e%

PROVISIONAL MILITARY GOVERNMENT OF SOCIA NATIONAL WATER RESOURCES COMMIS WATER RESOURCES DEVELOPMENT A

	AK a	w 3					-			•	• • • •	Cr4							CES DE			EN
-	F1 <u>K_</u> 4					· • • • • •	For	ine i	lear Ending) Decer	nber	31, 19 6-	¢	Drei	naça -	<u>XX</u>			are kms. Ob			40
÷		ANU	ARY	E F	EBR	UARY		MAR	сн		APP	RIL.			мл			JUI	NE		JU	T° LY
2 4 4	Gage		Discharge	e Gage height		Discharge	Oage beight		Discharge	Gage height		Discharge	4	Gige		Discharge	Gage height		Discharge	Gage deight		
	hciphl ·//			.43		1227	·50		2.013	ß		2.170	Ì.	.40		0.91	38	<u> </u>	0.779	·Q.		
1	45		1.333	11	1	1223	11		1.338	4	•	1.570		40		0.213	38-		0.129	62		1
í	.44		1.538	44	1	1.00	:45		1.570	•44		1.333	;			0.871	32		2.129	18		
	15		1.450	49		120	.44	[1-338	-44		1.338	١.	-38		0.727	39	1	0.821_	62		
4	:41	<u> </u>	14-2	1.		1.120	4:		1.120	-14.1		1.338],	110		0.717	:37	ļ	0.729	12	ļ	4
1	14		1.335	1.0	1	1120	:42		1:120	A4		1-338	1.	32	I —	1.729	:32	·	e 22!	- 25.		ł
Ŀı	:44		1:333	3.13		1.277	:42		0.717	:80		7.26.1	1,	15.		2.920.	110	·	0:91H	- 73		
İ٤	-114	ļ	1 338	1.43		1.221	.40	1	0.917	141	.	1:452	6	10		1.512	·:42		0.911	. 62	•	1
•	, v#i		1:33	213		1.017	:38		0.729	42		1:124.	_	46.		1.570	.39		0.821	1.00		
н	0 <i>:4!</i>	 	1.122	1.1	+	1927	-19		0.229	:40	 	<u>p-9/7</u>	<u></u> и	1		12.920	-40	4	0.911 2 821		+-	-
11	1. 1.	k .	1.201			1.021	38		0.729.	-10		5.917	- 1	21		8:483		. 🗠	0.821	.0		ł
1	2 . 44		1.338	170		5:284	38		0.729.	142		1.120		:88		9.020	: <i>38</i> •38	•	2.821	-47	- 14	•
	1.58		1.338	. 11 12		2.073	<u>%</u> 32		0.729	-76 :48		6.447		12. 17.		3.383	4		0.917	ŢŢ		
i.	Sh.		3.226	in		2 013	132		6.789	1.11		1.570	1.	R	1	3.006	1.1	· · · ·	0.917			
	. 18	1	1.815	52	_	\$.343	38		0729	-40		1.338	1	.67		4.735	4	2	1.120	00		
, ,	1 .83		7.909		1	1.570	:32		0 72.7	44		1:338	1.	1:60	Ì	3 542		2	1.120	. :9	11.	<u> </u>
i.	. 58	1	3.226			1.579	38	-	0.729	:42	1	1.120	Ι,	8 12		2.343		2	1.120	- 81	۱ <u>۱</u>	
1	48		1.211	1.4		1.452	38		10.722	.41		1.017	1	9 :41		1.815			1.947		1.	
1 2	0 14		1.00			1.00	·L		0.9/1	JU.		1:338	1	0 1/1	<u>ł</u>	1.4.52	_	_	4.032			
2	4	1	1.452	. :4	/	VOR.	41	2	0.9A	:41		1.017	12	1 1/3		1:221	1.5	ſ .	2.372			÷
2	n :45	1	1.452			b.TA	: 49		0.912	.40		0.717		2 140	2	1.120.	4	9	_ 1.947	. 8	E .	
2	0.44	i	1.23.			0.90	40		0-713.	4	í	1.33		9 <u>: X</u>		1:12.0			1.227	1		
	14 14		1:335			2.9.12	115	· r -	0:11	: 58		3 22.0		a '4'		1.017	14		V.017.	1 2 8		• • •
	n <u>–</u>		4.53.5	_ 46		1.120	120		0.912	- 14		1.338	- 1	is]]		1.120		· · · · ·	- POR			
	26 4		1:02.1.	. 14		1.338	40		2.211	. :40		0:917		10 . 4		1-017			-p.917-	1		•
	27 . 4		1:224	. 94		1:338	. 4	-	- a.7/?	- :44		1.335		n :44		1.120	- 4		-1.815		· L	•
	28 <i>· 4</i>			- 53	3	2.48			<u>. p.9/7:</u>	- :46		1.570		28		1.07	- 14		1.691			- • •
Ł	20 ' <i>4</i> /		1:013	•		an a	.4	2	1.120	E	1	0:917	- 1	n :44	-				2.34			~ *
	30 - 1/2			-		Ē 1	5		2.34		2	<u>e:917</u>	<u>^</u>	30 .4		0.212	. 14		= 1.942			-
1	31 [4]	<u></u>	1227.	<u>. 6</u>	<u> </u>	<u> </u>	<u> </u>		4.91					<u>31 · 3</u>		6.821			<u>到</u>		<u>*C4</u>	
lecte	d-arbr is	<u></u>	54.069	<u> </u>	11	3.084			35.04			52 115	-			50 347			38.46	2		
Me	KM		1.744			:\$37.			1.130			1:737		i		1.947			1.287	- I		
ĸ	LIKER H ¹		4.672	Į	÷	3 782			3:028			4.503			;	5-214			3-323			3
																						• • •
		1	··· ·										-	ļ			1			· · · [- ·	• ·-	-
	_	1.		1															4.038	,		_
M	ciinu II.		7.907		. <i>S</i> .	284	1		4.915			.249		- I	6	1.020						<u>,</u>
H,	1586	ļ	1.017	1.	0	917		.0	1.72.9	<u> </u>	_0	.917				0:729	1		0.729			1:



.

6-3

-12

GOVER			SOCIALIS OMMISSIO		IOrl	4	·- ·	S	Tabin dat 14 251	d 19	90		2.6#.,		<i>f</i>	From	Jan	··-1		-)^-	(Penk - 1982
			INT AUT	HORI	ŦY							- 4	R'C#[Π U.	j —	from	Ser	17	87 to		File Number Distric
imi Of	<u></u>		yes				i				<u> </u>	- T- 100		Uie 1	եսոժո	diha belaw i	ind tenk	ni eba	ve these Sm	iu 1	a a constant da angles.
·		101			100	UST		EPTE	MBER	2		0100	ØER	N	OVE	MBER	C	ECE	MBER	>	
seharge	Gage height		Discharge	Gage height		Dischurge	Gape bright		Discharge	à	Oage height	-	Discharge	Gage height		Discharge	Gage height		Discharge	i	
729	Ω		2.073	85		8.347	.19		5.0.98	1	:41		1.632	34		0.931	34		0 43'	Į	· .
12.1	:62	.	3:870	1	•••••	15:64	1.66		32.411	2	-46		2 207	39		0931	.∆¥	· · ·	0.931	2	
129. 821	:58		3.226	-90 -88		9:471	1.85 175	-	39.610	1	4		1.744.	з¥.		.1.93	34		0.93	3	
329	6-	• • •	2 343	- 62		9.020	1.2		35.754 30.964		53		3-164	34		0.931	39		0.931	11	
21	-95		10.663			5:098	1.38		22-209				3.760	37		1.212	JP JP		P:931		
911		-+-	5.855	.66		4.557	1.98	<i>.</i>	44.24		46		2.202	38		1.313	30		0.95	I,	
91 <u>7. –</u>	-62		3.270			37.664	[-93		10.765.	8			3.072	.36		1.115	-3		0.844	8	
<u>&-1</u> .	Ω	'.	2.073	1.03		12-663	:68		5.5.91	ļ,	41		2.40	38		1.313	34		0 731		
<u>7/?</u>	-51		2007			6.447	- 66		5.242	10			8.418	·42		1.284	1.3Y		0 731	10	1
821	17: 11:		3.383	1 63		12.663	1:88	-	40. 774		:42		1:74.	:37		1.312	• 33		0.244	11	
821	43			VIY		9.248			32.516		-40		1:744_	36	- · -	1115	• 34	· -	1.93'	12	
917	54		2.676	.97		11.151	1.47		15.931			···	1.632	:16_ -27		1:115 1:115	:34 :36	·	0.73	12	
917	.71		5.472			11 647	1.25		18.299		.40		1.522	36 :34		 	3V		1:1.35		
20	1.90		7 269	1.18	· • · ·	16.743	192		10.533	15			1. 416	36		0931	34		0.931	116	
20	<u>,</u> <u>4</u> 1		9:712	153		28.940			6.71	17			1-313	34	_	0.431	36		1.115	117	
120	18/		7:480	1.00		11.898	:64		4.896	18	:38.	·	1:313	134		0931	34		0.931	18	
دي 038	-67.	• • •	4-735	:81		9.248	.64.			19		·	1.313.	<u></u>	• •	1.072	3Y		2:931	19	
922	L 13 - 58		7.120 3.826	1.52		27.115	-62		4.559	Ł			1.3/3	-36		0431	<u>.34</u>		0.731	Į»	
999	36		8:393			110:788 120-938			2.745	12)	:36	• — •	1.115	•34		. 1931	-34		2.731	21	
27	1.01		33 822			93.989	ų (*	ŀ		23	35		1.072	·34	-	0 131	:32 . 33		0.760	22	
y?	55		9.020				1.14		16 pt6	2	_36 -31	• •••	1.022	-3¥ -3¥		0931	32	·	2-840 0-840	23	
P.	192		41 571			10.300	.57	İ	3 960	£	31	• • •	1.022	1.4		0.93	31		0 864	24	
717	-41		2.212	1.71		36.133	.49		2.610	26			0.931	34		6931	32		0 765	26	
25	1:01		12.151	121		19:692	:41	Ĩ	2.079	į27	·3Y		0.931			0931	F F	Ì	2.160	20	_
9/	$J \mathcal{K}$		13.445		•	12:900	111		1:918	Į28	34		0.931	1.59		3431	32		0160	29	
	e of		76.366			\$4.761	49	1.	1.978	20	34		0:931	31		2:93!	32		cut c	20	
142	/ 38		33.80			12 151	-41		1:637	30			a: 73'	132		C. 931	.32		N-760	30	
<u> </u>	<u>160</u>	<u> </u>	39 4"	14	L	15-614				31	37	· · · · · · · · · · · · · · · · · · ·	0.731		麗麗		32		0760	31	Period Year
160	1 		5631			<u>2111</u>	<u> </u>	43	<u>8-120</u>	ļ	<u> </u>	5	2.328		3	5.896		27	.326	Î	
32	Į	Ĵ,	!-3'6		-	5-313			.601			1.	688		1.	130		1.	281	Г	
2.2	ł	3	0.30	Į .	-6:	1:737 .		37	312		5	4	.301	. .	-	669			361	1	171.312
	<u>.</u>			l											•			•			
	-	· -	•	l				• •													
	Ì	ר	310	l	13		•	U		í				Į		• • • • •				1	
29			5-360			(-83)			236		[· · ·····		7.60	. .	,	144		[•]i		1	
	<u>.</u>	<i>t</i>		1	110	553	1	1.6	30	ŧ.	1	0.	93!	1	p	231		1	160	1	

(

6

ye Height, in Meters, and Discharge, in second - Meters, of AKAKI

AKAKS

PROVISIONAL MILITARY GOVERNMENT OF SOCIALIST F NATIONAL WATER RESOURCES COMMISSION WATER RESOURCES DEVELOPMENT AUTHO yes

2.101

5.447

3-915

8.381

22.470

.....

87.61 0.603

River Creek ...For the Year Ending December 31, 19 &3Depinage area <u>55'C'+</u>Y Square kms Observer мач JUNE FEBRUARY MARCH APRIL × ----

 بر		ANUARY		Fł	EBRU	JARY		MAR	сн		APR	11	>		МА	Y		JUN	(E		jui	Y	
1.1	(jage height	Dischari		Gage cight		Discharge	Gage height		Discharge	Gage height		Discharge	۲Q	Gaze height		Discharge	Gage height		Discharge	Gage beight		Discharge	41: 14
1	0.32	0-76	5	3¥ [-	0.731	, <u>3</u> 2		0.760	28		0.460		30		0603	33		0.844	:45		2.099	'~
7	32	0760	· .	s¥		o:731	-31		0 677	-28		0:460	2	.SD.		2603	-38-		1:3/3	38		1.33	1
	52	. 0760		زند ارند		0.814	21		6.577	28		0.160	3	:3].		2.0.9.	33.		3.164	-4.		¢. 931	/
	32	0.760) . I (22		1.072	-30		0.603	:26	·	0:333	4	:31		0679	18		3:911	132		0.160 V	1.
•	3:32	0.76	2	33		1 744	32		0.760	24		6.276	5	·32		0700	57		3.760	31		0.6.9	/
4	2.32	. 0:760		31		0.679	-30	• •	2 623	25	·	0.2.6	6	<u>_:3</u> \	r:	6.160	<u>•15</u>		3:915	130.	-	0.605	/
1	1.32	2.760		31		0.699	.28		0 460	$ \mathcal{H} $		1:333	1	:33		5.55U	:53		3.057	-30		0603	/
i	30	0:760	>]·	32-		2.260	:28		0 160	1 2 7 1		5392	8	. 33		6.344	1411		1:978	: 32		1.313	2
	-32	0.760		33		0314	-23		0 374.	2		0394	9	_3)		0.844	:34	1	0:23!	-31		1:115	!
9	4 JL	0.360	2	32	L	0.760	28		0 460	122		0.394	10	<u>- 34</u>	L	0.231	:46		2.272	•74		0 731	<u>L</u> .
11	32	O. J60		33		2.8.64	18		0460	3.6.		<u>. 2:333</u>	11	3Ý.		a	-52		2119	-33		5 ×44	1.
1;	2 .31		2.	34		0.931	-28		0160	[]]		0.374	12	<u>. vc.</u>		0.931	-46		2.202	-37		1:416	2
1	31	0.61	7	32	ļ	0.760	28		0160	1.28		0.460	13	28:	l	1.022	14	h	2.802	:45		2.:211	5.
÷	i] ∙3/		i :	32.		0760	1:12		2.522.	1.29		0.529	11	<u>- 43</u>	 _	1.859.	46		2:200	53		3.164	<i></i>
- j P	5: JL	a:61:	ī	:32	i	0760	30	_	0.603	131		0679	15	134	i	1.313	·47		1.610	1:65		5.067	
) e	• 3L			31.	Į	0.619	:30		0 603	131		0.679	1	1.0.0		3.915	:30		0 603	172		6.33€	1.
F	1:41.		٤!:	31		0.677	151		0 679	·31		0.617	п	169		5.978.	:44		1.9.18	18.		3-915	3
з II	9	0.76	e l'	32		0.760	30	.	0.603	-31		0.679	15	101	1	14.207	154		3.301	67		5.412	<i>?</i> 、
្នុំខ	0.31	6.67	î.	32	.	0760	.28		0 160	<u>1.31</u>	.	2.619	в	135]	1.022	132	1	1.313	-81		9.251	1.
12	0 31.	1.67	<u>?</u>	32	1	0.760	:23		9.374	-31		0679	x	<u>24</u>	1	0223	.35		1.313	.84	_	8.754	1.
42	1:31		2.	32		0814	26		0.333	31		0.6.79	2	12	· [2.349.	34		0.931	186	!	9.186	1.
1 2	2 32	6.16		33		0.884	.26		0:333	-30		0.603	z	.Y2		1.244	32		0.760	12r		3.329	Ŀ.
2 2	3	0.76	Q.	-31	Į	0.639	27		2.394	.30		2.603.	12	[`n-		0.174	35	1	1:022	1 m		10.553	1
2	1.33.	0.84		-3)	1	0:679	28		0.16	.30	1	0.003	12	73		6.524	1.53		0.844	1.24		18:815	2
1	5 . 33	10:04		134		0.931	1.20		2.529			0603	2			0.276	.31		0.679	100	·	12.1137	1
12	o -33.	084	4	-35	1	1.002	. 25	1	c 216	1:30		0.603	12	37	T	1:212	.40	2	1.522	1.14		16 166	2
2	1.33	0.74		55	1	1.022	1.25		0216	-30	- <u>-</u>	0 4:3	2	1 0	1	0.276	.40		1.522	1.34		21.858	Ŀ.
1,	132	0.76		.55	1	0.844		·	243	.30		0.603	2	.48		2.478	.55		3160	1.01		32.626	14
t	9 32	0.76		7	Ľ	.	24	1	6.223	30		0 603	17			3.915	:52		3 02?	1.20		19.417	5
ž	0 52	0:76	_				25	i i	2216	.30		0.603		1.5		2.822	ĿĴ		3.760	13		20 044	11
	.32	0.10	··· F				12	1	0 374			10183.J.		.4		2.1178				1/3		12 186	
<u>y</u>						<u>+</u>	1 ~ 1			1		1 1 1	ť	1			1	- 1	10 112				- i
	i-meter days	23.242	<u> </u>		1	-352		14	676	- 		15.676	╋	+	<u>_0,3</u>	1.056			63.043			260.60	4-

Маклоп () in na A

6-5

0 523

1.354

0.679

<u>0:276</u>

5.448 .

. . .

2.034

0 120)

0.473

1.268

0.760 0.223

.....

Hean

HADON BY.

. .

0.150

2.004

0.800

0.619

. .

0.816

1.924

1-102 1-699

BY GOVERNMENT OF SOCIALIST ETHOPIA	
VATER RESOURCES COMMISSION	
RES DEVELOPMENT AUTHORITY	

THOPIA	5-1

10/11 doled Poriode of m NOS /1.790 Lic ++ III,

Use half-lenits between

.

File Number

Use hundredike below and tenths above these limits junte Emo Observer yes NOVEMBER AUGUST OCTOBER **OECEMBER** ίσεν SEPTEMBER N£ V Gage O height Gage height Gige Discharge cheight Dischurge Gage 6 Gaze Gage. Discharge Discharge Discharge Discharge Discharge beight height 28-326 1.70 15-495 1.61 16-339 1.37 2.099 /St 1:313 - 1.13 0:931 1:15 0:960 1:16 0.679 0.931. 31 0.840 33 963 .70 34 1 -45 ι 5.961 34-34-0.931 34 e.931 31 0.360 1:313.-3¥. 3-164.-34. 2 Ξ¥. 30.73 2 3309 0.677 2.349 2.349 2.349 12.726 3 3 41 0:731 <u>·31</u> 0 679 3.915. 32 3.960 31 3.911. 30 14.201 16.613 -34. 101 ŧ ._ _ . 1.16 2.931 0.603 9.80 .30 0.619 16.63 184 5 2.887 2.349 2.349 :34 27 0.603 1.38 83.098 .99 12-194 .51 e:931 5 529 6 6 0.529 Ι. 0 603 21.247 34 -34 3.457 -30 -38 1.32 1.08 14.467 6.93! 2 7 17 いちらつ @ 73! 29 2.19 53.617 86 1.313 9.186. 1.978 :13 8 و دی و 1.56 0.93! .56 29.008 1.15 16:339 1.632 .29 1.73! 1.115 9 ·//! .34 <u>. ilī</u> 34 1.529 5.222 32.516 1.93 1.632 0.731 : 11 1.4. 41 15 1 10 0.931 10 2 50 1 ·?3 :34 1.44 25-010 13-11 .39 6:244 п 1.313 .33 0.844 .29 8.25 79.311 11 6.52. 37.601 11 39. 33.965 11 29. 35.805 11 39. 19.402 15 40 1.2.2.2.2.2. 1.416 2.81 0.844 29 / 61 12 83 257 1 313 2.222 0.529 127 422 1.70 2-019.5.59 1.313 0-160 111 :15 2.222 3:164 0:760 0:760 5.460 333 111 895 175 1.313 .28 114 53 2:201 . 1.26 2.52.7 115 2,610 5.067 1.522 1.23 126.132 .29 1.65 6.334 1.69 0:160 0.529 10 172 15.57618 10 0 603 133 682 1.12 1.522 32 20 29 0.529 11 3-915 333 111.895 1.48 1.9. 26.312 11 17 133. 2-349 21 5. 118 333 9.851 121 8.754 1.09 3.307 .67 1.313 -29 1.313 -29 11.895 127 40.373 18 54 1460 0.502 32 3.309 18 12.815 1.744 :32 0.260 28 6 4 3 . 19 23.013 :32 14.929 1.24 .38 0.160 \mathcal{X} 0 160 20 1.313 20 1.529 11 9.186 .94 12. 168. 11 .37 6.260 29 6.931 86 10 978 1.18 1.212 32 32 29 30 -36 0.527 n 0.760 182 1021 -22 8.329 -81 3.146 n 1.160 800 .71 1.115 1.022 12.165 1.896 2 :35 0.160 с 6-5-5 и 5 522 и 0.6-5 10.553 1.35 164 1122 6 19 5.844 50-597 37-267 6-14- 21 11-951 25 30 1:63 29 :24 12-835 :37 6.140 -34 0.931 · Je 1.679 12. 139 1.29 3.0 5.603 30 1.50 6.931 :39 6: 603 125 2.201 26 39 5-262 27 31 47.686 31 0.93! 1 619 ેંડેગ 1500 1.14 16.166 2.45 31 5.603 26 21.858 221 1:022.31 € **€**9 29 1.592 1 509 2 56260 :65 1.2' 3.150 0 537 20 11. 30 1-022 1-115 1-022 31 636 1.90 19-417 357 41.56 35 .96 31 1 179 29 28 Remer 9.136 N 2. 627 -31 -31 36 1.26 124:442 '56 0.060 45.173 :95 20.644 199 0.079 28 3.260 1.30 1233 30 0400 30 Period 79 0460 138-717 1.3! 22 - 26 3 33 10:731 ~ 28 31 31 جر. . . Year 652.565 55 822 24.124 16.962 16:1.561 6.16-3 260.62 0.5%-. 2/ 919 2 12 F 1.301 0 204 8 387 54-215 2 084 1.4156 c (1) 1911-503 5 5/5 11.823 .250% 21.470 37.65 5.961 135-212 99.310 0.931 0.160 3.405 6.6:5 3.20 4.515 1.031 0 603 0.450



6-6

9

9

. Goge Height, in Meters, and Discherge, in second Meters, of AEABA'

PROVISIONAL MILITARY GOVERNMENT OF SOCIALIS NATIONAL WATER RESOURCES COMMISSIO WATER RESOURCES DEVELOPMENT AUT Drainage and $\chi > \mathcal{G} - \mathcal{G}$. Square line, Observer

1) "847	ACALL	for the	Year	Ending	December 3	1, 19,84
------------	-------	---------	------	--------	------------	----------

														Dre	inege i	••• <u>×</u> ×(<u>i- 4</u>	- Squ	ere kma. Ob	larver		
>	J A	NUA	RY	F	EBRU	ARY		MAR	¢Н		APS	11L	>		ма	Y		jui	٩E		jut	Y
	ighl -		Discharge	Ozge height		Discharge	Gage height		Discharge	Gage beight		Discharge	à	Gage height		Discharge	Gage beight		Discharge	Gage height		Discharge
10	27		0.53.9	53 ⁰		0.931	0.32		c]{= .	028		0.160	,	030		0.603	0.3		c: 244	0.70	Λ.	5.961
250	19		0.524	$:3^d$		0.931	031		2.619	028	,	0.460		030		0.603	0:38		1-313	064		4.896
10	14		0.509.	5 5 3			527		0529	022		0 460	3	e.Y		0 645	255		3.16%	0.53		3-164
101	29		c:522	:35		1.432	5:30		0 603	226		0.335	4	0.31		2 67 7	0.58		3.91	0:74		6 716
s e c			9 603			1-800	0 32	İ	5.160	121		0326	ļ ,	032		0.260	1.51		3 214	0 63		4.226
5 D.	30		6 6 6 9 1			6.619	\$ 30			225		02.15	6	633	I	2-160	058	ļ	3:911 -	0.69		5.418
	21		2 5-9	25		673	623		C YEE	126		0:333	,	2.3		0.344	053		3 .60	0.62		4 555
18,2	25		0:52.9	2:32		0.760	0.12		0.460	32		0.394	į 8	C.33		0 844	044		1.978_	061		4 374
92.			0:529	033			021		0.314	cz <u></u>].		0.376	9	<u>e 3</u>		0 844	04	1	0.73!	0.72		6-334
10 2			5.603	<u>c 12</u>			128	┣───	2.460	1.51	<u> </u>	0.394		<u>0,34</u>	 	0.931	046	 	3 662	0:20		5 961
H C				e 32			023	Į	0400	26		0.333.		034		0.931	0 50	ļ		094		10 991
$\Omega[\mathcal{L}]$		· · · · I		¢3≚		1:131	928.	 	0400	<u>427</u>		0.31	Į 12	934		0:931	016	1	2212	0.76	.	7.106
10 6.			2:603.			0 760	022		0460	022.		Q.466.		05		1:022.			2200	113.		15.795
110				032		2760_	0£11		0529	0J9.	·· · ··· -	0 577		013	1	1.852	0.46	4.1	مرمرين ج	172		34-095
15.2;			0-760 0-244	032	1	0760	0.30	ł	4529	e:31		p. 629	1	0.36	1-1	J. US	0.49	T	2.610	1.30		20.645
на				•		0.674	0.30	•••••	0.529			0.619		0.34	11	0.603	0.67		1: 589			61-234
	34			0:31		F_67.	Q 3 <u>1</u> .		0-679.	-		0.639	1	<u>62-9</u>		1:579	1		3.164	1.50		26980
110			0:023.	937		0.160	030	•	0-527	03'		0 677		2.27		0:529	048	T	2.6-5			84 8/2
19 0			0.529	032	ł	2260	078			031		0:615	Ľ	08		2.245	040	F	2.079			33 963
201 <i>0</i>			2.529	<u>r 3</u> 2	 	0460	0:22	·}-	0.314			0.679		040		1.572	089		2.610	1.16		16 613
21 9	· · · · · · · · · · · · · · · · · · ·		c:529.	2:33		0.344	026		0.333			0:677	2			0.931	067	1	5.41			10.992
200			0.603		1	0.844	036		0:333			0.603		030		0.603	4 4.8		2.44			6 910
و (13	-		0.619.	÷3'	1	0.677	° d L	1	2394			p 603	1	19:30		3.603			7.106			36.924
24.0	- · · · ·		0-127.	-31		1.617	CH.		0.460			0.603		1034		2:931	1.58		3:94	1.40		23.72
18 3			2:679	2.3	+	0931	<u>c27</u>		0.529			0.603		sesz	╋╋	2.760	-	1	12. 11			25.22
26 G			2.603.	035		102	225		0276			0.603		0.50		3.022	1.50		6.784			32.516
276	-		0:617	0:25	ł	1.677	C & C		0:333			0.603		1 238	_	1.3/3	121		13-23	45		189:30
28 🧟		••••	0.844	0.33		2.844	024		0.013			0.603		8 <u>0 4</u>		2 098	1.07		12.935			125 6:
19 0		• • • •	0:844	037		2760	97 X		0293			0.603		052	- F	3.915	- 2.25		9:25!	14 16		52.314
2012			0:160			· · · · ·	030		0.603		2	0.603		0 <u>05</u> 1		2.282	07		7:105			111-313
<u>] 1 5</u>	32		0.760.		1	1	1921		0:3.75	4	l –	<u>l</u>	_ 3	1042	<u>[]</u>	2.418				1.2	<u>81.</u>	20.041
	H (17)	19	.534_		23	.441	<u> </u>		1.838	1		676	_		3	6.78			65.111 <u>6</u>	1	9	18.861
Mean .		.0	630		0	808		0	479		0	573			1	186		. 5	:514		. 3	2.221
MERCHE	н?	1	688	Į.,	2.	025			282		1.	354	ł			:178.		. 1	4:292			86.802
		- · ·								- E			Į.	ļ		1						
· ·- ·			• • • • • • • •					• ••	• • • • • • •		••••		-					· · •		1.		•-• ·
Maximum	· · ·	ò	. 844		·	022			760		0	679		1 -		915	Į	0	6.980		. ,,	0.00
Haola			.529	1	-	619.	1		700 233	-	2	276		1	0	529	ļ		2:844			9-383
					~	<u> </u>	- -		<u>~ ~ ~ ~</u>		• • • • •	<u> </u>	4 : -				•		<u></u>			<u>1://54</u>

6-7

NMENT OF SO	101AT 151	. 64743	0.6574				Tebles delle	đ				ા એ કેસ		1	Uie hei	- Mensh	i between			
OURCES COM	MISSIO	*		L	Ş	ept	. 15/14	70			RICT	# <u>]</u>]	IJ	· · · · ·	- <u>-</u>		• • • •		Ede Number	Adda Abez District
brarver				<u></u>			· -··-• ·	••••				Ŭ.	hundri	withe below a	nd lenil		wy these terri		·	
וטנע		,	00	UST	SE	PTE	MBER	۲	¢	0.10	DBER	N	OVE	MBER	Ð	ECE	MBER	۲		
Goge Deight D	lischarge	Oage height		Discharge	Gage height		Discharge	۲Q	Gage height		Discharge	Gage height		Discharge	Gage height		Discharge	v 0 /		
070 5	• 961	1:64	个	31-802	196	1	213.956		0 43		1.859	035		1:007	031		067.1	1		
064 4	896	4.14		169.940			20:01	2	047		1.744	0:35		1072-	<u>93</u>		0.679	2		
		s ith		65-897		- N	11.801	3		-	1.344	0:35		1:072	031	•	0699	3		
		\$ 56	1	70.614			11.951	٠	241	·—	1.632	03		1-472-	0:31		1.617	f.		
		076		11.421			3.447	12	0.41		1.632	235		1:082	030		0603	Ľ		
		1.74	-+	35.434			19 453	6			1.632	235		1.027	230		0603	[]		
	4:559			33.286		- 6	13.949		2.41		1.700	035		0.844	230		0.529			
6 I I '	1. 894		1		p.26		107.842		039			P.33	•	0.93'	2.21	-	0.307	Ľ		
		0.71	1.	6.146	2-14		51.453	12	039 038	• • • •	1.313	034		0.931	078	- ·	A 139	6		
T	<u>5.961</u>		· · · · ·	14:559	1.58	- In	29.691 29.697.	119 111				033		0.844	030		DENS	i.,	Í.	
1	0 998		-	1.4		- 2	r · ·	E	\$37	- 1		034	·	0.931	030	1	0.603	12	{	
	15 175			10.761	170	16-	33 963	6	(1115	2.34		0.931	031	Í	0.61	6	i	
	0 715 34.695		 1	32.275		÷.	6.534				1.313	234	}	073!	031		0.677			
	10.694			9.64	0.64		4.816		6.40		1.500	0:34		0 231	0:30		0.603	15		,
2.261 0	61.234		1	52.79	17 I		4.559		234		6.931	033	1	0.844	130		1. 603	16		
	6980	F 1		93.299			3.607		233		0.840	332	1	0.760	231		0 617	.,,	1	
	4.818		D1	61.694			3.164		034		0.931	0.32		0.760	030	• · ·	0603	ĺ.,		
	3.263				6.50		2.745		0.33	1	a 204	032	1	2.160	629		1 527	1 19	1	·
		144	0	25.00	613	[]	3 164	20	033		5 8 44	1:32		6260	0.79		0529	20		
094 11	0.998	096		11.44	0:10	Ī	5.961	121	637		0.884	0:31		2: 417.	629		0.587	21	ļ	
	910			7.913	6 48	V	2.478	22	033		1.844	0:31		3.697	030		1.603	22	ł	
	6.919			5.597			2.612	· •	233		0.880	2.31	1	0.619	032	I	0760	23		
	3.229			5.242			2.497	124	633		2844	3.31		o 620	0.32		0.784	24	i	
	3 225			14.462			1.309		2.33		1.814	(32		5 -76-r	1.32		NXVY	25	1	
1.66 3	2.516	0.82		9.627	0.46		يرين و	20	0:33		0.844	\$ 32		0 14	0.31		12.619	26		
4.57 1	89:38	103		13.185	0.49		2 612	27	0.33		2844	\$32	1.	6.349	030		0 605	21	1.	
	25.658	019	<u>.</u>	7.308	197		2610	28	1 3 F		0:931	6 32		0,944	030		063			
	2.34		[7.913	5 46		ورد ،	2	034		2.731	0.1		2679	1004		1.99	20		
3 32 1	11.33	143		26.37	:50		9.065	30	033		0.844	t 3	L	6 6	الالون		11000	30		
- L.	0.047.	122		20.047	ry:	E	<u>.</u>	31	034		10.93		120	-	1222		2 000	31	Period Yest	
998.	361			806.57	Ì		471.322	i	i		36.546	1	<u></u>	5 673	1	10	1.067	Ī	1	
	221.	Ì			1			ł	· [177	-		856	-		615	-1-		
		i –		25.857			15.711		ł			·			1		.602		223.1	· · · · · ·
1 - 80	. 802	[69.256	- 1	•	40.773		·	- 3			. /	2:219		. 7	DVE		e.c.7.1	
1		1			1		·	·			·····	-			- 1		· - ·			••••
	-				1	• • •		Į	-						· [•.	• ••				
						1.										-	2.10	Ì	• • • • • • • •	
189		1		69.94	1	•	7.848				359			072	-		844	1		
1 0 1	44	5		1.559	1	6	022	1	1		. 844			677			160	1		

.

: ege Height, in Meters, and Discharge, in second -Meters, of $AEAK_{2}^{\prime}$	iliyar Graek
sage meight, in meters, allo usenarge, in sociale maters, of the state of the social of	Creek

PROVISIONAL MILITARY GOVERNMENT OF SOCIALIST NATIONAL WATER RESOURCES COMMISSION WATER RESOURCES DEVELOPMENT AUTH

Ataki	_for the	Year End	Sing December	31, 1	985
-------	----------	----------	---------------	-------	-----

_	at::									,	nçe.	31, 1982	-	Dra	nage	ana 334	<u>'.4</u>	Squ	are kms. Ot	1907er		
- 	J	ANU	ARY	F	EBRI	JARY		MAR	¢н		AP5	R.	,		M.	¥Υ		របះ	NE	ļ	JU	Y.
5	Gage beight		Discharge	Gage beight		Discharge	Gage height		Discharge	Gage Le ghi		Discharge	Δ Δ	Gage height		Discharge	Orge height		Discharge	Gige height		Discharge
ļ	0.30		6 603.	2:53		1.34	£31		0619					034	1	0.231	r.40		1.502	0.45		2097
	030		1. 10 3	0.33		1.254	32	~~~~	0.603					1.72	-+	0 260	a 40		1.572	0.49		3 610
	030		2. 65	-33		2.244	32		220.0					0.32		:7:-	039		1.416	s 61		4.314
	030	i	:	5.35		2 - S C - S	032		0.603				۱.	c 31.		0.539	040		1.522	9.64		4.596
	031			- 33		5. 2 d C	2.20		o-les					5:33		c zad	6.45		1. 22	he		3.760
	532		1	235		5400	030		0.603			1	6	146	[2 cel	1.42	l	1.522 -	e1£.		3.45
-	C ir		1.10	8-35		C 8- "	330		5 5 2	} .			1	<u>e17</u>	2.12	2.30	0.41	1	1:632	0.14	l:	3:30
- 1	031		2945110	1.35		5184	21		2:512.]			6	<u>o'x</u> ,	Ľ	8.329	241.		1:03c	654		3.30
9	032			533		01-13-5	529		h 12 i.		1.4	1	9	1.51	<u></u>	21.314	0.42		1260	0.54	l.,	3 300
10	c_:_		<u>1. 6-1-1</u>	536	Į	n	0:27		- 12 5	j	 		10	072	1	5 338	042		1:744	053		3.164
ц	Z 31 .	.	5.63	0.36		1.22	025		12622	I			Į D	056		3.602	082		1.744	610		3.60
12	0.32		1. det	¢36		1.115	1		.	Į., .				0 SD	NÝ.	2015	041		1.832	04		5 20%
n	033		1.1386.	036	1.	125	.						1 u	2.14	ļ	1.923	6.41		1.632	070	I	5.961
H	035		1:032	036		1.1.5				ł				6.40		1.22	041		1:637	p(8	Į	5 591
	03L		1.222-	\$ 34		0.73					<u> </u>			0:37		1.212	741		1.632	k 66	Į	52%
16	0:35.			2.54		2.00	ł					· ·	- 24	036	1	1.15	041	1.	1-637	c 67		5.71
r	.4		C. 93	23-		2.7	.			۱.				035	- ·		041		1030	9.6 2.		8.54
16	2.33.		6.514	233		0 844	.							230		1:115	042		1: 2.84	e 8 4	•	8.75
19	a:3¥.		a. 931.	2:32	· 1 · ··· ·	0 760								0.32			042	÷	1.744	. o X 🖸		8 -15
	035.	<u> </u>	1. 022	0.34	-	5. 160	<u> </u>			4	<u> </u>	· · · · ·		<u>236</u>		1.11	042		1.7.44	0:36	ļ	1.18
21	o 34.		. c. 231.	p37		1.160						 	2	038		13/3	043		1.857	0 73		10.2
	a 33.		1. 161	0 53	1	e		• · · · ·			1			1532		1.213	046		2.222	0 T.	.	12.5
	6 [:] 34		9	. 0.33		5 . 64	1							.82.06		1:313	246		2:222	. Y. 25		13:93
	:33		2 884	. 632		160				- 				\$ 57.	. .	1.212	043		1.859	1:22	1	13.6
	2.32	-		2:32		· · · ·				<u> </u>	┢		·	<u>, h st</u>	+	11212	. 3		1-857	+	- i	18.2
	0.33		5-2.44	. 032	4	e.) e. '				·	· ·			10.52	·	1:812	043		1252-	- 156		19.0
	0:33		2-5-24	. <u>0</u> 32	· • ·	<u>(16</u>	. [1			<u>.</u>			1631		1.212	_ 216		3 272.	1:34		. <u>21:</u> S
	9:33	.	2: 34		41.	S . C .			-	0.46		2:011		8 2 37		1.212	041		2 349	_ ! 16		16.6
	6:33		. 2 SiY.	<u>.</u> .			· · · · · •			2.42	p 4			0.3		1.212	. 2.46		2.922	319	ገጥ	101.9
	733		2:25			₹°				<u>k'3</u>		1.10		0039		1.416	75	<u> </u>	2.019	22		1 55
31	033		. <u>0:377</u>			<u>∎:</u>		<u> </u>			17		<u>)</u>	1240	<u>, </u>	1.522				- 6	1.1	. 73.1
ul -	anter lag		15.345	ſ	Э	4 392		-								86.27			53.318	' 1	_	465
		1	818			2.871				T			Т		á	783		•	1.777			15.0
	OH X !		110			7.100				1				1		454			4.607			40.9
	• • • •			Ī											/	••••						
	-							·		-	.	· · · · · · · · · · · · · · · · · · ·	-		·	-		· ·· ·•			• • •	
Kanin			1.022	-		115	··· ··· • ·				···. •••	· · · · · · · · · · ·			2	7.314		 2	349		10	1.04
	.um		0.603	1 i	0	+60.				1				<pre>{</pre>		760		°,	- 116	ļ		.09

.

9

Ĩ

6-9

JTARY GOVERNMENT OF SOCIALIST ETHIOPIA AL WATER RESOURCES COMMISSION

Pariode of UN

Use halt-lenthe batween

ARY GOVER	NMENI	OF	SOCIALIS	T EIH	IOPU	L			Tables defe					1. of use			Use har	- 16 B 1 I	r betveen		
WATER RES				-	***		2.5	≯ ¶	1-25-11	99	@		<i>K</i> ,	C-#	Ц.	/	· · • · • • ·		 	ĩ	file N
RCES DE		rait	NI AUI	нокі	11				· · · · · · · · · · ·					11	undra	dibs below i	nd tend	hi abo	ve these hos		
Square kitu: Ol								# TL									2	• • • • • • • • • • • • • • • • • • • •	MBER	Ī	
UNE		101	LY		¥00	UST	51	EPTE	HBER	>			BER		OVE	MBER	1		NOLR	>	
Discharge	Orge height		Discharge	Gage		Discharge	Gage beight		Discharge	à	Orge height		Discharge	Gage height		Discharge	Gage height		Discharge	٩	•
1.522			1	[不	119.324			36.929	,	0.74		6.716	0.00		1.416	038		1.3/3		
1.522	0 <u>45</u> . 0 49		2 619	2:09. 1.54	· · ·	28.326			23 937		0.73		6.54			1.313	032		1.211	2	i
1.416	5.6/		4.315	189	1T	111.166			16 43		0.69		5.338			1-313	0 33		1.313	3	۰.
1.572	0 61		4.596	3.60	1	93.35	•••	1	12.626		064		4.896			1.313	039		1.416		
1.507	0.0y	-	3 760	1 06		157-573		1	26.98	-	0 61		4.394			1.312	040		1.522	5	
1.92	605	1	3:417		1-1-	19.457		1	25.010		057		3.260			1:20	240	Ι	1.522	6	
1.632	654	1	3.307	1.38	11	83:078	1 ·		30.04				3.607			1.115	ner.	١	1.632	17	N.
1.632	254	1 • · · · ·	3.309			113-110			53.11		056			235		1:022	500		1.652	6	i < 1
1.344	054	<u> </u>	3.301	1 13	11	64:484			14 . 766	1	0.58	ļ	3:16	635		1.022	250	[1.522	9	
1.744	63	l • • • •	3.164	2,22	1 i	105-662		1	40.32			∤	3.91	1.35		1.622	- 02	1		10	20
1.744	656	\vdash	3.607		<u>t t</u> -	65-293	and the second second	 	44 360			†	3:915	035		1.022	0 41	1	1.532	11	Į
1.832	0.66		5.262	5.2		94.42	1 · · · ·		27:30			۱· -	4.072	1		1.000	30		1.632	112	\sim
1.632	· • • • • • • •	1	5.961	- C - C -	19.15	83.07		1	5.778				3.911	0.52		1:022	041	1	1-632	10	ミ
1:632	032		5.597	4 18		165.650			4.232				3.760	~36		1:115	64	1	1:632	1	1 C.
1. 632	66		5242	1 97		91-714	1000		8.00		6.56	<u></u> ⊧	2.607			in C	5.0	1	1.632	115	1.5
1. 232	0.69	<u> </u>	5.3.18	_	-	31.918			10.076			1	3.412	0.36		1.115	. 40	1	1.522	10	$\{X\}$
2	283	1	8.54	1.18		26.317			8.120		054	1	3.307			1.11	070		1.502	1,	1 9
1.240	1202 CXV		8.254			48.90		· - · -	17.648			1	3.164	0.3		1.212	341		1.532	- 11	L L
1.744	1		8 151		I	44.74			20.34		231		2.822	637	1	1.212	1.51	1	1.63	1,	
1.744	- 0.85		9.186	1.78 1.96	1 1	43.95	I · · ·		16.613	· # -		1	2.610	r:36	1	1.115		-	1.63?		
1.857	- 226	1							\$1.85			1	8.319			1.11	1.40		1.502	1,	1 `
	0 93	1	10.761			32.81			21847								041		1622		
2 272	0.92	1	10.53		T	64.0/6	1:50	1 ·			<u>2 41</u>		2.099	237	-	1.2.2.	080	, ¹	1.521	- N.	
2.072	/ 26		13.9.09			105.56			13.334				1.212	· •	1		247		1.500	3	1
1 857	1.05		3.673		1	54 05			12 739		- 1	1	1.859	÷32.,	1.1.1	1.57			1.500	2	
1.857			18.299			101.04	- 1		15 533				1.744	: 16	╉╌	+	- i				1.3
125.7.	1:56	· • •	29 003			1/8 069			9.607				1:632		1 · ·	1.115	031		1.216	2	ş
3.2.2.	13	1	£1: 555			20.04			8 541				1.632	- 1232		10%	120			2	
2 347	16		16.613		· I · ·	27-62		- 1- "	8.120				1.1.1.2.	. 23L	1	10.10	201	- 1 i	1415	2	
. 9 3.12.	37	14	151:04:			12:93			7 3-5	2	1	1	1.5416	<i>9.5</i> ¥	1	. :	6			2	
2 019	2 - A	1 - 1	1 55.810			16.870		5	7.106	3	· .		1.500	e 31		1.0012	35		1 240	P	Perie
	1.0!		73.142	114	6	25.60	> L	해를	<u> </u>	3	<u>104</u>	1	11.22		1日		-33	۸L	106	- [3	i ver
53-312			465.49	/1	. 1	848:12	2		604.22	Æ		10	1078			35.15	· [1	16:922		_ [
1.772			15.022			9.619	1		20.141		1	2	.261			1.1.2	T	1	514		1
4.607	1		40.23			59.682			52 205				733	Ĩ		3 032	i i		.054		
4.001	- I	•	10 13	· [·	- 7	37.000		• • •	Sr dus		Į	ð		1				4	· U2 1		
			• •	ţ						ł	i						· † ··	·	· · ·		
				ł			i.			Į							1.1				· · ·
	I	• •		1				÷		ł	1							-			
2:349		•	1.003	ł		1.515	ļ		311	1			-716		•	.416	-1	1.6	-		
1. 116	<u> </u>	2	· 099	_ E		<u>2 935</u>		_ 4	.232	j		1	416	<u> </u>		922		1:3	2/2.		<u> </u>



.

ige Height, in Meters, and Discharge, in second - Meters, of AFAF.

đivar Craek

PROVISIONAL MILITARY GOVERNMENT OF SUCIALISE & NATIONAL WATER RESOURCES COMMISSION WATER RESOURCES DEVELOPMENT AUTHO Dreinege eres 855.4 Square kms Obierver

ALAKS For the Year Ending December 31, 1986

							r			0898	L	- 4 		sere kma Ob			وحدد مسمد ماه
> JANUARY	FEBRI	JARY	м	ARCH		APR	it.	>		м /	LY		101	NE		jui	<u>×</u>
S Gage Discharge	Gage height	Discharge	Gage height	Discharge	Gage height		Discharge	۵	Gaze height		Discharge	Gage beight		Discharge	Gage height		Discharge
1039 1416	13	16%	0.31	1,212			1259	1	045	1	2 11	033		1.25	o :::		2.01
2038 1313	3	122	0.43		20		1 19%	2	C .32	1		232			0 64		5 7
10:38 1:313	32.	F _ 1	0.50	1.955	1. 19	l ·	5.12	3			2.319	034		····/	$c \leq \underline{c}$		2.27
1038 1.313	. 2.7	1.212	065	5 . 64	296		1.174	4	045		2 6.12	2.3	. .	and the	092		1. 1. 1.
5031		· · · · ·	2.51	2	20		4 . 5	5	14		1.023	(· · ·		<u> </u>	i. i.t.		9.5
6233 1.312	3	1:12		1.1.1	5005		5.22	6	231	I	1.e.2_	:33	·	2.582	0.11		<u>- ر ۲ ا</u>
1037 1312	1.33	1.313		1.00	0.44	ļ	4.516	,	036	I		2.5	I	1.122	0.9	l .'	1. C
8133 1.3.7	031	1			\$0.75	1	6	8	036		125	623	Π.	4	190		1 2-5
8 - 57	2.34		1 -2		0.98		2 473		035	i •	1022	6.38	ļ	132	0 93		
10 0.35 1.513	- 4 h	1	101	an an taon t	1008		1	10	- 2 -	1	1.13	1.12			10.90	l	
n c 38 1.44	- 36				1 49		3.615	1.	074	T	6.16	0.45		2 2 11	1	[593
12 0 38 1.313	0.36	1.115	541	637	0.49		2. 410	¥ .	042	[· · · ·	1.700	0.45		2:1	\$ 39	1	
11037 1212		1.115	1-40	1112	0.51		2.37		038		1.313	0 12		1 26.	64	l	4 896
11037 1212	236	1.115	695	-see	0.80		7.913		1 4 3	1	1.857	050		2 .141	061		1.394
15 7 33 1.20	0.5	1.115	5	112)	542		1.260	j e	Servil		1.973	× 11	<u> </u>	1. 4.11	657	1	3-160
16 5 1/2 1.2 12		10%	$b \in \mathbb{Z}$	1.651	03	.	1. 11	1	5		1.31	C. 15			c 53		2.000
n 7 1.42	- 4's	1:557	199	5 - C -	1:36		1.25		10.38		1.313	253		1. 10.	1.51		3 60
11 631 1.212	652	1.944	60	1.851	030		1.15		\$ 0.32		1.313	258		3.911	6.52	1_	3 012
19 23		1.4%	0.51	3760			3.265		1031		1.416	6.72		6.53	1054		3.302
20 0 36 1.11		1.416		2.11.8		•	2.03		0 0 7.8		1.313	02		10 300		1	6116
1 23 1.02		1.513	1054	3.309			1.364	1,	10.4	0	1.522	6.11	7	5.46	0 86	[1.1.56
2035 1.022		1.212	0.47	2.610	E	151	1 32		2 347		1.2:4	06	4	4.210	6.20		12:9N
20036 105.		1211	663	يريين بير	2	-	1.53		0103		1:012	02		4.00			9 66
21 2 3		2 9 61		1. · · · ·	c3;		1.512		دوما		1.212-	. 6	1	5.000	117		15.59:
3635 1.19	125	1.313		1.55.9	- 6		Luga		s in		1.22	6		3.05			12
20 2 35 1 1 67		1.559	045	2.0%	104	2	1.214	1.	N		0.73	. 05	2	3 :15	0.95		11.233
21 5 55 10 0.10		1212	6,4	1.2'5			1.632		n		C 33	6		4.03			9.200
		1.16	Γ.,	4.859			1.50%				1			11.12			1.2.331
29 C:36				1.744		-	5.348		803		2:13	•	~ 1	19:55			1. 1. 2.
30 0.36 1.115				1.7.4			1632	÷	003		2:23			6.1%			67 800
			2.3						1 03		243				14		25.010
		<u>āl-1</u>	1				96.37		1			1		106 05			31.962
Second - artic ton 369		7.233		66.250				4		_	8.171						
Head		330		2.137			3:213				.555		- ·	3 535	- I		306
NERCH 191 3-191	(J	3. 212		5:724			8-327	j		4	. 16.4	1		9.163		ð i	3 682
					1			Į				j					
· · · · ·									Į			1			I		
Maximum 1.416		2.745	l II i	5.067		<i>a</i> .	.913 .	. [- .	. 1	3-716		17	1.471		6	7.800
Houman 1.02		.022.	I	1.012			622	_			1.931	1_		260	1	3	002

6-11

GOVER	NMEN	T OF	SOCIALIS	T ETH	IOPL	ι .			tables defi	8		-	Perio	da ol u	•		U.a hal	(- he nd	a batween		•	
			DMMISSIO INT AUT		ITY			·									- -	- • •			File Number	
e kmi. Ot								-	· ••• ·	-				UM	hundr	ediha below i	enđ teni	hs abo	ove mese lim	1	Com.	
:		JUL	Y		λUQ	UST	S	EPTE	MBER	<u>></u>		2010	OBER	۸ I	OVE	MBER	ء ا	ECE	NBER	×		
Discharge	Goge height		Dischurge	Gage height	'	Discharge	Gage height		Discharge	å	Gage height		Discharge	Gage height		Discharge	Gage height		Discharge	۲ ۵		8
-804 -260	0.98 0.62	·· -	2.915	122.		18 299			29.003		058_		3.911			3.164	031		0.679			
	e 94. 633		2.621			13-185			11-471 9:406		2.61.		4.816			3:164-	031		0:619	2	ر د ۲	
1.4.44	691		10.533	۲. i		26.692		- '	8.00	L.	0.60			052	•	3.022	0.51		0:675		J.	
2.8	2.26		9.16			16.11.	-		9.627		061		4.394	12		3.001	0.31		- 679		-	
	4.91		15.364	1.26		n:452	1: 6 0	[23.29	6	0.63		4.376	0.51		A.852	a 31		0.6-5	1.	1. A. A. A. A. A. A. A. A. A. A. A. A. A.	
	p_92_		12.076	1		13.603			13-162		064	- · · ·	4. 896	1.50		2 745	o'st	. .	2.645	1 .	3	
	0.96	•		1:82	.	32.449			68.360		0.64		4:326	<u>049</u>		2.110	<u>0;31</u>		265	8	4	
<u>.33</u>	o 93		10.26	2.32]	59.00			33 236		<u>a 64</u>			C 69			<u>631</u>		0.6%	9	4	
2-597	c 95 2 60		19.945 19.993		h	12 425	4		25.66		<u>c14</u>		1	547		2.201.	<u>e:4</u>		3 615	10		
2 0.12				1.11		15 253	Ľ	ŀ	24.07		c (4	• • • •		¢ 46		2.002	o'3!		5 615	11		
714			4.196			16.370		· -	23.229		269		4 875	0.45 UC	ł	7 617	03!	· ·	069	12		
175.		• • •	1.394			H-151	1.03] ·	13.185				4.8.26	2. <u>45</u> 5-44		2:02?	<u>03</u> 0 930		0.63			
	62		3.760	1.30		22 165	12		27 60				4.896	-43	[1-859	030		003	15		
2:022	1		3.164			\$7.314	1.60	1	30.373	10	0.68		5 597	C.82	Ι	1.244	0.30		2603	16		
2.150	<u>.</u> 82-		3 172	1:84.	l	39-218		 	10.265	'n	258		3.915	6:41	.	1. 537	0:30		2.6:3	117		
3.91				J-63	1	31.447	671		10.304	18	<u>- 58</u>		3.91	700		1.538	0:30		2.6-3	10		
2.5	· · · · ·	·		150		19.005	6		854		25?		4:42	139			63!			19		
D C			6.146	1.25	<u> </u>	11-165	T	 	2.106		0.60		<u>ج، تر انت</u>	- 59	 	1.0%	k31	_	- 629	20	3.1	
-	294 			1.40		33:329	1		9-156.	E	0:6!		4 3 2.	: 38		1.3120	031		2 619	21	~	
	1,70		5.961		÷ .	12 165	101		12. 686	1		· ·	2	: 32		102	اي ہ	Į. –	5.6.9	n	1	
	636 1 12			1.22	- ·	18:399	o 68		.5.59?	1			4.2.18			1812 .	o:3!		e 62 2	33	- ×	
•••	: 11		(3 - 8795 7- 1875	22	1	55 816 38 449	697	·	4.310	24			21 829		1		:31	· .	1.679	24		
3-22				18	t	17 168	n 6		1.081 2.927	E	6.58			1.5	 		'دم	+	A. 401	25	, j .÷	
9 2.34 E. 2.34			4.25		1	27.987	*	t	3.27	1	25			= 35	ŀ	0.931	e3'		2.5.5	26	5.C	
				0.76	1 1	11.44	0.56	•••	3.600	£	237. 1956		3 200	E	1 ·	5 . 59 S. 1.	e*3 !	1	0 015 - 630	27	a l	
				153	1	19 307	E .	· -		F	- 56		3	- 33	ł.		23 23		- <u>639</u> - 639	28 29	A A A A A A A A A A A A A A A A A A A	63
	2.10		12.810	F		48.492			4.071					- 32	†	e dec	33	- · · ·		Ľ.	-	()
	100			3		11.116	1220	≞≘		'n	· · · /		3.301				23.				Feriod	
6 057	;		not.	ĥ		489	1	15-55	115.729	-	1	10	5 346	<u> principality</u> L		56.903	<u>. </u>			31	Year	
535				(· · ·		5.371	f		<u>5.860</u>		+			{		1.897	ļ		20.593			
163	2		م م م	1		2.631	ł		1-108.				4.366				£		664			
105	Ì	- <u>7</u> .	4.21).	-		1.031.	· ·	9	⊿. <i>⊪</i>		1	1	1.694	Í	. 4	4.916		I	179		.192:225	
	1					· · ·		• •		1	1	• •					ł	••••		Ι.		
	ί.			ì							1 .				••		1.		· • · • •			
.21	E	62	320		S.S.	816	l	60	.760	Ł	1		964	i -	0	.164	-		() (1	774 x 4 x <u>x</u> x y	
40	F	-	22.2	. '		471			-160 . _607	L	1		896.	·		104 1760	1		67.9		· · · · · · · · · · ·	
		· •	••••••••••••••••••••••••••••••••••••••							<u> </u>	*		· 20.1	<u> </u>	v	100	<u> </u>	0.	603	<u>I</u>	<u>k</u>	

•

 \bigcirc

.

ı.

Bage Height, in Meters, and Discharge, in second Meters, of - A Fabric	
reade the date of the state of	

PROVISIONAL MILITARY GOVERNMENT OF SOCIALISI NATIONAL WATER RESOURCES COMMISSION WATER RESOURCES DEVELOPMENT AUTH 10 410 - 284-4 Saund And Oburger Secondary

Afre La ______For the Year Ending December 31, 19 87

:,											Dre	ainege ai	<u> 980</u>	4	Squ	ere kma. Ob	erver 1	<u></u>	ider is
Í,))	ANUARY	FEBRU	JARY	,	MARCH		APR	IL	7		MAN	r i		101	E		jui	Y
	Gage beight	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height		Discharge	á	Gage height		Discharge	Gage height		Discharge	Orge beight		Discharge
5	031		032		037	1.0:6	042	· •	1.244		034			<u>c 73</u>			0.45		2.019.
:	0.31	0 6.5	0:32		0.41	1.632	s 51.		1 287		<u> 63'</u>			0.61		5.418			1.918.1
	032		234	.c.}6? .	0.35		0.42		2 473	3	0.33		0:731				0.05		2.099 :
	1.33	0.344	0.32		0-31	1:022			4.557	1	127	·		C <u>58</u>			05		2.745
1:	6.31	0.160		2.0	<u>(* </u>	1013	n (4		11.598	[5	<u>c21</u>		1 89	c (3		11.226			1.40
- I (Sec. 3.4	O' 6	r • 1 1		0.37		6 60		4. 837		627	· • · · - • • •	(<u>)</u>	<u></u>		4.072			6.910
1	10, 52,	0.169			076		C92		11-233	1	1221	- 4	1 677	055		3 451			4 232
	1631	0.629.		2-0-	253	the second second second second	e 56		3.607.	•	233	· · · · · · ·	6-340	02		· · · · · · · · ·	Q.54.		3.307
	0 0 32	6.760	0.32	0260	o ts	2:091	60		4.12.6	ہ ا	Q:12		1.522_	6.4		3.915	1.42		1.744
10	0 0:31	0 (-27)	r 72		0.58	3.015	1.71		6.910		0.34		1.313	060		4.394		ļ	11-310
1	1031.	0.63.9	0.32		2:57	3-1-0	2.52		3.92		634		0. 25	680			086		9.136
1	2031	0.619	643	2:349	0.44	1.632			83.413	1 15	432			0 58	.		023		6:574
1	1 2.31	c 6-9	036	1.115	0.50		0.91		11.310		2:3/			<u>c 54</u>		3.309			12. 735 .
	10.31	1.675	\$ 33.	0.944	0 70	5.961		.	7.505		(a.31			0 62		EFT (F)	2:79	1	7.708
	s <u>0 31</u>	c 67.2	032	oilte	4.14		ьH	<u> </u>	4 896		2.32		0:160	0.50		A. 345		<u> </u>	9.406
1	66:3!		031	0.000	<u>:</u> :1		1.55		3-451		503		0.260	c 4f	1		027	Į –	7.708:
i,	31	06.	03	06	646	2:212	0.56	Ι.	3:607	в	12:30		0.760	045	·		0:89	1	9.85!
- Li	8K3L	0.635	0:30	0.603	041	2 349	0.52		3.022	10	0.32	2	0:160	042	ļ.	1.7.44	1:02		12.935
	10.31	6.675	0:33	6 X41	0.30	1:115	0.50		2.2.45	1	232			¢4.	ــــــــــــــــــــــــــــــــــــــ	1 632	<u>a:99</u>		12.194
2	0 0 31	0.619	6:31	1.416	100	1.522	048	١	2.478	2	0 <u>2 </u> 3	·	1.212	040		1.522	088		961
	10.31				12:31	1.416	6.43	Ţ	2.93	2	105	1	4.077	045	1	2.099	0.82	4.	8 329
	2 6.3	1 1		0.931	644	1.978	0.16		8 377		206		4.559	941	<u> </u>	1.632	0.82	1	9.851
	1 2 33		034		1 22	1.3/3	0 30		1.513		30:1		7.505	041	1	1 632	299		12 194
	1032			1.282	0.33	0.844	6.36		1.115		4 1.19		14-997	049		2 610	1.01		12.686
	0 32	0.468	0.33	r 52%	h.33	0.344	33		1.212		51.77		36.553			2.349	n96		11.471
	16 2.32		h:33	0.440	12	1.212	0.32		1.3/3	Ι,	\$ 0.8	2	8.29	6 #	7	2.610	132	1	21.247
	0 32		0 33	1 843	0.37		03		1.212		10.6		4 932			1.859			8 969 1
- 1 - 1 -	032		0.37	1.21:	0.43	1. — . I	6.38		1.313		8 0 7		7.505		1	1.7.04			8 754
· · •	0 33			10.	0 81				1012		006		4.232			1.244			11.471
	0 33				6.45	2.099			1.212		0.5		3.607			2.20%			12.194.
					0.51						103		7.9/3		1 1 1 1		1.06		13.949
- i	11 0:32				10:21			: . .	<u> </u>	-	103			<u></u>		<u> </u>		~1	
- See	é-anter fey	22.60	2	5.203	_	80.952			127.72				0 293			95.519			218621
1 140	om	.0.329	Cr	900		2.611			4:258		.	3	. 28/	- I		3.184			8.665
н	INON M?	1.953		12		6.994	<u> </u>		1:036				:394			8-253		,	23.202
l																			1
- I	••••••	.			.					-		··- ·			· · · -		_ [
1	•··· •·•	· · · · · · ·								[- [.				~				1.207
	12.00	0.2.44		349-		9.851				•			. 553			5711	· - · -		
Min	ເສຍສ	0. 679	6	6:3	J	0.844		1.1	<u> </u>	.1	_L,,,_	P.	529.	1		522	<u> </u>		1.244

Biver Creek

. .

٢

3

6-13

7

7						
1. T. C. T. T. T. C. D. L.	fables dated	d Perio	ધ ને શ્લ્લ ર	lse hell-scales between		
ALIST ETHIOPIA SSION			·····		Fds Number	Adds Ababa
AUTHORITY			· · · · · · · · · · · · · · · · · · ·	the share fimits		(conservation and a service s
· (Cloyd.			Use hundredthe below e	······································	<u> </u>	
AUGUST	SEPTEMBER	> OCTOBER	NOVEMBER	DECEMBER	ł	
harge Gage Discharge	Gage Discharge	n Gage Discharge	Gage Discharge	Oage Descharge A	-	
and the second s	059 4:072	19.45 2.099	034 0952	0.37 0.931 1		
18 1.00 12.439	056 3.607	2036 1115	0.931	034 0.931 1		
29 089 9.851	057 3.760	303 1.012	031 0.931	034 0-931		
	063 4.726	1039 1.816	V35 1.072	036 HK		
10 025 6.910	067 4.559	sp:39 y.416	0.35 1.022	0:36 1.115		
910 120 17.930		60:37 1:212	035 - 1-082			
232 0.98 11:951	065 5.061	7 031 0.781	035 1.02	035 1022	. N	
309 113 15. 15. 151	0.58 3:916	8 0:33 <u>e·x44</u>		·····	9	
44 110 14.993	056 3.607	9 0:33 D-844	035 1.027		9	1 1 2
210 1.14 16.066	1.50 4.345		030 1.022		· · · ·	Computer Computer
186 110 33 143	0.71 <u>B.146</u>		036			
574 100 12.439	064 4.896		036 111			┃ ┃ Ӻ┡━━━━━┥
130091 10.304	065 5.069.		0.36 1.11		4	
708 1.73 35.04					5	
406 095 11.033	658 3.916 014 3.309	· · · · · · · · · · · · · · · · · · ·			10	
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
851 1 - 10.804		18 032 0.760			18 2	
935 0.37 8:329 191 1. 12 12-935			037 1.212			
	2019		037 1.812		19 20 ¥	
47 100 12.439 329 091 10.533					,	
	048 2.099		0 035 1.027		21	Į
					20 2	
194 011 7 305	046 2:222	11032 0760			24	1 2 3
171 1.10 12.439			4 034 0931		25	Applied Derctod
247 0:31 7.305				036 1.111	26	= 1 = 1
969. 074 6-716		- 1		0.36 1.111	27	
154 0 23 7:325			034 0.231		26 E	*
17/ 0.27 6.334			1 034 0 931	036 1.111	20 2	
194 112 15.524					30	······································
		11 134 0.73		0:37 1.212.	Period 31 Year	0 f
	1 103.467		30 132	32 723		I
1621 <u>389.111</u>	3.649	0.954	the second second second second second second second second second second second second second second second se			
55 12.553				2.827.	1111.	564
109 33 523.	8 931.	2.55	2.603			
				a martin a construction		Į.
		-			[[
2 20064	a seit "		1.11	1.212	·····	
51 00-	8.754	2.099		- 0.931		
11 11.896	1 1.704	- 1 0. 100	1 1 131	3 - 0 10		

sily Gage Height, in Meters, and Discharge, in second Maters, of AKACI.

6

Ô

PROVISIONAL MILITARY GOVERNMENT OF SOCIALI NATIONAL WATER RESOURCES COMMISSI WATER RESOURCES DEVELOPMENT AU

Creek Al _ SEAEJ_____For the Year Ending December 31, 1988 Near

										_					Dra	nage	*** 78	44	Sq.	uara kmir Ob	ideret Generation		
Ī	_ 	JA	NUA	RY	F	BRU	ARV		MAR	сн		٨PR	11.	>		мА	¥		10	NE	L	JUI	. ¥
	δ Ga bei		1	Discharge	Gage height		Discharge	Gage height		Discharge	Gage height		Discharge	à	Gage heipht		Discharge	Gage height		Discharge	Gage height		Discharj
Ì	10.3	37	7	.212.	036		1.115	6.3]		1.2.2	: 35		1.93!	,	0.50		2.745	234	·	5.931	0.13	-	\$ · c
	203		Ľ		538	1	1 313	530		1.1.1.1	6.19		2.93'		014		1.978	237		1116	(37)	-	8.47
1	303			313.	<u>^ 16</u>		1115	C 11		1.63.2	6 : 9	.1	c :?\$!		222		1.502	0.25	· • •	2.029			3 9 3
	123	18	. 1	313	233		1.45	C 28	_	1:213	0.34	· +	<u>c.25 _</u>	1	<u>^ 3</u> ?		1.3/3	0.45		6-599			3.00
ļ	15	:∠].		313	2 23		1.11:	<u></u>		1.512	<u>c 34</u>		0 73	Į	<u> - 33</u>		133	- 4 .	┟╍╍	1. 11. X.	672		6.53
	• <i>0</i> .			<i>J</i> , <i>J</i>	\$35		1.1.5	23			<i>63</i> 1.	• •	1.212		036		1	<u> 7 6 k</u>		1	6.63 7.58	h · -	3 7
1	10.	38			536		1.115			1-313	: <u>-</u> -		<u> + 115</u>		12 <u>34</u> 12 <u>34</u>		1-527 5-931	642 642		1.531	2.55	-	5.2
	60.			31.3	625	• • •	115	£3		1.11	k 31.		1.002	X.				632	-	1222	2.20	1	2.9
	•P:		···· /	313	5 33 0 43		1313 1313	1. 30		1.15	- 3, ⁷ - 36		1.3/3.		92.24 2.2.2		1 304	(C.). (A) (C.)	1		10 70		12.0
1	10 P_			217	10 48 10 48	<u>}</u> −-	3 47			V.111.	c 36		12:202	1	0 3J			1.56		: 115	0 56	t	9.1
1	11 Ø.	-		1313	0.00	ĺ		\$		1.022	638		1.313		20.34	1	0.931	0.3	I	1.13	12:		19.1
	13/2:			1:373	1.40		1.50%			1.022	6 34		1.3/3		1244	1	1.913	-36		1416	0.95		10.0
Ì				313.	175		3.154			0.731	0.3		3.9%		- 67		1.032	¢ν.	÷ -	1.250	6.00	4	17.10
	15/2			1.313	241	- 	1. 732	4.34	<u> </u>	0.931	DV7	<u> </u>	2.349	- Y	50.31	1	1:313	231		1.416	1 81	T	
	16 0			1313.	242		$(\gamma_{2}\pi)^{ij}G$	2.33	·	@ 93! .	070	11	1.106		15 <i>23</i>]		2 6	ير م		133	- S.		8.0
		-38		1.3/3	132	-	1.075	\$ 39	·	c 731	0.44	11	1.973	ł	n <u>236</u>		1112	2.29		F_{i}	1.12	4	. 15.
	13 0	38.		1.3.3.	0.51	1	1.416	235	·	1:072	<i>03</i> 2		1:313	···	18 6:32		1.072	s Yr	_ [⁻ -	1115	0.83		. X.
	10 0:	3≩.		1313	\$39	1	1.416	6.36			0.63	.	5.597	- 1	19 2.3		· 22	¢.33		1 313			- 7-
l	70 00.			<u>1.313</u>	037	_	1.212	12.35	<u></u>	1.072	011	ŀ₽	1.978		20 6-34		6.931			1 2/2	488		$\frac{ q }{ s }$
	21 Q			1.512	≥ 37.		1.27	:35		1.072	. 1:67	a	4.55		2110:34	E E	0:931			132	1-27		6
i I	22/2			1.212.	0 37		1:212	C 31		1.022		Ū.	2.07	× 14	n[0]]4	-	0:131			- 1115- 15.77	265		#
	23 0			vaez.			1212	23		1.022			1:502		23 a 3 ± 24 a 3 ±		0.031			مردر دمیر ا			20
1	24 0			1:3.12	r.4		1.22-	:3		ويبين ا	2:43		1.55	· .	24 3 2		0.354		- 1	1.25	67		10
į.	25 <u>C</u>			1.2.2	234	1	1.410			1.115	52	T · · ·	3.521	_	20 0 34		e:13!	· 2		و مدين في			14
	26 á			12.12	039		1:410	23	1 "	1.022	1.43		1.85		27 2:31		2:231		· · ·	2.2.5			14
l	27 () 28 ()		••••	1.2.12	037		1212	12.5		20173	1.12		1.745		28 3 3		5.23			2382	E		17
ł.		36	:	1.05	031		1012			2.93	5.7		1.3/3		20 - 34		0.931		· 1	3 3			11.
	30			1.11.5				53		2 93'	e 42		1.74				0.9,1			6:11	2 6.8	0	2
-	31 4			1.11.5				c3		0.93					31 2.2		8.240				EFF.		16
Ŀ	lease(-) at			9.413	<u>-1347</u>	11	664	1		.569		50.3	5			30.	877	- <u> </u>	SV	-544	1	20	2.8
ľ		רקים אט		271.			(37		1.0			7.0					r7	1		689	-		446
i	Mean	H2		405	-		4.27 600			100		2					095			367			:30
ļ					-	•				••••												· - ·· ·	
ł					l				• • • •	• • ·		· •		·							- 1		
Ì		•••••	· · .	1.572 3.164				- - -	1.6	37		2.	66			2	·741		0	022		21	. 64
1	Meximum			-		-	-		7. 0 0 - 7			0 : .	931			. er 1. '	844	ţ		.931		2.	47
1	Minimut	۱	1 /	1.115		1.1	<u>//</u>		<u> </u>	21		0				4_	<u>a Y Y</u>	<u>h</u>		<u> </u>		<u>.</u>	

29

6-15

NAL MILITARY GOVERNMENT OF SOCIALIST ET	HIQPIA
ATIONAL WATER RESOURCES COMMISSION	
RESOURCES DEVELOPMENT AUTHOR	RITY -

34.4 Square Ema Observar _ ____ _____

• •

Pariods of use

-Scal 25/1940 O. P. C # II) U.F.C. 2511988; B P. C # J Kan Scal 1985-12-Use hundredite bolow and leaths obove there timing

	101	NE		ຸ່ງບາ	Y		AUG	UST	51	PTE	MBER	>	•	0010	BER	א	OVE	MBER	0	ECE	MBER
Orge height		Discharge	Gage beight		Discharge	Gage height		Discharge	Gage beight		Discharge	× 0	Oage height		Discharge	Gage height		Discharge	Gige height		Discharge
234		\$ 531	0.42		2.438	1.41		24.047	0.84	<u> </u>	8.754	1	0)5	个	6.AIV-			3.076			1.670
039			642		2.432	1.14		17.448	106		13.949	2	2.86		9 18G.			3 005			1.641
245		2.029	053		3.915	1.68		33.836	126		19.433.		0.76.		7.106		· _ •	2:937			1.614
0.45		2.9.19.	6.56		3.607	1.22		18.299	103		14.46?	¢	0.61		5.228			1 871		•	1.587
144			073		6.524		ļ	25.983	_	ļ.	13.15		at 6		5.202	<u> </u>		2 R06			1.562
643			0.63		H:326		·	9.686			3.62.1 -		s64.	I	1. \$76			2.744	Į.		1. 537
<u>e! ''</u>			25			054	х		070		18.09.6		64	90	4:55%	1		2 684	ļ		1.5/2
040			c 35	1	S.969.			10.016	2		Sisil.		с.н.	14	4_514	ы н.		2.625	ģ		1.437
<u>c 37</u>			0-82		2.913			38 665			8:969		060	<u> </u>	1 232			2.568	.	Í	1.466
<u>~ ~, </u>		12.2	<u>e 70</u>	{	12.006		1.1	53.563	* * * * *	╢╌	77 2.19		260	<u> </u>	0 232	<u> </u>		2.5/3	[1.1144
<u>: 36</u>	· ·		0 86	· .	9.156	4		53 SX3		-	0- 616			4 ~	3.915	- 14 A	- •	1.459			1.423
1.37			125		12 %	e	11	13 . 55	er.		3.613				3.915_		•	2.00		- I	1. 1102
234	• • •	1.116	r		12.076			· 4× 3.3		-	12 39			₽-¦ -	399			2:357		-	1.387
C 1/2 -39		1.284		1	3.106			12 735		1.	91 213		0.68	ŀį−	7.505			2 308	l I		1.343
-39			1.85	†	8.969		11	76.062		†	13.185	15 16	4. 0. 4.	<u> </u> .¥	4.552	[2.215	1		1.375
. 31 131			1.12		15.526		11-	12.935			20.440				4-437	1		2 30	1	· · · · · ·	1.307
- 17 - 17	1		623		8.141	1.64 5.05	1.1	13.638	p		27 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			}	4.325		1	2.127	ł	1.	1.289
5 15 5 3 8			2.79	i	7.308	2	1	1.5.1	1000 00	£1	14 202	18 19		t	4.217			2. 085	₽ ¥	t	1:23
C 53		1 2/3	182	• •	9.627	106	35			\mathbf{F}	24 64 6	20			4.113			2.044	ţ	- "	1.253
- 38		1.02	22		8.329	1.96	1	11 - 11	-	ا بنا	10 7.0		}	1—	4.011		1	2.005	↓ }	1	1.241
- 36		LUS	071	İ	6 161	5 -4	INC.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1:	3.2.3	2		1	3-913			1.966	Ę		1. 275
040		لية من المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع	1 64	۲ I	2.876			13 33			: 7 -	23		t · -	3.817		1	1929	۲.	ł	1.20
			30	1	20.004			ي مين. هرويندي م	N	1.	2.50	24	(* * * ·		3-220		1	1 893	1	ł	1. 175
		-	093	1	10 765		1	18.600	* t	1		25	*		3 634			1 852			1.182
			1.1	1	14. 273	1.2	1	12.035	*		1 3. 5	26	£	1	3 547			1.824	1	1	1.163
			1.10		1 413		1	13 14 1			C 251			1	3. 067		1	1. 791		1	1.155
- 7			112		1. 160	P			C.76	1.2	1.50	28		1	3 380		1	1.760	Ì	1	1.143
			109		1.071		1 -	S			444	12	3	1 "	3 30		1	1. 729	Ť		1:130
		8 1.150	80	- E	3.713			8.56	- 10	4.1	10 016			1	3.223	2		1.699			1.118
्रहर	Z£		1.12		16.870	1	1.	4.1.1	12.01			31			13.149		- EE				1.106
. 5	,D	564	i	192	.233		133	919		25	1.954	1	Į		17 122	1	ć	8 206		ı	1.752
J	. 6	85		7.4	46		30	126		e v	6-55		1	4	. 557		2	290		1.	343
4	1.3	2.7	6	15.	301		80	591	-	63	? :		1 	12	17:5		5	936	Į	3	· 623
						ļ					-							· .		-	
			1.	•											· · ·		-		Į.		•
1	3.0	لمور تشو		0.	644		43	353		12.			1	9	. 186	1		1076		1:	670
	, .g				172	- M		154	1		334.		1		. 149			699		• •	106.

Height, in Meters, and Discharge, in second-Meters, of , AAAA'

۲

– Řívor Crozk

PROVISIONAL MILITARY GOVERNMENT OF SOCIALIST EII NATIONAL WATER RESOURCES COMMISSION WATER RESOURCES DEVELOPMENT AUTHOR Distinge eigen 884.4 Squere kme Oberiver

Araki _____ for the Year Ending Decomber 31, 1989

·	NUARY	ļ ,	FBR	JARY		MAR	сн		APR	n I		1	M /	.γ		ju	NE		jUL	Y	1
Gage	·	Gage		Discharge	Gage	1	Discharge	Gage		Discharge	γd	Gage		Dischurge	Gige	-	Discharge	Gage height		Discharge	1
height	Discharge	beight			beight			he ght		Uischurge		height	- k		beight	7					1
	1.095	.		0.27	243		6.650			1:683		05	↓ 	1.951	655		15.	0.68		3 530	÷!
	1.084	ł	1	0 863			0 383	13		1-300		652		1.957	65		EST .	1.02		10 401	ł
	1.073	1		0. 263				<u>e</u> \$2		1180		02		1.818	055	<u>.</u>	1-2-1	<u>t 2 - 1</u>		5.05	1
1	1-063		1	0.259		i		c 57		1.180	4	056	. _	1.683	6.15		155	6-1-		4.60	Ē
	1.053			0.856			22-6	1.1		1.180	5	6.56		1.683	12		1.57	<u>k </u>		3 100	ļ.
	1 043	P74	1.	4.062		1.1		250		1 185	0	250		1.683	2.52		1.550 -	¥12	·	\mathcal{G}_{1} and	r
	1.034	061			047			0.1		1.96:	,	056		L£82.	616			137	-	2.2.2	1
	1.025	0.55	1.1		0.45			550		0.755		056		1 6- 2	056			1221	:	5 8 8	ł
	1.016	0.63	s		044			151		1.180	9	1.56	· · ·	1853	$\varphi \Omega$	1	1.020	2 °	1	8 22 5	1
	1.007	10-55		1.551	0.44		1		ļ	1.750		056	<u> :</u>	1.6×3	080	ļ		1002		200	4
	0.999	0.54	1	1. 424	047			e (5_		1551	Į II	C 55.	i	1.551	06	. .	2.5%	12		2.0	ł
	0.991	0.51	1.	1.064	042		• • • • • ■ • • • • • • •	252		1.180		056	· • •	1.683	0.57	.	2 091	6		35-165	Ì
	0.983				611		0373		.	1:180		056	<u>_</u>	1 683	066	1-13	3.190	142	4	10:2CL	
	0.976			LAO .	041			252		180		E.C.	<u> </u> _	1.683	0:64	15.	2. 267	12.5	Ú	39.3.3	
	0.965			1:001	0.48	+	0763			1.80		5656	\	1.123	0.3	lċ -	2 099	0.73	!-;	9 902	
	0.961			0.913	2 SE		0:953		1	1180	1	\$ 6.16		1.683	058		1 957	1/32	H	19.31]	- 1
	Q: 954			1.064	0.61	Υ.,	3.254	620	12	0.953		1056		1.673	1.56		1.683	0.81		77:2	
	D: 94			1:064	6.56		1.6×3.	213		1.180	1	80.56	<u> </u>	1.673	656		1:683		1	35.77	
	a. 941	050	. N.	0.953	0.56		1.683	051		1.264		9056		1.633	0.56		1.683	- 4 -97. j		16_927.	
<u>.</u>	0.93			0.953	0.52		1.170	65	4	1.957	2	0055	-	1.551	0.50		1.633	2 86		7.001	
	0.92	2 2.50	<u>.</u> i.	0953	e 43		0.246	\$59	·	2.099		1056		1:683	050	· · ·	1.633	\mathcal{M}	ł i	13 317	
	0.927	050	2	0.953	0 19		0.146	060	×	2.245	Z	2055	. I	_11.037_	. e C	. .	1.813	ر د		22:53	
	0.91	10.31	2	0.953	040	·	2.9.43	12 5	4	1:957	1	0 56			p:61		8.374			11:421	
	0.90			0.953	682		1.130	6 96		9.416		1056		1.683	0.57			· • • •		N	
_	0.70	6 050	·	2953	2.2	·	1.180	590	-	7.922		15 255		1.551	68		1.957	<u> </u>	+	11.43	
	0.90	00.59	211	0.953.	2.40		0.353	abl	2	2.201		6055		1.551	.05		1:951.	1.4	- -	30 11	
	0 82			0.7.83	ESD	<u>ا</u> ا	0.113	1.4	김 . 노	12.767	. 12	055		1.551	60		2.24:			13:04.	
		2 0.4	6	0 553	042	i . i	0:143	09	1.:	4.062	_ 2	10 55		1.551	1.07		16:11		١,		
.	0. 843				074	<u>(</u>]	4.619	26	\$	A.203	- 2 -	0.03		1.551	06		3:120	13	-	. Se Iti	
]	a. 88	r. 🚃			967	<u>1</u>	2.547	pte		2245		10055		1.01	06	13	2399		11	51.1	
	0.87.	s 📰		ŝ	06	2 SI	2.547			ā -	3	10:0	<u>1</u>	11.551	園		<u> </u>	1/25		34 2	
antar daga		<u> </u>	34	. 376	1	31	528	1	87	538	Ĩ			51.104	1		72.721			55-811	
	0.970		1.1	978		1.0	>17			.)51]	.658			2.424			17 924	
CH M1	2.597			9.70			24	1		<u> 131</u>		- L.		1.441.		E	5.283		: 4	18.077	
			-										· · · ·								-
					1.						-	r -				· _					
	. .														ł	÷				20 504	,
aua,	1.095			062			.615				•			957		10	0:.919			30 530	>
ν m	0.276	ļ	0.5	53	I,	0	236	1 _	0.0	753	1	i	. la	551			ext.	<u> </u>		3.190	

6-17

5	1				
~	Teblei defe	d Perio	ode of une	Use helf-tenthe between	
ALIST ETHIOPIA	-Sent 25/14	tio R.C	#1	······································	- File Number { #
AUTHORITY		IO C			- Distilici
<u></u>		i jini sina sa sa sa sa sa sa sa sa sa sa sa sa sa	Use hundrediks belaw	and lenths above these limits	
λυουξτ	SEPTEMBER	> OCTOBER	NOVEMBER	DECEMBER	0.0385
huge Gage Discharge	Gage Discharge	 Gage Discharge 	Gage Discharge	Oage height Discharge	200385
height Discharge	height A 133.5/2	1076 5.005	054 1.424	056 1.683	
530 1-12 13 593 401 1-14 14 152	1.82 37-866			057 1.474	
205 6 2 78.433	1.90 40.518.	3070 3.281	054 1.424	055 1.551	
69 1.70 31 314	1 40 22.105	10.68 3.530		055 1:551	
40 1-28 57-008 401 1.06 11.964	1.16 14-319 0.93 8-694	5 066 3 190 6 064 2.862		est 1.524	
ET2. 130 18.901	096 8:952	1063 2 703		054 1.624	
708 1.22 10.919	1 61 30.485		054 1.424	059 1.424	
223 1.1. 23.973				155 X 1.551	9 43 6 6
NO 1-2 13-593 808 2-61 63-135	112 3.693	10 0 62 9 543 11 8 60 5 265	054 1.424 014 1.424	054 \$ 1.424	
805 5-01 63-135 160 1 6 13-593	098 9.918 092 8.457	12 059 3.099	05Y 1.424	0.54 3 1.024	11 2 2 2 1
401 1.84 38.160	183 6.938	11 259 2.099	258 1.021	015 11.551	
3:3 1.63 73.900	2.07 47.308		13 1.30	054 1.424	M 44 2
108 100 10876			054 N 1 424	DTY 1.424	15 . C. Y Q X '
521 : H2 54:32 763 7 66 02			054 1 1 424	0.58 1.917	
754 : 08 48 139			054 0 11421		18 X Z 10
317 5 62.60	1.31 1.523	10 058 19 1.953	1.424	056 183.	
087 137 21.125	110 13.042			056 1.683	
3/7 1.88 31.766		11 0.60 2.241			
431 220 33.041		2 049 0 846			
511 :52 37 356		21 056 1.683	1 0.54 1. 674	156 1.613	24 4 8 5 1 8 8
437 2.08 48 139	C.9: 2.23		0.15 1.551	CH 2376	
485 2 3 206 64			- 255 - 1.511	- CIT 1.812 . CSI 1.812 .	26 <u>6</u> <u>6</u> <u>6</u>
- 647 3 2X 109.01. 207 3 69 93.362		27 556 1 683 28 555 1-351	<u>656</u> 1.683 658 1.924	1.59 1.818	27 75 75
$\frac{2r}{16} = \frac{3}{12} \frac{c_0}{16} = \frac{33.362}{13.312}$					20
1.1:1213 56 31			- 255 1.151	056 1583	30 Period 0 P
V -V/ 1 81 V 36 91	1. 臺灣 臺灣	31 054 1:2:		05- 1 1918	30 Petiod 0 F
811 1737.30	700 937	72 737	14 00		
199 56:076			1. 467		
27	60 <i>s.</i> 61	_ G. 30A	3.802.	- 4.332	299.111
	· · · · · · · · · · · · · · · · · · ·				
· · ·					
536 833.924	133.512	5.005	1:683	2.390	L Constant
10.919	5 808	0.816	1.30	. 1.424 .	3 3 5 5

•

		Height, in Meters, and A.E.A.E.C		Maters, of . AKAK 			Pl	WATER R	IONAL W	ATER RES
	1	JANUARY	FEBRUARY	MARCH	APRIL	Ì	N A		;v	
0°		Gage Discharge	Gage	Gage Discharge	Gage Discharge	à	Gage height		Jage cight	Discha-ge
u o		1054 11.424	teight 1 Y24	?	065 3.024		0101	2.248 0	69 1	3.704
E E		2054 1.424	0.58 1.957		070 1 3881		258	2.099 0	63	2703
	1	10.54 1.424	056 1.683	0.70 3.84	078 1 5.90	-4	057	1.818 0	42	9.547
Ξ.r		5054 1.420	1056 1633	1.00 10 401 080 5 808	1.03 10.401 0.98 V 9.908		0.56		19	3 245
Max. C. Min. C. I		1054 1.424	060 2.285	0.74 4.619	2.68 1 76-39	- 1	0.56	1.683 0	59	2.099
W (m		1. 424	10:69 3.704	0 68 3 530 0 64 2 867			056	11	60	2 24
2 E		5054 1:424 10554 1-424	0:00 2.20%	67 2547	5.202	10	016	1.683	159	2 09
	1	11054. 1.42.	067 2.54		0.71 . 4.062		054		18	2 241
ਸ ਹੁ ਹੁ		nost 1.424	056 1.683	0.60 2245	066 3.190 2547		060 4	1.551	218 (1.95
		110.54 1:42	654 1.424	60 2215	060 2.845 060 2.945		052		058	1.957
•		15054 55 1.020		059 0.099	260 2.245		05.6	1.683	0 67	3 54
ł		11054 - 1.020	P.77 - 4 21	-1.171	059 8.099		056	· • • • • •	063	2.70
	:	18055 1.551	076 5.005		ora i 1.218		056		,63	2.70
		2055 1.551	070 3.88	0.58 1.957	058 1.957	20	0.56	1.683	074	4.61
ਸ਼ ਨ ਸ਼ੁਰੂ		21 05 1.551.	0.64 2.862		058 1-957	21	058	1.957	070 1061	3.88
Secmt. at Secmt. on		23 054 1.42	6.60	30:62 - 2852-	. 1.957.	23	056 1.	1.683	0.58	1.95
		2054 1.424			068 3530		057		056	1.68
		20 054 1.424	097 8.45	10.58 1.551	0.58 1.917.	2	aft.	1.8/8	056	1.66
ا م آم		21 654 1.12			059 2.099		0.16	10	0.62 S	
Disch.		28 054 1.42 29 054 1.42		657 1.818	094 8932		o:EI L	2.099	058	1.95
Mur. Min.		30 0 54 1.12	Ý 💼 📥	0.57 11:180			070	3.881	057	200
		31 054 1.42		0.74 5:005	4	19	0.64	58.623	<u>ia sie</u> le I	72 57
		Hean 1.440	<u>99.02</u> 3.547	104.03		t		1.891		2.419
		Mean	8.568	1				5.005	-	5.270
		· · · · · · · · · · · · · · · · · · ·				-		- · • ·		•
		Norieun 551 Kinimun -424	10.401	15.006	76.39	Ĵ		3·881 1·424		4.619 :683

. . .

i i i

.

6-19

ERNMEN	T OF	SOCIALIS	e een	OPIA	L	. • •		Tebles dele	4 	2		····	la of un			Use hat	\$-1enth 	is between			[Add 1 A
		NT AUT		ΓY			94	435	\bar{t}	290		 	Rig	-#	11		• • • • • • • • • • • • • • • • • • •			File Number	Diate.co
Observer				·				·· ···· ·· · · · · · · · · · · · · · ·					Use I	wndre	dite below	and teni	h. abc	we there timi	11		
	JUI	Y I		AUGI	UST	51	PTE	MBER	>	00	10	BER	ท	QVE	MBER	C	e ce	MBER	,		
ge Oage		Discharge	Gage height		Discharge	Gage height		Discharge	á	Oage beight	1	Discharge	Oage height		.Discharge	Gage height	1	Discharge	Δ		
4 0.00		2.862		オ	15.274		Q	18.231	-	1.09	11	12.769	~	A	1.818	0.56	ス	1.683			
5 0-64	1 1 1 1		0.33		59.67		1	16.466	2	1.60	tt	29.44	2	1	1-818	056		1.683	2	· ·	
4 0 94	4-1-	8-732			91.08			15 224	3	1.28	1.1	12 499	18		1.457.	0.55]] .	1.55/	Э		
17 097		8:49			62:63			13.047	4	084		6.60	257	_	1.818	054		1.424	•		
45 0 8	╂╂╴	2.547 6.438	1.26		<u>38.96</u> 18:59			12:281 20.481	5	070	╂╂		056		1.818	250	┨┨	1.683	5	۵ ا	
19 66			3 05		100.L 95.99		[-	26 879		0.74	H	5.05	0.I] 056		 1.683	255	F1.	1.683		i v	
45 0.76	- T- T-	6.005				134	ł	20.161		079			016	- [-	1.683	0.50 013		1.917		n n n n n n n n n n n n n n n n n n n	
15 0.72	17	4.045			19.57		-	13.593		070	11		056	- 4	1 483		1.1	1.180		4	
99 69		3.704			20.802	16		20.854	10		1	3.704	· · · · · ·	6	1.683	04	Q.	1.424	10		
15 0.00		5.808			36.517	1:47	.	24.451	n	566	М	3.110	0.55	X	1.693	0.55	12	1.551	111	× .	
275		5.603	200	· - j	44.773		/ 7~	8.457	12	0:65	-11	3.021		4	1.683	056		1-683	12		
1 4.70	1.1	3.281		-4	142.82		¥	13.047	13	0.67	_1	3.318		$\overline{\mathbf{v}}$	1.683	016	119	1.683	13	14 "	
7 1:04		11.437		Δ.	99.32	1.86	·	<u>38.960</u> 19.577		0:63	ക്രി	2.703 2.867		-1-	1.683	056		1.623	14	510	
49 1.61		29751		¥-	39.76		μ <u>γ</u>	27.588	15 14	0.64	×	2- <u>207</u> 2-203			1.683	05F		1.424	15 16	2 3	,
99 X	17	10.401		Ы	63.58		a contra	24-793		26Z	Z	2547	0.54	-j-	1.424	056		1.683		N U	
03 11.12		13.593				126	1	A .669		oite	ΨĮ		050		1.693	0.15	17	1.151	1.5		
3. 1.91	<u> </u> !	43 445			74.87	196		43 048	19	2:09	5		216	-1-	1.683	0 55	11	1.51	19	8 5	
19 0.97		9.661	194		42219	1.68		21.971	20	0.62	L	2597	013		1.30	016		1-583	20	9.	
81 2.18		52-51	1.60	<u> </u>	29:078	1:22		16.46		0:60	1 -	2.245			1.551	25	1 1	1.551	31		
14.0.99		10.113	1.12	.	15:298	/ - -	. . .	12.769	\boldsymbol{n}	058	1.1	1.957		.	1.1551	0:10	·	1.180	n		
57 • 98		9.908				1.50	:	25.48				2-099			1.551	0.50	? . 	1.180	23	5	
83 1.04 13 1.42		11.U31 22.767		·		23	•	6/21		0:19	4	2.019			1.683	15		1.551	24	1 1	
53 1.33		19:843			<u>98 93</u> 30 117	1.22		<u>18-881</u> 13-593		760	1		056	÷	1.683	7		1.57	25	1 L O	
47093		X: 694		· •	28.302			13 573	K			/- 4	255		1.683	0:15 0:55		1-551	26		
7 0.81	1	6.05	124		A 060		• • •	17.064	28	_ [1		056		1.683		-11	1.551	27		
3 2 84	4 E	6.652			A 669		· -	9.416	K	058	-		0.56	- <u>†</u>	1.68 :	5.55		1-551	20		
19 1.35		19.527			33.427			6.650	1.0	~1	1	1.683	1056	17	1.623			1.551	30		
30	11	94.89	1.56		22-588	[<u> </u>			51	154	W	1424				6.11	1.4	1.551	1.	Period Year	
0	14	60.683	1	21	205 228	1	64	4.176	Ī			3.201	<u>5-34</u>	<u>भ्यक</u>	134	1	1 -	18-181	1	1 100	
	^ _	. 860	Ì		4.685			473	t-		_	452	<u> </u>		671	1		.554		<u>├</u>	
1		9.801			3.252	ļ · -		5.67	1			ese [4]						163		332.7	
	0	1.00			J. 438.	[· ·	1.		1	· ~/	1.7	.*1	1 -		:332 .		- 4	103		له . او یک نو . کرمه ا	. د د ت
											-			• •		Į –					
 s				•			•	• •								1			1		
	9	4.89		87	7.22		61	21		5	29	024	1	1.	957	1	1.0	57			•
	à	di	1	10	294	8		652				21	1		424.	1 ···	11	80	1	1	

•

6-20

6

Ĩ

akaki	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Echi

The Transitional G Ethiopian Valleys Developme Water Nescorces Studies a:

	A) Near	<u>U</u> 1	Aki						fcr	ipe J	føer Ending) Decei	nber	31, 19YL		Đra	naga	e /113		Sau	ere kms. Ol	
). 	ANU	ARY	r	EBRI	JARY		MAT	сн		APR		Ľ	ĺ	ми			וטו		
		40	Gage		Discharge	Gage beight		Discharge	Oage height		Discharge	Gage beight		Discharge	å	Oage height		Discharge	Oige height		Discharge	Ga Deij
			055		:551	2.54		1. 21	2.54		1 12:	113		27:5	E,	0.50		1.453	c 50		6.453	1.
11		2	0.54		· • • •	054		1 220	<u>, 5</u> ."		1:22	072		2 2 5],	2 3		0.7.3	· 52		1150	<u>1.</u> 1
]		6 C	056			252			<u>n 57</u>	- ~ -	1.10	1 95		2 . ² C	ł,	1			: 50		6.973	[-:
			673	-	130	174			1.53 7.53		130	<u>نې د</u>		32	ł٠	<u>652</u>			<u> 55</u>			
		3.2	0.55		<u></u>	5 <u>1</u>						160		• • • •	1 3	<u> </u>			<u>112</u>		<u> </u>	ļ.
1		ξ A	054	•	1551	x .	1	1 2 4 2 . 1 - 2 - 2	2.53 0 S		<u>: 3 :</u> 1 : 6 3 !	25			؛ ا	<u>c. 5.1</u>		· · · · · · · · · · · · · · · · · · ·	<u>~~2</u> 652			F
		1	10 55		155	2.52 6.54	· •		256		1 1 4 4 14	¥ 51		1 - 5 1 - 189	11	675 252		<u></u>	50		0 953 2 753	17,
			0 56		1.1.1.1	5			:57		2 Y		• • • • • •		11			<u>`</u>				F.
		; 9 ; 10	ا محمد ا	••••	135	57		1. 77	976		2.5		····		1	دد: ردی	~				2 !	Ľ,
		1.1	0.54			60		: 245	66	[23-	1.50		1.0		1052		1485	1.65		1	T
		1 ₁₂	0.53		30	0.55		1.551	062		2 52 -	C 19	I	0 83		050		0 953	262			
		10	0.55		1 55	0.67		2 5.17	0.12		5 0	2.51		0.953	· .	0.50		0 753	632		14.22	Þ
		1 14	055		1.551	056		1.683	0.22		4.215	0.50		0.953	1	250		0953	6.56		1.67	Į.
		1 12			1 20-	0.54	1.	<u> </u>	<u>c 55</u>		1.0.2	: 50	_	;	- i "	s <u>r. sr</u>			1	┣		┢
		2	\$\$%.			657		010	0.55		1.55	0.52		1.1.		<u>1955</u>		8 733	0.53	1	1. 25	£
	11	j u	0.54	-		0.54	·]	4.6.6	056	∔	1.687	r 52		16	1	1 <u>0.50</u>		<u>e 75 s</u> .	6.25		(.9.5	ľ
	11	18	0.54	·	1124	256	·1	-33	0.56		1.683	p.50		0.253		0.50	┣	0953	151		2:541	- 7
ł			0.54	i۰.	1.180	250	1	1.551	0.51	1-	0 957 1 061	0.50		2953		9 <u>9</u> 9	1-	1.562	<u>c 62</u> 10/53		1.1.1	ľ
		20			1/ 180	6.74	+	1. 2.	2.50			02		2 5 1		0 <u>051</u> 1251	+	1	6.00	╂──	2 867	1
		3	653			054		1,	13:52		29.2	1.5	,	0.05	2		[· ··	,			1	
			6.51		3 :	594	2	1. 1.2.	12	1	3 2					3	1		<u>^</u>			ł
	1		63	1	130	0.58		1257	0.51		160	3.5%				033	1	1 5	14	·	3.3.5	1
		12	0.54		1.1.95	610		2 . 3	06	1-	3	5		0.953	1	\$ 2.57		1 60	30		16 201	1
			1.53		1.32	67	;	1. 1. 1	0.5		1-42-	1.50	,	0.753	_	0 48	Γ	0113	0.92		1 15	
	11		0.56		. £.c	. 25	i	5.71	. 0.51		1273	2.54		0.953		1050		1000	063		3 53:	i I
		2	12.9	ļ	1.424	0.5	5	55	25		1	0.50		2.953	_ 2	<u>8 þ. O</u>		1 ?	115		1: 7.9	1
			12.55		55!				2.5		1.551	<u>c s</u>		1.60	2	0 <u>2.52</u>	<u> </u>	4-122	<u>k</u>	 -	2	
	11		0.5	Į	1.180				0.5		1. 27	<u>\$5</u>		4.252		0.5.	L	12.11	18]	6 6 30	. [
-	j	3	1055		1.551			<u></u>	<u>r 5</u> 2	<u>}L_</u>	1.12-			= .		12.32	<u> </u>	c 953			<u> </u>	4
		lanad	- petar leye		44.34	_		47.60			5962			48.299	5			35.25			10.36	7
		Hr.	R	I	1.436	2		1.70	0		1.923			1.610)			1 153	_		3.679	1.
_		પ્રધ	юк м ¹	.	383			4:11	_ .		5.15			4.17				3.09			9.54	
				.			/															
		١.,		1								.			_[. [
			· · · · · · · ·					4.40	-, 		6.7			0 00						· - - ·	10.0	
			Сер њ	ł.	1.683	- ·	•• ••	4:43	{ -	••	5.60	2		9.908			£	4:431 v 743	1.		18 90	4
		Mer.		1	1.30	<u> </u>		1: 189	<u></u>		<u> </u>			2 742			6	<u>v 145</u>	_!		~ 13	21

Daily Gage Height, in Maters, and Discharge, in second Meters, of $\frac{AKAKI}{Creat}$

3

- 180-

6-21

The Transitional Government of Ethiopia Ethiopian Valleys Development Studies Authority Water Besources Studies and Stillzation Desk

Parlode of use

Uie half-tenthe botween

3

· · ·

Ê

.				Covernment of				,	tablas da l a	ł			Parlo	de of une	,		Qre yes	henth	s between	
	-	-		ent Scudies /		•							· · · · · · · · · · · · · ·							
,	water sw	scutter 51		and Otilizat:	ion pe	SK	·					-						· ·- ·	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	-
yn aran	. 9	liquare kmr. Oj	bierrer											Use)	undr	dins below i	and seast	• abc	ve these lim	
4 4 Y	ļ ,	UNÉ		J ULY		AUOUST	s	EPTEM	IBER	>		0010	DBER	N	OVE	MBER		ECE	MBER	>
Discharge	Oage height	Discharge	Oage height	Discharge	Gege height	Discharge	Gage beight		Discharge	ò	Oage beight		Dischurge	Oner height		Discharge	Oage height		Discharge	¢.
p-953	2.50	C 953	1.48	21.75	2.81	83.00	3.0		92.649		280		5.808	2 <i>6</i> 6		3.530	167		3:358	1
0.7.33	1.52	1.150	118	15.294	LIS	11 435	1 70		77.018	2	20		5.818	063		2.703	161		3.358	2
- 453	:50	0 953	9	3 913	1:1	11 43-	: 21	1	05.5N	3	r 78		5401	063 067		3 355	c.Q		3 358	3
1.953	050	5 933	19	11:434	c.96	7.080	• • • 6		31 225		: 38		5:40!	6.66		3 190	-67		3.358	1.
- 953	052	140	1.11	7 416	6 55	2.01	250		215.2:4	5	. 36		6603	165		7.530	164		3 530	J,
1.953	250	51:13	1	10.401	337	11.25	2.52		67 437	Ā	1.71	—	5603	163		3 355	c. 7 C		3881.	١ł,
12.131	0.50	0.953	101	25 137	1.35	20 181	273		125 915	ļ,	177	[····	5202	1		190	1.70		3 881	 ;
1.653	250	2. 253	1.76	35 018	135	10 - 51	1.50		36.577.	L,	671	t	5005	17		3 17:	800		3 355	1.
		1					-5	2	93 444	ļ,	r. 73		1 1 1	1.20		6 17		1		
	595 -	247	91	9.60	.	i in Linii Suite		h - 1	27 555 121 555	İ 10		· • ·	1. 110	1.2	1.1	2	1.1		1. 1.20	1.
1180	0.60	1.0		171	1.81	1.5 07	1.5		15 251	li.		1	1 5 9	17		12.120	10		3 3:5	1.
	· · · · · · · · · · · · · · · · · · ·		1.45_				L		91.050	. · · ·	1.2		- 610	64	1	3 195	12	1	5 5 5	Ľ.
0.953	2.62	2.12	2. <u>7</u> .5.	9.905 57 26	1.16	35 74	1.90			12			019				14	٣	3 11	Ľ
(933	53	1 6-3	2.15				1.93	1K	4:807	13	-갶		4.619 4.245	kfr.		3.19:	12	• •	2 5.2	1
2953	. <u>- 51 -</u>	1.600	42	13.593	1.32	19.5.17	143	1 ľ	16 466 11 157		177 2.70		3 881	66		3.140	1.5	1	1.3.5	Ľ
	<u>-5</u> 2	1.1.2	01	2.54.	313		106					{	1.063	170	┢┈	3.195		1	3 10:	- [``
X Merica	0.53		2.62		1.64				11:364	110						A from the work of a			2	! "
	<u> </u>	1.05	-43	-3:191	207		1.1.1		12 601	117			1.95	1.6.	-	3. 4		-	1 .	ľ
	:5!	<u>في تو از از ا</u>	:5:	125	177		1 4 2		9.90%	10	<u>k ?:</u>		3.88	10-				· -	1. 30%	-P
0.953	1 62	2.547	1.38	21-452					10 201	10	6.20	2	3.881	1.62	·	3 Kar	<u>46</u>		2.536	15
1.6.	10-53	1	1.20	15- 876	2 31	68-112	r.07	_	9.416	20	<u>(~ 7</u>		388	-67		3 355	1		3. 3. 5.	12
	0. É.I	2 .6;	1.1	17.142	3.35	11.15.25	. 93		8 674	Į.	5-23	: L.	3 705	1.66		3:190	1.14	1 -	÷ 5.	2
				23.1		3 77.454	1.1	1	12:14	22	1 6	7	3.704	263		3 53	1.25		7	•
		1.12	- 3-51	11. 2		1. 1. 1. 1.			11 060	23			: 530	1.13		3:3:		1		1:
1111			1.5	15 82.				.	9 21ó	24	{	- [`	8.900	De:			1			
			20	21.252	7.7	1 5 3.5			S 198				3530	1-13			1.10			1.
	17 %			1000	2	2	. ,		7 250				ESC.	1.	1	,	1			1
					3.4		10		170-		1	1	1.52	11	-		1.		1.1	1
· · - [-[]-					۲			1.102		1									
· • • • • • •					. N 🖓	•	1			28		- 1	33					· · -		
					2=			<u> </u>		. 29			3 33.					t i		
	1.54	<u></u>	C = C	2.4		· · ·	<u>k</u> is		5 -0	×	1 C -	- I-	<u>، در</u> دم ۲۰۰۰ (1
<u>. 12</u>			0^{6}	9.1	13					<u>[</u>]]	15	<u>(</u>								1:
35-25	}	1,0.36	7	655 6	2	1914 95	7		30081				133.49			97 26			206.1	
1 153	1	3.679		2.1 15	2	61-37	2		43 36	2			4.300	5		3.24	2		3369	7
3.07	1	954.		56.65		165 45			19.39			(11.53			8.40		• • •	9.02	
								· -·		-	1	···· - ··								
. ,	- E	• • • • • • • • • • •					-	• •	· •	1	1						· [· · ·	•		١
	. I	· · · · ·		60 /-		121 22		- 91	5.220	-	· · · · ·		5 808	,		- 250			0 000	ŧ
A:631		. 18.90	2	102.68	<u> .</u>		` 						2 601	2	···- · •	3.358			9.908	
0 703	1	0.95	25	7.990	<u> </u>	7 081	<u> </u>	<u> </u>	5 401	<u>.</u>			2 86	<u>.</u>		2.703	1		1.818	1



The Transitional Covernment of Ethiopia Ethiopian Valleys Development Studies Authority Water Resources Studies and Utilization Desk

								ser knoing	; U4CU7				Orel	negi	4199		59	iere kmit. Ob	4/¥47				
 J/	NU.	ARY	F	EBR	JARY		MAR	¢н		AP	RIL	,		M/	λ¥.		ĴΟ	NE		JU	LV		100
Gage	1	Discharge.	Orge height		Discharge	Gage beight		Discharge	Grpe		Discharge	å	Orge beight		Discharge	Gage height		Dischurge	Ozge height		Discharge	Gage height	
he-ghl		2245	663	1	2313	1.54	4	2099	062	Α	2.547		1.58	4	1.957	est	1	1:683	0.96	Ą	9.416	110	<u> </u>
122		1917-	030		3.281	1.5		2547	6:03		2.703	2	0.17		2.099	260		22115	C & L	<u>.</u>		1.2	1
- 4	•	2.055	062		335	44		1957	0.11		2 394	1	1.59		2.194	2.58		1.251	629		5 603		
	-	2.017.	19-	l	1.194	1.19	Į	3.689	CE			14	<u>i i e</u>		2245	cs		1.183	C.91 1.58		12223		·
. 3_		a. 1 03	<u> </u>		7.3	1.50	I —	101	<u> </u>	<u> </u>	2	1 1	<u>^ :-</u>		1 683	1-12 C.60		2 4 4 5 1 2 4 4 5	113		13 273		1—
. · c:			68.		e 15.	11	•	1.952	£		1 557		<u>e:56</u>	t-	1003	6		254	0.89	1	10.151	181	1
1.00		13 8 4 L	680			10-18 10-16		1.623	638 758		1683		0.70		2.881	e i l		3190	1.11.		13 31 1		1
1. CC	١	2.2-5	0 28 0 30		1.3 18!	6.0	1	1.818	0.00	1.5	1-57		all	—	2.818			2.547	113		13 37.		
$\frac{C}{2}$	•••	19.3	1.6		334	in t		1.03		· -	1.812	10	013		2.703	1.60		3/90	169	_	13	1.1	1
÷ ć¢		c.e.+.	1 33	2	4245	1.5-		1.23	6.2		1.2.2		6.59		12.059			2:2:45	029	1	5 603		
1.56		1623	0.66	` `	3172	0:5		1.683	D-56		1.133	12	060	<u>'</u>	à 245			2543			7.763	1. 75	
68	3	1.957	Diê		3.547		1 7-	1.183	4.15		- 1554	11	062	· · · ·	2.245			3358	<u>0 85</u> 1.19		6.270		
160		2245	0:01		<u>, 2394</u>		2	1683	0.55		1551		0.19		1.551	10.00		2241	113	13	17 876		
2.58	i	1 813		1 1	2099			1.663					0.55		1.151		-		0 82	3	7 536	13-1	T
1		1.813		1	3.099			1.683			2 303		055		1.551		6.	1.957			8 93E	12	2
1.57		1.8/8			1.857			1.683			1 818		0:55		1351	05	9 3	2.099	08	211	6225	270	
059		2.09			2.09			1.683	6.5		1683	19	0.5		2 699)	1.551			1359		
Set?		2.54			1933		- i	1.551	0.5		1 / 83	_l	063	11	3-547			1.183		-	17.040		
16:09		3709	1.05	8 !	1.55	10:51	<u> </u>	1.683	4.53	5 	1957		0.II		2.099			1.237		- 1- 1	9902		
1169	.	3.79	603	9	2 099	2.	£	1.683	6.56		1683	22	25		1.8/8	05	-1-	1221			13.317		
s		3.7.0			1 ? 5 :			1.68		- 1-2	4.6.83		0.53		1 683			. 1.683			1-3		
$\psi < j$. 3.7.4.	2 0.5	8	1.95			1.08			235-	7 24	25	<u>-</u>	2245			1 818	14	-1 -	13 04		
\$22			- (-		195	_		1.68			3.19		107	1	3.88			4 619		-I	12 49		
0 81		.6:013			195			1.683 j.683	30E 30E		2 39	\mathcal{I}_n^*	06		3.63			11-24					
10.7	•	. 4.61 2.70			1.95			1.85		.1	2.16		06	_	2.24	_		500			152.06	121	Q.
\$ 163 0 64		2.86	30.			100		2.70			2.09	9 x			1.95		× .	3.531		· •	12.45	92	63
1.7		3.88		2 		06	1 .	0.20			209		25		1.818			424	5/11	5.	14.4	3 12	83
10.6		315						2.09			¥ .		0.1	3 V	1.812			<u> </u>	15	' <u></u> ∡L	42.21	9. 13	7J Y
l arar da	+-	882			73 18			57.2	-		63.25	5	1		6821	•		75.11	31		438-4	2	
	-				3 21			1.84			2 07.		1		220			2.50	3		13.72	ک	
ан. 1904 - Ала	·† ···	a as 10			8.65			21.94			5378		1		5.89			6 48			36.76		
BCN XY _	·++		۲ (۲		£.93	 			1-					· · · • • •									
	•		· ·	- <u>-</u>		-1-			1				{										
		• • • • • • • •		• •	• • •	1						_				Ĩ							
⊃≓u e ,		5015	7		8694			2703			319.0				3.281			4.61.8	.		52.06		
	1	1.68-			1957			1.551			1.551.		<u> </u>		Isc/	Į		1.551	<u> </u>	<u>-</u>	5 60	3	

6-23

Height, in Maters, and Discharge, in second - Maters, of <u>ALAEL</u> Create <u>ALAEL</u> For the Year Ending December 31, 19-93

and the second

1)
	<u> </u>

	E Ethio Nuthori	•				tablan data	4			Parlai	h of un	F		Voe hal	[- Tenif	is holes a							
	lon Des																- -	Ede Number	District	• • • • • •			
				••	- •						tise i	hundr	edths below i	nd has	h1 864	ve these limb	4.		-				
	٨	UGU	sτ	51	EPTE	MBER			010	DBER	к	OVE	MBER	C	ECE	MBER		, 4			<u>ڊ</u>	\Box	
ás: Nazge	Gage height		Discharge	Oage Reight		Discharge	٥	Cure height		Discharge	Oage beight		Discharge	Qage height		Discharge	4	404			-		
1416	110		36.572	121	1	16-170	1	0:}í		4.811	061	Ł	2.394	069	11_	2.245	1	1		C N O	ł		$\left - \right $
1.015	110		13:042			16.466	2	0.75		4.811	060		2.245	0.59		2019	2	₽¥.		LATIONS	-	╋╾┥	⊢ł
(.603) 1.223	108		12.499		-!	1.9.84.3		0:}3		H 431 3.881		ļ	2-245			2.099	3	1751		T D 4 W			Г
8 302			84:146 60-273			34 632 106 614		070		3.881	0:00 0:60		2 245		┠╋╴	2.099	s.	33		W Q			
1.872			57:029		1	30.814		0.20		3.881		-	2 245		T	2:099	6	13		1		1	
0.157		<u>.</u>	36.971	215		51.174		069		3.7.04		X	2245		IT.	2:099	1				╏┇┠	╇	\square
3 3/7	137	<u>.</u>	17-924	220		53.400			1	1.808		Į.	2.245		L-	2099	1	331			£ _	╉╌	
3.82			65 615	3.09		98.203	4		17-1	3.881		N 	2215		.	2 245	9	341				┨┥	┠─┥
22.9			71330	· · · ·		22105				(103		:	2240		<u> </u>	2 245	10	\$\$					
C 603. 2.763			30854 33.480		· •-	He 578				12.769			2099			2 099	11	8			-	3 0	5 8
5.820			17.664			20161 52.506				7.089	0.57	•••	2099	031	1-1-		13	3]			t i	+	
13593			43048		5	87 80				3.530		1-	2099	6.4	1	a 099	П	<u>1</u> []			۲ -	╉┥	Η
17.872	1. 29	5	21.227	1.94	6	14241	15	0.66	X	3.190	19		2.099	6.0	<u>[</u>	2.099		38				+	
7 536	4.		20.161		<u>ц</u> ,	15006				3190	0.59	¥-	2_0.9.9	057	l	a 099	16	30		2	1	╉┤	
\$ 932	144		24:01	113	12	13.872	Įn.	0.69	Ŋ.	3.704	0.13	ſĹ	1.818.	060	.	2 245	n			DISCHAROE	í L	\mathbf{T}	
6:225	3.70		80.493		<i></i>	10 919					Q:£7.	H	1.818	060		2 345	18			- Š			
3.223 13.042			33.864			17.669	19	061	11	.3.358			1.818			2 245		1		õ		_	
9.908			<u>18:901</u> 17:064			153074				3358		-	1.8/8			2 245						+	
13.317	1.82		16:460			24 793 13 042				3358		-	1.818		1 ⁻	2.099		18.3			Į	+-	
4150	2.6		10700 9362	. 50				: 64		2.862		<u></u> {-	1.957	10.01		2099		1 3 1			۲,	╉╌	$\left - \right $
	134		¥ - · · ·	0.89		7.763				2.862		ş	1.957			1.917	1			-		<u>لہ</u>	 2
13.047			12 664			6.652	25			A 362		5	1.957			1901	25	500				Piles I	
12 499	120		11 272	1.81		6.015	25	0.60	-	2.862	0.18	Ľ	1.951	057		2.099	26	444			2		
11.437.	3.34		113 433		ļ	5.202	27	063		2.703			1.957		Ϊ.	8.637					Ę.	1	1
saloż!			_ 2.79		44	5 401				2.542	6.28	I	1.937		j	2.099	28				#1.00 J	╉	H
12499	¥		73.861			5.205		L.F		a Hi		 	1:45			2245					-+-	╉┉	┢╌┤
14 435			31. KI	<u>635</u>	<u> </u>	. <u>H.</u> 811.			11	2.14		4	1.951			a.245		Period			P I	╉┯	┞╴┼
12-219		Y	16_46b.	}		1	-	26	1.	12.347		5		00	V.	2.245	<u> </u>	Yest			1° -	1-	1-1
425-49			121-70	<u> </u>		983.48	-	 		123-724			61 357	T		60 391	L	ļ		- I ⁻	Ţ,	1	
13 221			40.91	 		37 782				3.991			- 2.058)		2141	Į				Second		
31 712		/	16.8 66 F	*		84923		i		10.689	?		.ک325 ک			5736		.290	28	ľ	[Д
	• 					• · · · — — —							• • • • • • •					···•	- • • · · · · · · · ·		∣ ,	+	╞╌┨
	· ····	.												1			ĺ		· · · - · · -		Įŧſ	+	μ
2011			A In		•	7						•••••	0 0 0 0]				••••			<u>'</u> +	4-	ـــــ ۶
2.061 5.603	1	{/	2423		. 11	3.074. 4.81.1.				2369	• • • • •	6	2:394_ 1:818	4	··· 6	1:2.45 1:957		[Ě Š
1 (1)3		<u> /</u> ,	1 1 7.1	E	-	101,1		<u> </u>		a u t	ŀ		1010	<u> </u>	<u> </u>	731	1	<u>l</u>			<u> </u>	<u> </u>	

1	r Gaga Heigh), , 🎍 🖡	in Maters, and	Oischarge	i, in second -						Čre							alleys De curers St	
	ын — — Д У	<u>/</u> _			For	iha 'i	leer Ending	Decei	nber	31, 19.%	2	Drai	naga			وم.	uere tms. Ot	han-va
		ANUARY	FE8	RUARY		MAR	сн		168				M /		,	JU		Ē
	Gige	Discharge	Gage	Discharge	Gege		Discharge	Gege	- 1	Discharge	V V Q	Orge		Discharge	Gage		Discharge	Giş
	height	8.245	beight	1. 8/2	height			height			\square	height	4	3 (50	height	+		beig 17
	1/1	2241	4.1_ 1_2_	1.683	<u>C 1</u>		1.683	054		1-020	1	0.68 0.64		2 567	0.60 0 93		3.245 7.536	
Ì	1 H	2.941	6.6	1-6×3	2	•••••	1.00 ×	0.54 0.54	·····	1326		6 64	•••	2.22	013		4.431	-
Í		8 941	6	2.862	5.5		1.424	0.12		1.250	Ĵ	2.66		311	160		2.946	1.
1		1.9	6.60	1.813	1,5-	1	1.121	2.4		· · · · · · · · · · · · · · · · · · ·	1	9.00. C.C.G.	·		1.55		2.126	13
ļ		1.313	581	6.0%	لىك ب		1.19	ale				6.59		: c -	1.0			
	1	1.55	c 11 .	4.811	c.st.		1.683	c 58		1. 7	ļ,			3.219	158		28.38	1
	/	1.01		2.547	2.50	1	1 683	C.C.		99.1		665		3.04	090		7 446	
	9.7-	0465	9.60	2.542	0.56		1.683	0.18		1952	Ĺ	5.60	•	8211	1 16			Î,
	1022	1.952	6 8 4	1.551	1.14		1.424	64		1.623		657		1.812	. 34		4.69	Į.,
	1105672	1.818	215 2	4.811	c.54	1	1.424	1.12		43 -		0.51		1.21	140		82.10%	1.
	1267	1.812	5.95	10.157	0.54	Ŷ.	1.424	0.56	'	1.683		0 56		1.613	175	ł ·	4.81	1
i i	015	1.111	6.63	3.190	6 14	17-	1.424	014		2.862	1.	0.62	3-E	1.120	0.64	†	2.862	
1	11:036	1.683	6.00	8.245	0.21	F	1.474	66		2.262		260		3.190	1.62		A.541	Ī.
	13/11	. 1.551	058	1.29	17:51	1-	1:151	087		3 3//		16		304	165	10	3.024	\mathbf{A}_{i}
	16 5	1.683	1.12	1.318	054		1.424	0.98	3,	7.908		2.18		1.911	1 63	1	8.2.3	
	11/32	1.683	15	1.6:3	r n'		1424	0.78	Y.	5.001		05		1.818	0 67	19		Ŀ
	1865	1.683	\$j.	1-683	05		1.sri	0.78		5 401		1.56	17.7	1.683	0 62		9.142	i
	19 0.56	1.683	0.56	1.683	0.54		1 683	016	£	3.190		016		1.683	0 69		3.24	
	86.5	1.683	0.56	1.51	0.34		1.424	102		16.919		257	-1-	1.818	070		3.81	Ŧ,
1	21 1. 16	1.683	0.55	1.15)	034		1.424	1.82	t	2.536	12	1 2.2	1	1.683	1.19	1	15.534	
	265	1.623	05	1.551	034		1.424	r -		5.603		0.90		2.908			3.861	ľ
	n	7 1.603	1.0	1.683	a		1424	6.1		4.6.5		13		81.135			0.103	
	24 1	1.183		LIST	C.		1.151	e 10	<i>₹</i>	2.867		03		3.50			•	
t	15 6 14	5 1.420	20	1.151	1.7	- 1	1424	1. hr		1.24		1/9		15-84			2:1:5	• F
	20 6.59	2.051	1.0	1.683	5.54	1	1.420	070		4.619		091	\mathbf{t}	8.823			10.919	- 1
	21 6.18	1.99	10	1:957			1.424	0.93		8.69			i	3.190	0.79	· · · ·	5.603	
	28 056	1.683	056		43		1.429	110	í	13.043		262	1	B.SVI			1	
ł	10 055	1.683	0 20	- 1:683	2.5		1.424			34.24			1				7.531	_
l	x 0.54	1.424					1 424	0.9				0.66		3196			4-619	
	- n 036	1683		<u></u>	0.55			0.7	1	10.19		0261	1 7	0.355			6.001	
			. <u>6336</u> 1	71.779	0.5		1424		عطا			10.61	1	1 2.399				-
	tond new dege	<u>54.736</u> 1.75		<u>71.171</u> 9.56			<u>46:333</u> 1:49	╆╍╸	_	<u>163487</u> 5.45	+-		_	20.215 3.88	+		778.60	5
	Men	9.69	• • • • •	6.20			4.00	· [-						7.60	-1
			·	649			4.00	+	U	1.13	1	-		<u>e:39 .</u>	· · · ·		19.35	1
			•		+			-			1	 						. 1
			i	· · · · ·							-1	.				.		_1
				171.77			7.7.8								ļ			.
	Mct pus	8.245		10.157			683		39	1.243			å	11-125	1.		¥:3⊈3	
		5.465		1.351	I,	<u>l</u> :	424		1.	020		Í	- 7	613	1	. 5	245	- 1

1

6-25

The Transitional Government of Ethiopia Ethiopian Valleys Development Studies Authority Water Mecources Studies and Heilization Desk

tobles dolad

.

Periode of use

	Squere hme Obsener																						
	JUNE			JULY			AVGUST			SEPTEMBER			>	OCTOBER			NOVEMBER			DECEMBER			
Arge.	Gige		Discharge	Cage beight		Discharge	Oage height		Discharge	Gage		Discha:ge	Ň	Care		Discharge	Gage height		Dischurge	Clage height		Discharge	δ 0
30	0.60		8.245	116	4	14.319	1.97	1	43.465	5.70	$\mathbf{\Sigma}$	276.47		226	13	56.11	0 89	4	7.763	1.81	4	6.225	
19	0 83		2.06	1.23	1		2.67	-	75.88	4.08		18.25	2	1.53	1	26 81	0.88	i	1536	0.80		5.80	
21	073		4.431	1:37		11.125	166		76.37	3.52		1.2302	3	1.30		18.501	0.87		7.31.	0 82	.	6275	
2	060	- · -	2.245	1.08		12.499	112		68-41	3.58		126-72	¢	1.24	·	17.064	2.88		7.536	0.82		6 971	4
9!	288	4 ·	7.36	130		18.901	16		21.31	3.62		175-13	1	1.21		1(.316	6.81		7.311	: 21	<u> </u>	60%	5
-72	151		22.435	1.31	- <u>-</u>	19.213	228	··	57.03	HQ_		119.61	6	1.11		14.231	1.87		7.311	0.81		6.016	•
279	LS		28.32	1.02		10.919	4.33		175 60 34 293	<u>1.91</u>		<u>8× 39</u>	7	<u>],14</u>],11		14.112	086		701	2.71		6 11	11
3 15	0.90		7.598	2.97. 1.18		8-45] 15 294	1.H 1:38	1	81.410	1.42	• ·	33-192 31-121	8	1.08	·••	13:317.	0-86 0 81	•···• •	7.029 6.870	13	•	्रमा इन्धाः	
1/2	1		4.69	116.		14.43			12.665	1.16		73 60	9 10	1.06	·	10.41		• ••:	6.870	1.5	ŀ	5.01	<u> </u>
12	140	1	32.105	1.12	Ø	13.593	1.22		16.46		,	36 577	n	2.59		10.157	1.86	,	7.089	1	<u> </u>	5711	1.
.83	175		4.811	1.37		21.145	1.92	Б	11.350		Ĩ	31.21	12			10117	0.85	1-:	6210	1. 21	1	60%	12
15	0.69		2.862	1.25	5		2.0	¢4.	46.843			31.711	13	0.97	M	9.661	3.84		6.60	181	Ľ.,	6.011	13
12.2	1.62	-		1.02		16.466			104:38		88	5851	14	0.97	4	9.661	0.81	{	6.652	18:80		5700	н
<u></u>	<u> -</u>	<u>a</u>	3.094		ļ	11.000	_		142.82		W	12 1/2	15	2.96	AL.	9.4/6	2.24	An-	666	1.81	6	6.01	15 .
1:	ľ.	1 iu	8.703	0.98		9.908	1.60		-9.629		1sts	140.25	łő		Ø	8.932	2:23	ĮΫ.	6.438	2.8	181	6.01	16
318	0 67	-+		1.12		10.663				1	17	14 147			··	8.4(7	1.27	lπ.	6.025	1.5	15	601	17
53	0.69		8.147 3.704	1.72	<u></u>	33.482			81.01	1.64		30.481	18	6.92 692		849	8 24 6.84	. נבן	6.612	3'	Y	6.015	18
1	070		3.81	111	1	33.19	2.89		101 K	1.48	1	35.018	19 20			8.417	6 Y	-	6:652	17 A. 18 M		6-015 1-821	19
~ ?	1.9	_	15 584	1 64		20.485			5 67		+	22 131		1.8		12 491		+ •	6.432	1 50	<u>†</u>	5.811	20
• • •	0 7:		3 81	1.97	1	5430	133	· -·	178.4				12		-	7.908	573	· · ·	6438	5		(316	22
<u> </u>	1e÷		2.703	24		62.63	5.41	I	12362		1	1.392	73			3.513	2.83	1 · ·	6.438	1 34	· ·	5817	
5 1	10.63		2.103	0.70		80 19	3.03		9489	1.36		20 82	24			20.431	084		6 612	I	I	5.8 ×	2.
5.0	1.5		6.617	2.16	_	51.62	2.38	ļ	61.868	1.86		38960	ø		[18.221	28		6925				25
	10		10.919	2.12		52.06	3-78	<u> </u>	131.04	1.51		21.824		1.04	1	11.437	1.87		6335			6207	26
	1223		5.603			AL:39			1322.49		1	c8.41	37	<u>: 1</u> :		2.416	6.61	L	6335	i st		1.1	527
	(\cdot, \cdot)		7.556			118.30		 	3.4			12.32	7 8	1.14		8.93-	1.87	 	1.395	\$ NO			78
1.1.			4.619	4 54		129.40			16.81				29	<u>e: 16</u>		8.415	1.42	 	6.435	1 1			29
	1.2		6 001	199	177	34.24		<u> </u>	103	1.34		5.9.81.			1-1	7.992	1 31		6 015	4 -		5.8.8	30 Pust
· · · ·			<u> </u>	1.16	1.5	31.21	14.94	<u>.</u>	216.21			1	31	0.89	1	7.763			<u> </u>		\sum	5.8:3	35 800
	ļ	922.6ct						8537.39			2 - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u> - <u>5</u>			421.116									
		7.63		31:52		8 8			<u></u>		l	13:59			6.751		5.78						
-			7.31			5.72.	·	8	10.60		:	- 12_	1		- 3	<u>c/</u>			: 57		16	5.02	- Q.,
				. [· · · · -	1				.				•	÷ .	
		. . –		·!						1.	• •		1							1.			
	Į			[جرم ويشر	1.		、						~ ~					
÷		्रम्	1.3 <u>6</u> 7.	ł		9-63	1		3.50	·					تبير	6-16-			369	•	S.		
	P	<u> </u>		1			1	.15	460	<u> </u>	d		<u> </u>	<u> .</u>			I	<u>.</u>	01	<u>أ</u>		ر ۶	11.

6-26

,

...

£

.

•

