

# **THE RUFJI BASIN TANGANYIKA**

**FAO REPORT TO THE GOVERNMENT OF TANGANYIKA ON THE  
PRELIMINARY RECONNAISSANCE SURVEY OF THE RUFJI BASIN**

**VOLUME II    Hydrology and Water Resources  
PART 2        Basic Data Records**



Expanded Technical Assistance Program

THE  
RUFJI BASIN  
TANGANYIKA

Section 1

of

FAO Report to the Government of Tanganyika  
on the preliminary reconnaissance  
survey of the Rufiji Basin

Volume II, HYDROLOGY AND WATER RESOURCES

Part 2, Basic data records.

by

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Rome 1960

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Page 1	Line 3	For Explain <u>ation</u>	read	Explanation
Page 2	Line 16	For Explain <u>ation</u>	read	Explanation
Page 3	Line 10	For read <u>ines</u>	read	readings
Page 3	Line 10	For Cop <u>uchin</u>	read	Capuchin
Page 30	Line 7/8	For meteorological	read	evaporation
Page 42	Line 4	Description of gauge - For 0' - 15'	read	5' - 15'
Page 44	Drawing	W.G. For 5' - 10'	read	0' - 5'
Page 53	Line 3	Description of gauge - For 0' - 19'	read	0' - 10'
Page 57	Line 3	For Plate <u>s</u>	read	Plate
Page 60	Line 9	Height of Bench Mark - For 21. <u>76</u> ft.	read	21.84 ft.
Page 64	Drawing	W.G. For <u>0</u> ' - 15'	read	5' - 15'
Page 67	Drawing	For U/S Slope Gauge 0' - 29'	read	U/S Slope Gauge 0' - 23'
Page 71	Line 4	Description of gauge - For (0' - 18')	read	(15' - 18')

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Information on the Stations are given in numerical order in respect of their codes.  
(See List of Gauging Stations).

Main river systems are coded as follows:-

RUFIFI	1K
GREAT RUAHA	1KA
KILOMBERO	1KB
LUNEGU	1KC

## INTRODUCTION

In this part of the report the basic data records are given on river gauging obtained during the 5 years of the Rufiji Basin Survey, 1955 - 1960. In addition are included the old water level observations on the Rufiji at Mpanganya Experimental Farm (1926 - 1938) and the Zombe Gauge (1942 - 1956) as well as ground water levels in three observation wells during two years at Mtanza. It was originally intended that all these basic data records should be printed in Hydrological Year-Books for the whole Tanganyika Territory, but as such an issue could not be materialised in time the Data are preserved in this volume, and can be incorporated in future hydrological publications.

Twelve meteorological stations and also some rain gauges were established by the Rufiji Basin Survey. Copies of observations from these stations were given to the East African Meteorological Department and can be included in their regular publications if found appropriate. Meteorological observations are, therefore, not given in this volume.

## EXPLANATION OF RECORDS

### Installation Sketches and Records.

A simple sketch was drawn for each hydrometric station and this provides the more essential detailed information as regards the gauging conditions. Bench mark location and height above gauge zero are important records which are given in all instances. Twentyfive of the stations have been related in height to Mean Sea Level (MSL) usually by connection with the Territorial Triangulation Network. It is hoped that levelling work can continue so that all observed water levels in the future can be expressed in absolute MSL heights whenever required. Latitudes and Longitudes of the stations are taken from 1:500 000 Military Map of Tanganyika. Special remarks as to control cross-sections and other factors which might affect the observations are either shown on the sketch or mentioned in the accompanying text.

If and when any changes occur at a station this should be marked on the sketch and explained. Only in this way is it possible to provide the necessary information to field and computing staff which might change from time to time.

### WATER LEVEL OBSERVATIONS

Water level observations were taken several times during a day. The usual hours for observations were 7 a.m., 12 noon and 6 p.m. Readings were also taken between these hours at several stations. Check readings on the staff gauge were usually taken once a day at stations where an Automatic recorder is installed.

Practically all observations were taken by Africans. European observers were employed at four stations only. Missionaries showed great interest in the Hydrological investigations and at nearly all stations in the Kilombero Valley the readings were frequently checked by the Copuchin Fathers who live in Mission centres close to the rivers. We wish to express our gratitude for this valuable assistance.

Automatic Water Level Recorders are installed at nine stations. Owing to a limited budget the number of these instruments installed was lower than originally anticipated, and only the more important stations have been equipped with them.

Specially manufactured flood gauges, the so called Griffin Gauges, have been installed for maximum peak recordings at a number of stations and other important points on a river.

The Griffin gauge is a very simple, inexpensive and useful instrument and can be highly recommended. Description is given on page 6.

Two sets of gauges are often installed at stations, one for upstream and one for downstream readings. This double gauging system gives a certain amount of check on the observers. There will always exist a close correspondence between upstream and downstream water levels. The observers are not always capable of discovering this, thus if the correspondence is found to be correct there is a greater probability that the readings are correct and real. This double gauging system is also an advantage for certain other purposes. The African observers are, as a whole, found to be fairly reliable in their readings, when instructions were clearly given and duties not made too difficult.

Water level observations for stations on the Rufiji, Great Ruaha and Kilombero during 1958 are given in graph form page 7, 8 and 9, and it is of interest to compare these graphs. The flood period at Hausmann's Bridge on the Great Ruaha is found doubtful, but besides this the records coincide very well.

#### AVERAGE AND EXTREME WATER LEVELS

At stations with staff gauges only, the daily average water level is computed as the arithmetic mean of the observed data during that day.

Where an Automatic Water Level Recorder is installed, and the water level can be determined for any time of the day, the daily average, as given in this report, is the water level corresponding to average discharge during that day. Due to a common curvature of the stage discharge curves there can be a difference in the average data, depending upon which method is used for the computation. This difference can be significant for days with great variation of flow, but is nil when the river has a steady discharge during a day.

Averages are computed for every month and for ten day periods, 1st to 10th, 11th to 20th and for the remainder of the month. The latter period will be of 8, 9, 10 or 11 days depending upon the length of the month. These 10 day averages have been found very useful when stations with similar catchment characteristics are to be compared with each other. Corresponding water level curves have been established between comparable stations in a great many instances, using 10 day and monthly averages apart from peak values.

The maximum and minimum observed water level for each month are entered at the bottom of the water level tables. Some of the maximum figures are obtained from Griffin Gauge Recordings. The dates on which these observations were taken are also given. During the dry season the water levels are usually very steady, decreasing slowly and a minimum water level can be recorded over several days. In such cases, the last date on which the minimum water level was recorded is entered only.

#### CURRENT METER MEASUREMENTS

All results of current meter measurements are listed in chronological order, station by station. The average water level during time of observation

is given together with the name of observer. These data were used for the establishment of discharge rating curves and tables and the deviation of each measurement from the smooth curve is given in cusecs and percentage of the curve value. The latter figures will indicate if the rating is reliable and if and when it changes.

At some stations the control cross-section is frequently changing and it was not possible to establish permanent discharge rating curves. Under such circumstances the discharge measurements only are given and the runoff calculations were carried out as described in Part 1 of this report.

#### DISCHARGE RATING TABLES

Tables are given both in cusecs and in acre-feet per day. The first table is used for extracting rate of flow and the latter for actual runoff computation or in determining the volume of water which passes the station in a given time.

#### DISCHARGE RATING CURVES

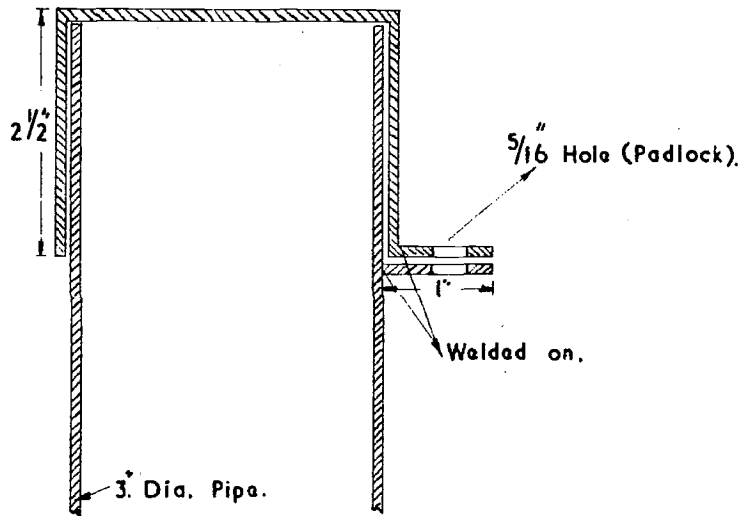
The result of the calibration work is shown also in graphical form. The maximum and minimum water levels observed each year are plotted and this clearly illustrates wherein which range of water level variations the station was calibrated. At certain stations the duration of various high floods is given, which shows for how many days a year the observed water level was at higher stages than the station had been calibrated.

All these curves will have to be frequently checked by direct measurements in the field, and a number of them will possibly change and have to be retraced when sufficient data are available for this.



# DESIGN FOR GRIFFIN GAUGE.

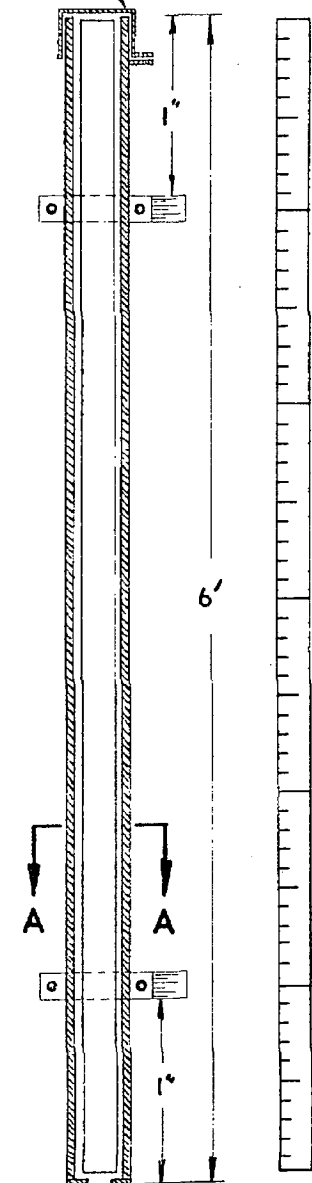
## DETAIL LOCKING SYSTEM.



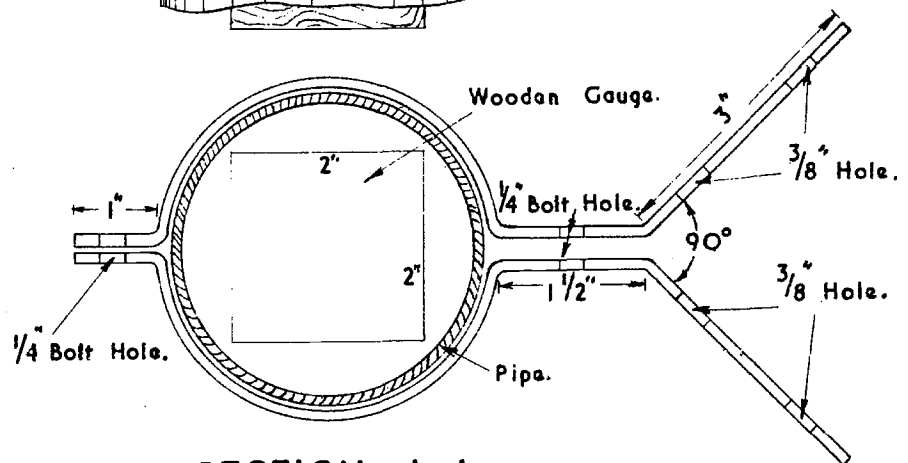
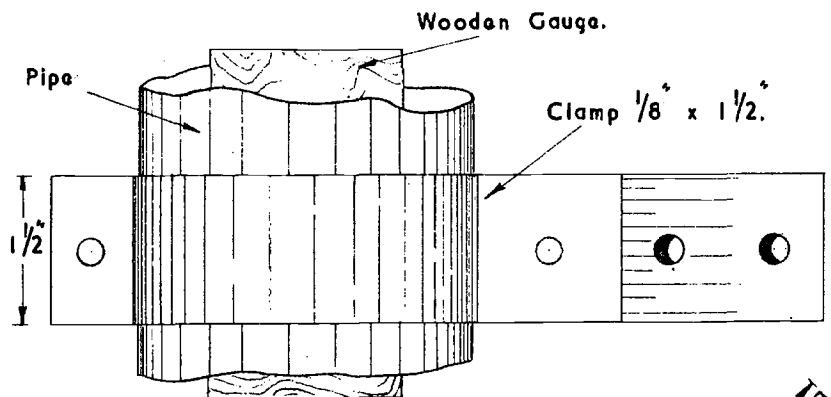
Scale 1" to 1'

SEE DETAIL.

Wooden Gauge.  
(in tenths of a foot)



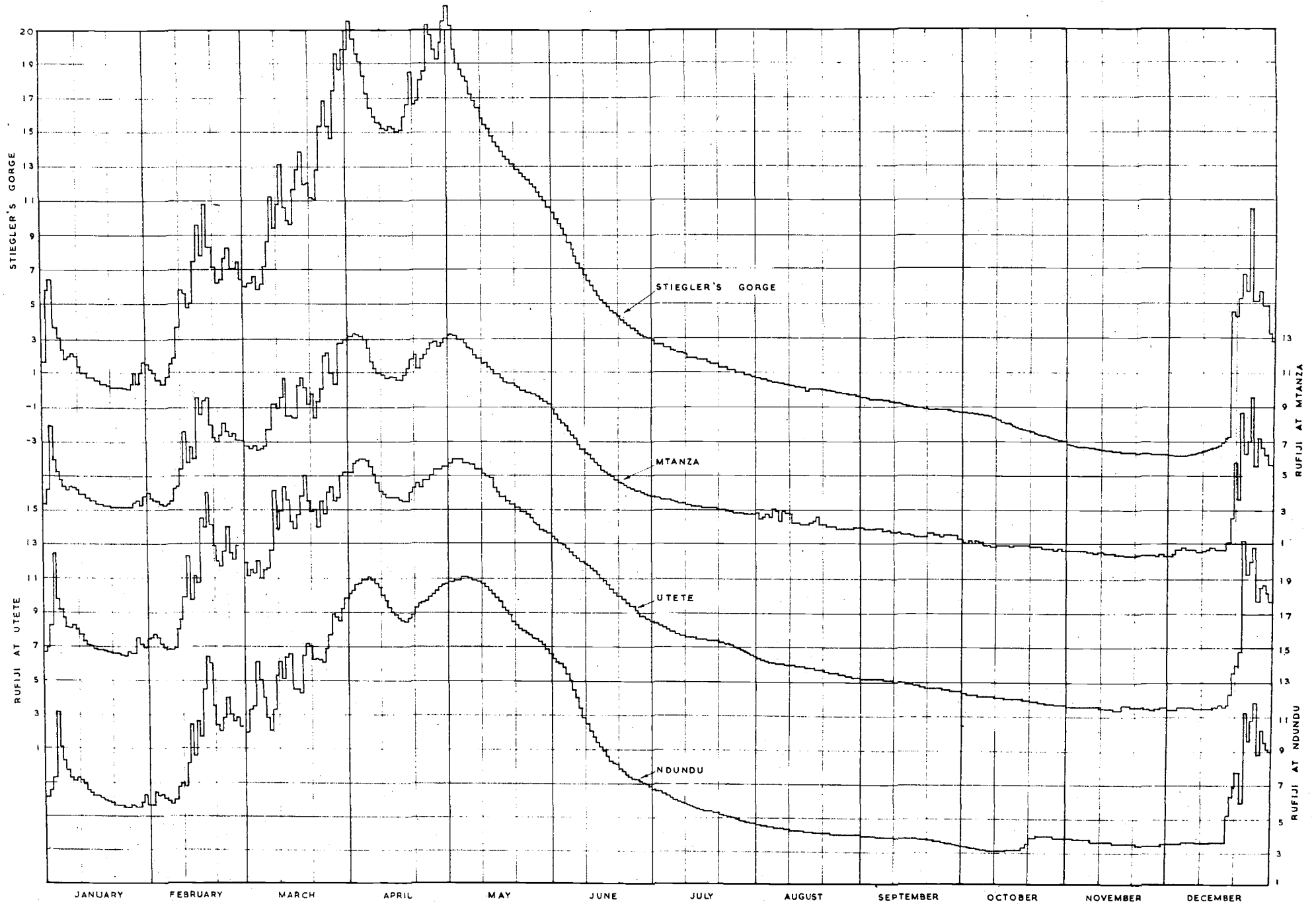
LONGITUDINAL  
SECTION



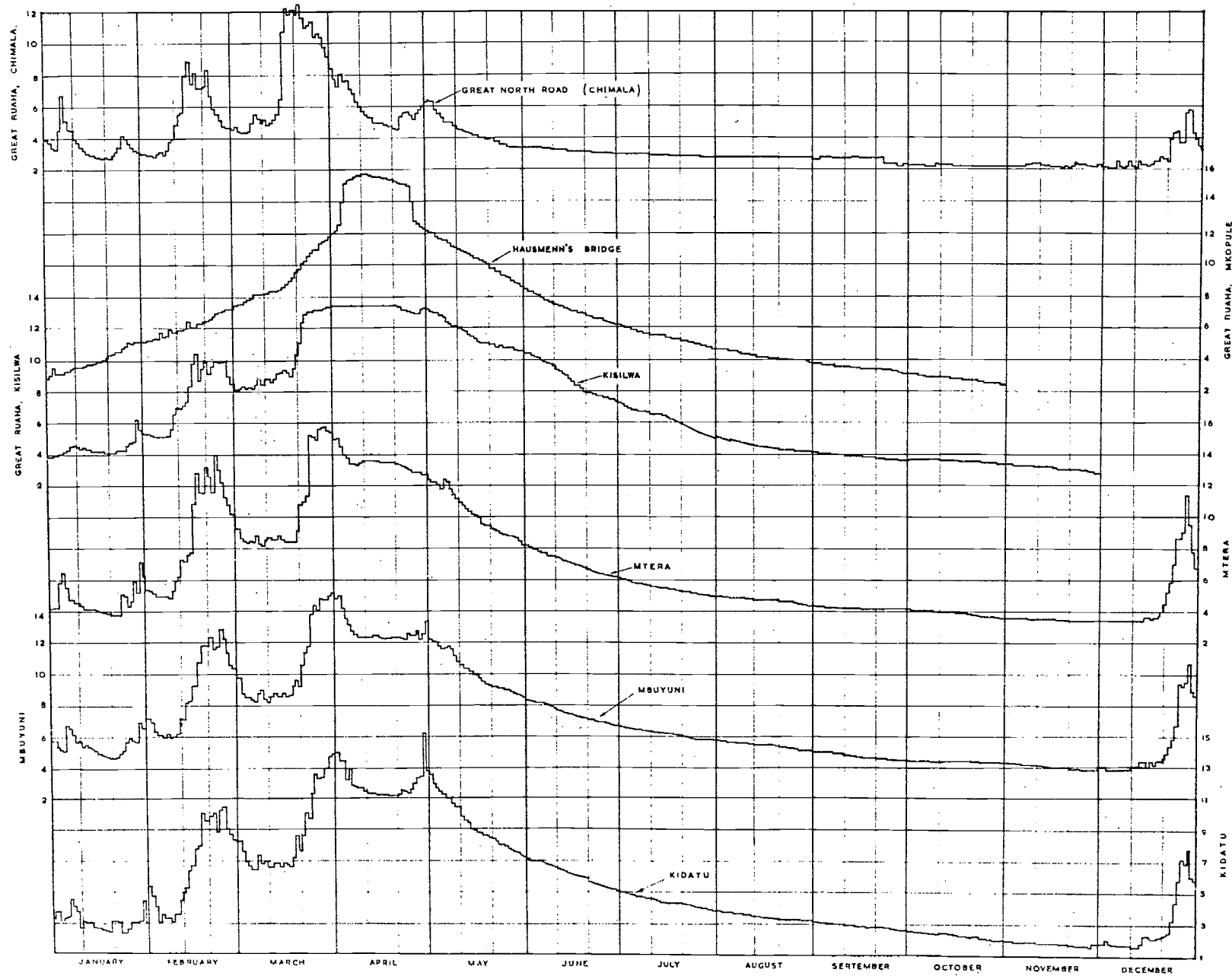
SECTION A-A

Scale 6" TO 1'

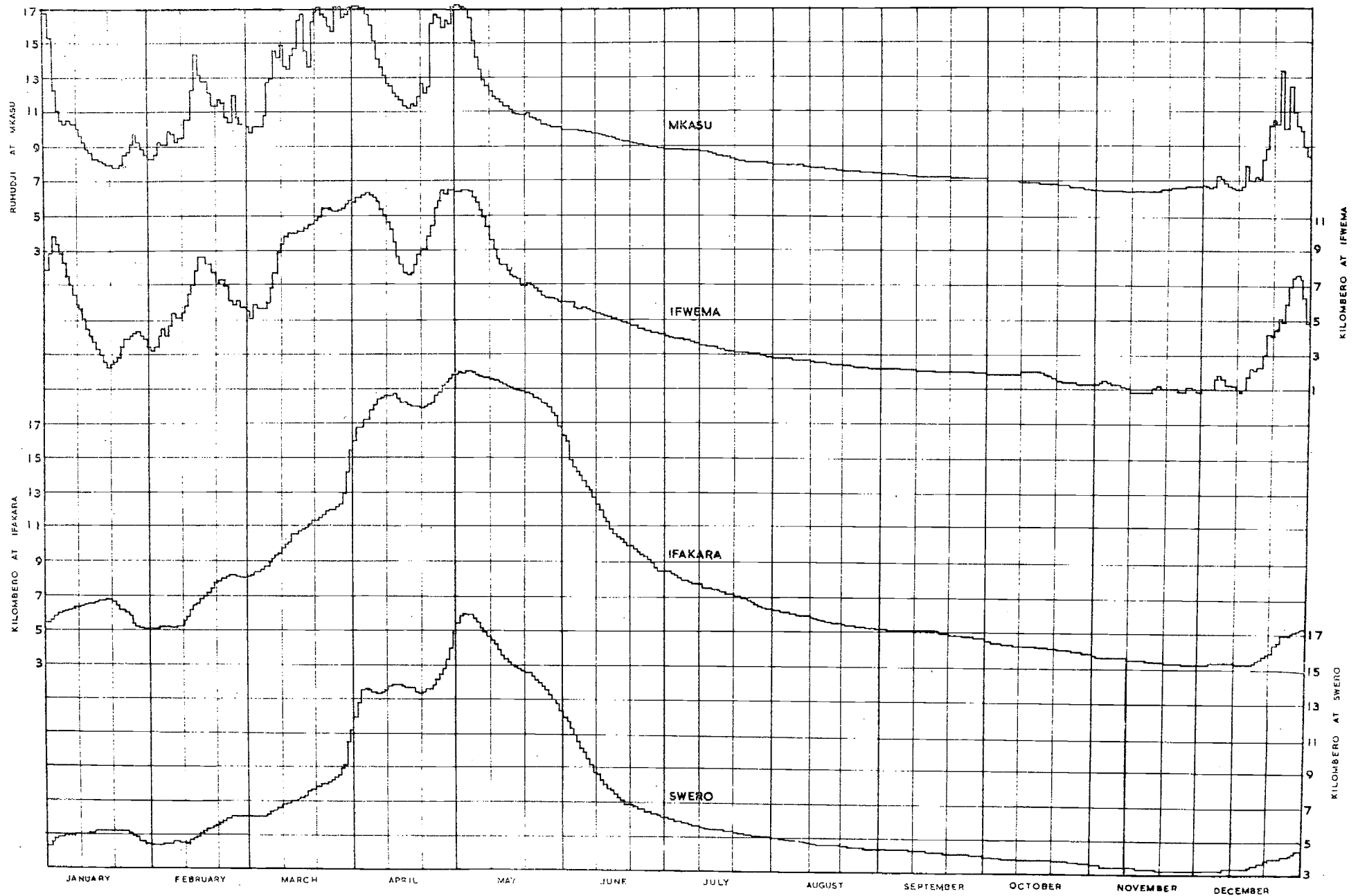
# WATER LEVELS FOR STATIONS ON THE RUFJI - 1958.



# WATER LEVELS FOR STATIONS ON THE GREAT RUAHA 1958



# WATER LEVELS FOR STATIONS ON THE KILOMBERO - 1958

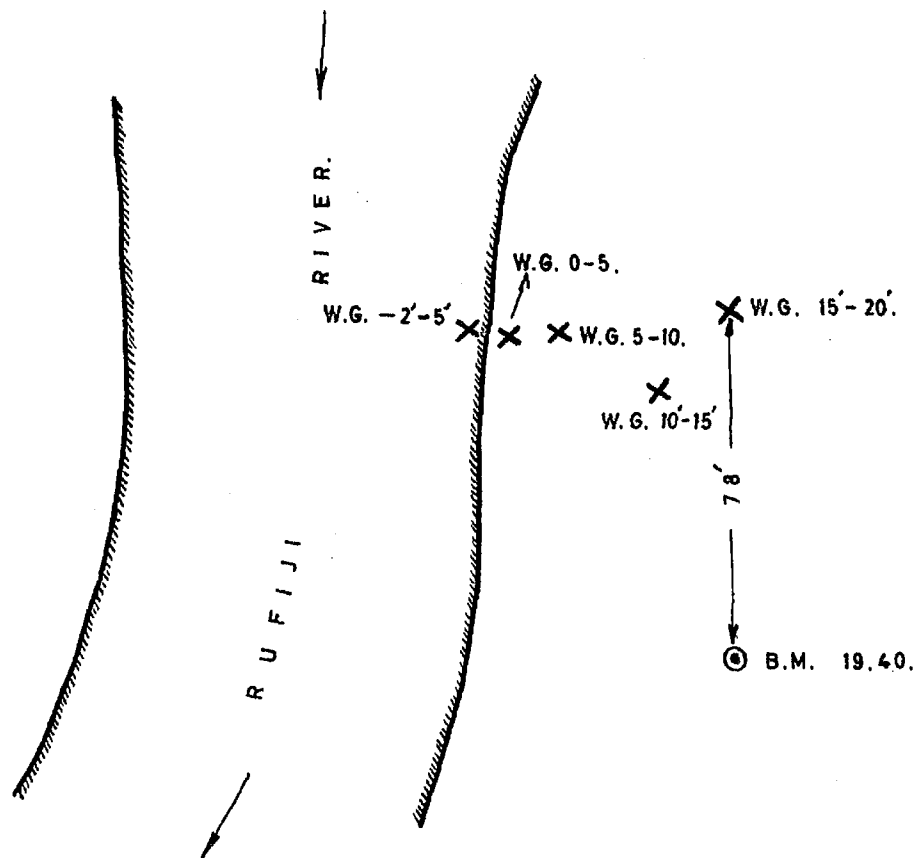


R U F I J I B A S I N S U R V E Y  
List of Gauging Stations.

No.	River.	Station.	Height of Gauge Zero above M.S.L.	Catchment Area sq.miles.	Information given in Part II.					Remarks.
					Installation Sketches.	Water Level Obs.	Current Meter Measurements.	Rating Tables.	Rating Curve.	
1K.1	Rufiji	Ndundu	18.34	-	X	X				W.L. Station only. (very approximate rating curve)
1K.2	Rufiji	Mtanza	115.01	-	X	X				W.L. Station only. Ground W.L. given.
1K.3	Rufiji	Stiegler's Gorge	210.71	611.06	X	X	X	X	X	
1K.4	Rufiji	Utete	56.21	-	X	X				W.L. Station only.
1K.5	Rufiji	Zombe	-	-	X					W.L. - 1938-1956 (1942-1956 records available only)
1K.6	Rufiji	Mwalimo	316.62	-	X					W.L. (Some flood level obs. only)
	Rufiji	Mpanganya	-	-	X					W.L. - 1926-1938.
1KA.1	Yovi	Madisini	-	25	X	X	X	X	X	
1KA.2	Little Ruaha	Iringa	5006.96	1127	X	X	X	X	X	
1KA.3	Great Ruaha	Kidatu	896.64	309.05	X	X	X	X	X	
1KA.4	Great Ruaha	Mbuyuni	1450.21	287.74	X	X	X	X	X	
1KA.5	Great Ruaha	Mtera	2289.55	262.54	X	X	X	X	X	
1KA.6										1KA.6 never installed.
1KA.7	Chimale	Chimale	D/S 3717.67	85	X	X	X		X	
1KA.8	Great Ruaha	Ot. N. Rd. (Chimale)	U/S 3733.47	328	X	X	X	X	X	
1KA.9	Kimani	Ot. N. Rd.	3511.01	173	X	X	X	X	X	
1KA.10	Mkombozi	Igawa	3648.47	95	X	X	X			No permanent rating.
1KA.11	Mbarali	Igawa	3594.19	619	X	X	X	X	X	
1KA.12	Halali	Iyayi D/S	-	302	X	X	X	X	X	
1KA.13										1KA.13 never installed.
1KA.14	Lukosi	Mbuyuni	-	1194	X	X	X			(No permanent rating. Readings transferred to Mtandika)
1KA.15	Mdombera	Ilongo	5449.09	404	X	X	X	X	X	
1KA.16	Igozi	Kikansi	-	30	X	X	X			
1KA.17	Mambi	Ot. N. Road	-	32	X	X	X			For 1KA.16, 17 and 18 readings transferred to New Road.
1KA.18	Mswiwi	Ot. N. Road	-	36	X	X	X			
1KA.19	Mbarali	Trial Farm	3456.60	762	X	X	X	X	X	Approximate curve est. Sandy.
1KA.20	Little Ruaha	Tosunganga	-	175	X	X	X	X	X	
1KA.21	Little Ruaha	Ihimbu	-	957	X	X	X	X	X	
1KA.22	Mtiti	Mtiti	-	172	X	X	X	X	X	
1KA.23	Hukuni	Iyayi	-	118	X	X	X	X	X	
1KA.24	Urобо	Ruiwa	-	-	X		X			Abandoned.
1KA.25	Mhula	Rudi	-	-	X		X			Abandoned.
1KA.26	Great Ruaha	Kisilwa Crossing	-	13844	X	X	X	X	X	
1KA.27	Great Ruaha	Baumman's Bridge (Mkopula)	-	7700	X	X	X	X	X	
1KA.28	Great Ruaha	Utengule	-	-	X					Griffin gauge only.
1KA.29	Ejombe	Ifumba	-	5438	X	X	X	X	X	
1KA.30	Kisigo	Mlazo	-	-	X	X				W.L. Station only.
1KA.31	Little Ruaha	Mawande	-	2005	X	X	X	X	X	
1KA.32	Little Ruaha	S.H. Club	5894.54	293	X	X	X	X	X	
1KA.33	Mdombera	Madibira	3490.97	707	X	X	X	X	X	
1KA.34	Halali	Tunduna	3667.20	377	X	X	X			Not complete.
1KA.35	Iyayi	Tunduna	-	337	X					Abandoned. Records not reliable.
1KA.36	Halali	Majojolo	3640.45	1014	X	X	X	X	X	
1KA.37	Lukosi	Mtandika	-	1117	X	X	X	X	X	
1KA.38	Yovi	Great Ruaha Confluence.	-	243	X	X	X	X	X	
1KA.39	Little Ruaha	Iwawa	-	645	X	X	X	X	X	
1KA.40	Chimale	Chooi Furrow	-	-	X					No rating est.
1KA.41	Kisigo	Ilangali	-	3413	X	X	X	X	X	
1KA.42	Kisigo	Kirunguru	-	9476	X	X	X	X	X	
1KA.43	Ejombe	Isango	-	1457	X	X	X			Abandoned.
1KA.44	Bubu	Chaswale	-	-	X					Not complete.
1KA.45	Ipatagwa	New Road	-	15	X	X	X			Not complete.
1KA.46	Halali	Iyayi U/S	-	184	X	X	X	X	X	Rating curve given on same sheet as Hukuni 1KA.23.
1KA.47	Maukhunde	Matumbulu	-	-	X					Never installed.
1KA.48	Igozi	New Road	-	38	X	X	X	X	X	
1KA.49	Mambi	New Road	-	38	X	X	X	X	X	
1KA.50	Mswiwi	New Road	-	42	X					Not complete.
1KA.51	Urобо	New Road	-	29	X	X	X			Not complete.
1KA.52	Nganga	Tunduna	-	-	X					Not complete.
1KB.1	Msolwa	Msolwa Estate	-	8	X	X	X			Abandoned (Approximate Rating)
1KB.2	Kilombero	Ifakara	791.91	12063	X	X	X	X	X	
1KB.3	Izumbo	Ifakara	816.48	165	X	X	X	X	X	
1KB.4	Kilombero	Ikwana	931.47	7048	X	X	X	X	X	
1KB.5	Luhombero	Ilongo	-	395	X	X	X	X	X	
1KB.6	Kigogo-Ruaha	Frick's Bridge	-	511	X	X	X	X	X	
1KB.7	Fuagi	Idege (Iivalonga Bridge)	-	24	X	X	X	X	X	
1KB.8	Mpanga	Mpanga Mission	967.30	937	X	X	X	X	X	
1KB.9	Muyera	Taveta Mission	-	1950	X	X	X	X	X	
1KB.10	Mbuyuni	Mwayamalungu	-	3294	X	X	X	X	X	
1KB.11	Sofi	Sofi Mission	-	62	X	X	X	X	X	
1KB.12	Mobilipa	Idete	-	114	X	X	X	X	X	
1KB.13	Izumbo	Trial Farm	-	165	X					W.L. Station only.
1KB.14	Izumbo	Kibaoni	-	164	X	X	X	X	X	
1KB.15	Mgeta	Mohombe Mission	-	124	X	X	X	X	X	
1KB.16	Furua	Malinyi Mission	-	507	X	X	X	X	X	
1KB.17	Kilombero	Swero	776.38	12915	X	X	X	X	X	
1KB.18	Mbuyuni	Hjomsbe Bridge	-	-	X					Not complete.
1KC.1	Luwegu	Dumaito	-	9382	X					Griffin gauge only.

**NOTE:** Information on the Stations (indicated thus X) are arranged in numerical order inside respective chapters as per table of contents.





### RUFIFI AT NDUNDU

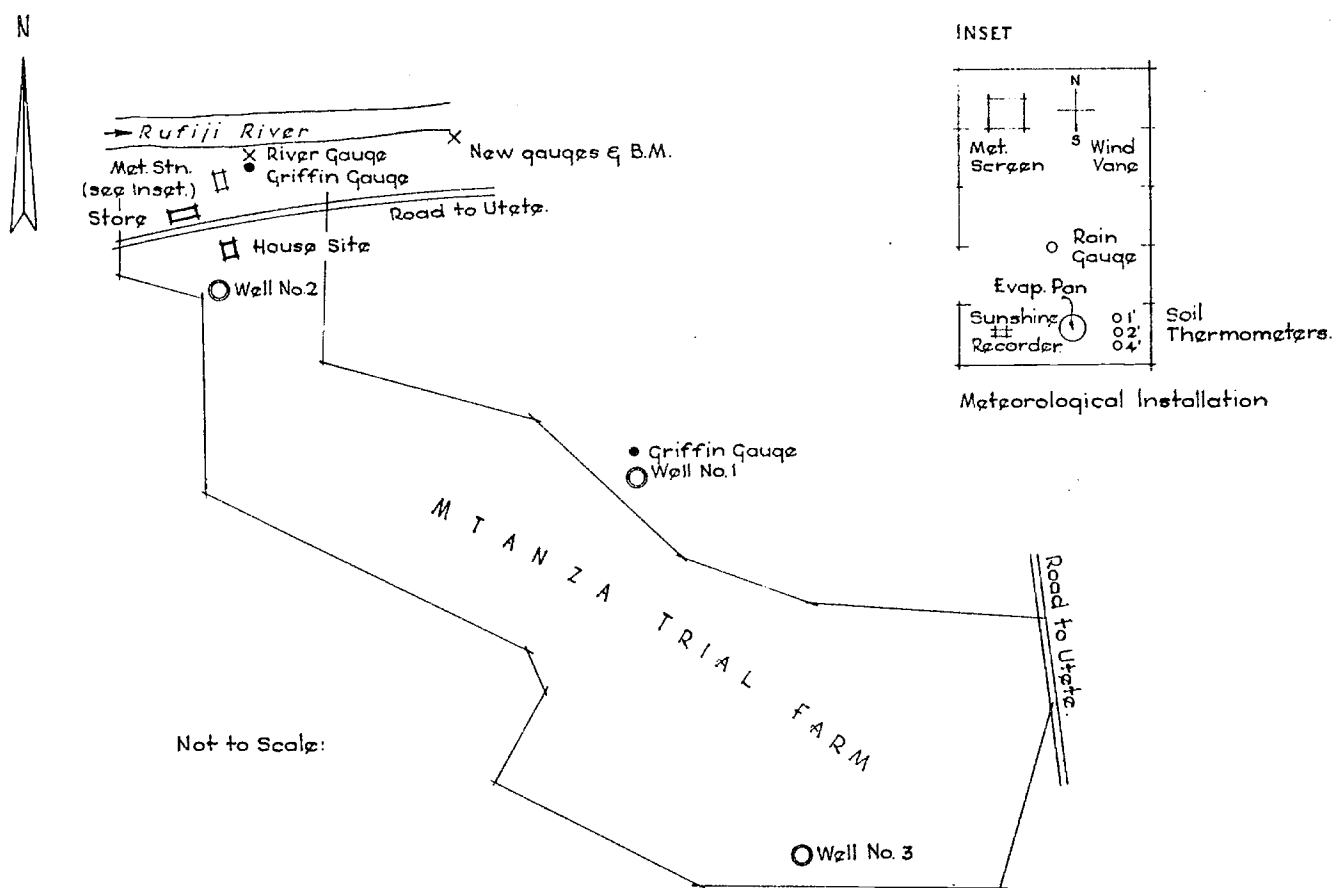
No. 1K1. Water level station only. WL Gauge established Nov. 1954 and observations started 16th Nov. 1954.

Description of Gauges: Gauge I - minus 2' to 5'; Gauge II - 0' to 5'; Gauge III - 5' to 10'; Gauge IV - 10' to 15' and Gauge V - 15' to 20'. Plates are bolted to angle iron and concreted into the ground.

Description of BM: Concrete block with iron bolt 78 ft. downstream from gauge V.

Height of BM: Top of bolt 19.40 ft. above gauge zero. Gauge zero is 18.34 ft. above MSL.

Other installations: Approx. 900 ft. NE from gauge there is a concrete ground water well, 22ft. deep, with staff gauge inside. Zero of this gauge is 15.81 ft. below the BM at the river. Readings on this gauge commenced 7th September 1958, but records are not included in this report. A Griffin gauge is established 25 ft. from the well. Zero of Griffin gauge is 0.72 ft. below NE corner of concrete coping of well and 3.90 ft. below BM at the river. Griffin gauge readings 1956 = 2.9 ft., 1958 = 0.4 ft.



### RUFIJI AT MTANZA

No. 1K2. Water level station only. Latitude  $S.7^{\circ}40'$ . Longitude  $E.38^{\circ}22'$ .  
 WL Gauge established Nov. 1954 and observations started 1st Dec. 1954.

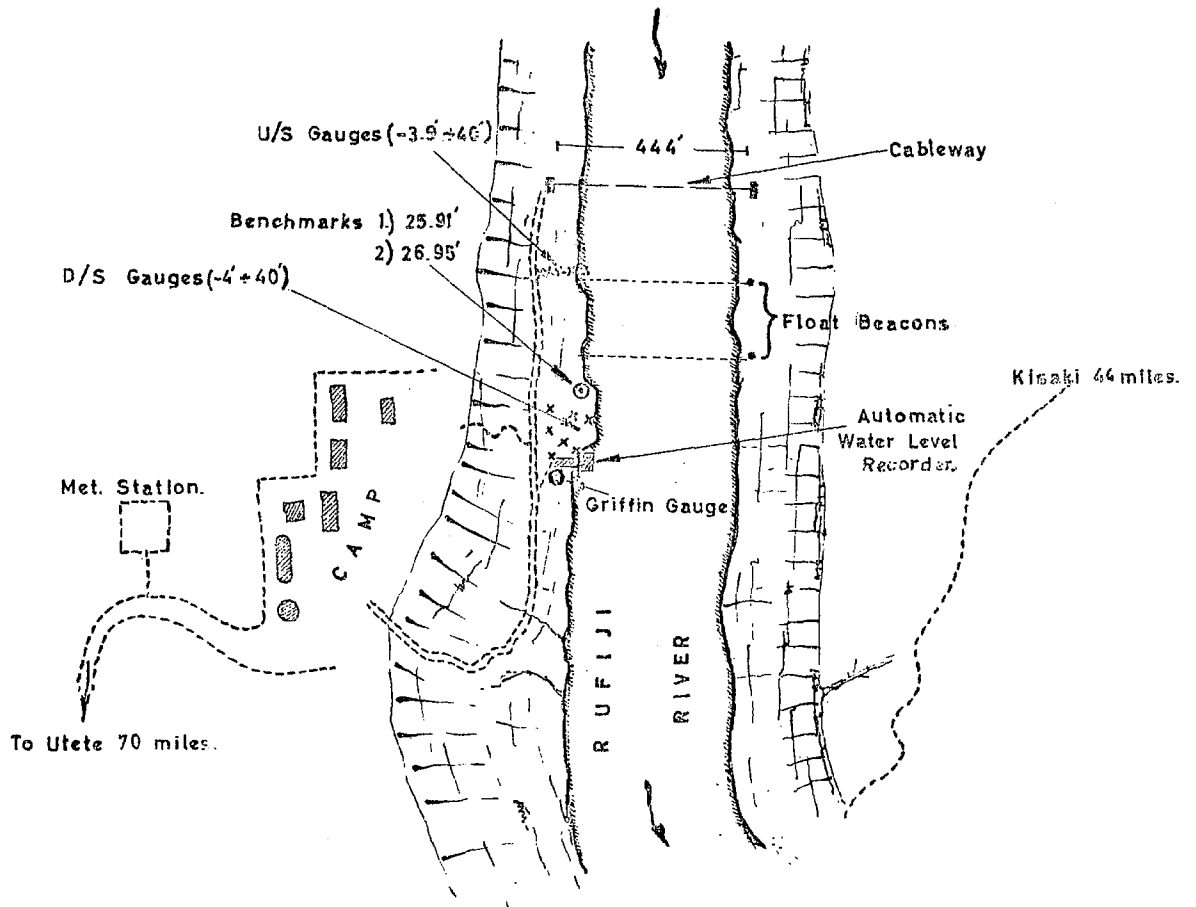
Description of Gauges: The southern river bank at Mtanza was dug out by flood during 1958. A new gauge was re-established 1st Dec. 1958. It is screwed on to stout timber; the top end is bolted to a mango tree branch and the bottom end is in a 44 gallon drum filled with concrete. The gauge zero is just above the top of the drum.

Description of BM: A six inch nail has been fixed in the trunk of the same tree and marked with white paint. This BM is at the same level as the original BM.

Height of BM: The gauge zero is 13.51 ft. below the BM, the same as for the old gauges. Gauge zero is 115.01 ft. above USL.

Other installations: 1. Griffin gauge, re-installed 1958, set up along the same tree. Zero of gauge is 0.04 ft. below BM. 2. Griffin gauge at well No. 1; gauge zero corresponds to 10.97 ft. on river gauge. 3. Meteorological Station. After closing the farm in 1958 the instruments were transferred to Utete. 4. Ground water well No.1, 2800 ft. from store; top of coping 11.25 ft. on river gauge. 5. Ground water well No.2, 220 ft. from store; top of coping 13.50 ft. on river gauge. 6. Ground water well No.3, 4700 ft. from store; top of coping 8.75 ft. on river gauge.





### RUFUJI AT STIEGLERS GORGE

No. 1K3. Catchment Area 61,106 sq. miles; Latitude  $S7^{\circ}48'$ . Longitude  $E37^{\circ}55'$ . WL Gauge established Oct. 1954 and observations started 20th Oct. 1954.

Description of Gauges: D/S gauges (-4.0' to 25') bolted to angle iron and concreted into the rock. Gauge from 25' to 35' is fixed to the brickwork of automatic recorder and 35' to 40' fixed to the railings of Recorder House.

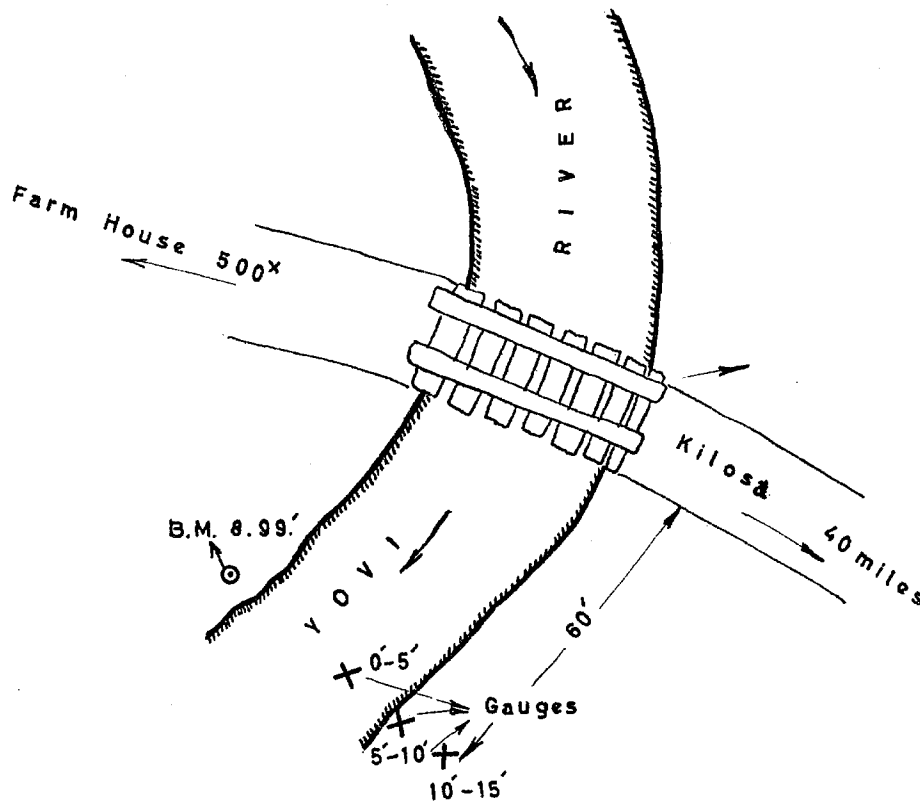
Description of BM: Two iron rods concreted into rock 115 ft. U/S of recorder.

Height of BM: BM1, 25.91 ft. above gauge zero. BM2, 25.95 ft. above gauge zero. Gauge zero is 210.71 ft. above MSL.

Other installations: 1. Automatic water level recorder - 40 ft. 2. U/S sets of water level gauges (-3.9 to 40') same zero as D/S gauges. 3. Cableway for current meter readings. 4. Meteorological station (upon the Gorge). 5. Float measurement beacons, 125 ft. apart. 6. Permanent camp with two aluminium huts upon the gorge.

Access: Only accessible by motor transport during dry season, from Utete 70 miles, from Kisaki 44 miles.

Note: The river bed at Stieglers Gorge is covered by a thick layer of mud. Due to washout this has caused and will cause change in the rating conditions at the station. A new gauge was therefore established above a rocky control section upon the Pangani Rapids and when this is rated it will supply better runoff information on the Rufiji.



### YOVI AT MADIZINI

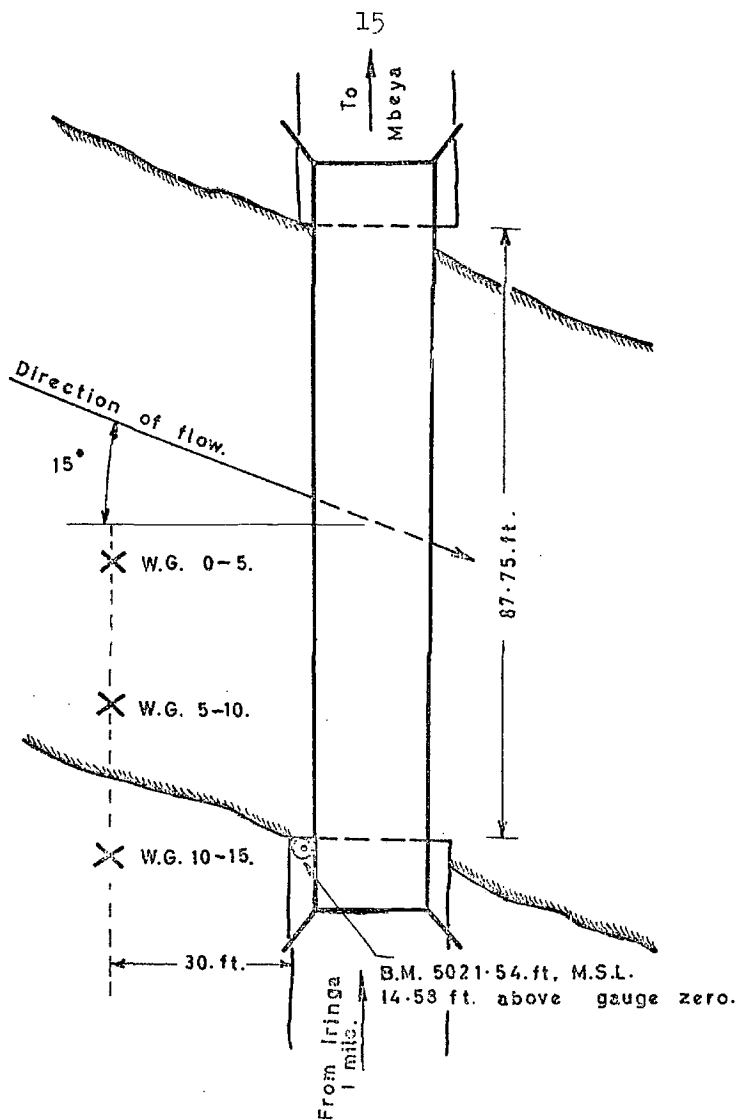
No. 1KAL. Catchment Area 25 sq. miles; Latitude  $S7^{\circ}08'$ . Longitude  $E36^{\circ}48'$ .  
 WL Gauge established 10th Nov. 1951 by WD and ID.

Description of Gauges: Three sets of vertical gauges 0 - 5', 5' - 10' and 10' - 15' fixed to angle iron and driven into the ground 60' downstream of bridge on Madizini Estate.

Description of BM: Concrete block embedded in the ground on the right hand side of river opposite the gauges.

Height of BM: 8.99 ft. above gauge zero.

Note: This is not a good station for calibration of river discharge, and current meter measurements are not taken during the last two years. Water level observations continue under the farm management.



### LITTLE RUAHA AT IRINGA

No. 1KA2. Catchment area 1127 sq. miles; Latitude  $S7^{\circ}47'$ . Longitude  $E35^{\circ}42'$ . WL Gauge established 9th Nov. 1954 and observations started same date.

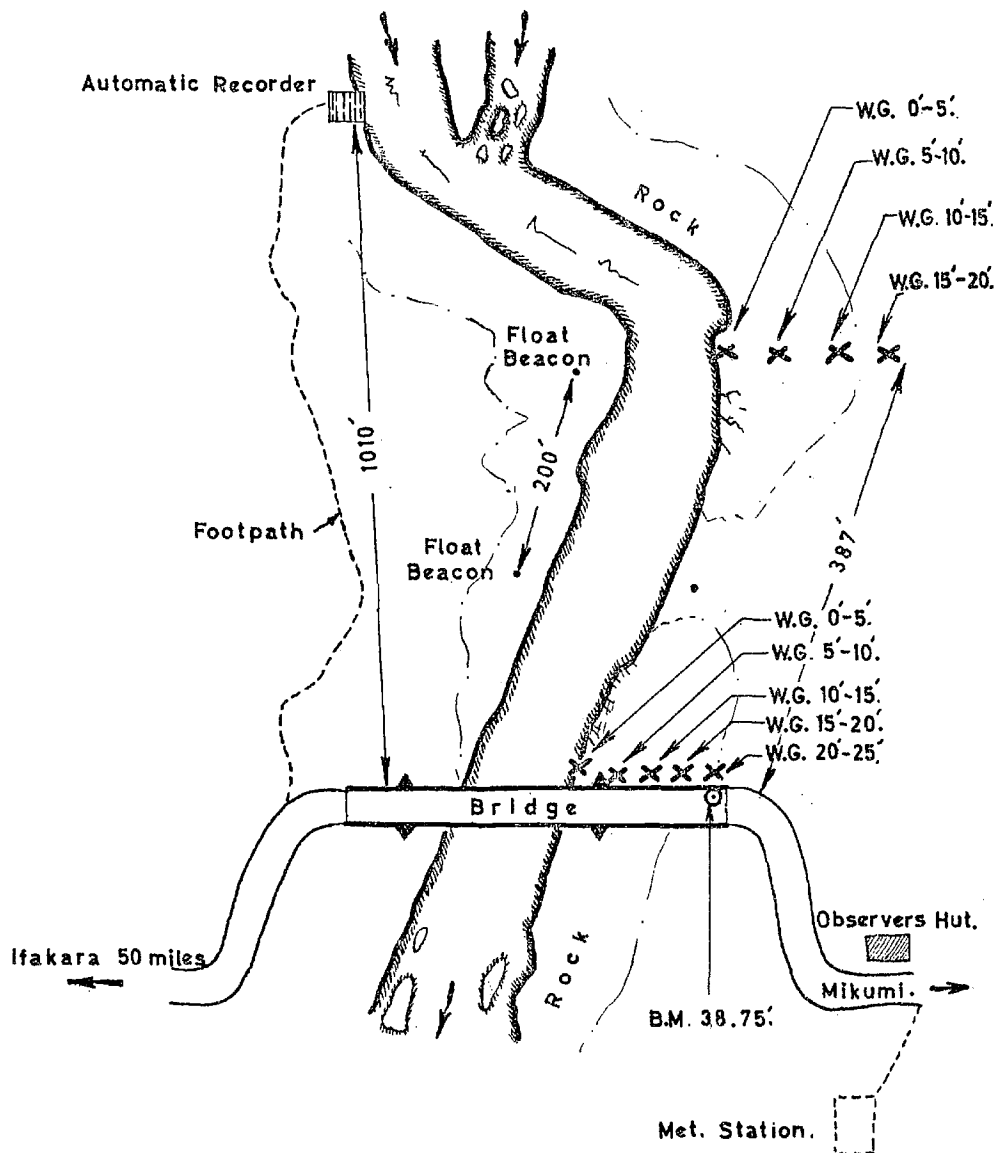
Description of Gauges: Three gauges 0 to 5', 5' to 10' and 10' to 15' bolted to angle iron and embedded in concrete. This gauge is established just upstream of road bridge and is called midstream gauge. A D/S gauge was established below the bridge and another (U/S) gauge was established some distance up the river. These gauges are no longer in use.

Description of BM: Arrow cut in concrete on right hand side abutment, U/S of bridge.

Height of BM: 14.58 ft. above gauge zero. Gauge zero is 5006.96 ft. above MSL.

Access: Situated a mile from Iringa town and is accessible throughout the year.

Note: The cross-section consists of sand and stone and has been fairly stable, but changes can occur. During high floods some water flows over the bank and through road culverts and during extreme floods the road is under water.



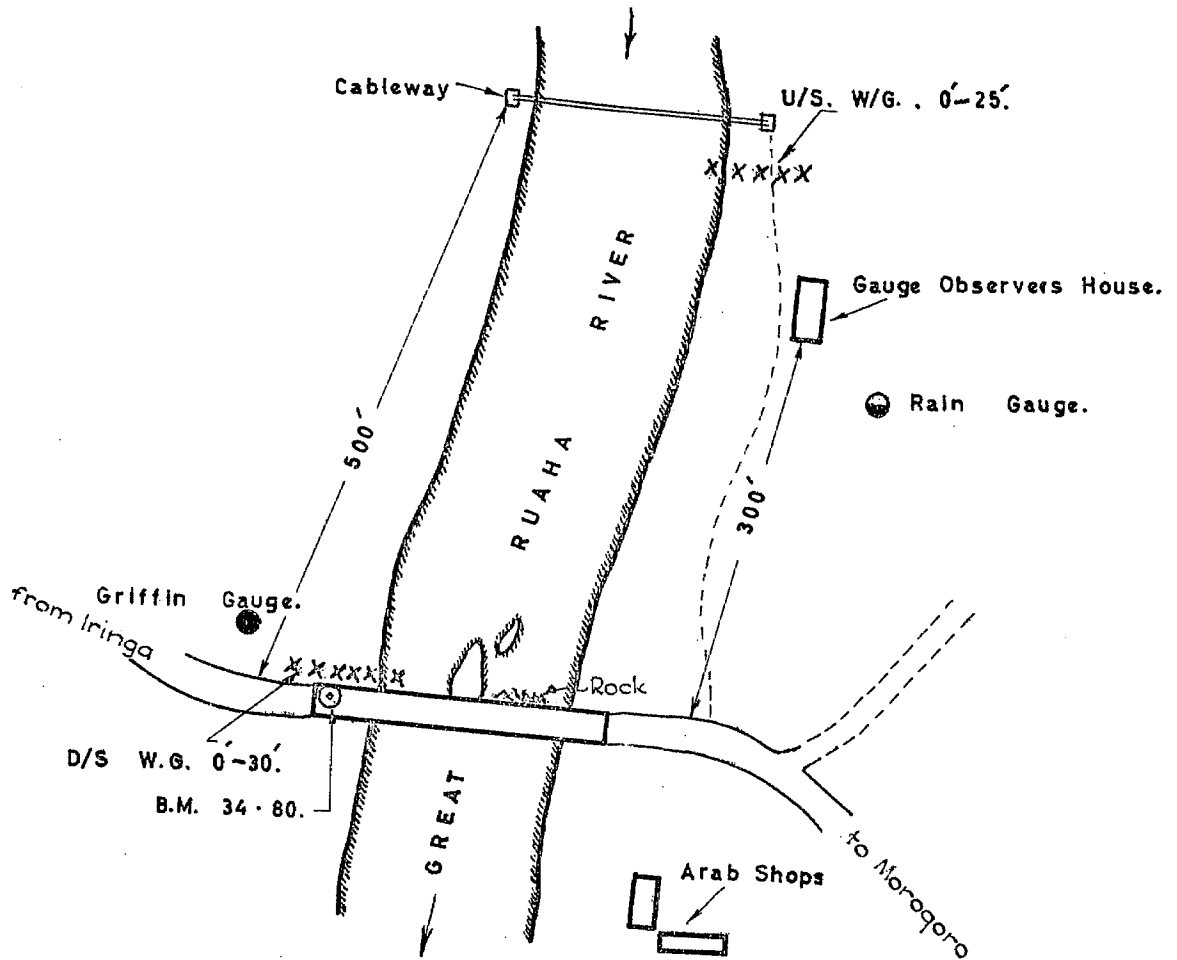
### GREAT RUAHA AT KIDATU

No. 1KA3. Catchment area 30905 sq. miles; Latitude  $S7^{\circ}40'$ . Longitude  $E37^{\circ}03'$ . WL Gauges established Oct. 1954 and observations commenced 28th Oct. 1954.

Description of Gauges: D/S gauges established on the U/S side of Kidatu bridge 0 to 25'. U/S gauges established 387' above bridge, 0 - 20'. An automatic recorder was established at a later date 1010 ft. above bridge, on right hand side of river. This records quite different water levels than the gauges.

Description of BM: Painted on the left hand abutment. Height of BM 38.75 ft. above D/S gauge zero. D/S gauge zero is 896.64 ft. above MSL.

Other installations: Rain-gauge and meteorological screen with thermometers established on southern side of road opposite the observer's house. An automatic water level recorder, pitometer, is installed. This instrument did not work satisfactorily and observations on D/S gauge were used in runoff calculations. Water samples are taken at Kidatu.



### GREAT RUAHA AT MBUYUNI

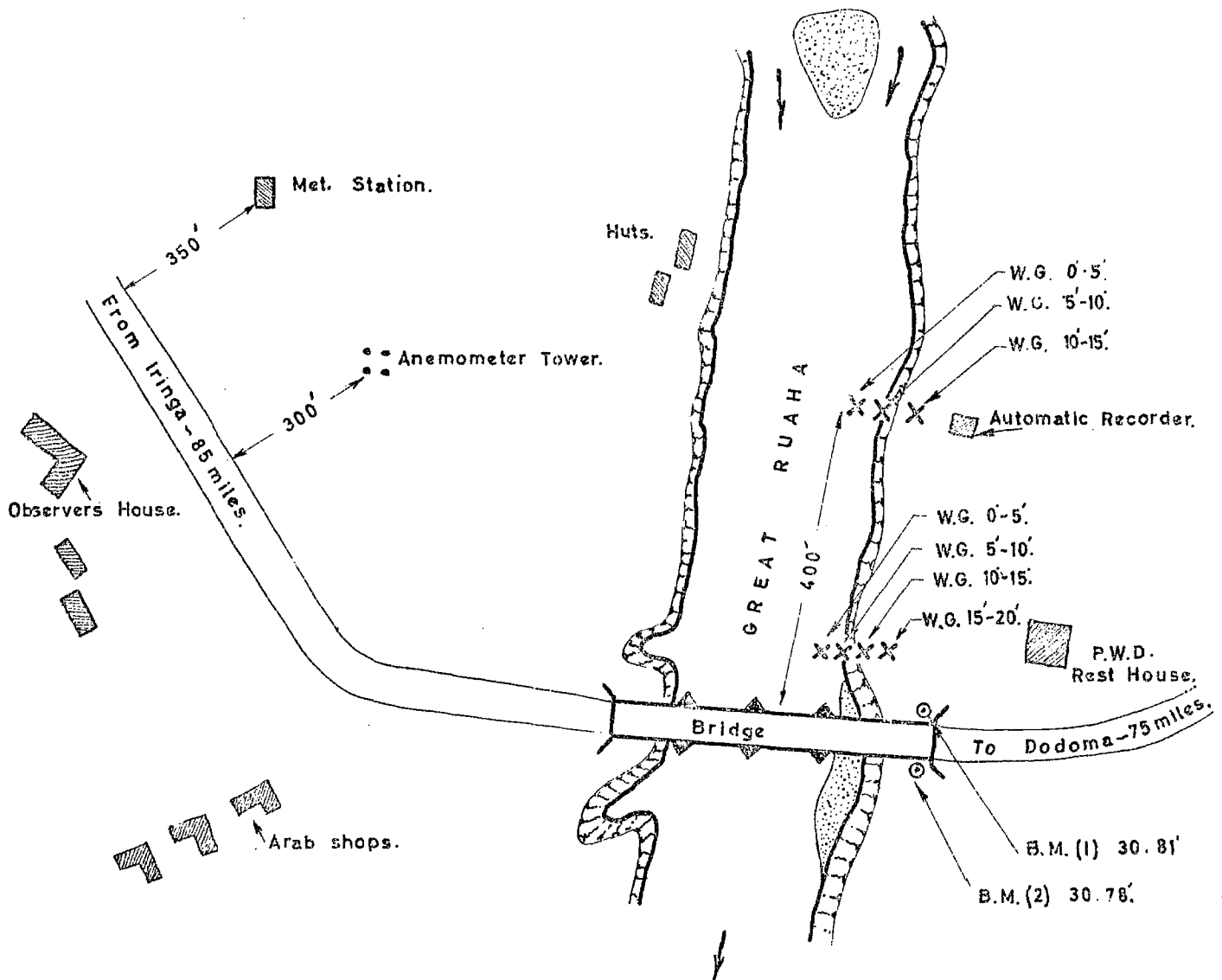
No. 1KA4. Catchment area 28774 sq. miles. Latitude  $S7^{\circ}26'$ . Longitude  $E36^{\circ}33'$ . WL Gauge established Nov. 1954 and observations started 8th November 1954.

Description of Gauges: Gauge plates screwed to angle iron which is concreted into the ground on the upstream side of road bridge.

Description of BM: Angle iron fixed to left hand abutment.

Height of BM: Top of iron is 34.80 ft. above D/S Gauge Zero. Gauge Zero is 1450.21 ft. above MSL.

Other installations: Complete permanent cableway for current meter measurement and U/S set of gauges. Rain-gauge near gauge reader's house. Griffin gauge installed Jan. 1 1958. Griffin gauge zero is 28.30 ft. above D/S gauge zero. Water samples are taken at Mbuyuni.



### GREAT RUAHA AT MTERA

No. 1KA5. Catchment area 26254 sq. miles. Latitude  $S7^{\circ}05'$ . Longitude  $E35^{\circ}59'$ . WL Gauge established November 1954 and observations started Nov. 11th.

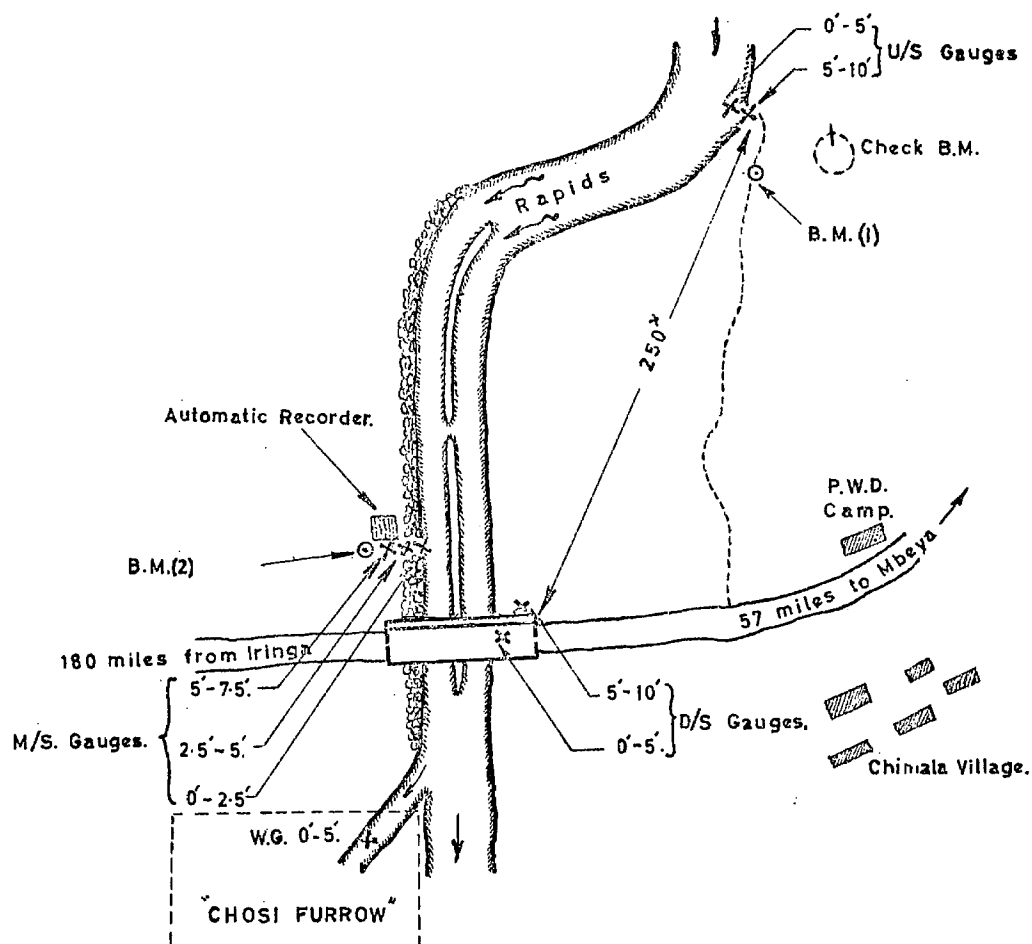
Description of gauges: One set of gauges 0' to 20' is established on U/S side of Mtera bridge and another set, 0' to 15', at automatic recorder 400 ft. above bridge. The gauges have same zero and record practically the same water levels.

Description of BM: No. 2. Small concrete mound, about 2" high built off left abutment on its D/S side.

Height of BM: No. 1. 30.81 ft. and No. 2. 30.78 ft. above gauge zero. Gauge zero is 2209.55 ft. above MSL.

Other installations: 1. Meteorological screen, (dry, wet, max., min., thermometer, Piché Evaporimeter). 2. Raingauge. 3. Evaporation Pan. 4. Automatic water level recorder. 5. Permanent steel cable for discharge measurements. 6. Water sampling is regularly done.

Note: BM No. 1 was removed during repairs of the road bridge.



### CHIMALA AT CHIMALA

No. 1KA7. Catchment area 85 sq. miles. Latitude  $S8^{\circ}52'$ . Longitude  $E34^{\circ}02'$ . WL Gauge established Nov. 1954 and observations started the same month.

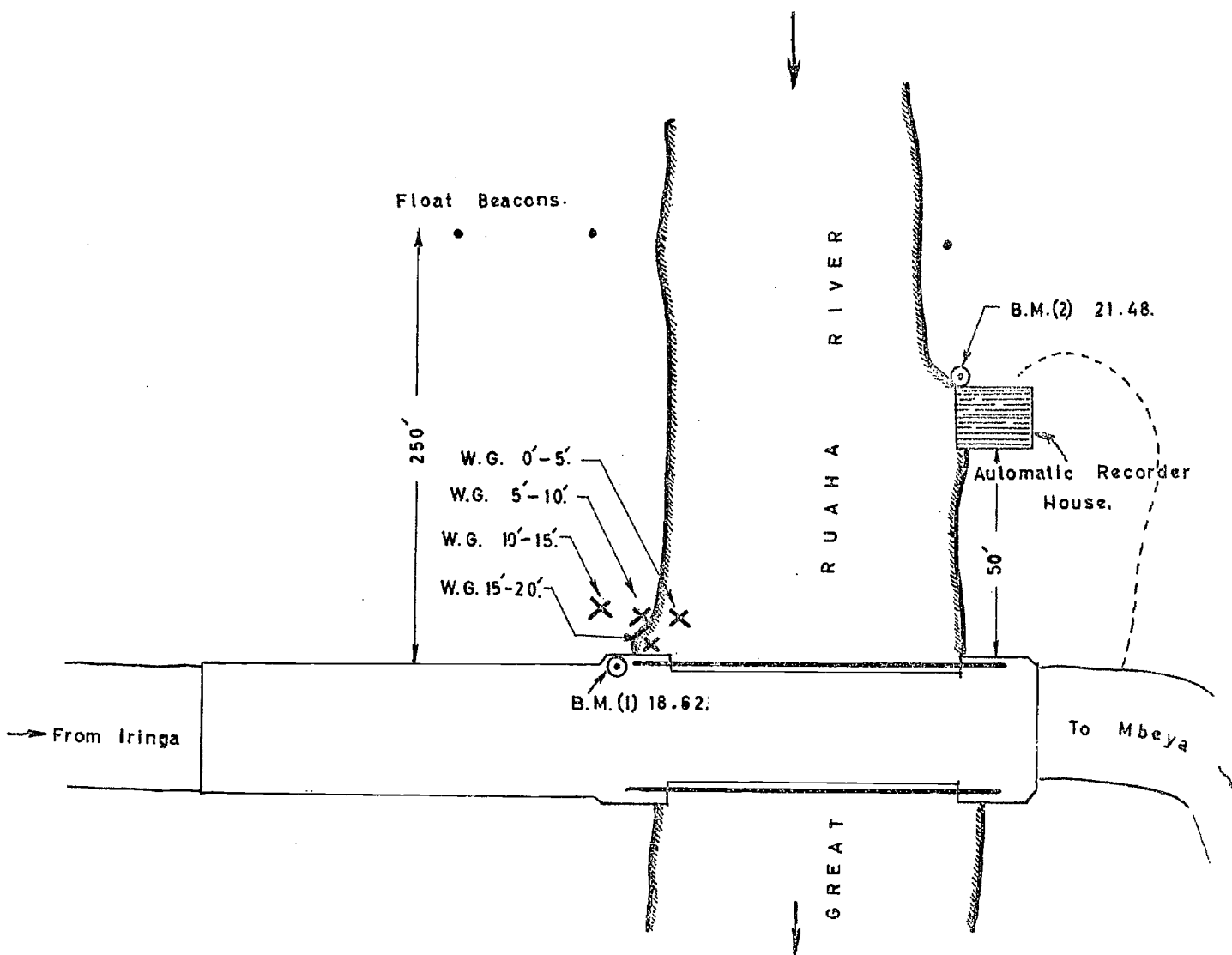
Description of gauges: U/S vertical gauges 0' - 5', 5' - 10' supported by angle iron. M/S 0' - 2.5', 2.5' - 5', 5' - 7.5' vertical gauges supported by angle iron near Recorder House. D/S vertical gauges 0' - 5' supported on pole under bridge left bank of river; 5' - 10' on left bank bridge abutment.

Description of BM: BM (1) Iron bolt in concrete near U/S gauges. BM (2) Concrete plate beside Recorder house. BM(check) Nail in tree near U/S gauges.

Height of BM: BM (1) 5.88'U/S; BM (check) 11.91'U/S; BM (2) 9.74'M/S; 10.32' D/S; BM (2) 12.46 below BM (1) and 18.49 below (check) BM. Gauge zeros are 3717.67 ft. U/S gauge, and 3733.47 ft. D/S gauge, above MSI.

Other installations: Automatic WL Recorder, pitometer, not working satisfactorily. (2) Griffin Gauge, 10/10/58, near U/S gauge. Zero of gauge corresponds to 5.96 on U/S gauge.

Note: Chosi Furrow included in sketch diverts water for irrigation. One gauge, No. 1KA40, is established for recording this draw-off.



### GREAT RUAHA AT GREAT NORTH ROAD CHIMALA

No. 1KA8. Catchment area 328 sq.miles. Latitude  $8^{\circ} 50'$ . Longitude  $34^{\circ} 6'$ .  
 WL Gauge established November 1954, and observations started 26th November 1954.

Description of gauges: 4 vertical gauge plates fixed to angle iron concreted into the ground (0' - 20').

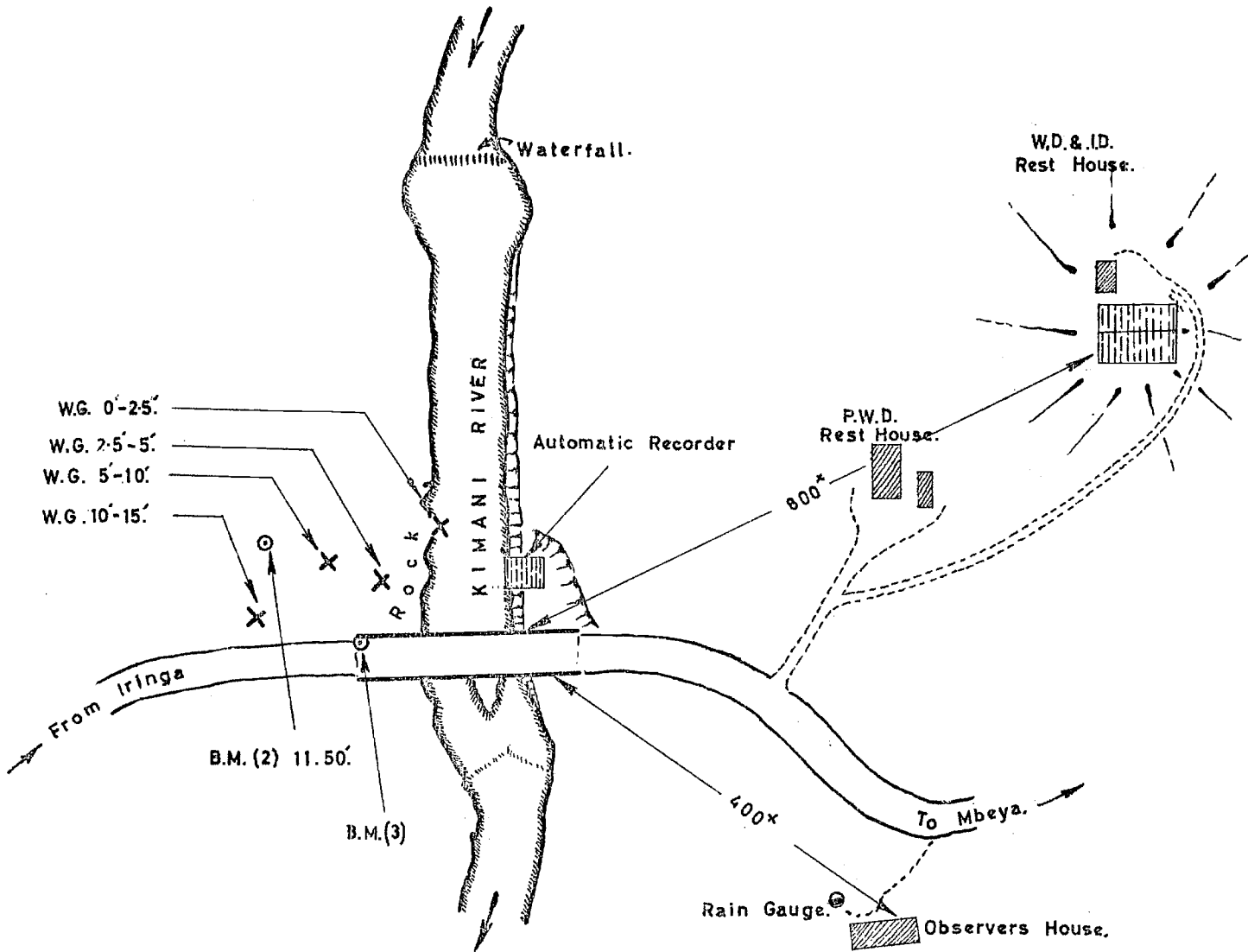
Description of BM: BM (1) Top bolt on U/S bridge abutment on right bank.  
 BM (2) Chipped on rock near entrance to Recorder House.

Height of BM: BM (1), On bridge, 18.62'. BM (2), Recorder House, 21.48'.  
 Gauge zero is 3511.01 ft. above MSL.

Other installations: 1. Recorder House and Recorder.

Note: Gauges washed away March 1959. Rebuilt 15.4.59 and now situated along wall of automatic recorder. Same height of bench mark as before.





### KIMANI AT GREAT NORTH ROAD

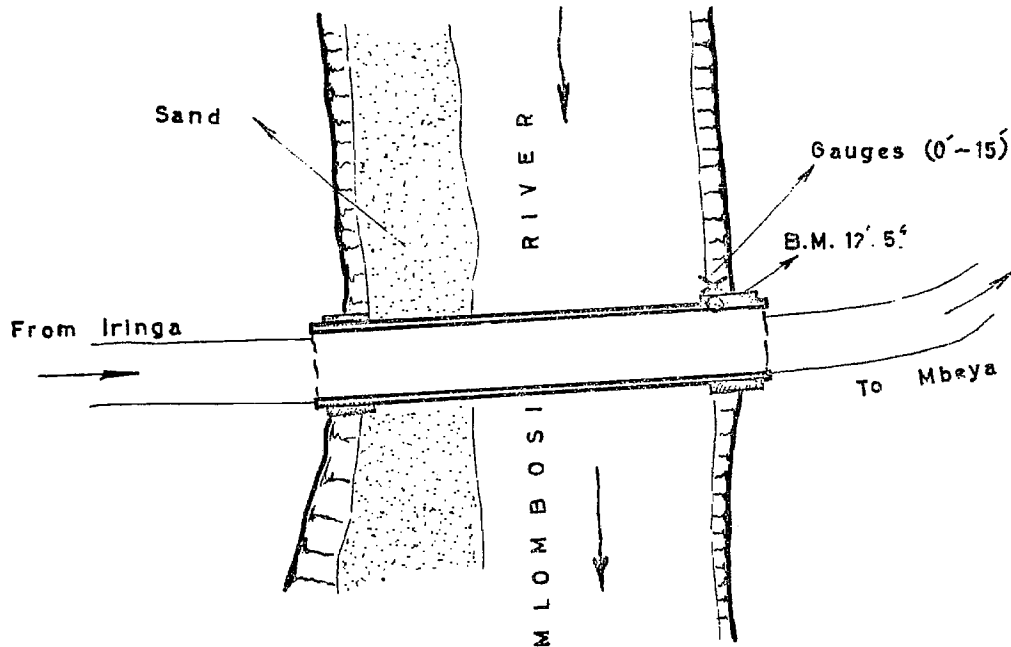
No. 1KA9. Catchment area 173 sq. miles. Latitude  $S8^{\circ}51'$  Longitude  $E34^{\circ}11'$ .  
 WL Gauge established Nov. 1954, and observations started Nov. 1954.

Description of Gauges: 2.5' - 5.0', 5' - 10', 10' - 15'; plates on angle iron right bank of river, just U/S of the bridge and opposite automatic recorder.

Description of BM: BM (2) concrete platform 15' from gauge plates 10' - 15'.  
 BM (3) Bolt on right bank bridge abutment - U/S side.

Height of BM: BM (2) 11.50'. BM (3) not known. Gauge zero is 3511.47 ft. above MSL.

Other installations: 1. Automatic WL Recorder (31.1.56); 2. Raingauge (25.7.56); 3. Cable across river 500 yds. U/S.



### MLOMBOSI AT IGAWA

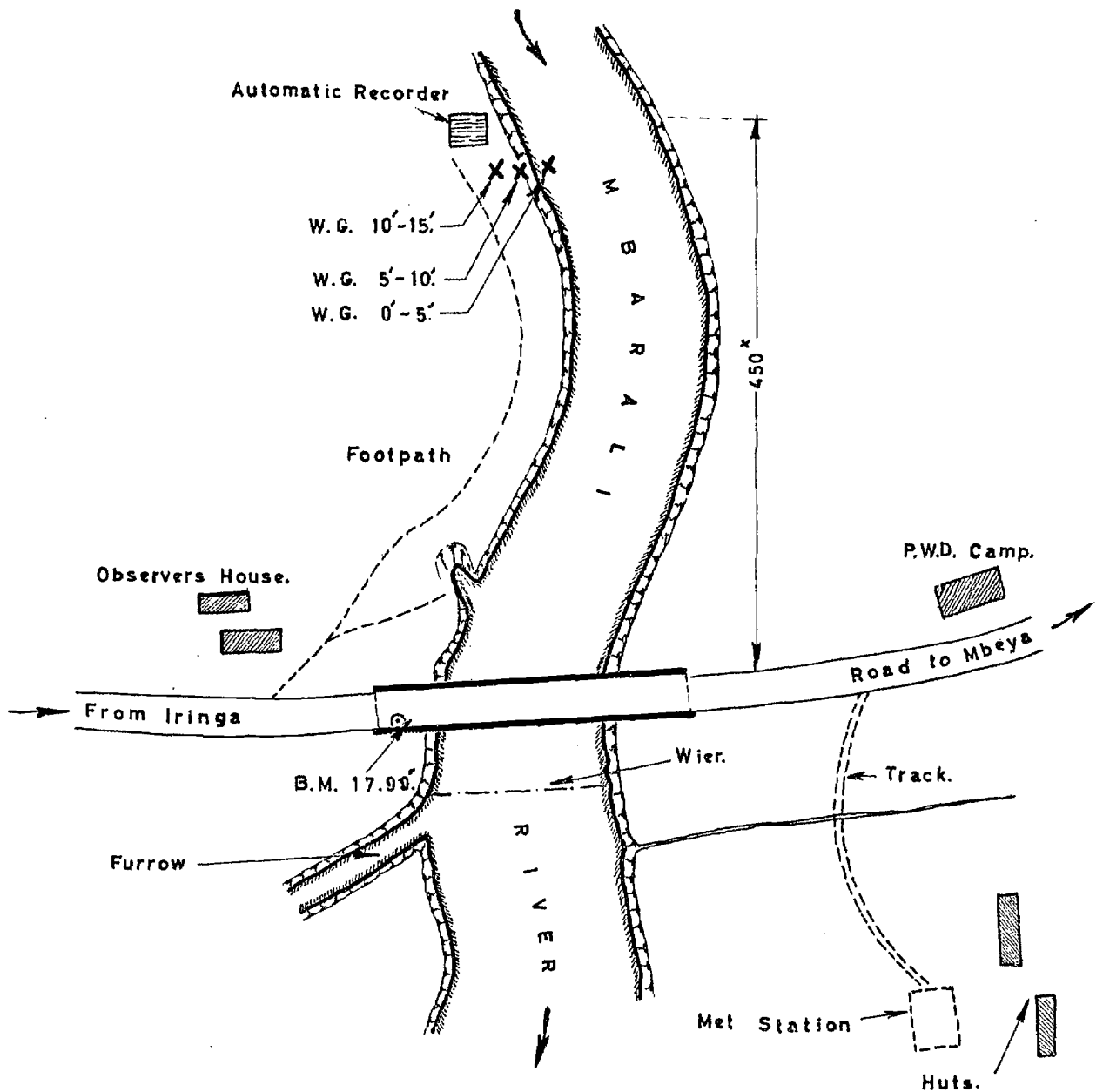
No. 1KA10. Catchment area 95 sq. miles. Latitude  $S34^{\circ}21'$ . Longitude  $E8^{\circ}45'33''$ . WL Gauge established Nov. 1954 and observations started Nov. 1954.

Description of gauges: (0' - 15') vertical gauges, plates screwed to the left hand bridge abutment U/S side.

Description of BM: Marked with white paint on the second ledge from the top of the abutment. A ring with a cross in it.

Height of BM: 12.50'. Gauge zero is 3648.47 ft. above MSL.

Note: The Mlombosi is a sandy river and no permanent rating curve can be established.



### MBARALI AT IGAWA

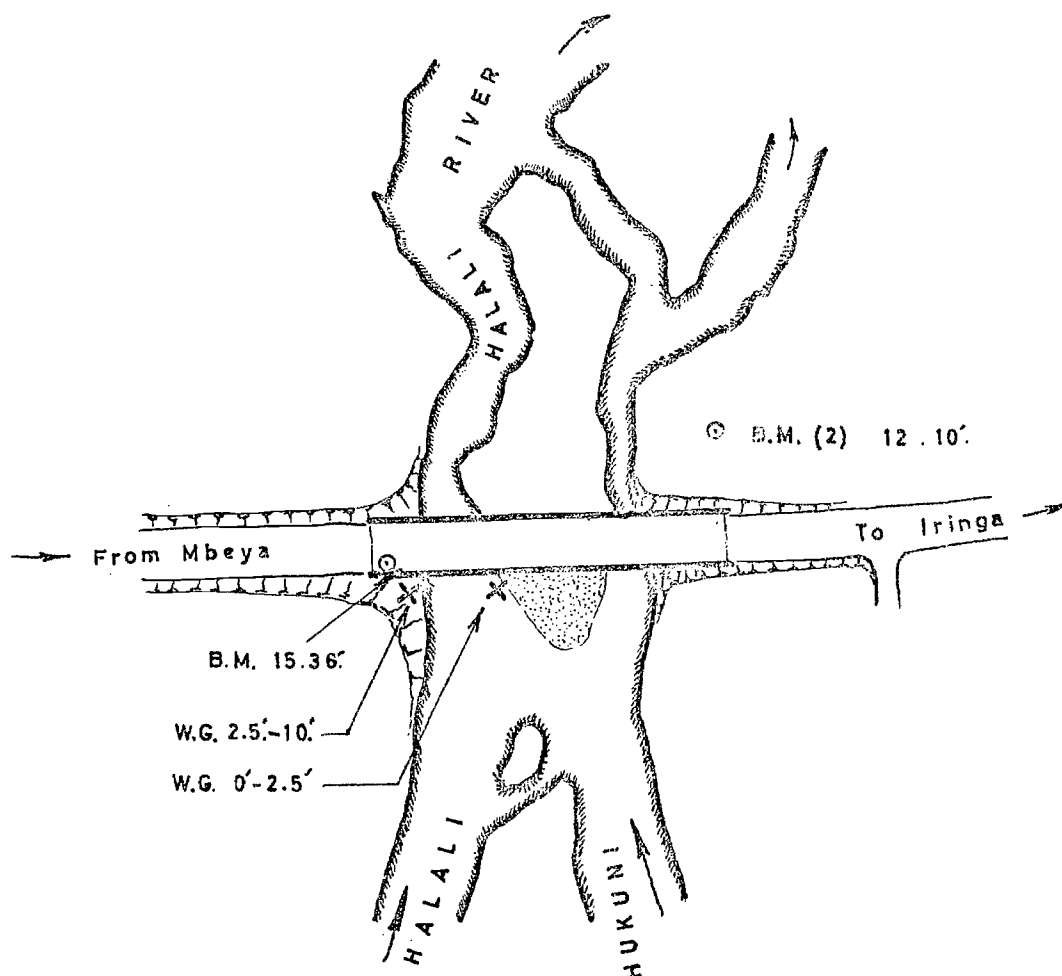
No. 1K11. Catchment area 619 sq. miles. Latitude  $S8^{\circ}46'$ . Longitude  $E34^{\circ}24'$ .  
 W.L. Gauge established Nov. 1954 and observations started the same month.

Description of gauges: 3 sets of angle iron embedded in concrete (0 - 15').

Description of BM: Bolt on right side abutment, D/S side.

Height of BM: 17.99ft. above gauge zero. Gauge zero is 3594.19 ft. above MSL.

Other installations: 1. Automatic water level recorder, March 1956.  
 2. Meteorological station with following instruments:- ordinary raingauge, auto-  
 matic raingauge, evaporation pan, sunshine recorder, Stevenson's screen with  
 thermometers and thermohygrograph, anemometer.



### HALALI AT IYAYI DOWNSTREAM

No. 1KA12. Catchment area 302 sq. miles. Latitude  $S8^{\circ}51'$ . Longitude  $E34^{\circ}34'$ .  
 WL Gauge established Nov. 1954 and observations started the same month, but observations during the first two years are not reliable.

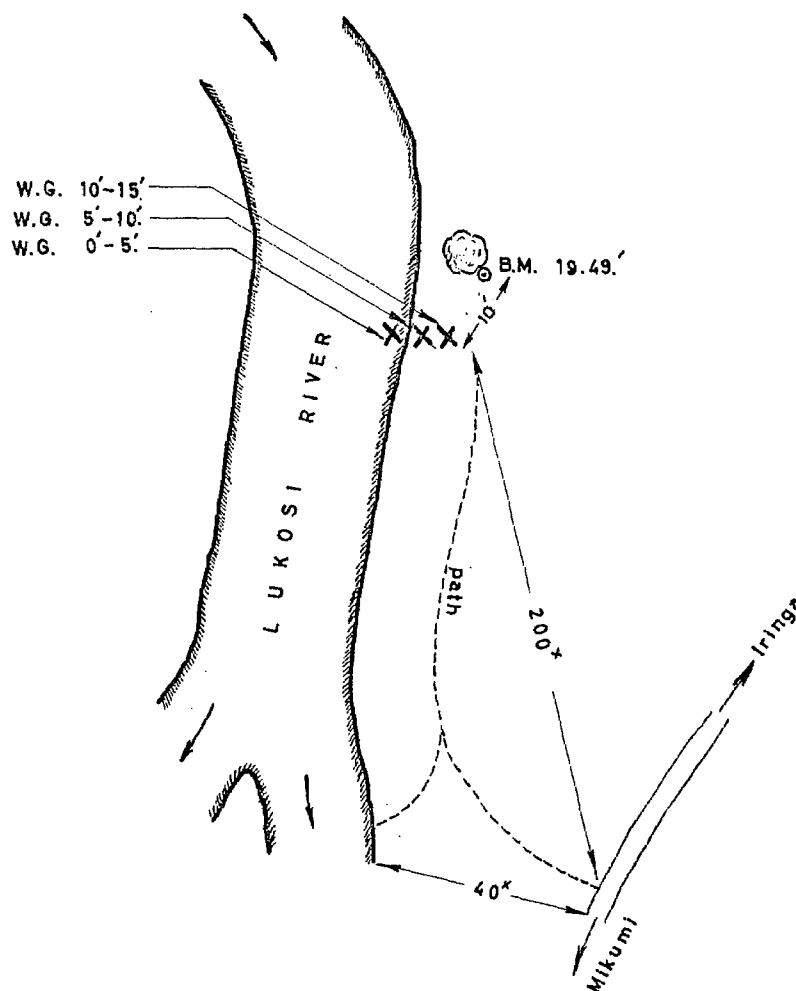
Description of gauges: Vertical gauges fixed to the bridge abutments, left hand bank, 0' - 10'.

Description of BM: BM (1) Top of left bank bridge abutment. BM (2) Angle iron embedded in concrete on rock, right bank D/S, 20' from bridge.

Height of BM: BM (1) 15.36'. BM (2) 12.10'.

Access: Accessible throughout the year. Situated along main Iringa-Mbeya road.

Note: Runoff at Halali D/S should equal runoff at Halali U/S plus Hukuni.



### LUKOSI AT MBUYUNI

No. IKA14. Catchment area 1194 sq. miles. Latitude  $S7^{\circ}28'$ . Longitude  $E36^{\circ}33'$ . WL Gauge established Nov. 16th 1955 by WD and ID and observations started Nov. 16th, 1955.

Description of Gauges: Three vertical gauges,  $0' - 5'$ ,  $5' - 10'$ ,  $10' - 15'$ ., screwed to angle iron and embedded in concrete.

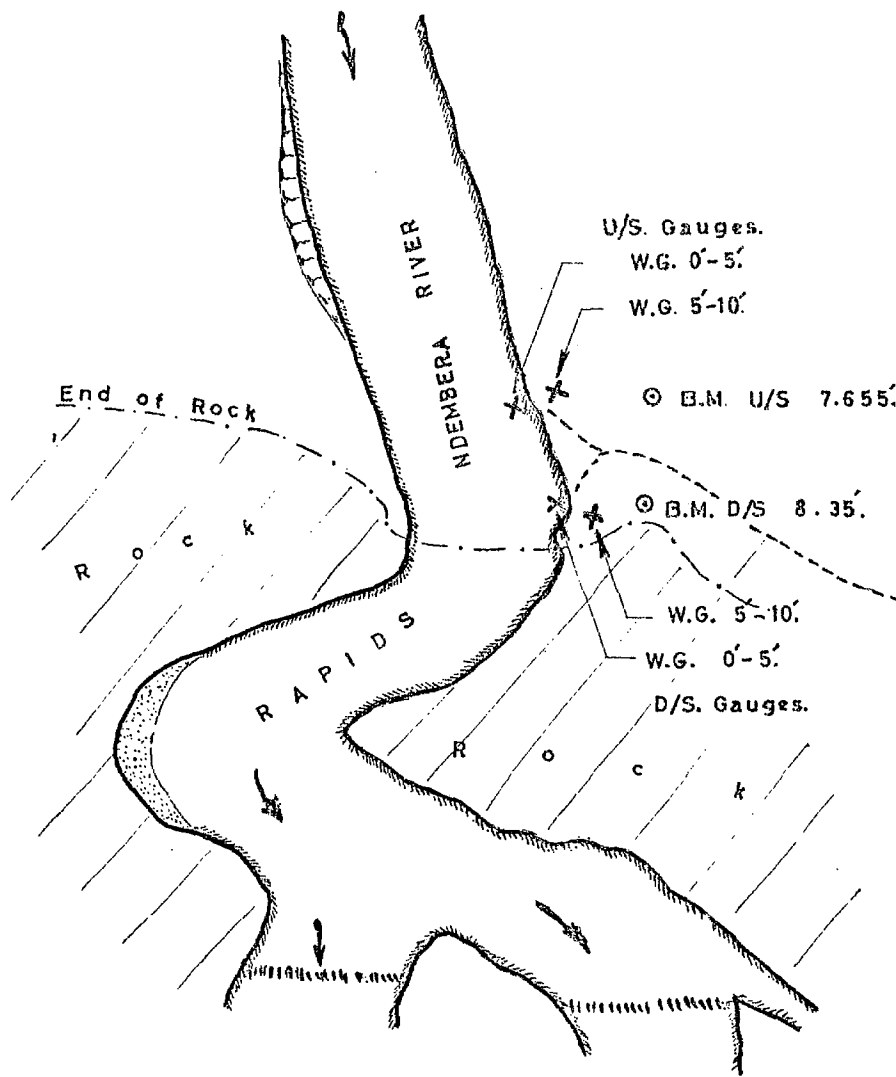
Gross section: Sandy.

Description of BM: Situated under tree, 5 yds. from gauge No. 2. Round iron embedded in concrete bricks.

Height of BM: 19.49'.

Access: Situated along main Morogoro-Iringa road; 120 miles from Morogoro. Accessible throughout the year.

Note: Water samples taken. The water level is influenced by the Great Ruaha and readings transferred to the Mtandika gauge, IKA37.



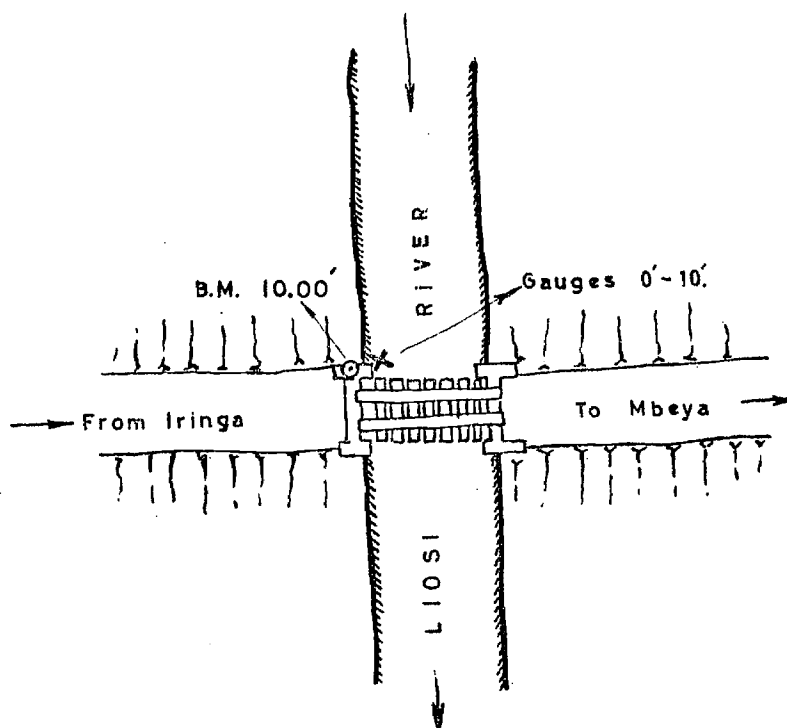
### NDEMBERA AT ILONGO

No. 1KA15. Catchment area 404 sq. miles. Latitude  $S8^{\circ}17'$ . Longitude  $E35^{\circ}12'$ .  
WL Gauge established Feb. 1956 and observations started 12th Feb.

Description of Gauges: 0' - 5' and 5' - 10' established on rock upon waterfalls at Mrs. Penn's house.

Description of BM: Bolt in concrete.

Height of BM: 8.35 ft. above gauge zero. Gauge zero is 5449.09 ft. above MSL.



### LIOSI AT IGORUSI

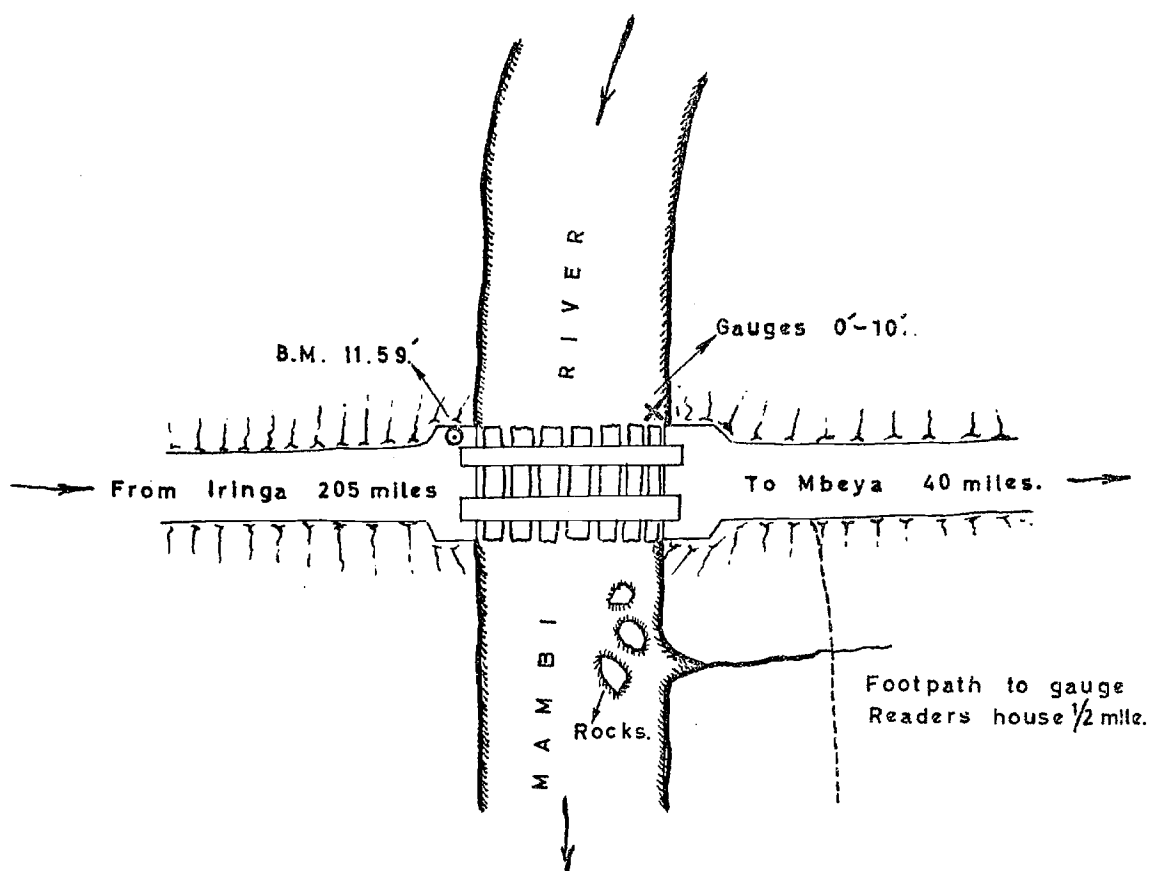
No. 1KA16: Catchment area 30 sq. miles. Latitude  $S8^{\circ}50'$ . Longitude  $E33^{\circ}32'$ .  
WL Gauge established 3. March 1956 and observations started on the same date.

Description of gauges: 0' - 10' gauge plates fixed to right hand bridge abutment U/S side.

Description of BM: Chipped into right hand bridge abutment (U/S.)

Height of BM: 10.00 ft.

Note: Station moved to the new road bridge (10.10.58).



### MAMBI AT KIKANZI

No. 1KA17: Catchment area 32 sq. miles. Latitude  $S8^{\circ}49'$ . Longitude  $E33^{\circ}50'$ .  
 WL Gauge established 15th March 1956 and observations started the same day.

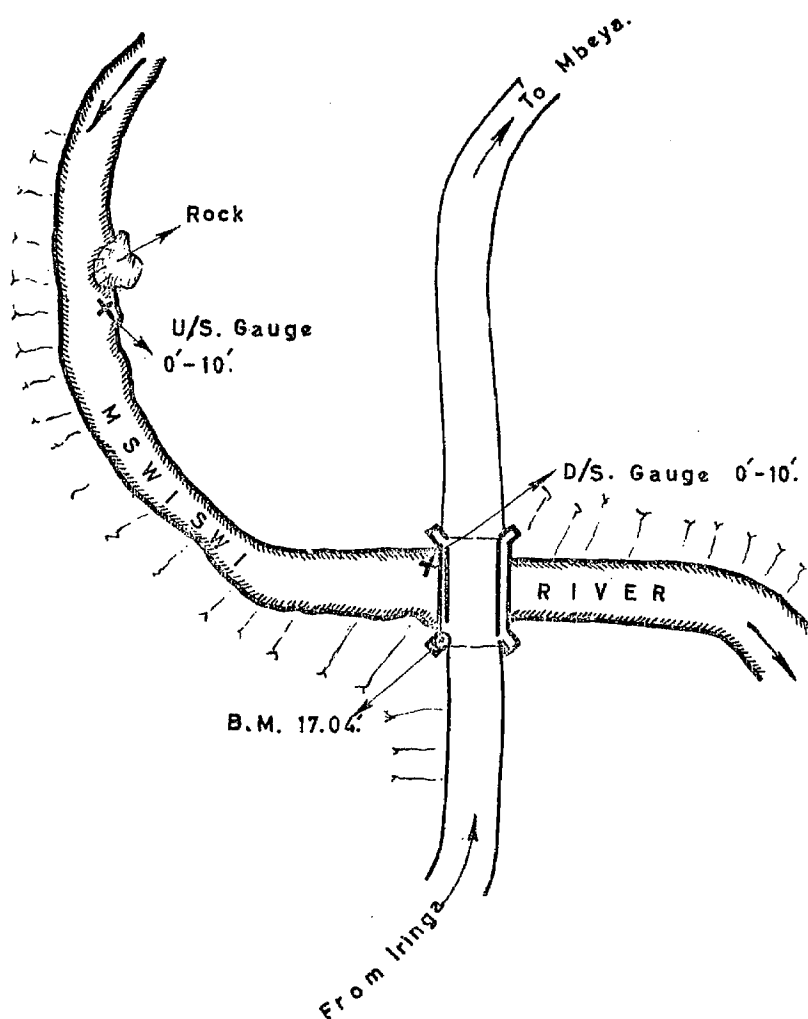
Description of Gauges: (0' - 10') gauge plate screwed to left bank bridge abutment U/S.

Description of BM: Chipped into top of the U/S right bridge abutment.

Height of BM: 11.59 ft.

Note: Station moved to new road Nov. 1958.





### MSWISWI AT GREAT NORTH ROAD

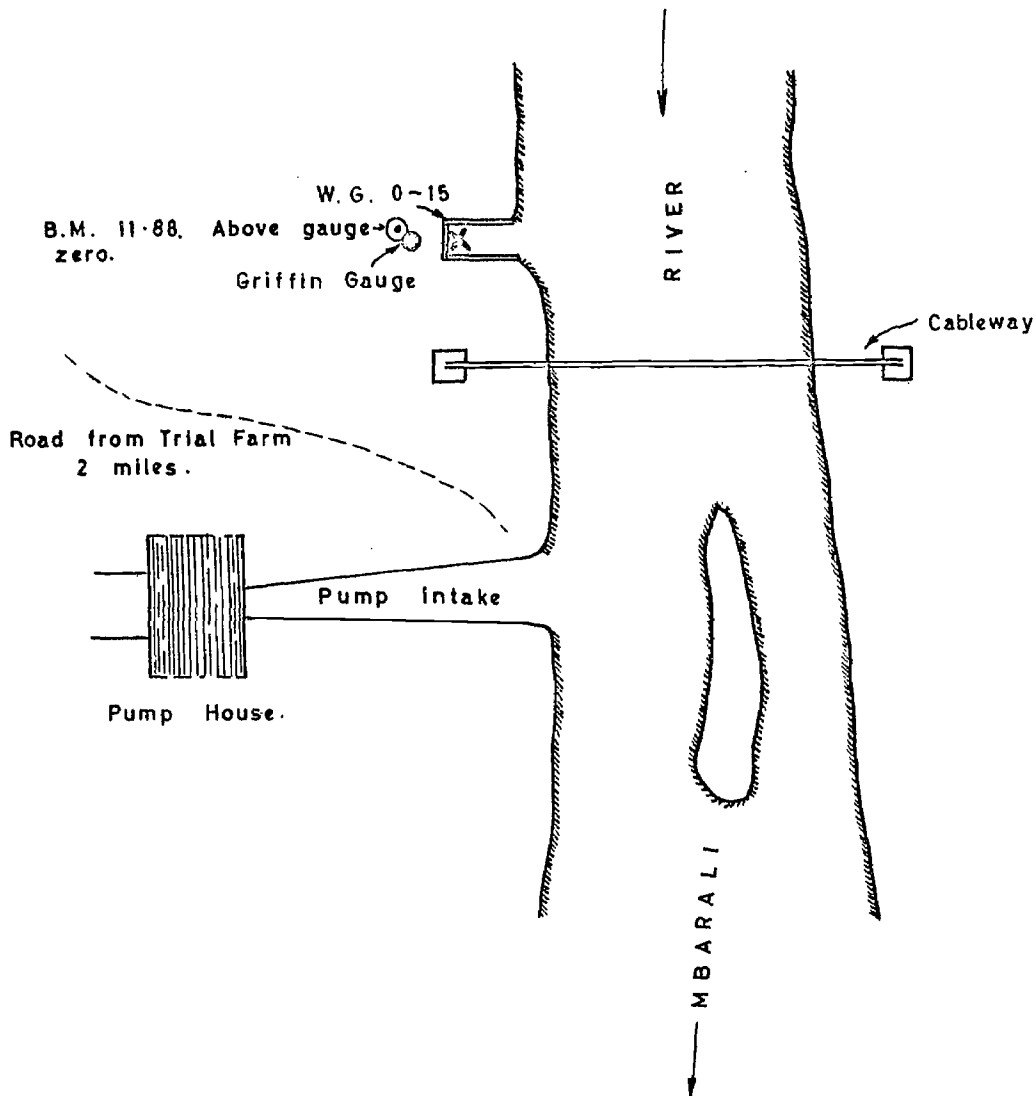
No. LKA18. Catchment area 36 sq. miles. Latitude  $S8^{\circ}50'$ . Longitude  $E33^{\circ}44'$ .  
 WL Gauge established 14th March 1956 and observations started on the same day.

Description of gauges: D/S Installed on left bank bridge abutment. Screwed on to the abutment (0' - 10'). U/S gauges a little distance U/S from bridge, left bank, vertical (0' - 10'), fixed to angle iron and cemented into the ground.

Description of BM: D/S BM painted on right bridge abutment (also refers to U/S gauge).

Height of BM: U/S 12.16'; D/S 17.04'.

Note: Station moved to new road Nov. 1958.



### MBARALI TRIAL FARM

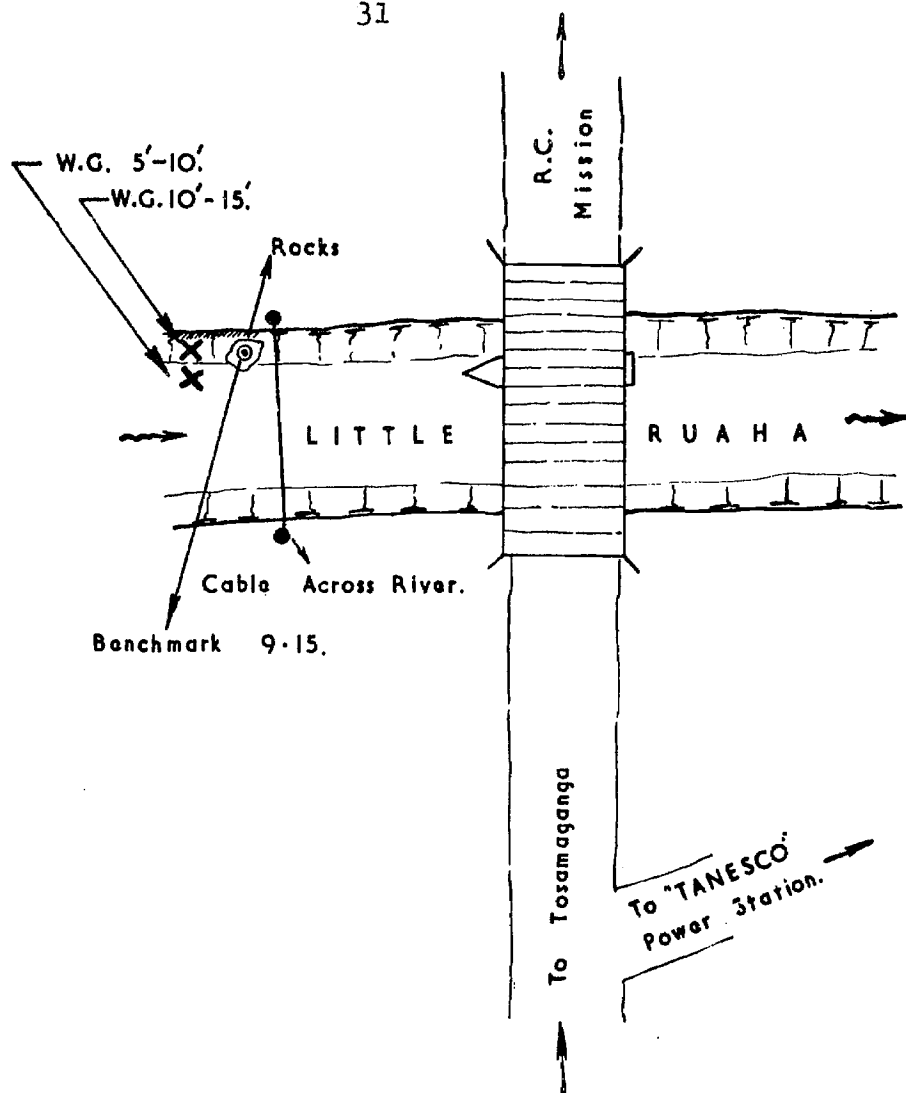
No. 1KA19. Catchment area 762 sq. miles. Latitude  $S8^{\circ}40'$ . Longitude  $E34^{\circ}24'$ .  
 WL Gauge established 1st Aug. 1956 and observations started on the same day.

Description of Gauges: 0' - 15' vertical staff gauge protected by a concrete wall.

Description of BM: Painted on concrete fundament of Griffin Gauge.

Height of BM: 11.88 ft. Gauge zero is 3456.60 ft. above MSL.

Other installations: 1. Griffin Gauge. 2. Meteorological station with meteorological pans, 3 soil thermometers, ordinary raingauge, automatic raingauge, dew gauge.



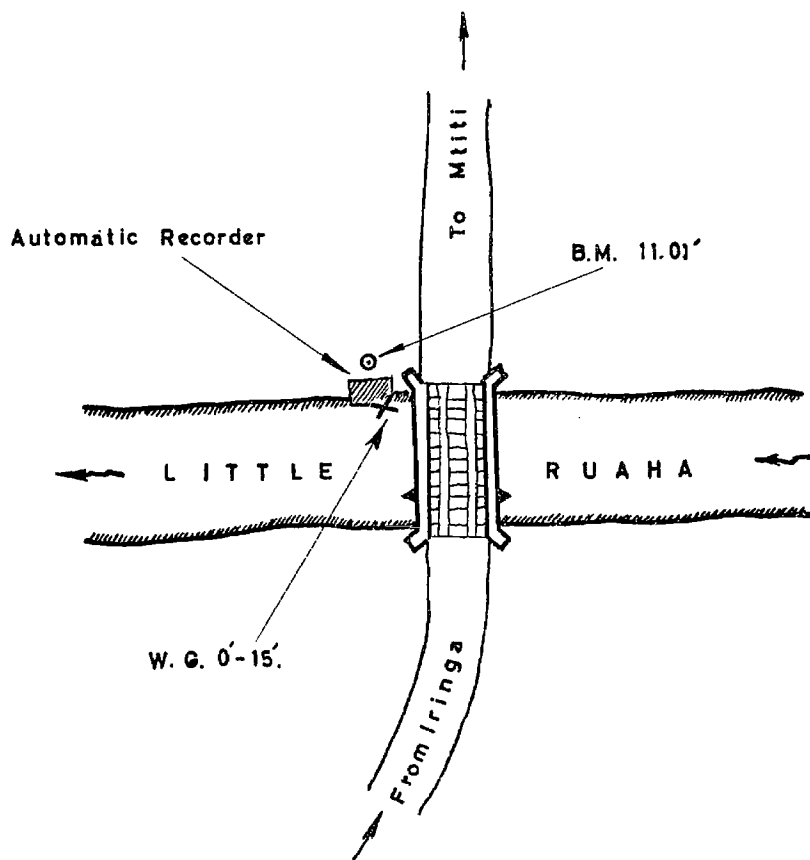
### LITTLE RUAHA AT TOSAMAGANGA

No. 1KA20. Catchment area 1,273 sq. miles. Latitude  $S7^{\circ}52'$ . Longitude  $E35^{\circ}37'$ . WL Gauge established 1st Dec. 1955 by WD and ID and observations started on the same day.

Description of Gauges: (5' - 15') Staff gauge.

Description of BM: Concreted to rock 10 ft. D/S of gauges.

Height of BM: 9.15 ft.



### LITTLE RUAHA AT IHIMBU

No. 1KA21. Catchment area 957 sq. miles. Latitude  $7^{\circ}53'S$ . Longitude  $35^{\circ}48'E$ . WL Gauge established April 1957 and observations started on 8th April 1957.

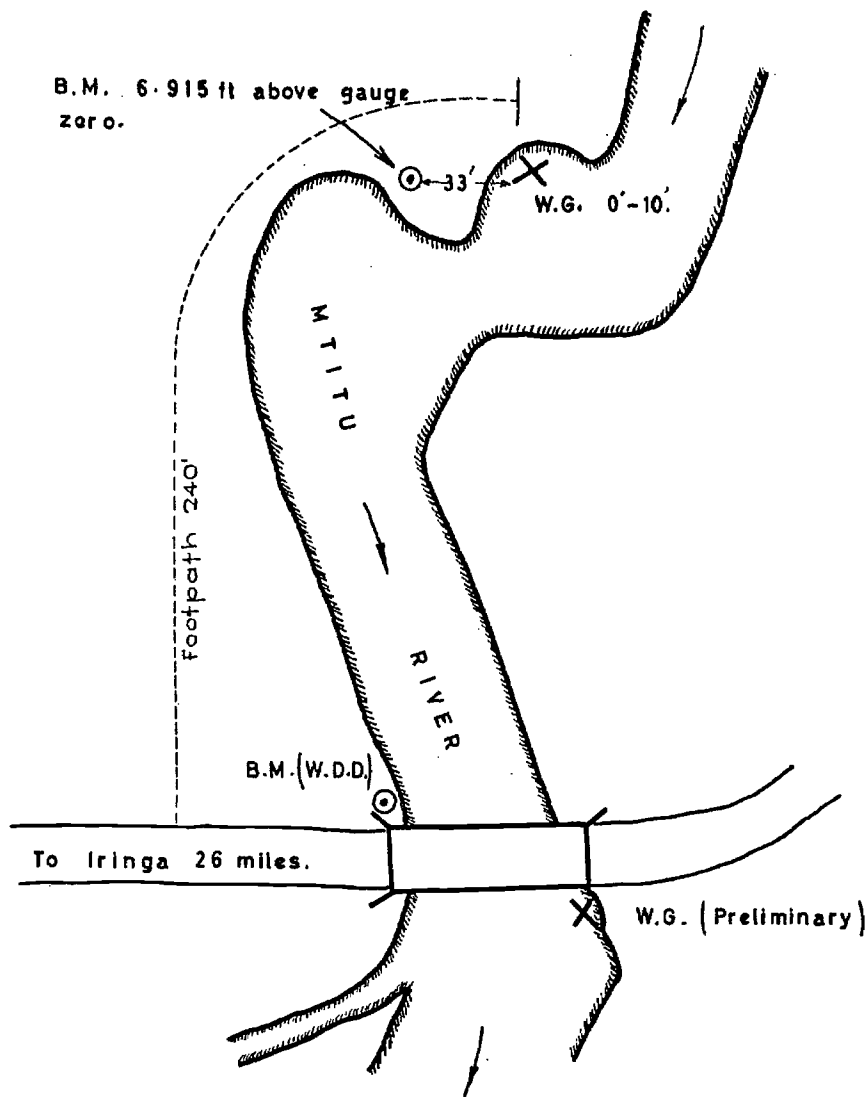
Description of gauges: 0' - 15' gauge, vertical. Cross section, rock.

Description of BM: Painted on rock near the gauge.

Height of BM: 11.01 ft.

Other installations: 1. Automatic WL recorder. 2. Griffin gauge. 3. Permanent steel cable for measurements.

Access: Accessible throughout the year. 16 miles from Iringa on Dabaga loop.



### MTITU AT MTITU

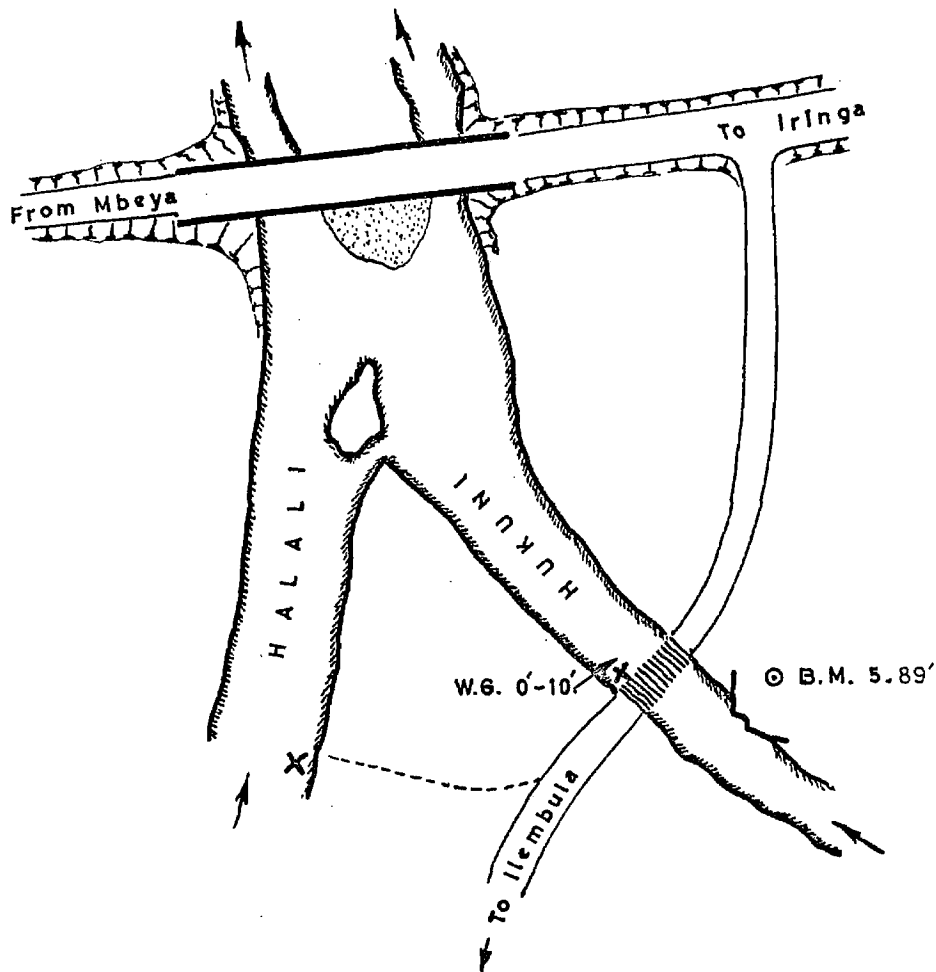
No. 1KA22. Catchment area 172 sq. miles. Latitude  $S8^{\circ}1'$ . Longitude  $35^{\circ}47'E$ .  
 WL Gauge established 26th May, 1957 and observations started on the same day.

Description of Gauges: Staff gauge 0 - 7 ft. Cross section partly rocks.

Description of BM:  $\frac{1}{2}$ " bolt fixed in rock with concrete.

Height of BM: 6.915 ft.

Access: Accessible throughout the year. 26 miles from Iringa on Dabaga loop.



HUKUNI AT IYAYI

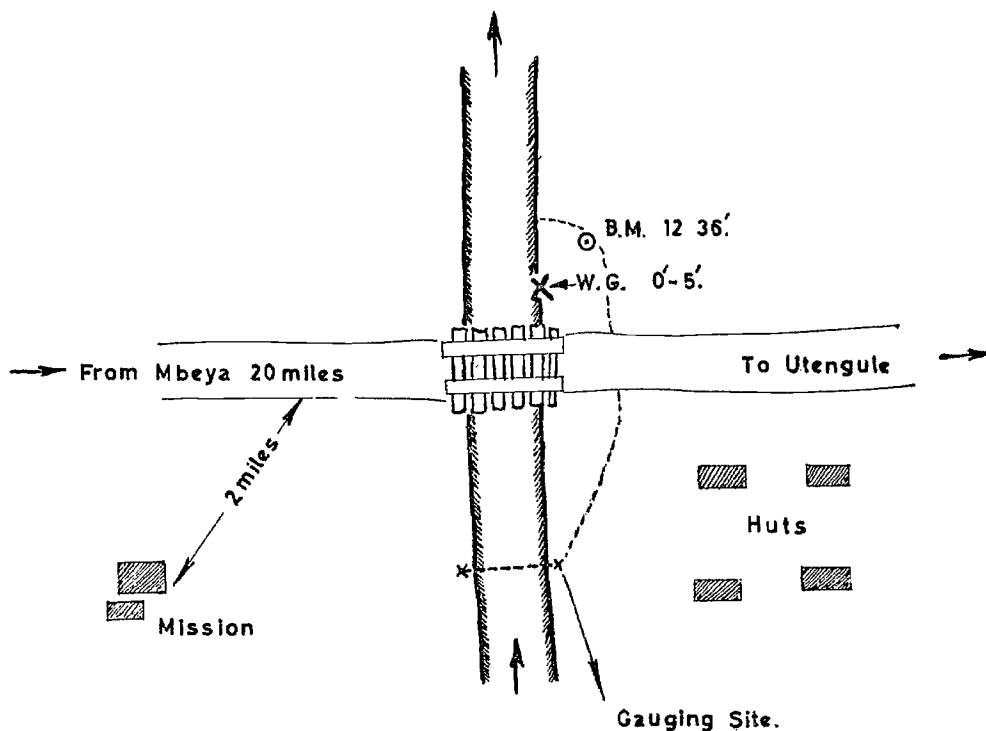
No. 1KA23. Catchment area 118 sq. miles. Latitude  $S8^{\circ}51'$ . Longitude  $E34^{\circ}34'$ .  
 WL Gauge established Dec. 1956. Observations started the same month.

Description of gauges: Vertical gauge plates (7') on left hand bridge abutment.

Description of BM: Angle now embedded in concrete on rock opposite side of river from gauge.

Height of BM: New gauge 5.89'.

Access: Always accessible situated along the main Iringa-Mbeya road 450 ft. off the road.



### UMROBO AT RUIWA

No. 1KA24. Catchment area 49 sq. miles. Latitude  $S33^{\circ}39'$ . Longitude  $E8^{\circ}46'$ .  
 WL Gauge established 5th Sept. 1956 and observations started on the same date.

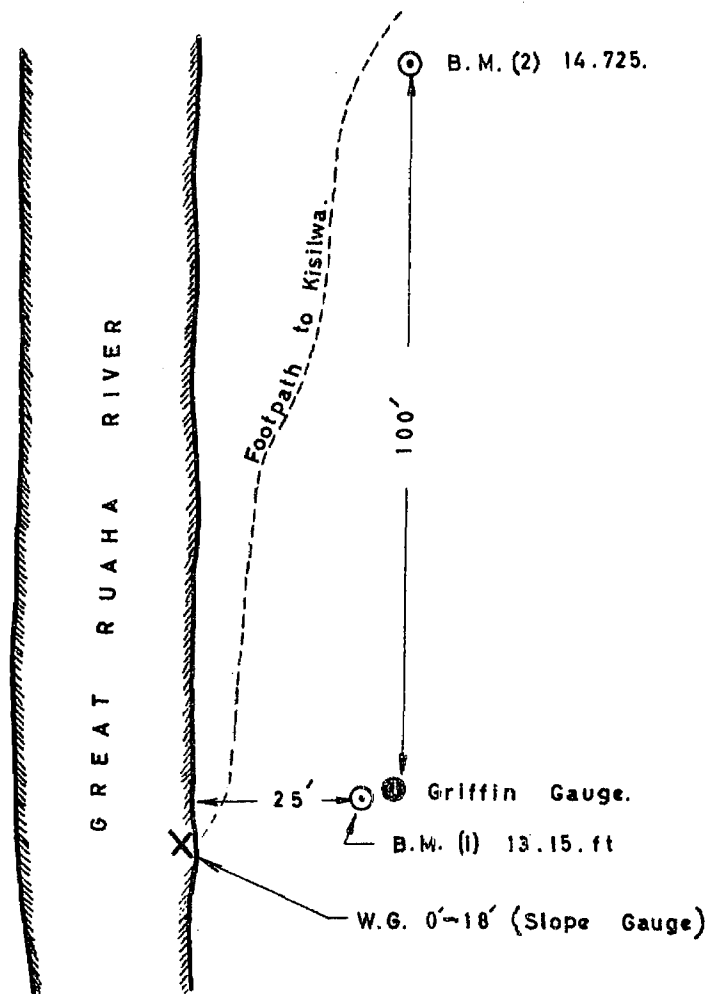
Description of gauges: (0' - 5') Vertical gauge fixed to angle iron. Replaced with gauges up to 10 ft., 6.10.1957.

Description of BM: Angle iron embedded in concrete.

Height of BM: 12.36 ft.

Access: Only accessible by vehicle during the dry season.

Note: Only low flow measurements were taken here. Station then moved to bridge on new road.



### GREAT RUAHA AT KISILWA CROSSING

No. 1KA26. Catchment area 13844 sq. miles. Latitude  $S7^{\circ}13\frac{1}{2}'$ . Longitude  $E35^{\circ}33\frac{1}{2}'$ . WL Gauge established Nov. 1956, and observations started 16th Nov. 1956.

Description of gauges: Scale 0' - 14'. Vertical gauge. Gauge established on right bank. Cross section sandy.

Description of BM: BM (1)  $\frac{1}{2}$ " iron bolt fixed in base of Griffin gauge.  
BM (2)  $\frac{1}{2}$ " iron bolt knocked into hard-wood tree..

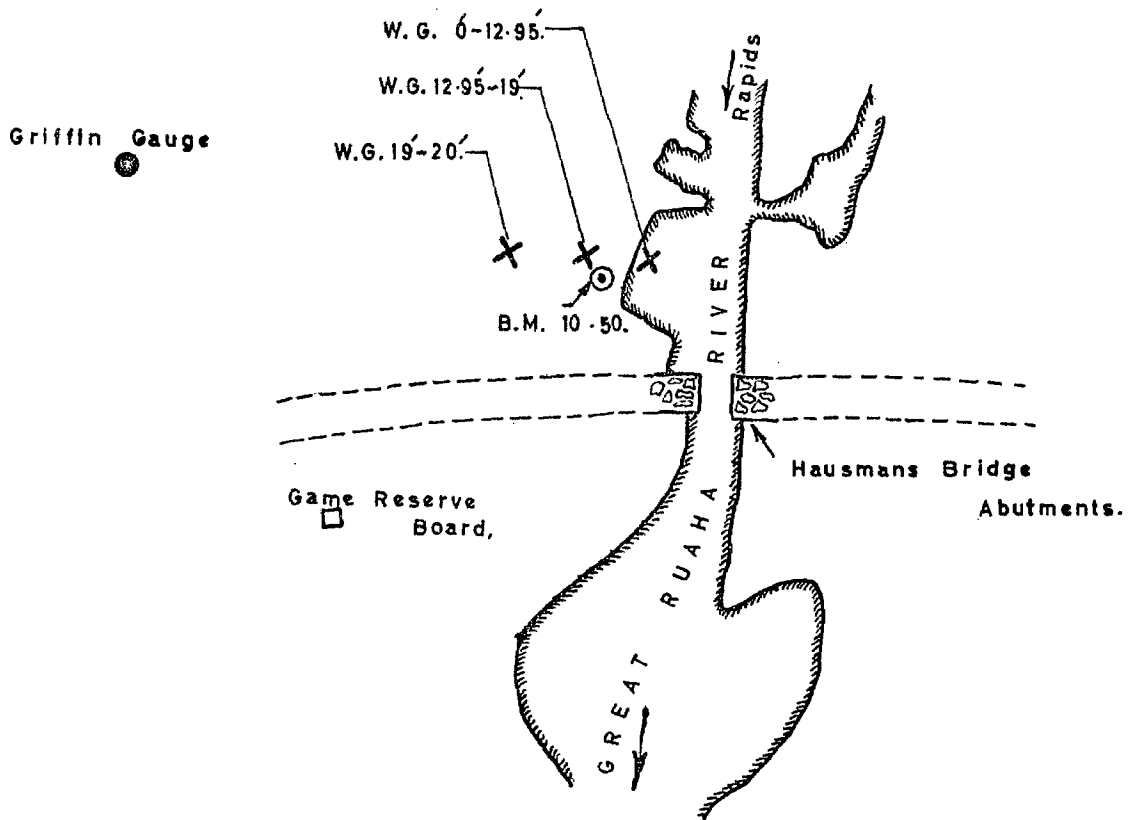
Height of BM: BM (1) 13.15 ft. BM (2) 14.725 ft.

Other installations: Griffin gauge. Zero point 13.23 ft. above zero point of ordinary WL gauge.

Access: Accessible in dry and semi-wet weather. Unaccessible in high flood. About 50 miles from Iringa on Pawaga road.

Note: Originally a slope gauge with an angle of slope  $56^{\circ}$ , was established. This was converted into a vertical gauge on 31st Oct. 1958. Readings on slope gauge are transferred to vertical heights.





### GREAT RUAHA HAUSM. BRIDGE (MKOPULE)

No. 1KA27. Catchment area 7700 sq. miles. Latitude  $8^{\circ}0'S$ . Longitude  $34^{\circ}35'E$   
 WL Gauge established Nov. 1956 and observations started 29th Nov. 1956.

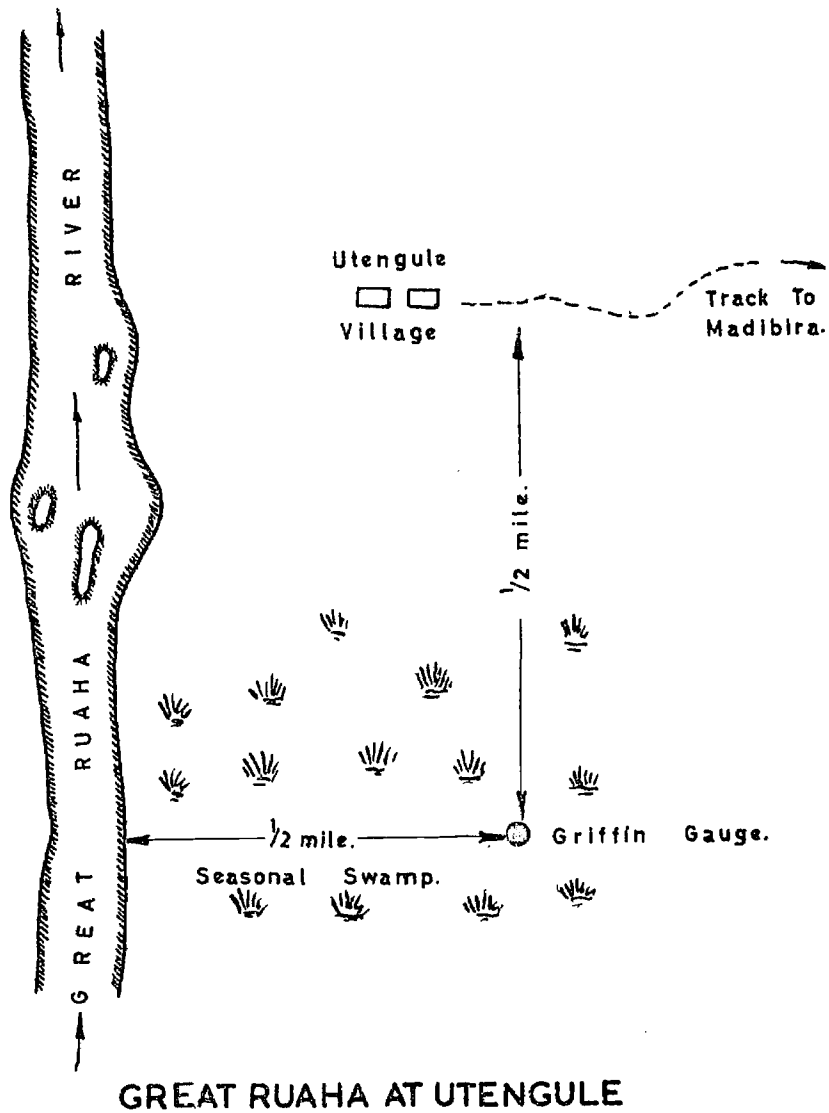
Description of gauges: 0' - 20' gauge. Cross section, rock.

Description of BM: An iron bolt fixed in rock, about 5 ft. north of 12.95' - 19.00' gauge staff.

Height of BM: 10.50 ft.

Other installations: Griffin gauge with zero point corresponding to 16.00' on WL gauge.

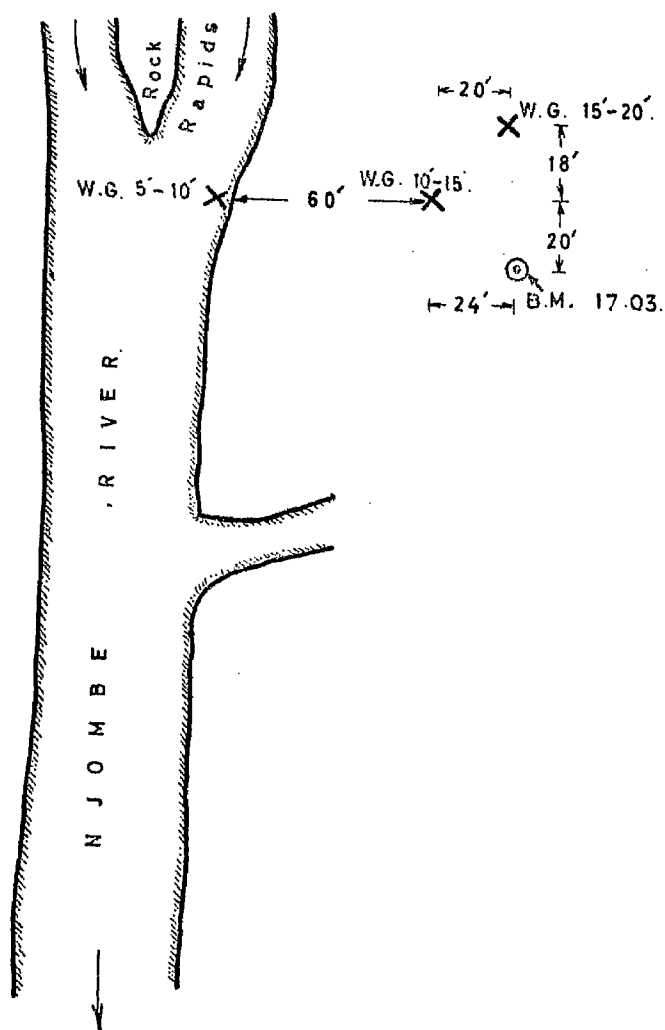
Access: Accessible in dry season via Madibira as well as via Idodi. Not accessible by motor transport in wet season. About 120 miles from Iringa.



No. 1KA28. Griffin gauge only. Latitude  $S8^{\circ}14'$ . Longitude  $E34^{\circ}32'$ .  
Griffin gauge established Dec. 1956.

Description of gauge: Fixed to a tree  $\frac{1}{2}$  mile from Utengule village and  $\frac{1}{2}$  mile from the river.

Access: Accessible in dry season by vehicle via Madibira.



### NJOMBE AT IFUMBA

No. 1KA29. Catchment area 5438 sq.miles. Latitude  $S6^{\circ} 55'40''$ . Longitude  $E35^{\circ}5'$ . WL Gauge established 9th February 1957 and observations started on the same date.

Description of gauge: 0' - 20' gauge. Rocky section.

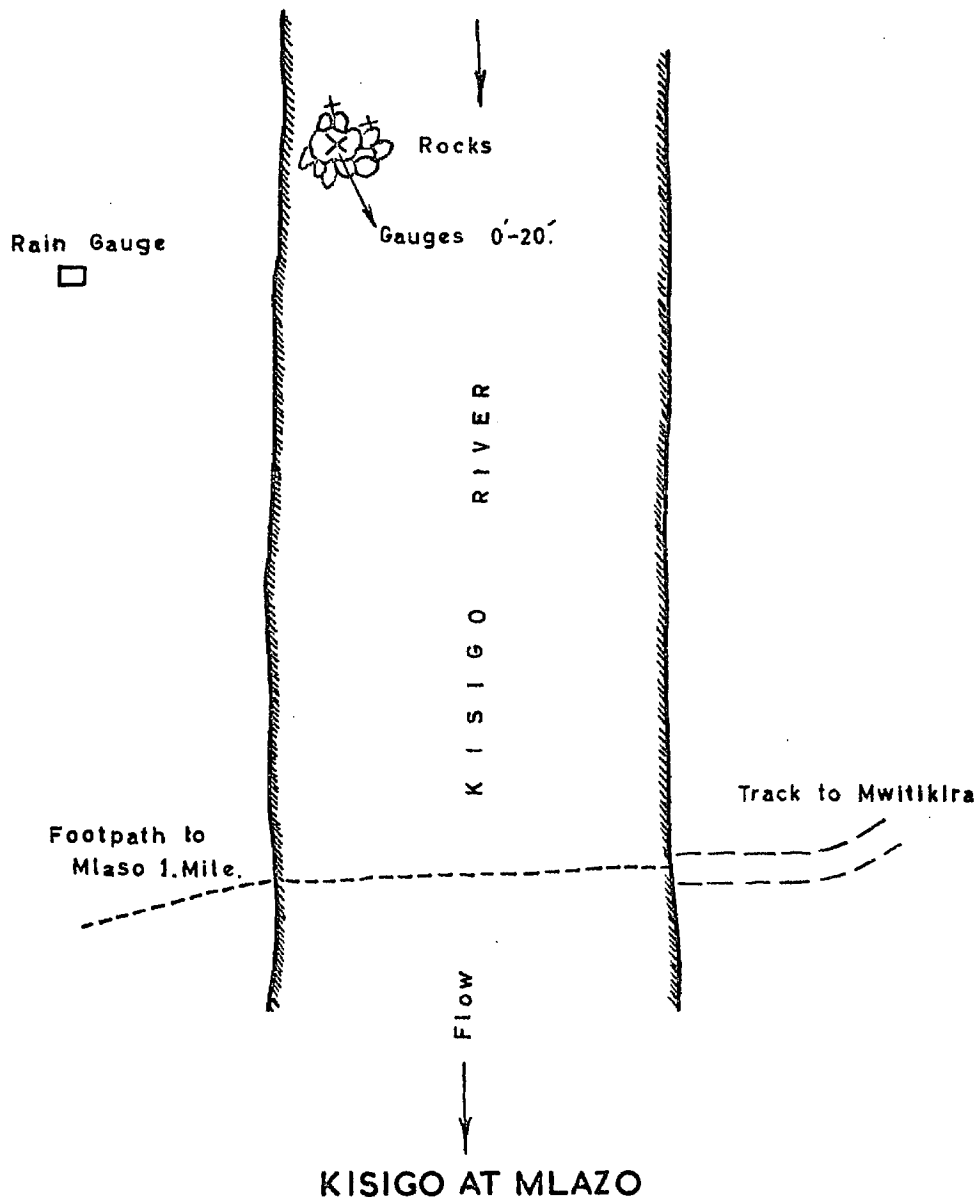
Description of BM: Iron bolt concreted on rock.

Height of BM: 17.03'.

Other installations: Rain gauge.

Access: Accessible in dry and semi-wet weather. Unaccessible for about 2 weeks immediately after heavy rains. 6 miles from Ilangali.

Note: New gauge (0 - 15') established U/S of rapids about 500 ft. above old gauge (November 1958).



No. 1KA30. Water level gauge only. Latitude  $S7^{\circ}3'$ . Longitude  $E35^{\circ}42'$ .  
 WL Gauge established 10th Dec. 1956 and observations started on the same date.

Description of gauge: 0' - 20' gauge. Cross section, sand.

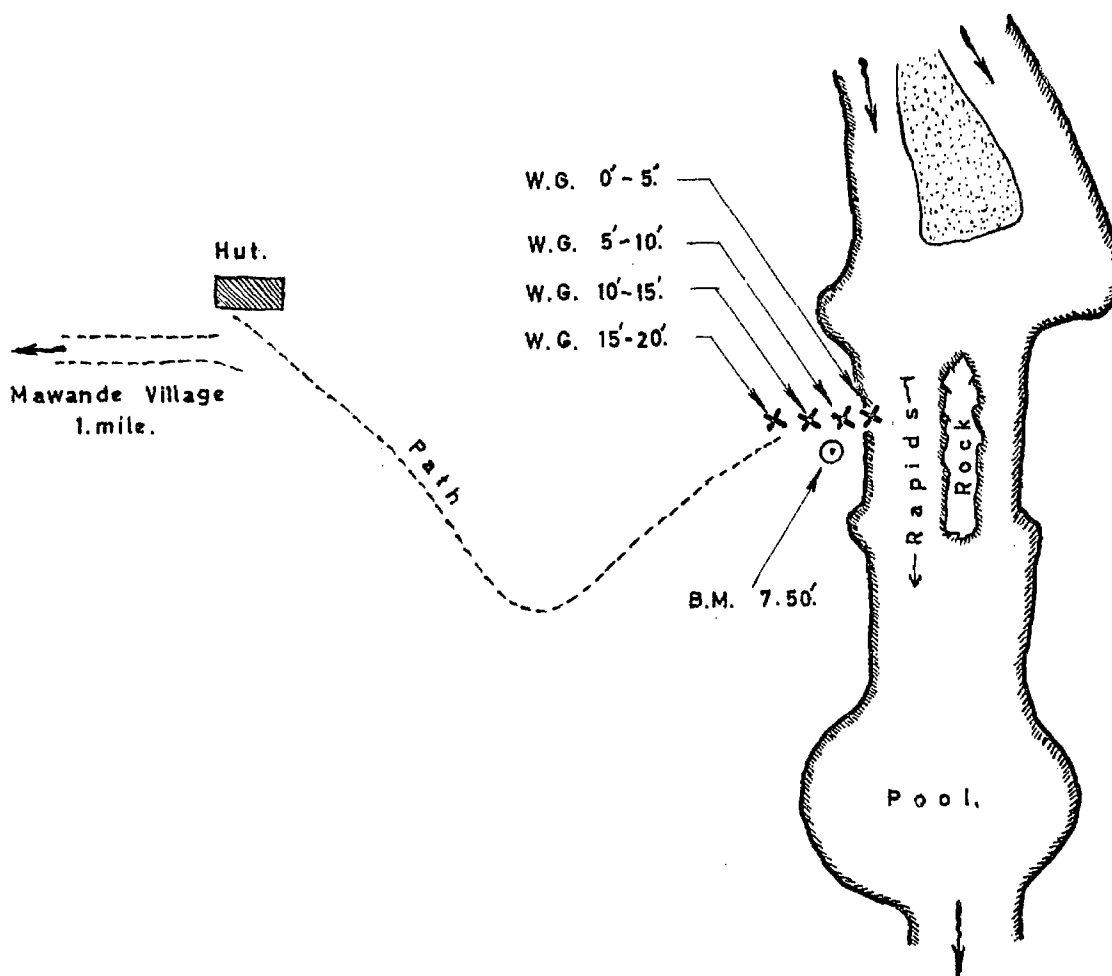
Description of BM: Painted on rock near the gauge.

Height of BM: 8.64'.

Other installations: Rain gauge.

Access: Accessible from Mtera in dry season only.

Note: Readings abandoned 1959.



### LITTLE RUAHA AT MAWANDE

No. 1KA31. Catchment area 2005 sq. miles. Latitude  $S7^{\circ}30'$ . Longitude  $E35^{\circ}30'$ . WL Gauge established 21st Nov. 1956 and observations started on the same date.

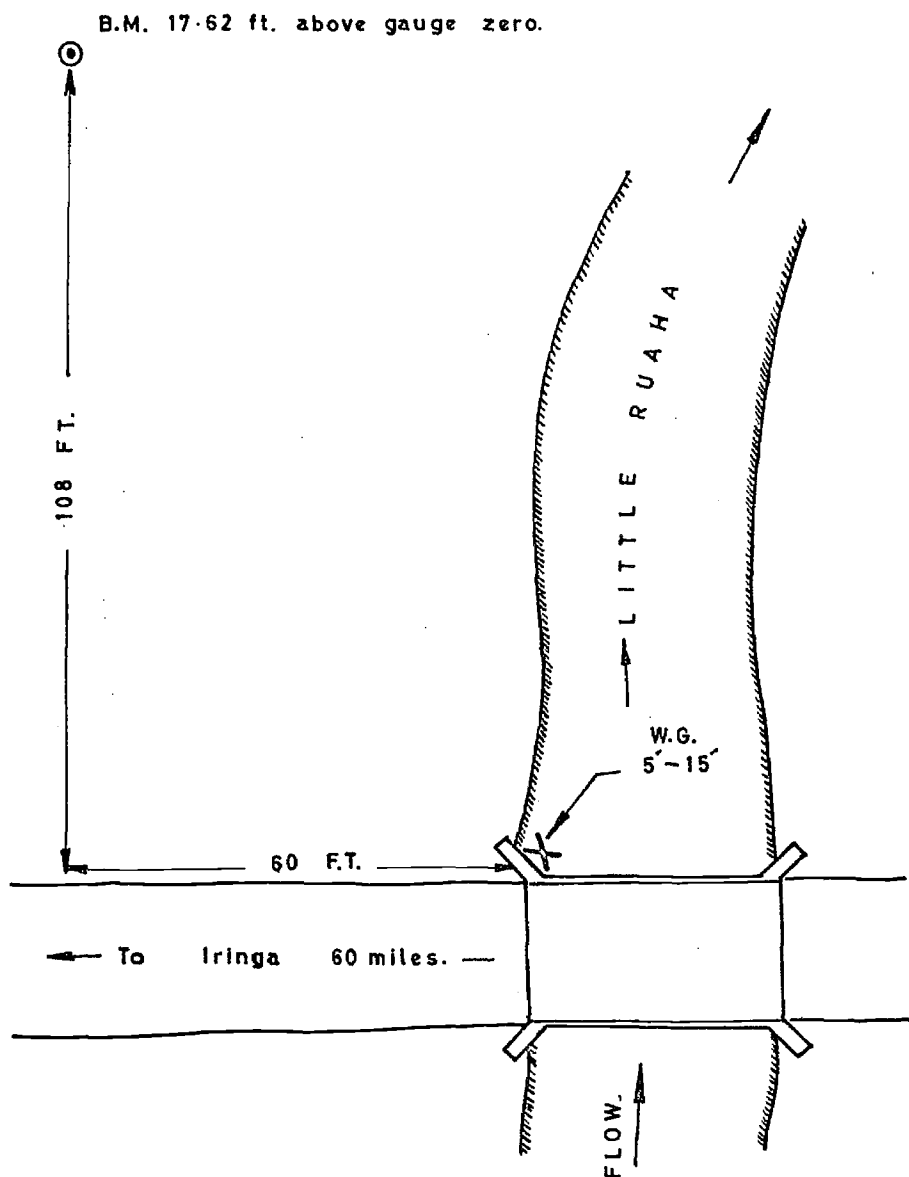
Description of gauge: 0' - 20' gauge. Cross section rocky.

Description of BM:  $\frac{1}{2}$ " bolt held in concrete on a rock ledge.

Height of BM: 7.50 ft.

Other installations: Griffin gauge, 16th Dec. 1958. Zero of GG., corresponds to 10.96 on staff gauge.

Access: Accessible throughout the year; 36 miles from Iringa on Pawaga road.



### LITTLE RUAHA AT SOUTHERN HIGHLANDS CLUB

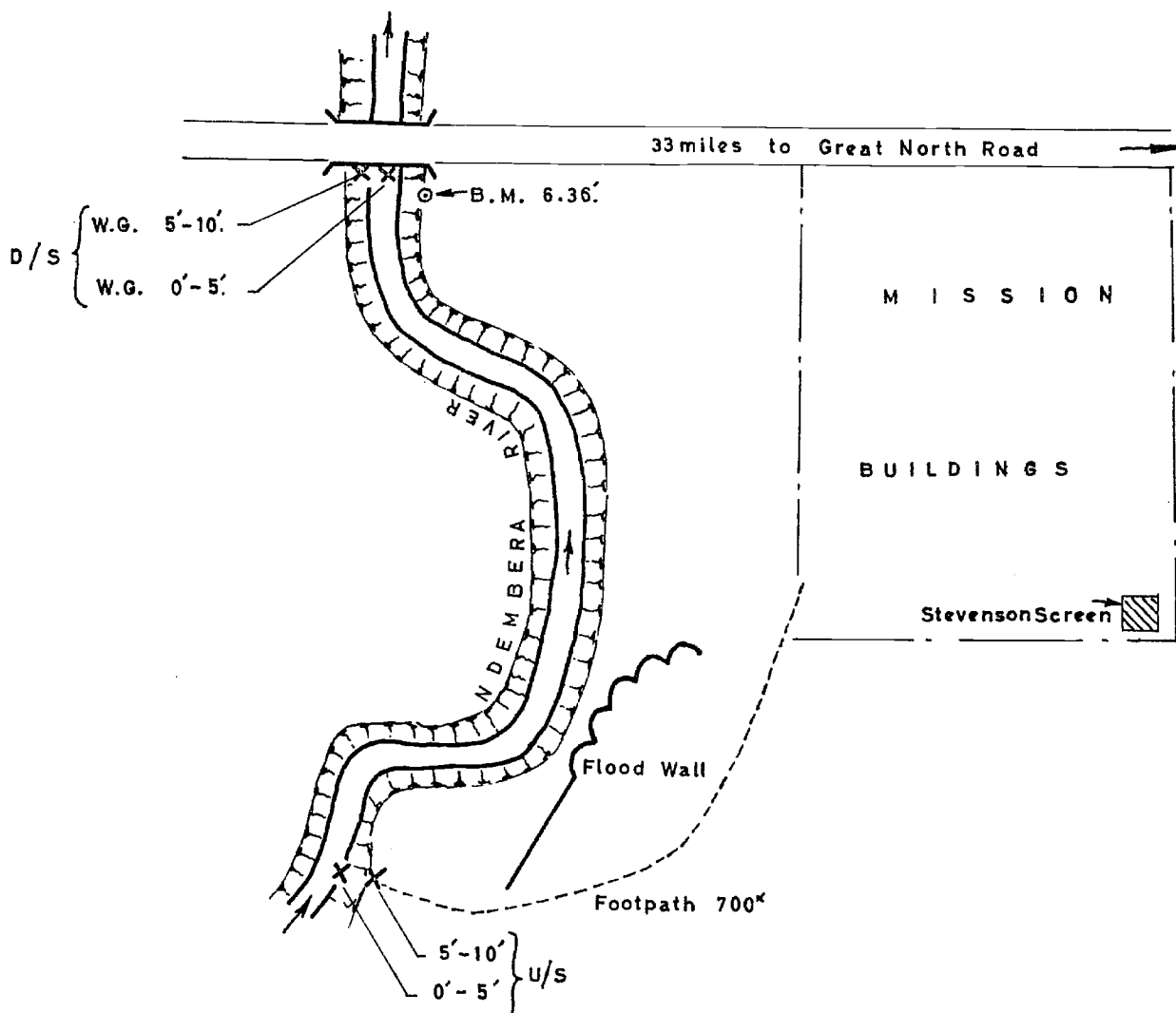
No. 1KA32: Catchment area 293 sq. miles. Latitude  $S8^{\circ}20\frac{1}{3}'$ . Longitude  $E35^{\circ}20'$ . WL Gauge established 26th June 1957 and observations started the same date.

Description of gauge: 0' - 15' gauge on D/S side of left hand abutment. Section, rocky.

Description of BM:  $\frac{1}{2}$ " bolt fixed in rock with concrete.

Height of BM: 17.62 ft. Gauge zero is 5894.54 ft. above MSL.

Access: Accessible throughout the year. 60 miles from Iringa on Mufindi loop.



### NDEMBERA AT MADIBIRA

No. 1KA33. Catchment area 707 sq. miles. Latitude  $S8^{\circ}14'$ . Longitude  $E38^{\circ}48'$ . WL gauge established Aug. 1957 and observations commenced 1st Sept. 1957.

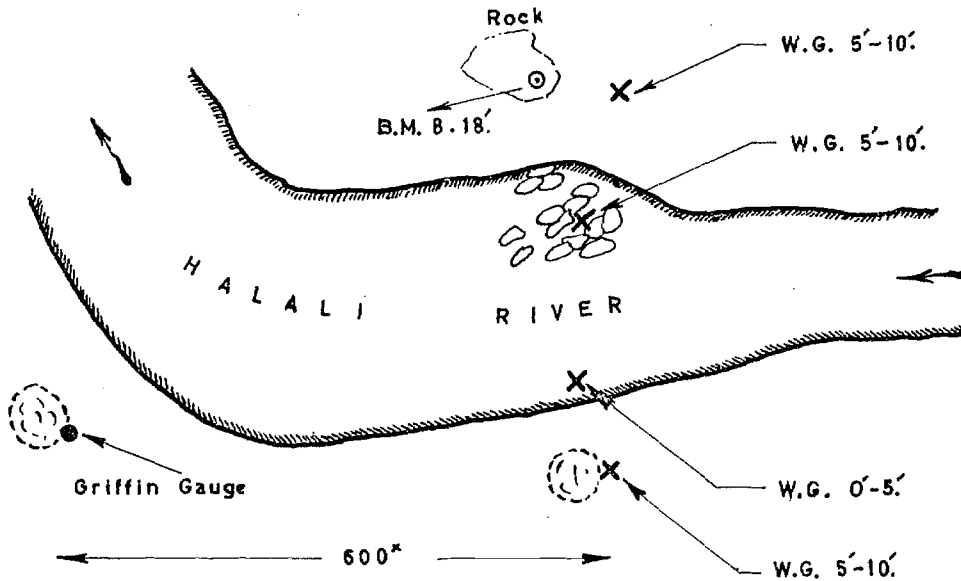
Description of gauge: D/S gauge 0' - 10' plates nailed to timber and bolted to the bridge abutments. U/S gauges 0' - 10' fixed to angle iron and embedded in concrete. 700 yards along footpath from Mission buildings.

Description of BM:  $\frac{1}{2}$ " iron bolt concreted to rock one U/S and one D/S.

Height of BM: U/S 6.035; D/S 3.36. Downstream gauge zero is 3490.97 ft. above MSL.

Other installations: Meteorological screen with dry, wet, max., and min., thermometers.

Access: Easily accessible in dry season, difficult during rains. 93 miles from Iringa.



### HALALI AT TUNDUMA

No. 1KA34: Catchment area 377 sq. miles. Latitude  $S8^{\circ}40'$ . Longitude  $E34^{\circ}30'$ . WL Gauge established Oct. 1958 and observations started 1st Nov. 1958.

Description of gauge: Right hand bank: Plates (0'5') fixed angle iron and cemented to rock. Plate (5' - 10') fixed to trunk of big tree. Extra plate fixed (0' - 1.2'). Left hand bank: Plate (0' - 5') fixed to angle iron and driven into the ground. (5' - 10') fixed to big tree trunk.

Description of BM: Chipped out of rock, 15 feet from right hand bank gauge plate (5' - 10').

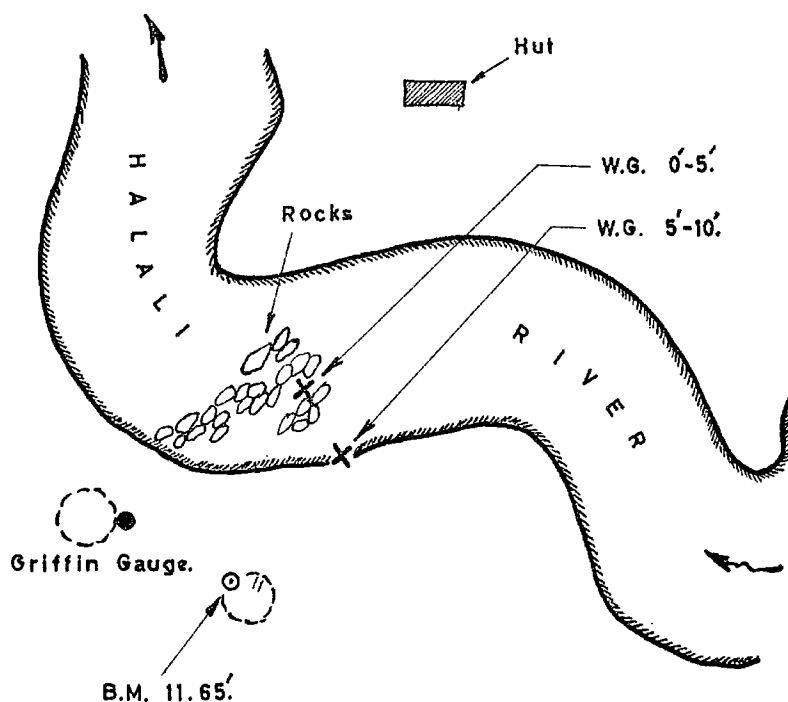
Height of BM: Right hand bank 8.18'. Left hand bank 8.17'. Right bank gauge zero is 3667.20 ft. above MSL.

Other installations: Griffin gauge installed about 600' downstream of gauges fixed to a tree. Installed 22.10.1958. BM is 0.14' higher than the bottom of the Griffin Gauge.

Access: Accessible only during the dry season. Distance, 11 miles from Rujewa.

Note: During high flood some water goes in the Ndega diversion. See station No. 1KA52.





### HALALI AT MAJOJOLO

No. IKA36. Catchment area 1014 sq. miles. Latitude  $S8^{\circ}40'$ . Longitude  $E34^{\circ}30'$ . WL Gauge established Oct. 1958 and observations started 1st Nov. 1958.

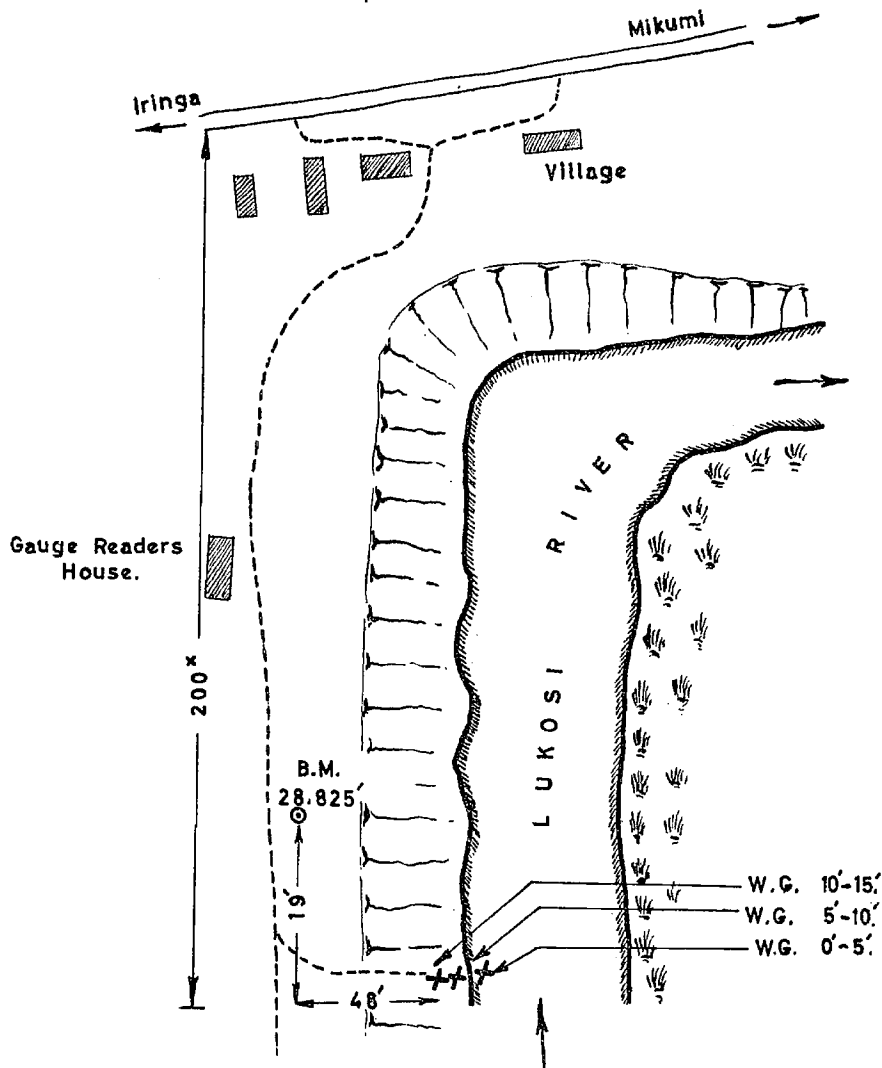
Description of gauges: Plates 0' - 5' and 5' - 10' fixed to angle iron and concreted to rocks.

Description of BM: Hexagonal bolt embedded in concrete at the foot of a big tree close to the gauges.

Height of BM: 11.65'. Gauge zero is 3640.45 ft. above MSL.

Other installations: Griffin gauge installed 23.10.58. Height of BM above the bottom of the Griffin gauge 1.20'.

Access: Only during the dry season. 11 miles from Rujewa.



### LUKOSI AT MTANDIKA

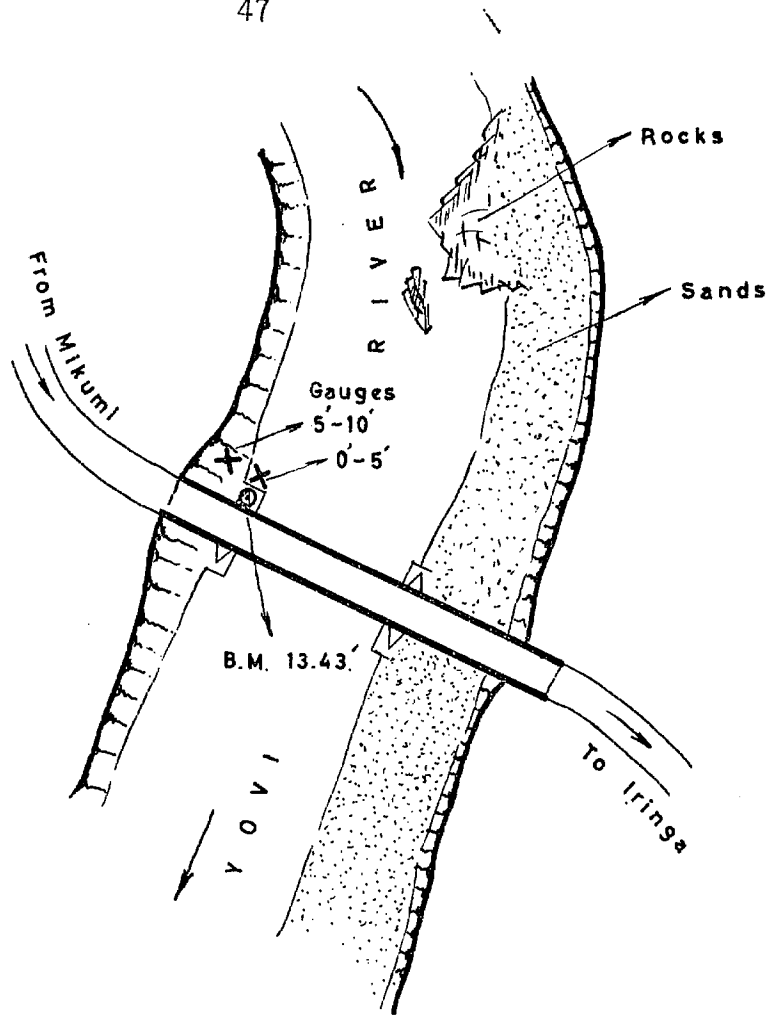
No. 1KA37. Catchment area 1117 sq. miles. Latitude  $S7^{\circ}34'$ . Longitude  $E36^{\circ}26'$ . WL Gauge established April 1957 and observations started 14th April 1957.

Description of Gauges: Gauge plates bolted to lengths of angle iron concreted firmly into the ground.

Description of BM: The BM. is a bolt head embedded in a concrete mound near the rough road.

Height of BM: 28.83 ft.

Access: 9 miles along the main Iringa road from Mbuyuni. Accessible throughout the year.



### YOVI AT GREAT RUAHA CONFLUENCE

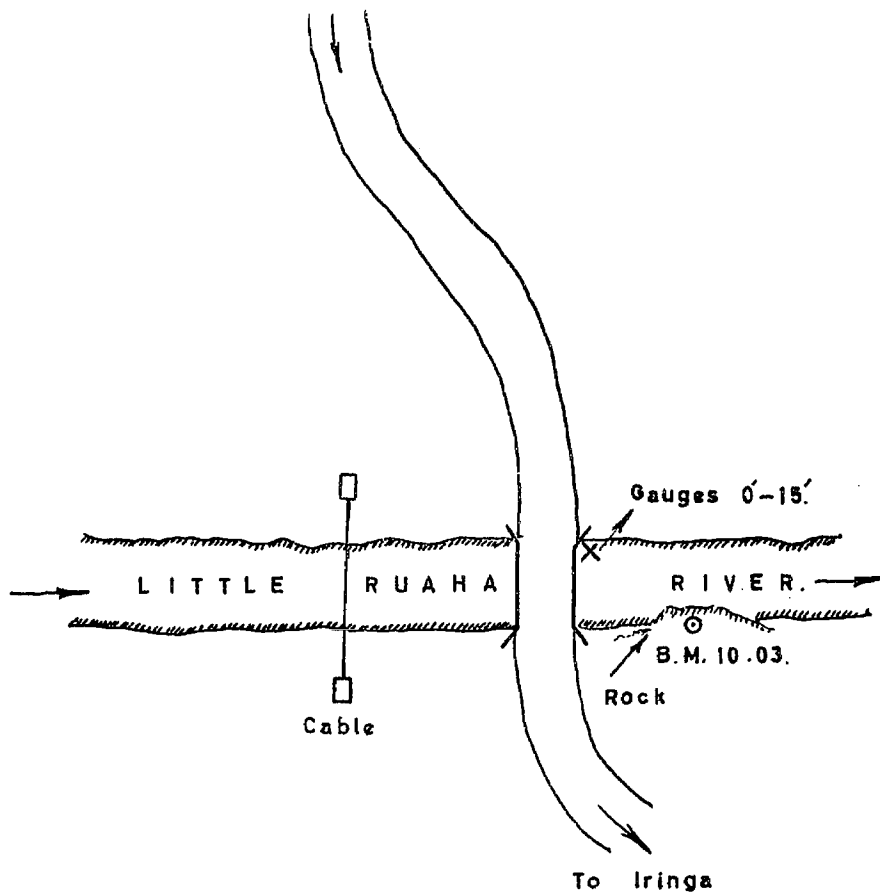
No. 1KA38. Catchment area 243 sq. miles. Latitude  $S7^{\circ}33'$ . Longitude  $E36^{\circ}46'$ . WL Gauge established 22nd Aug. 1957 and observations started 11th April 1958.

Description of gauges: Gauge 1, ordinary gauge plate fixed to a length of angle iron which is hammered into the ground next to the foundation of the bridge pier, and then concreted to the foundation. No. 2 gauge plate screwed to angle iron concreted into the ground.

Description of BM: Iron bolt concreted to the top of the abutment.

Height of BM: 13.43 ft.

Access: Always accessible whether dry or wet weather on Mikumi Iringa road about 22 miles from Mikumi.



### LITTLE RUAHA AT IWAWA

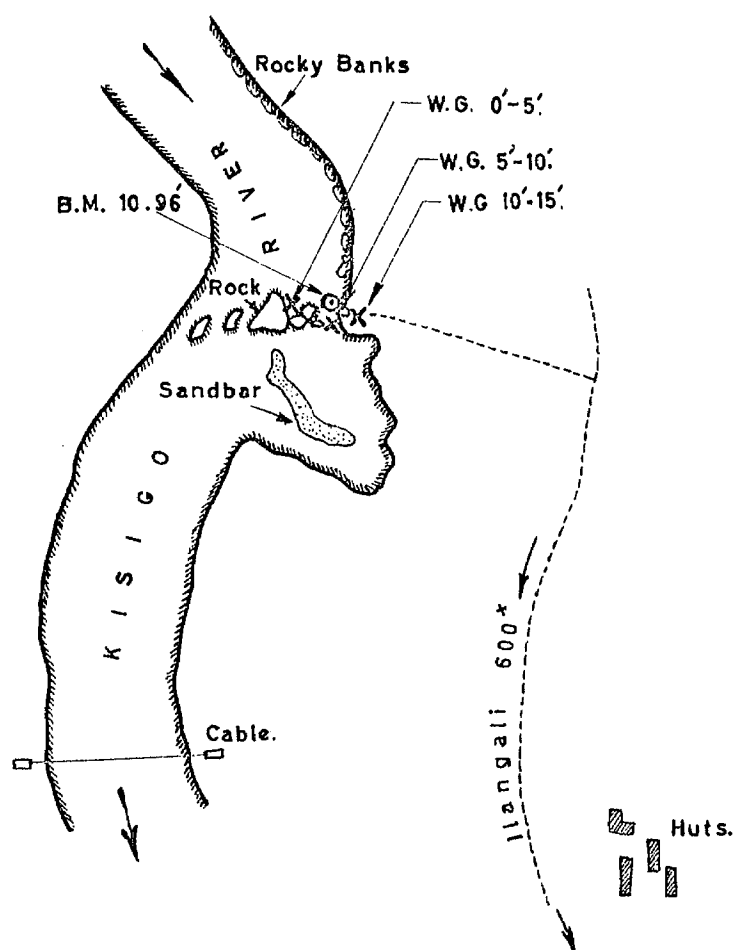
No. 1KA39. Catchment area 645 sq. miles. Latitude  $S8^{\circ}3'$ . Longitude  $E35^{\circ}04'$ .  
WL. Gauge established April, 1957 and observations started 12th April, 1957.

Description of gauge: 0' - 15' fixed to bridge abutment. Cross section, rock.

Description of BM: Painted on rock on right bank, 45 ft. D/S of bridge.

Height of BM: 10.03 ft.

Access: Accessible throughout the year. 36 miles from Iringa.



### KISIGO AT ILANGALI

No. 1KA41. Catchment area 3413 sq. miles. Latitude  $S6^{\circ}48'$ . Longitude  $E35^{\circ}5'$ . WL gauge established Nov. 1957 and observations started 15th Nov. 1957.

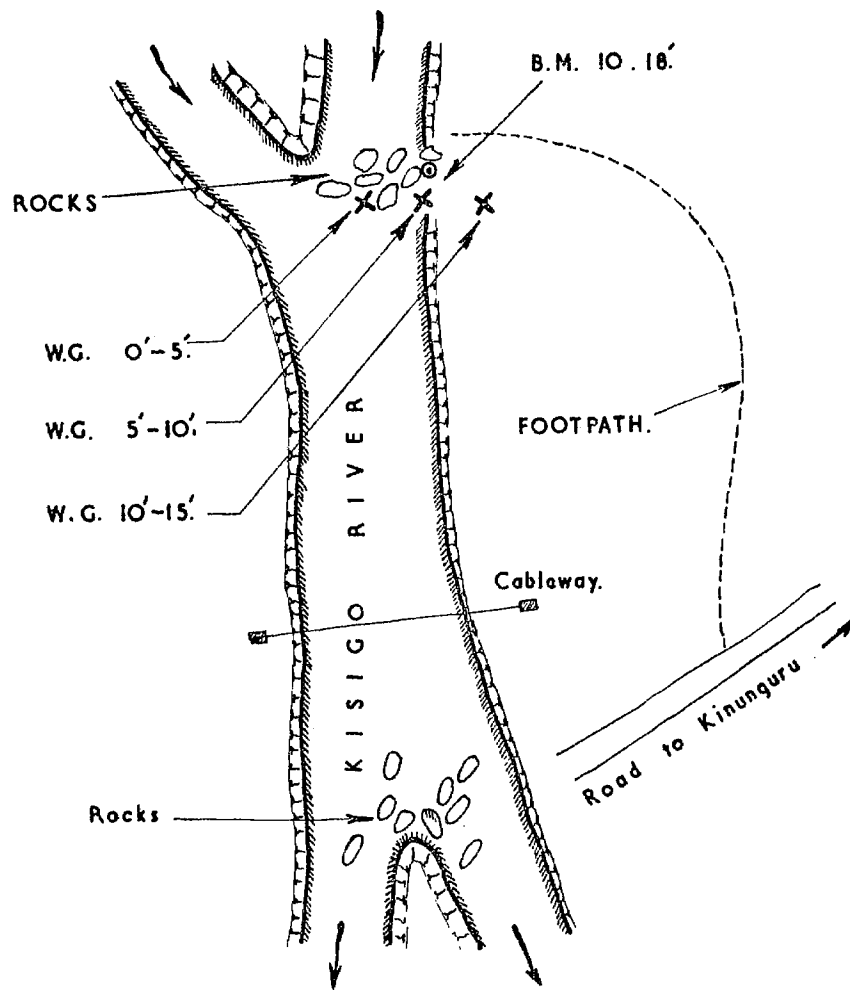
Description of gauge: Scale 0' - 15'. Cross section, part rock.

Description of BM: Red ring painted on rock close to gauge.

Height of BM: 10.96.

Other installations: 1. Stevenson's screen (Dry, wet, max., min., thermometers, Piche evaporimeter). 2. Rain gauge. 3. Permanent steel cable for measurements.

Access: Accessible in dry and semi-wet weather. Unaccessible for about 2 weeks immediately after heavy rains. 82 miles from Dodoma.



### KISIGO AT KINUNGURU

Upstream gauge

No. 1KA42. Catchment area 9476 sq. miles. Latitude  $S6^{\circ}58'$ . Longitude  $E35^{\circ}25'$ . WL gauge established Nov. 1957 and observations started 18th November 1957.

Description of gauge: 0' - 20' gauge. Cross section Part rock.

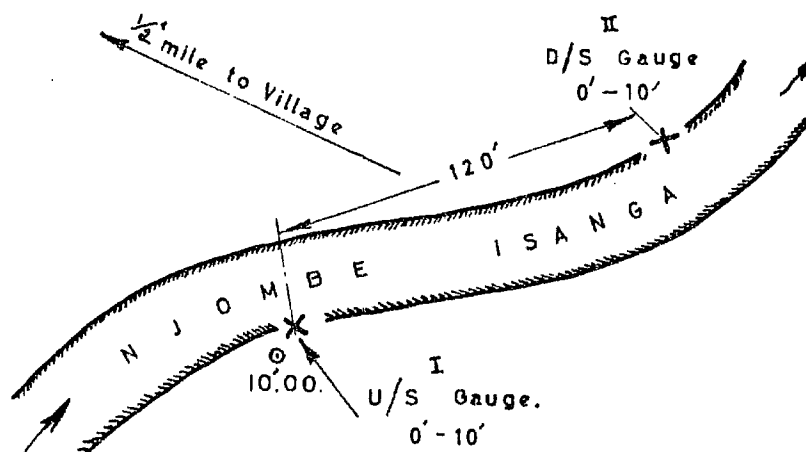
Description of BM: Screw held in concrete on a rock ledge, close to gauge.

Height of BM: 10.18 ft.

Other installations: 1 Rain gauge. 2. Permanent steel cable for measurements.

Access: Accessible in both dry and wet weather. 70 miles from Dodoma.

Note: D/S gauge established November 1957. U/S gauge established early 1959, after which the D/S gauge was abandoned. D/S gauge located about 3 miles below U/S gauge.



### NJOMBE AT ISANGA

No. 1KA43. Catchment area 1457 sq. miles. Latitude  $S7^{\circ}24'$ . Longitude  $E34^{\circ}15'$ . WL Gauge established December 1957 and observations started 5th Dec. 1957

Description of gauges: U/S 0' - 10' plates nailed to a tree. D/S 0' - 10' plates (0' - 5') fixed to angle iron and bolted to a tree. 5' - 10' nailed to same tree.

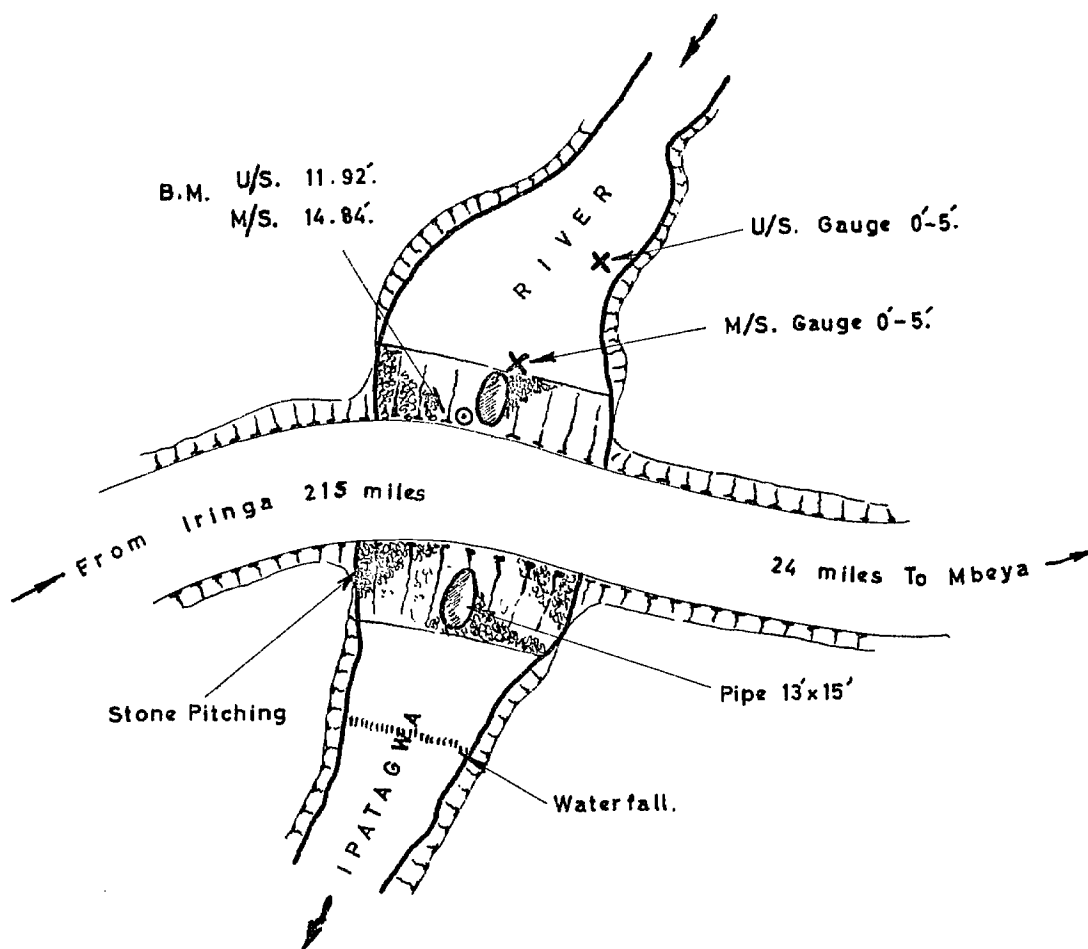
Description of BM: Head of nail in tree, indicated by paint.

Height of BM: U/S 10.00'. D/S 10.32'.

Access: always accessible during the dry season, difficult during the wet season. 204 miles from Mbeya, 161 miles along the Itigi road and then 43 miles along a track.

Maximum WL indicated on Gauge: 10.5

Note: Banks will be flooded at stages above 8.00' on the D/S gauge.



### IPATAGWA AT GREAT NEW ROAD

No. 1KA45: Catchment area 15 sq. miles. Latitude  $S8^{\circ}50'$ . Longitude  $E33^{\circ}25'$ . WL Gauge established 30th Nov. 1958 and observations started 1st Nov. 1958.

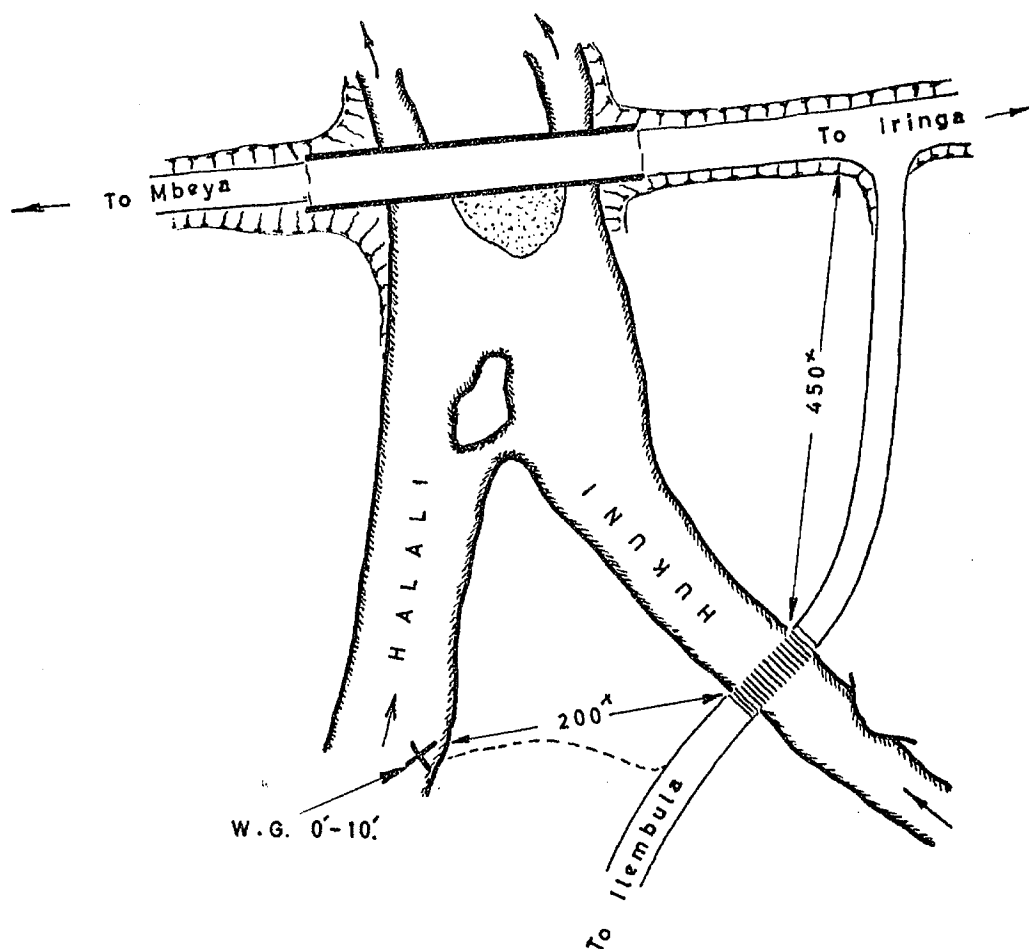
Description of gauges: U/S plate ( $0' - 5'$ ) 110 feet from U/S culverts, fixed to angle iron. M/S plate ( $0' - 5'$ ) at entrance to culverts fixed to angle iron.

Description of BM: Flat headed bolt embedded in concrete at the U/S side of culvert.

Height of BM: U/S gauge 11.92'. M/S gauge 14.84'.

Access: Always accessible. Situated along main Iringa Mbeya road. 24 miles to Mbeya.





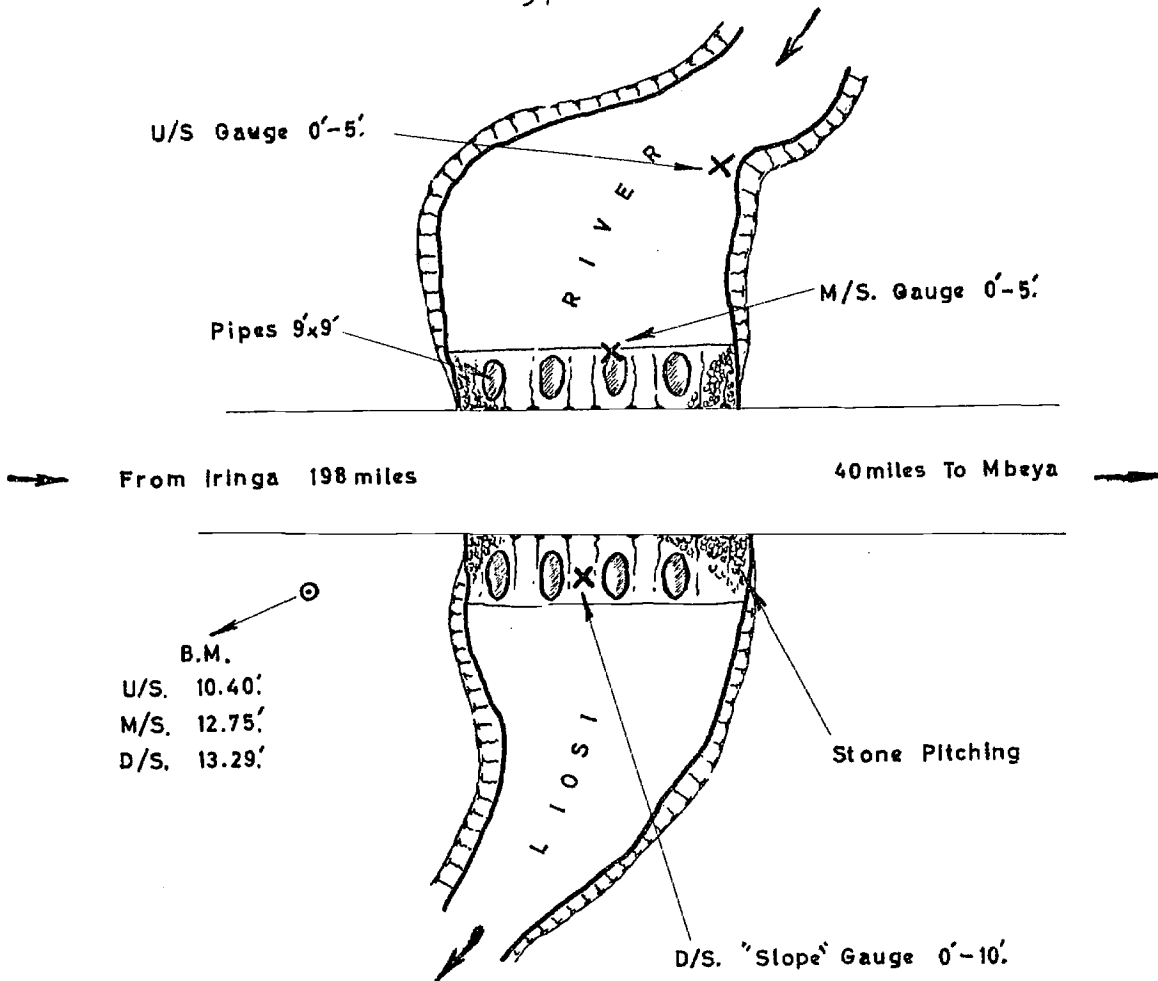
### HALALI UPSTREAM AT IYAYI

No. 1KA46. Catchment area 184 sq. miles. Latitude  $S8^{\circ}57'$ . Longitude  $E34^{\circ}34'$ . WL gauge established February 1958 and observations started 7th Feb. 1958.

Description of gauge: Plates (0' - 19') fixed to the bank with concrete and iron rods.

Description of BM: No benchmark.

Access: Always accessible. Situated on the main Iringa Mbeya road. 650 yds. off the main road. 200 yards past the Hukuni gauges.



### LIOSI AT NEW ROAD

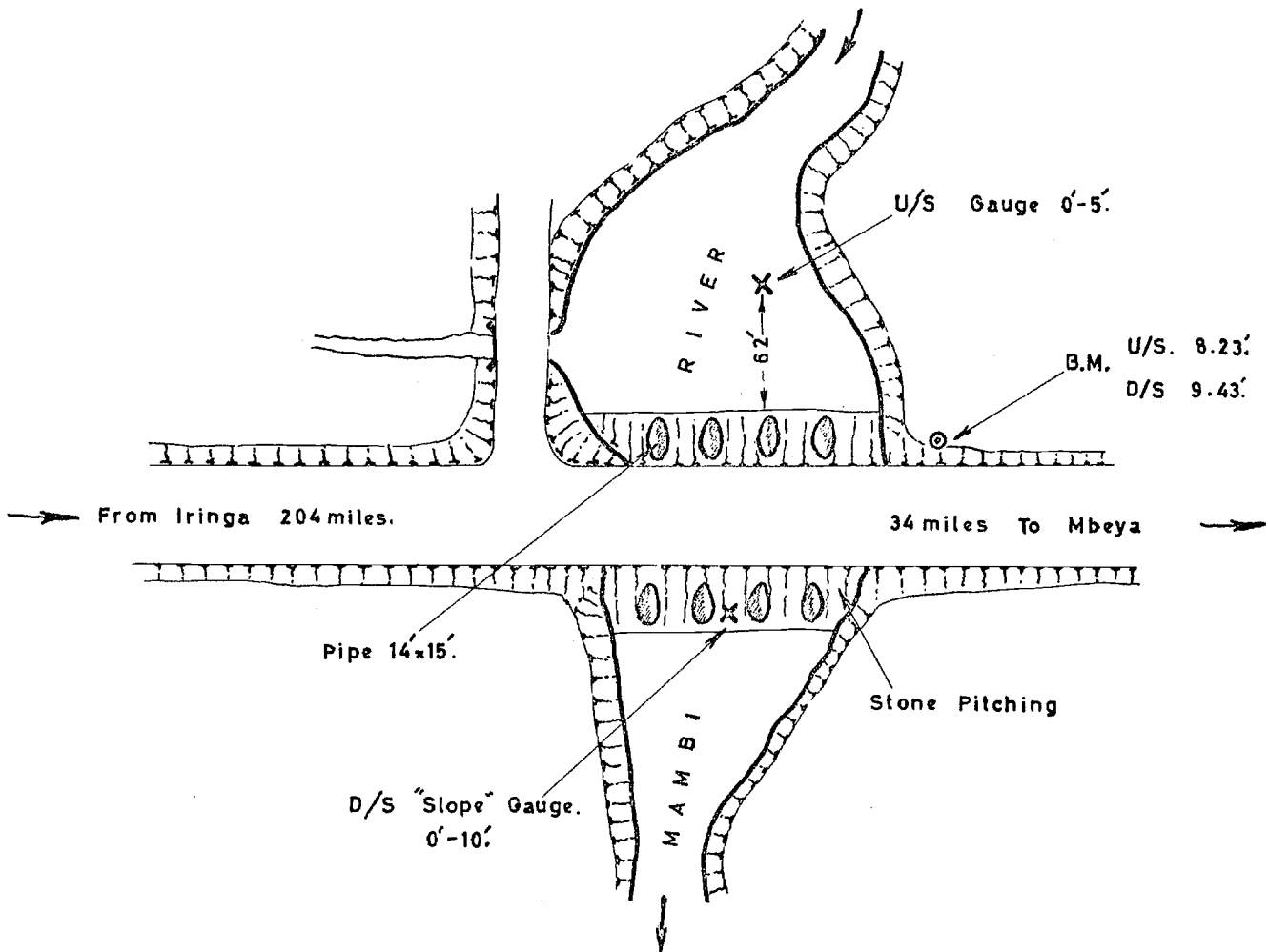
No. 1KA48. Catchment area 38 sq. miles. Latitude  $S8^{\circ}50'$ . Longitude  $E33^{\circ}32'$ . WL gauge established 31st Oct. 1958 and observations started 1st Nov. 58.

Description of gauges: U/S plates fixed to angle iron and embedded in concrete. M/S gauge ( $0' - 5'$ ) plates at inlet of culverts. D/S gauge sloping, ( $0' - 10'$ ) fixed to stone pitching.

Description of BM: Angle iron embedded in concrete on the right hand bank D/S of road.

Height of BM: U/S gauge  $10.40'$ . M/S gauge  $12.75'$ . D/S  $13.29'$ .

Access: Always accessible. Situated along main Iringa - Mbeya road, 40 miles from Mbeya.



MAMBI AT NEW ROAD

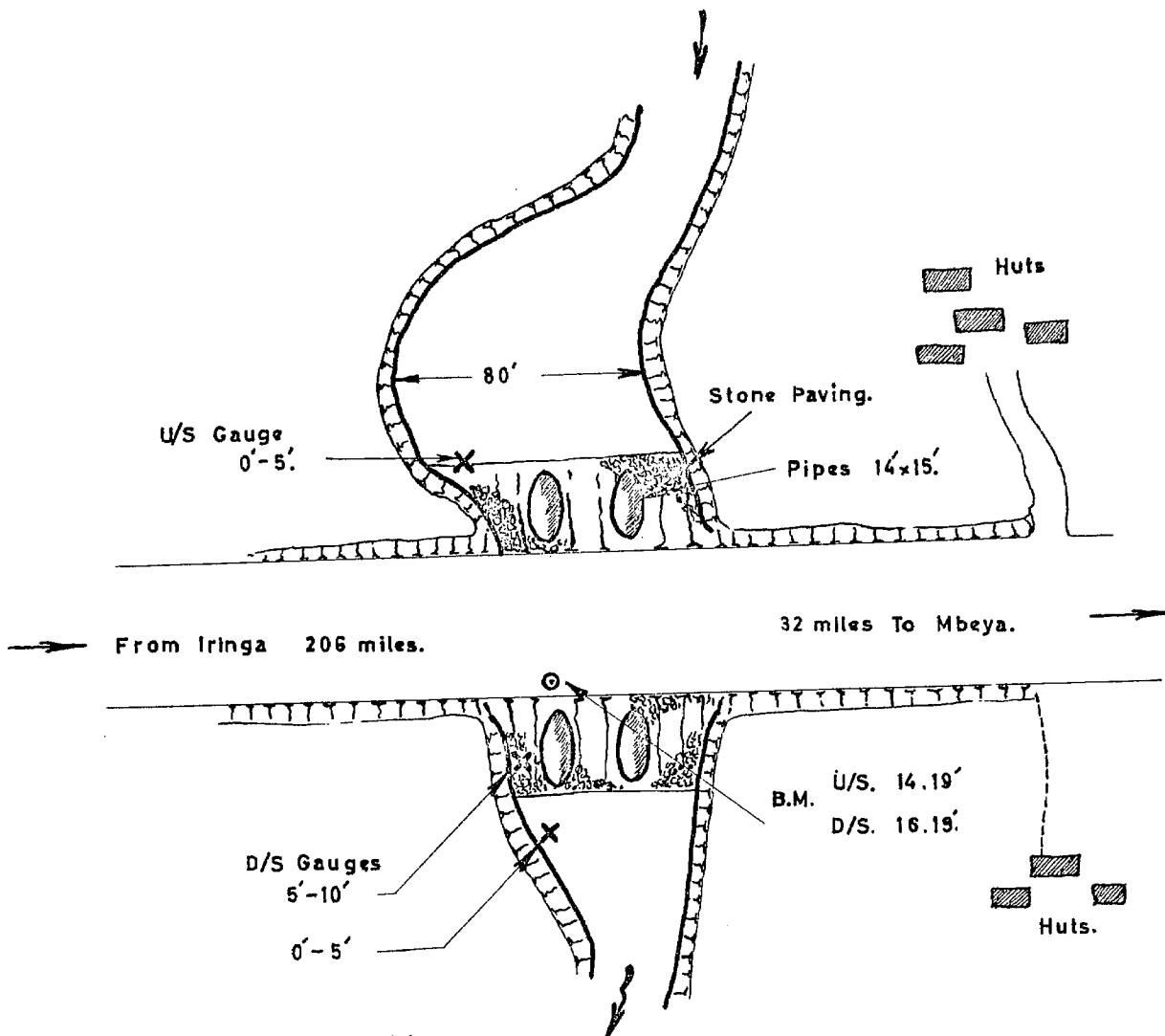
No. 1KA49. Catchment area 38 sq. miles. Latitude  $S8^{\circ}50'$ . Longitude  $E33^{\circ}50'$ .  
 WL gauge established Oct. 1958 and observations started 1st Nov. 1958.

Description of gauges: U/S gauge 60' U/S from bridge (0' - 5') plates fixed to angle iron and embedded in concrete. D/S (0' - 10') plates fixed to the stone pitching, slope gauge.

Description of BM: Angle iron embedded in concrete left bank just U/S of bridge.

Height of BM: U/S gauge 8.23'. D/S gauge 9.43'.

Access: Always accessible. Situated along main Iringa-Mbeya road. 34 miles to Mbeya.



### MSWISWI AT NEW ROAD

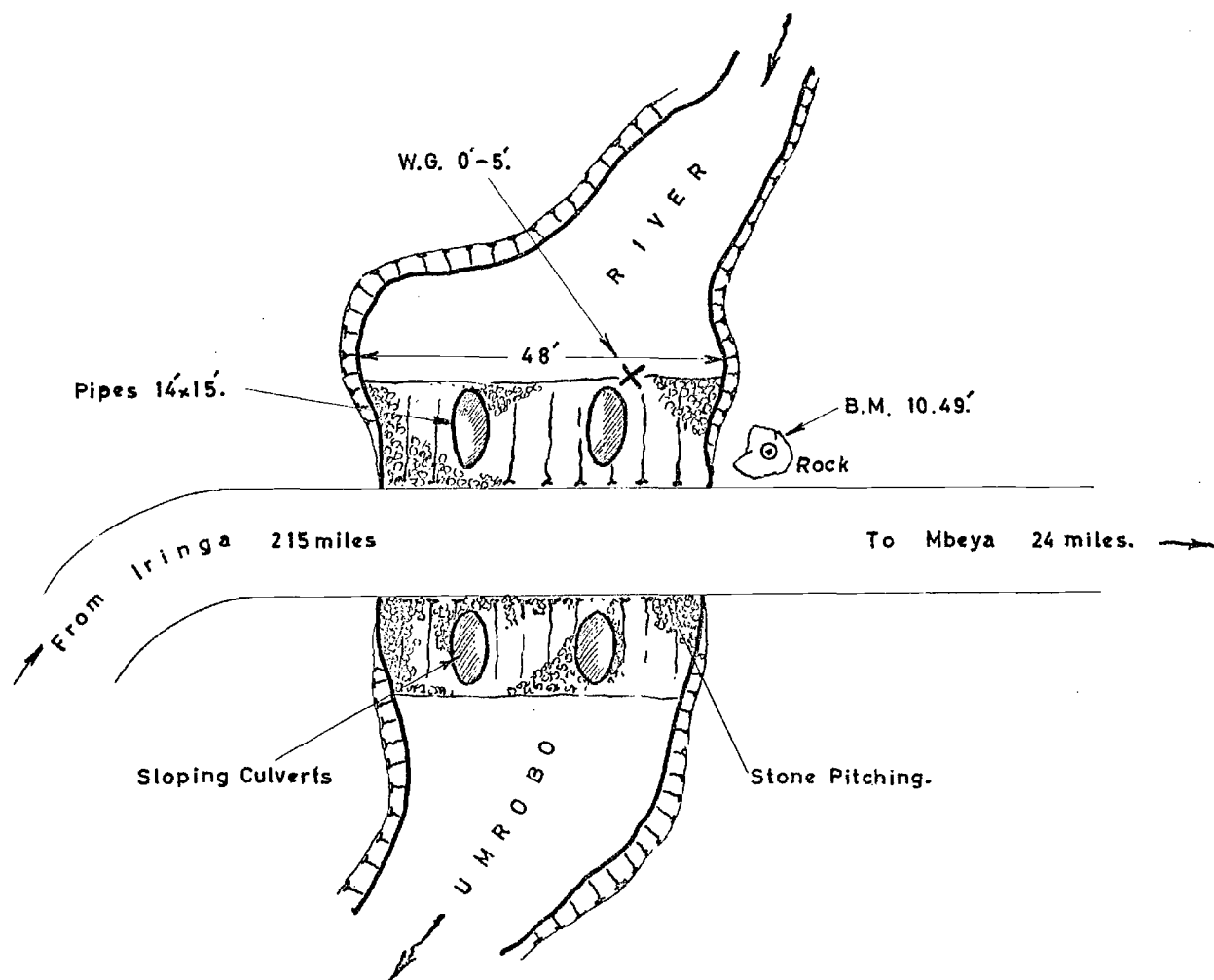
No. 1KA50. Catchment area 42 sq. miles. Latitude  $S8^{\circ}50'$ . Longitude  $E33^{\circ}50'$ . WL gauge established Oct. 1958 and observations started 1st Nov. 1958.

Description of Gauges: U/S gauges (0' - 5') Plate fixed to angle iron and concreted to the stone pitching. D/S gauges (0' - 5') Plate fixed to angle iron and concreted in the river bed, (5' - 10') fixed to angle iron and concreted to the stone pitching.

Description of BM: Angle iron embedded in concrete on top of culvert D/S side of road.

Height of BM: U/S 14.19'. D/S 16.19'.

Access: Always accessible. Situated along main Iringa-Mbeya road, 32 miles from Mbeya.



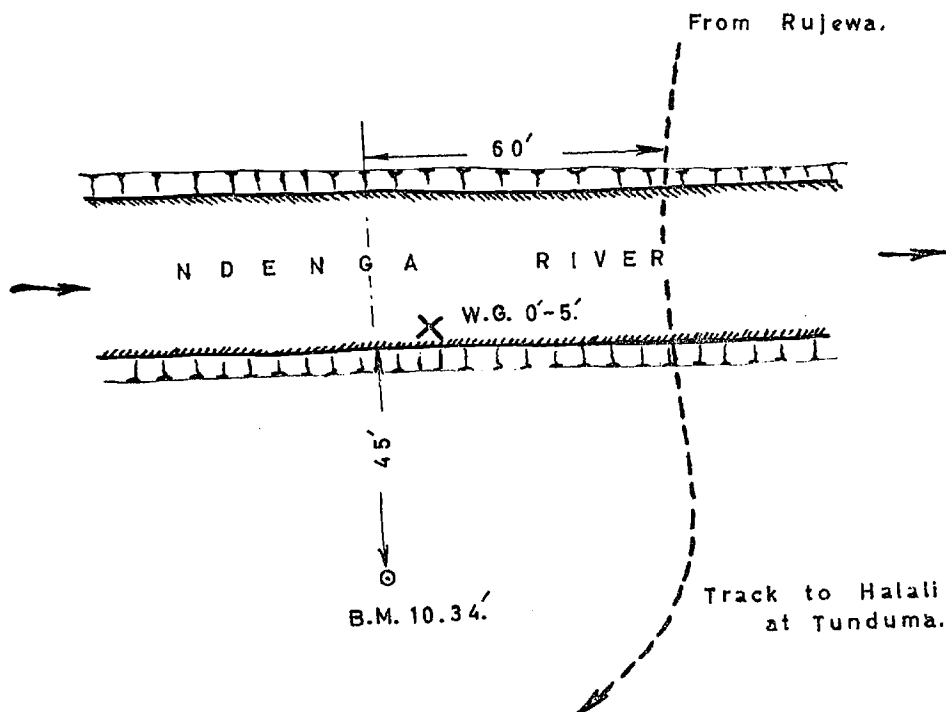
### UMROBO AT NEW ROAD

No. 1KA51. Catchment area 29 sq. miles. Latitude  $S8^{\circ}50'$ . Longitude  $E33^{\circ}39'$ . WL gauge established Oct. 1958 and observations started 1st Nov. 1958.

Description of gauges: Plates fixed to angle iron and embedded in the ground with concrete. Left bank U/S side of road.

Height of BM: 10.49'.

Access: Always accessible. Situated along main Iringa-Mbeya road, 24 miles from Mbeya.



### NDENGA AT TUNDUMA

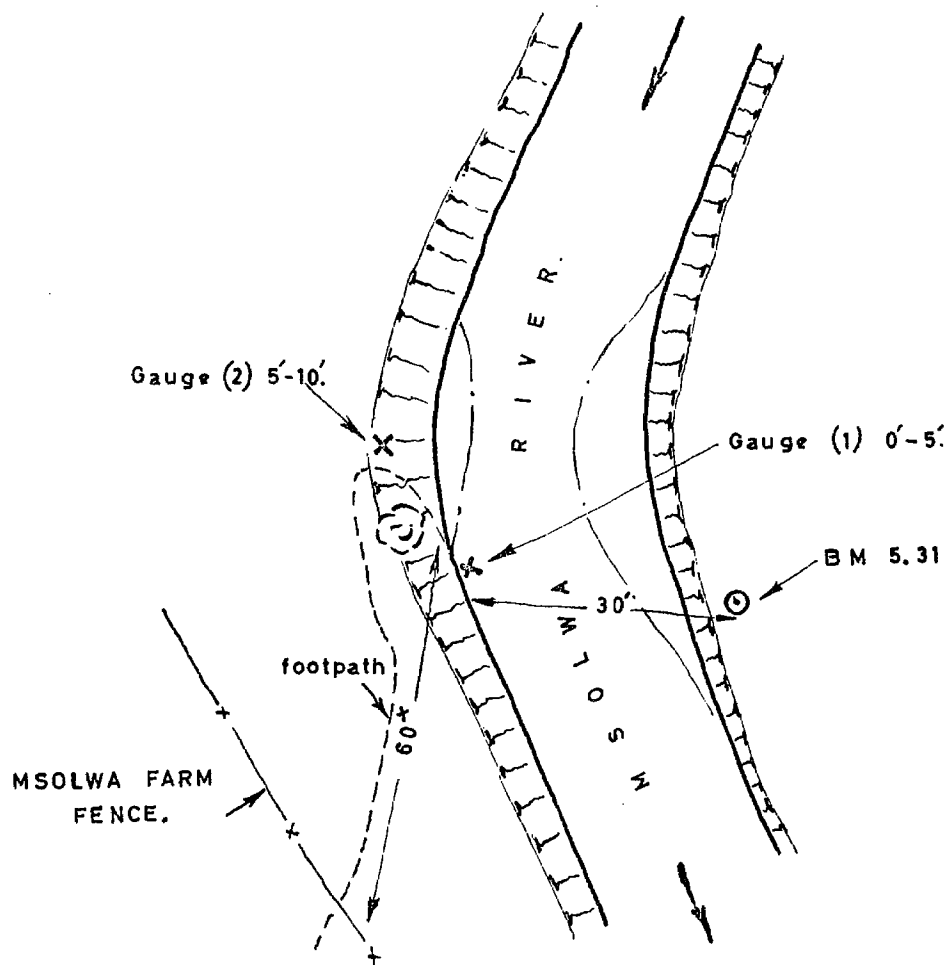
No. 1KA52. Catchment area included in Tunduma gauge. Latitude  $S8^{\circ}40'$ . Longitude  $E34^{\circ}30'$ . WL gauge established March 1958 and observations started 26th March 1958.

Description of gauges: 0' - 5' plate nailed to timber and then hammered into the river bed. Section is rocky and good.

Description of BM: Cut into a tree and indicated with white paint.

Height of BM: 10.34 ft.

Note: Indicated maximum water level corresponds to 7.0 ft. on the gauge. The Ndega carried water only during flood and this should be added to the Tunduma (1KA34) runoff to get the total runoff from swamps upstream of the gauging stations.



MSOLWA AT MSOLWA ESTATE

No. 1KBL. Catchment area 8 sq. miles. Latitude  $S7^{\circ}47'$ . Longitude  $E36^{\circ}59'$ .  
WL gauge established Aug. 1955 and observations started Aug. 1st 1955.

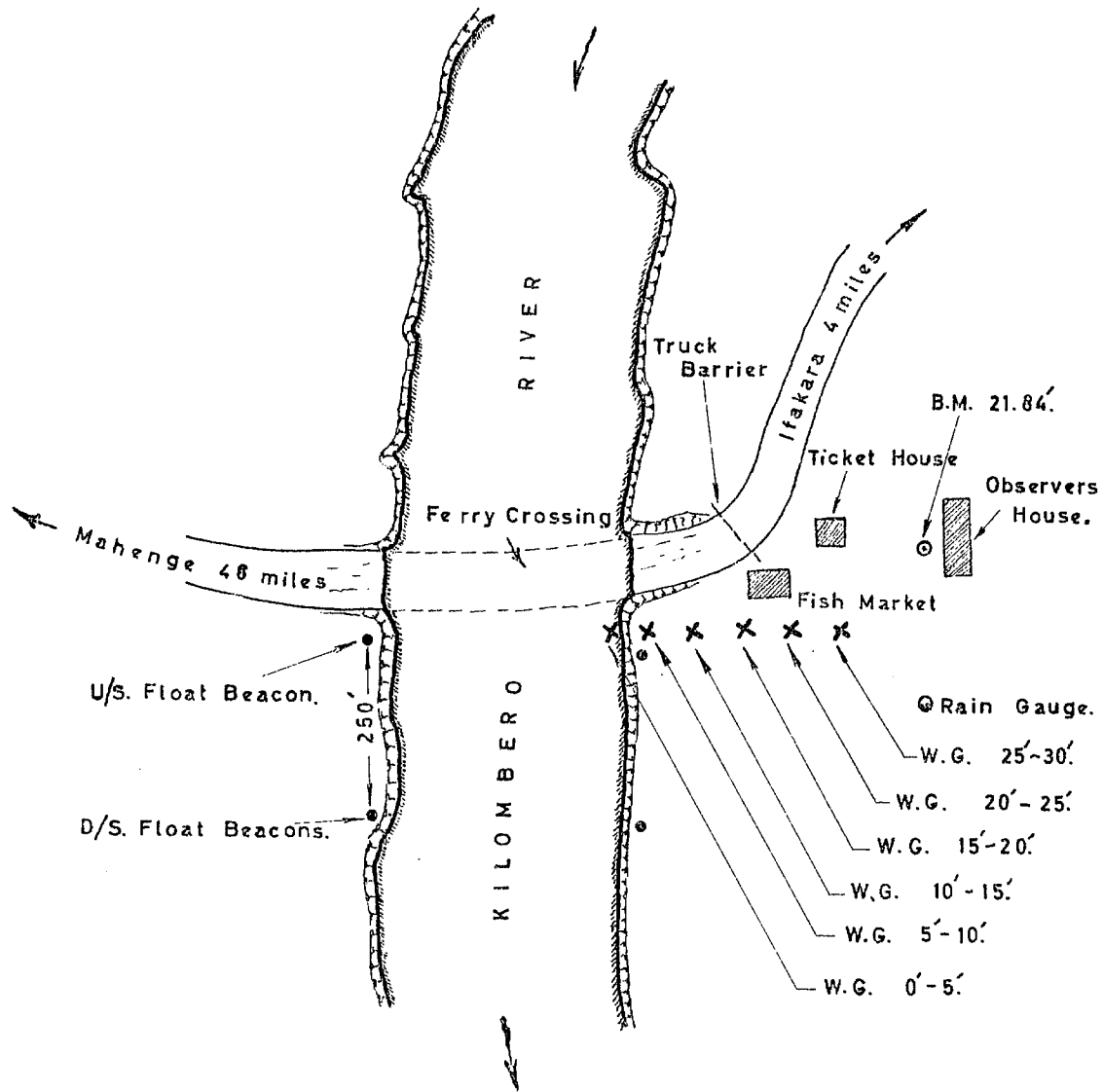
Description of gauges: Vertical plates 0' - 5' and 5' - 10' fixed to angle iron and driven into the ground.

Description of BM: Concrete post protruding from the ground opposite gauge.

Height of BM: 5.31'.

Access: Always accessible 4 miles from Kidatu.

Note: This station was abandoned.



### KILOMBERO AT IFAKARA

No. 1KB2. Catchment area 12,063 sq. miles. Latitude  $S8^{\circ}09'$ . Longitude  $E36^{\circ}38'$ . WL gauge established Oct. 1954, and observations started 1st Nov. 1954.

Description of gauges: Gauge plates screwed to pieces of wood  $5' \times 4" \times \frac{3}{4}"$  and then bolted to pieces of angle iron embedded in concrete in the ground.

Description of BM: The BM is situated near the tree behind the ticket house of P.W.D. Ferry. The observer's house, as shown on the sketch, does not exist now. The BM is the standard WD and ID BM, made of concrete and protrudes from the ground about 1".

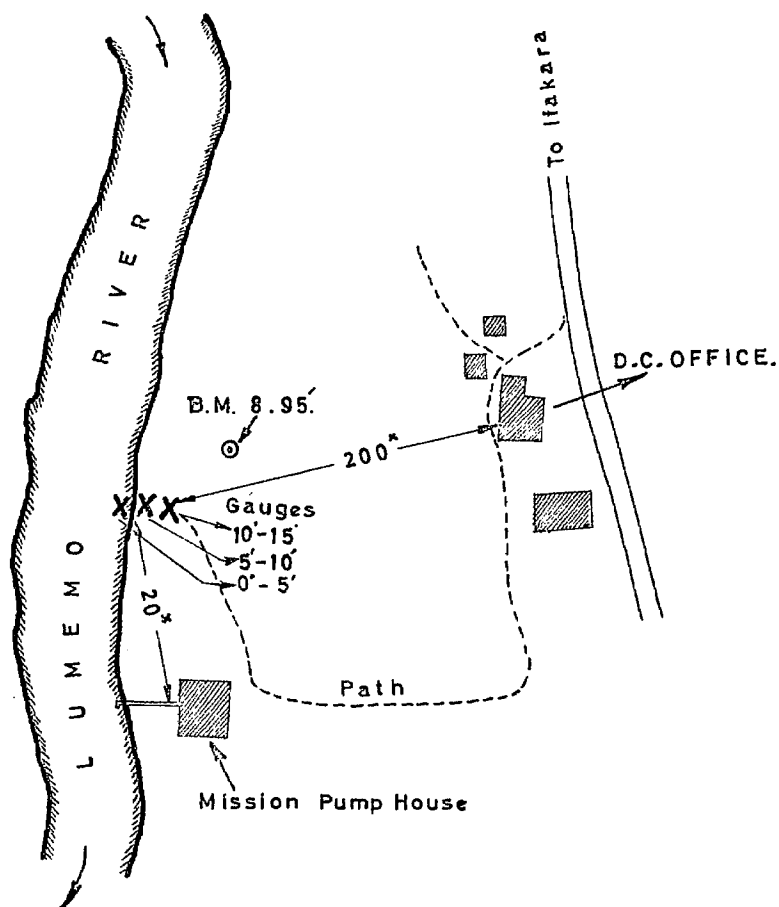
Height of BM: 21.76 ft. Gauge zero is 791.91ft. above MSL.

Other installations: Rain gauge was installed, now shifted to Swero.

Access: During the dry weather always accessible by road, but during the heavy floods, the whole place is under water and the only way to the site is by boat or native canoes.

Note: Water samples are taken here.





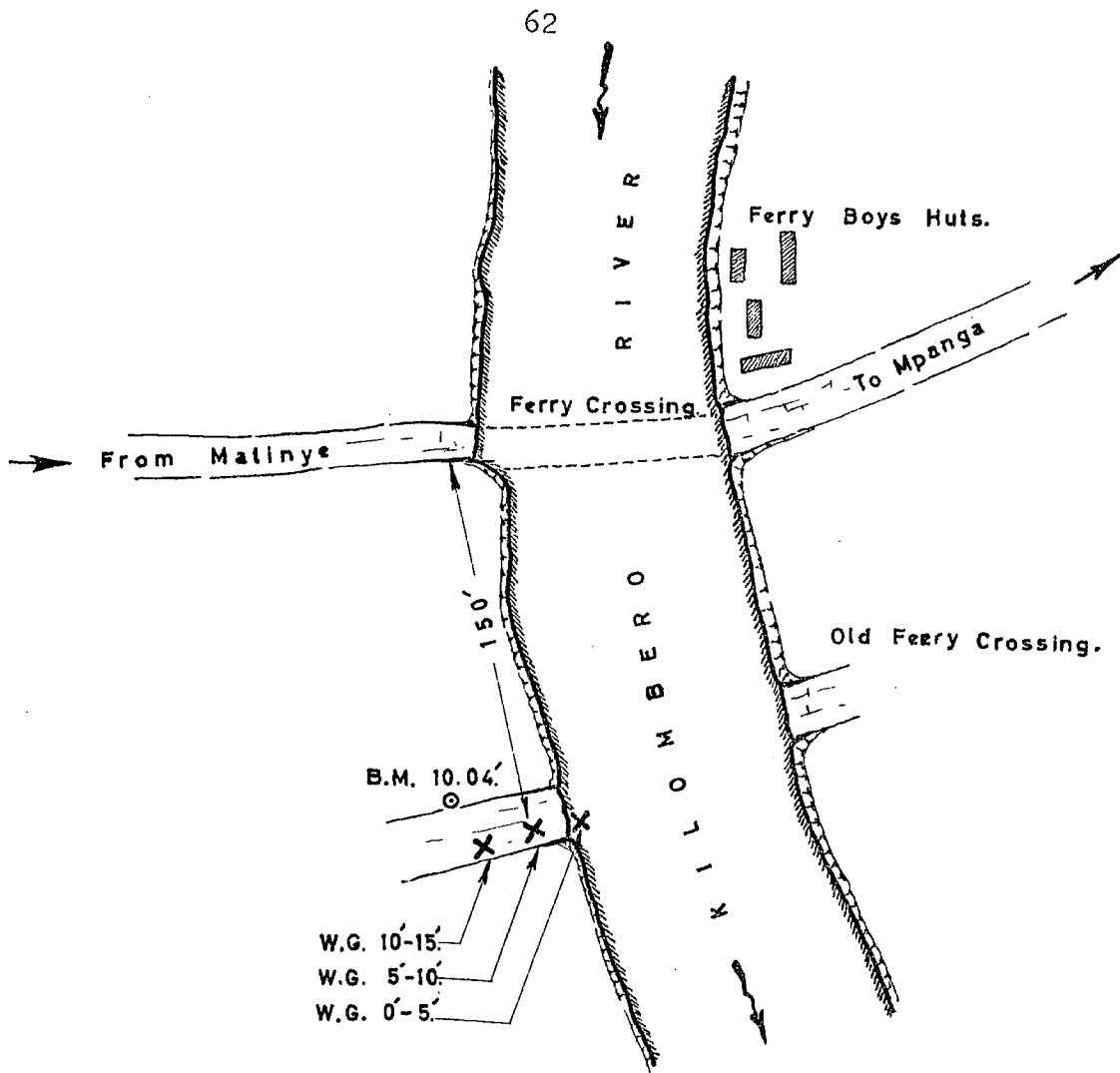
### LUMEMO AT IFAKARA

No. 1KB3. Catchment area 165 sq. miles. Latitude  $S8^{\circ}10'$ . Longitude  $E36^{\circ}40'$ .  
 WL gauge established Aug. 1955 and observations started 12th Aug. 1955.

Description of gauges: The gauge plates have been screwed to a length of wood, bolted to angle iron, and concreted into the ground.

Description of BM: The standard WD and ID BM, concrete with the inscription 'WD and ID' on the top, protruding about 1". BM height above gauge zero - 8.95 ft. Gauge zero is 816.48 ft. above MSL.

Access: In the dry season always accessible. In wet weather rather sticky and difficult if the small rivers after Mikumi overflow the bridges;



### KILOMBERO AT IFWEMA

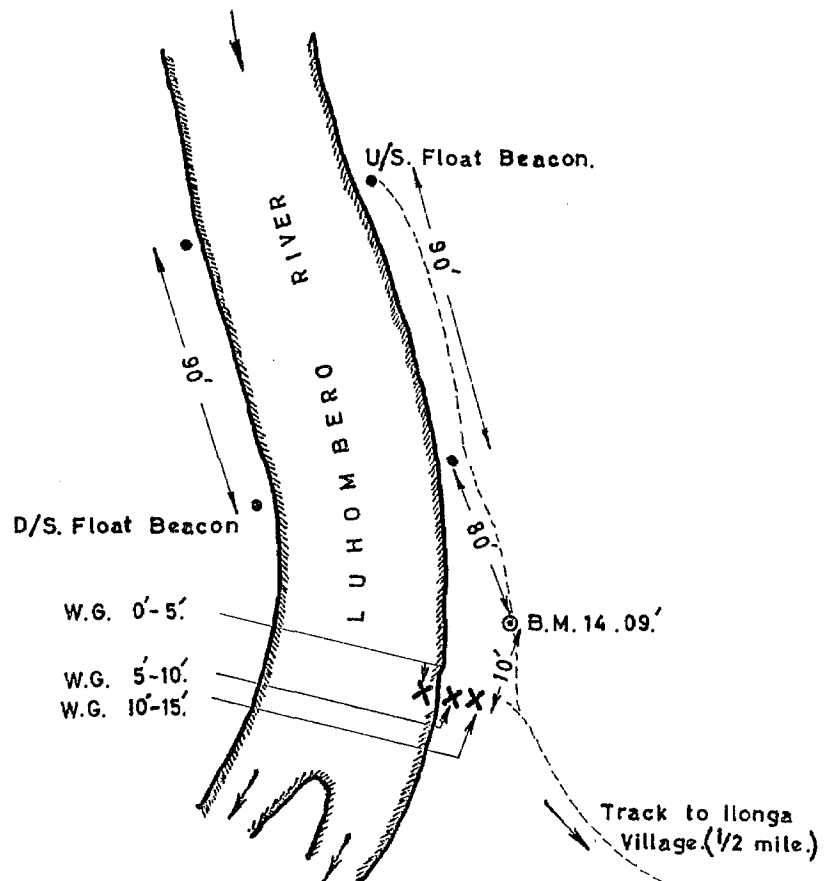
No. 1KB4. Catchment area 7.048 sq. miles. Latitude  $S8^{\circ}56'$ . Longitude  $E36^{\circ}00'$ .  
 WL gauge established Jan. 1955 and observations started 2nd Jan. 1955.

Description of Gauges: (0' - 15') the gauge plates are screwed to pieces of timber  $4'' \times \frac{3}{4}'' \times 5'$ , bolted to angle iron and concreted into the ground.

Description of BM: Steel rod embedded in a concrete foundation with about 1" protruding from the concrete. It is situated at 35' from gauge no. 3 and 49' from gauge no. 2.

Height of BM: 10.04 ft. Gauge zero is 931.47 ft. above MSL.

Access: Accessible during dry weather by road, even in the beginning of the rainy season. But once the ferry at Ifakara stops working, the access becomes problematic.



### LUHOMBERO AT ILONGA

No. 1KB5. Catchment area 395 sq. miles. Latitude  $S9^{\circ}03'$ . Longitude  $E36^{\circ}52'$ .  
WL Gauge established Jan. 1955 and observations started 13th Jan. 1955.

Description of gauges: Plates fastened to pieces of wood 5' x 3" x 1", bolted to angle iron, and embedded in the ground. Cross section, sandy.

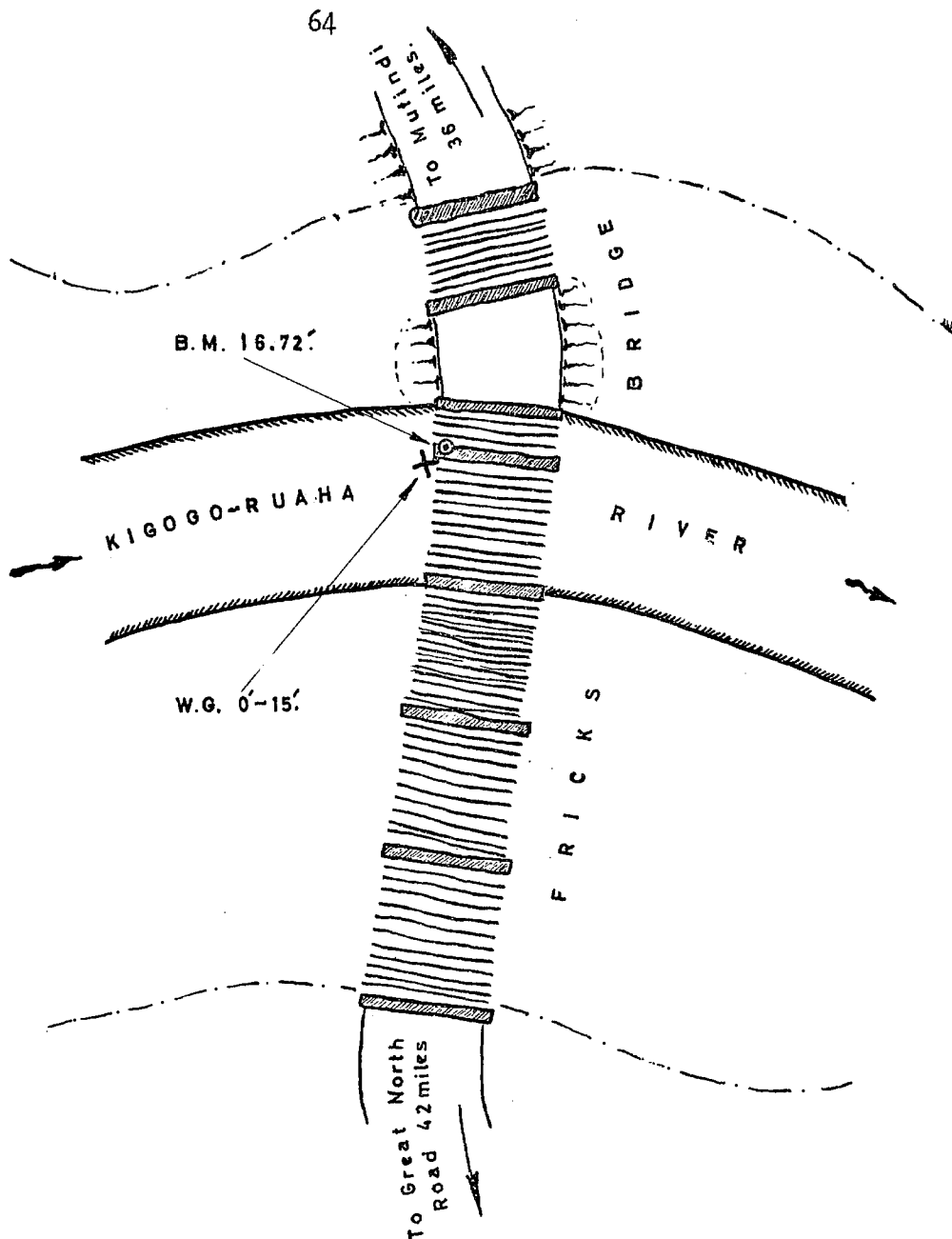
Description of BM: The BM is the WD and ID standard BM, situated 10 ft. from top gauge.

Height of BM: 14.09 ft.

Other installations: Meteorological screen with thermometers installed at Ilonga Mission.

Access: Accessible during the dry weather; the area is low lying and becomes flooded at the first heavy rains.

Note: This is not a good gauging station, and better sites for gauging should be investigated.



### KIGOGO-RUAHA AT FRICKS BRIDGE

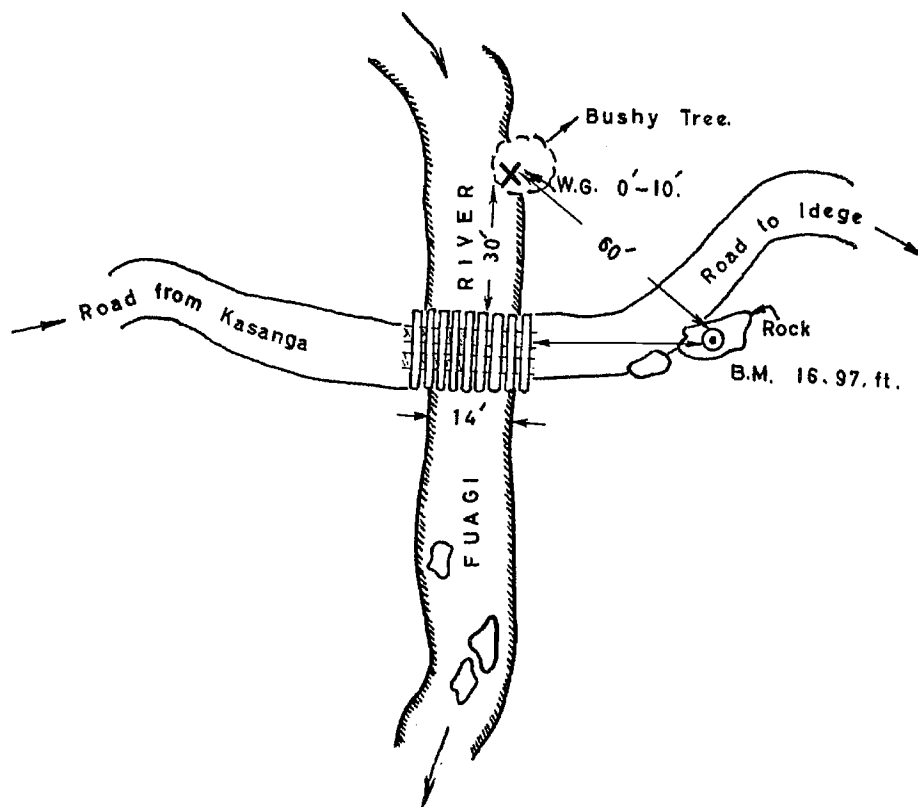
No. 1KB6. Catchment area 511 sq. miles. Latitude  $S8^{\circ}44'$ . Longitude  $E35^{\circ}18'$ .  
 WL gauge established Feb. 1956 and observations started 15th Feb. 1956.

Description of gauges: Vertical gauges (5' - 15') fixed to angle iron and bolted to bridge buttress, second buttress in the main channel on left hand side.

Description of BM: Top of second buttress in main channel on left hand side. Letters "B.M." cut in the concrete.

Height of BM: 16.72'.

Access: Accessible by motor transport during the dry season. Either from Section "9" Mufindi Tea estates (36 miles Fricks bridge from Section 9) or from mile stone 111 along main Iringa-Mbeya road turn left at P.W.D. camp (42 miles from main road to Fricks bridge). Only after exceedingly heavy rains does this station become impassable to motor transport.



FUAGI AT IDEGE

No. 1KB7. Catchment area 24 square miles. Latitude  $S8^{\circ}41'$ . Longitude  $E35^{\circ}11'$ . WL gauge established Feb. 1956 and observations started Feb. 24th 1956.

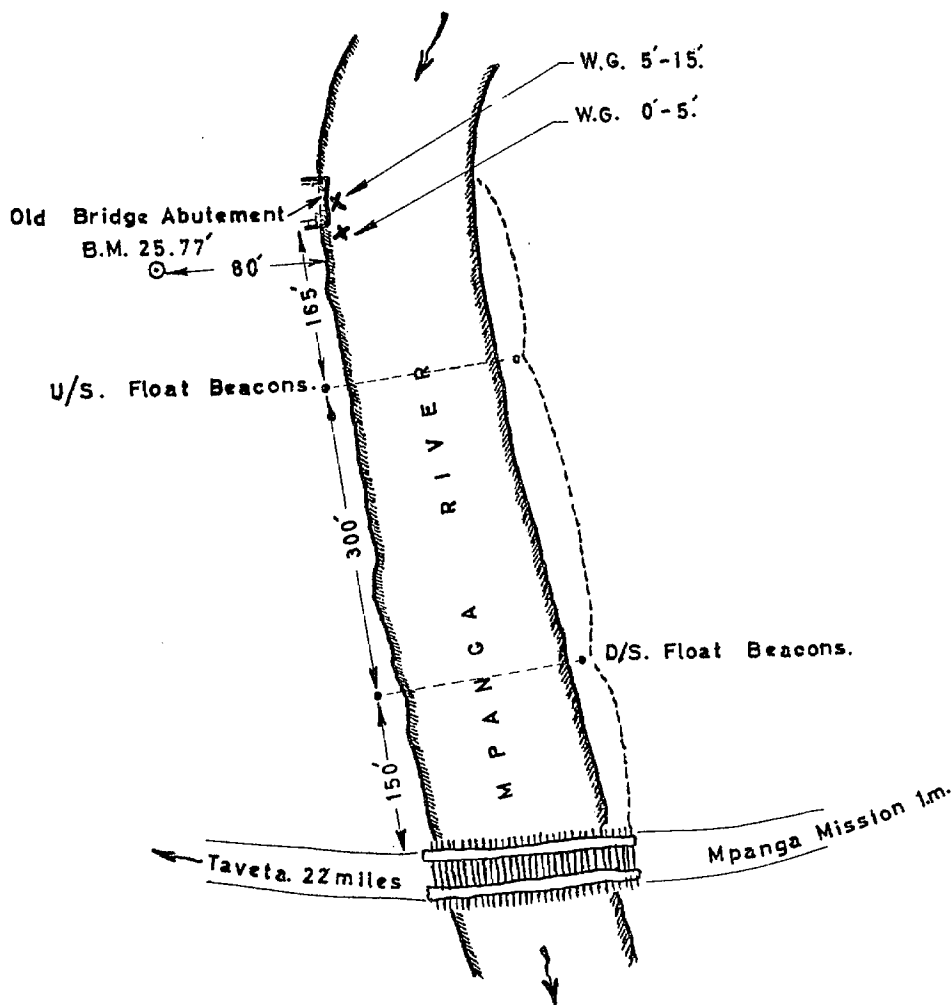
Description of gauge: Vertical gauges (0' - 10') fixed to a pole driven into the ground and nailed to a tree. Cross section part sand and part rock.

Description of BM: Situated 15 yds. along road. Left bank approach. Painted on rock.

Height of BM: 16.97'.

Access: Accessible throughout the year.

Note: Another gauge, downstream, is later established approximately 100 yds. D/S of bridge. This gauge has a rocky control section and produces a good discharge rating curve. The D/S gauge has been used in runoff calculation.



### MPANGA AT MPANGA MISSION

No. 1KB8. Catchment area 937 sq. miles. Latitude  $S8^{\circ}55'$ . Longitude  $E35^{\circ}43'$ .  
 WL gauge established Dec. 1956 and observations started 10th 1956.

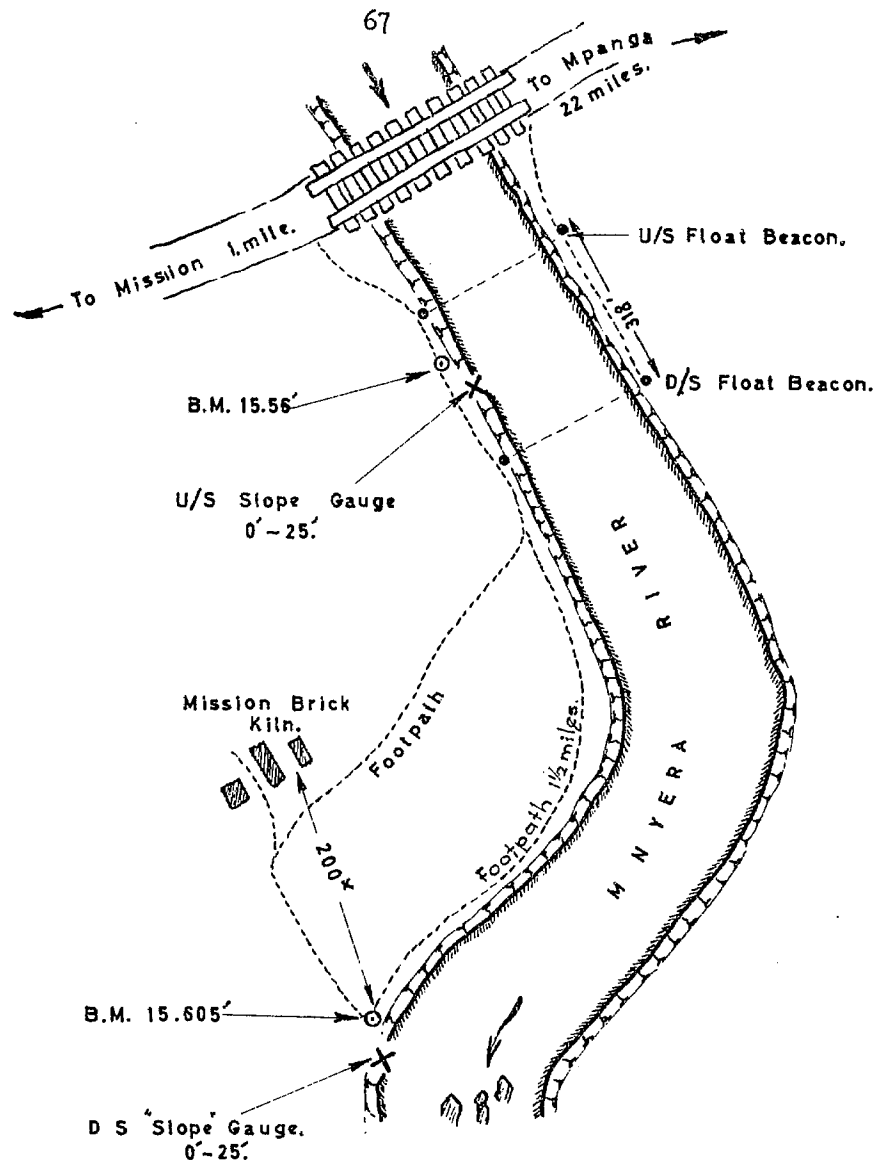
Description of gauges: The first upright (0' - 5') is sunk into the soft rock and supported by two lengths of angle irons bricked into the abutment of an old bridge. Gauge 5' - 15' is fixed with nails to an old abutment post. Cross-section sandy.

Description of BM: It lies 80' from the gauges and consists of a bolt embedded in a square of brick work  $1\frac{1}{2}' \times 1\frac{1}{2}'$  and coated with cement plaster painted red.

Height of BM: 25.77 ft. Gauge zero is 967 ft. above MSL.

Access: Accessible during the dry season.

Note: Float beacons set up 300 ft. apart.



### MNYERA AT TAVETA MISSION

No. 1KB9: Catchment area 1950 sq. miles. Latitude  $S9^{\circ}01'$ . Longitude  $E35^{\circ}31'$ .  
 WL gauge established, Dec. 1956 and observations started 8th Dec. 1956.

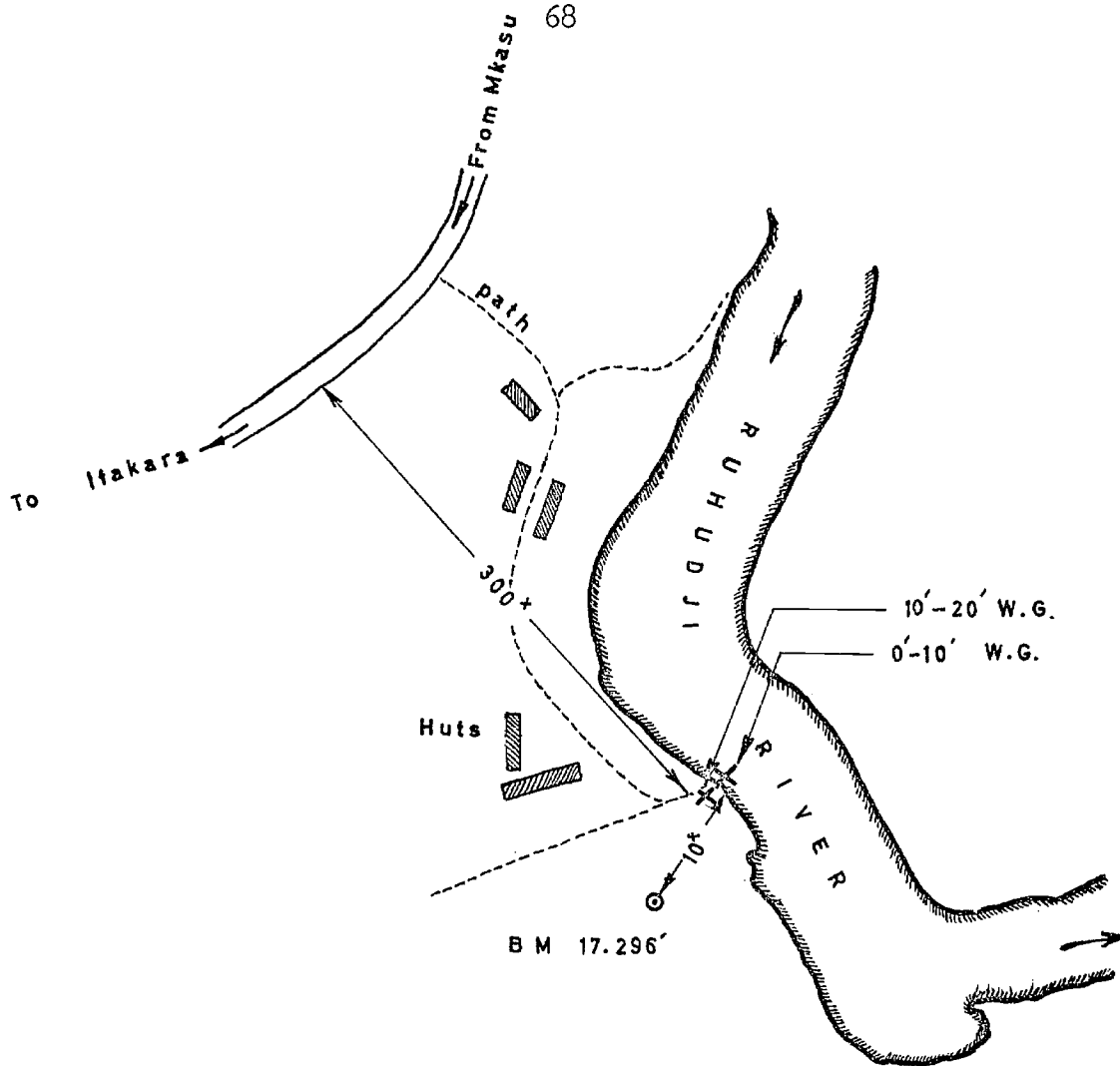
Description of WL gauge: U/S  $0' - 23'$ , D/S  $0' - 25'$  slope gauges. Gauges bolted to angle iron at slope of about  $40^{\circ}$ . Slope iron supported by uprights embedded in firm foundations of brick and cement.

Description of BM: U/S BM lies  $34'$  from gauge on foot path towards the bridge. Bolt embedded in brick-work and painted in red. D/S BM lies 10 yds. upstream of the gauge, constructed in the same way as the U/S BM.

BM. relation: The slope gauges are not perfectly straight. The following heights are therefore given, taking BM height as zero:-

<u>U/S Gauge.</u>	<u>BM.</u>	<u>D/S Gauge.</u>	<u>BM.</u>
23'	+0.58'	25'	+0.875'
20'	-2.50'	20'	-2.505'
15'	-5.69'	15'	-5.885'
10'	-8.98'	10'	-9.125'

Access: Accessible during the dry season; but at the first heavy rains, most of the small bridges between Mpanga and Taveta are washed away.



### RUHUJI AT MWAYAMALUNGU

No. 1KB10. Catchment area 3294 sq. miles. Latitude  $S8^{\circ}57'$ . Longitude  $E36^{\circ}59'$ . WL Gauge established Dec. 1956 and observations started 12th Dec. 1956.

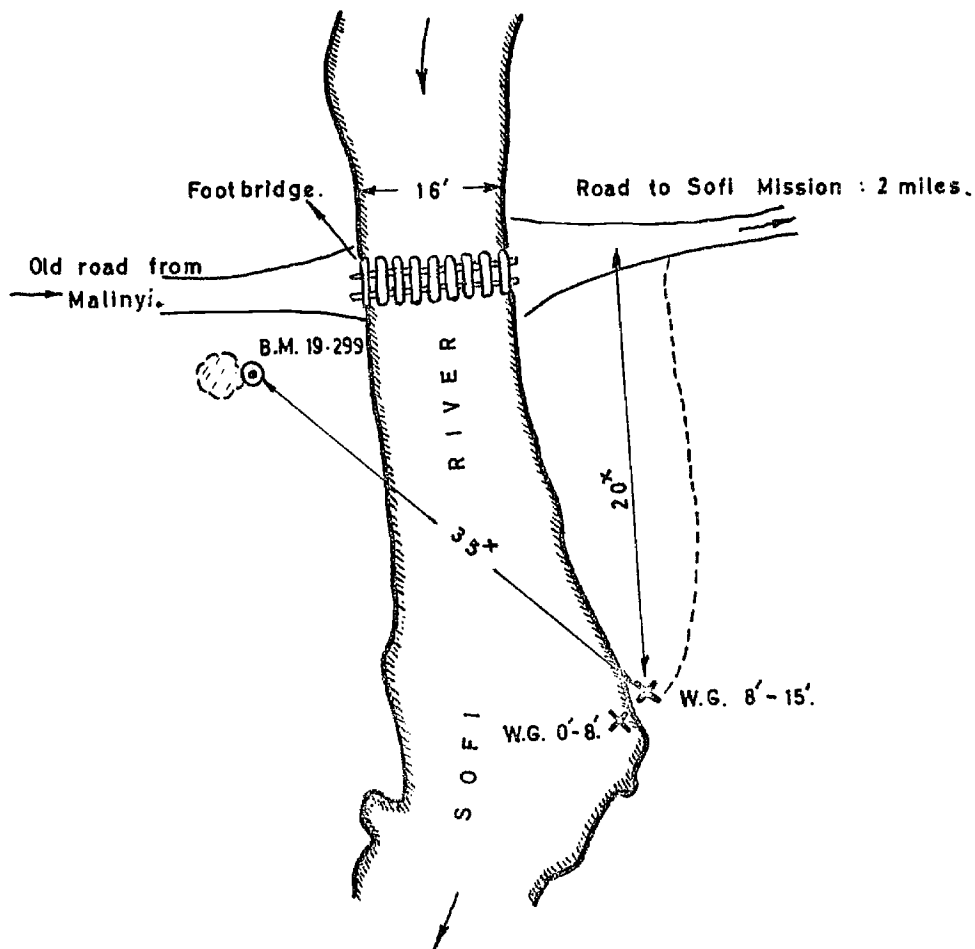
Description of gauges: 0' - 10' gauge plates are bolted to a length of angle iron and driven into the river bed and then bolted to the rock face. 10' - 15' and 15' - 20' are on an upright of angle iron which is cemented into soft rock.

Description of BM: The BM is 10 yds. from the gauges. It is a bolt, embedded in brickwork, coated with concrete plaster and painted red.

Height of BM: 17.30 ft.

Access: In the dry weather, the station can be reached any time by land-rover but soon as the ferry at Ifakara stops functioning, the Station is cut off.





### SOFI AT SOFI MISSION

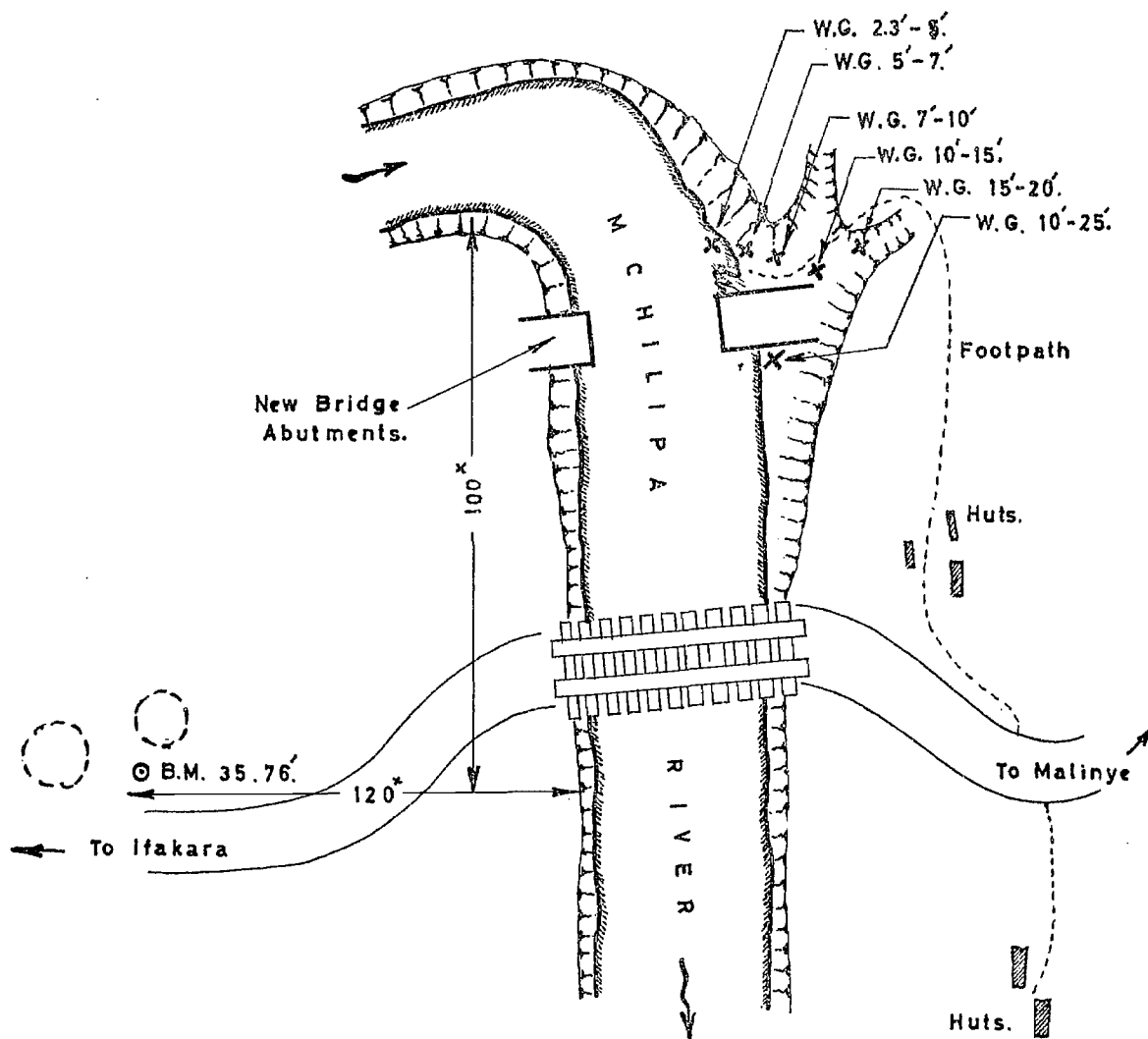
No. 1KB11. Catchment area 62 sq. miles. Latitude  $S8^{\circ}55'$ . Longitude  $E36^{\circ}15'$ .  
WL gauge established Dec. 1956 and observations started 17th Dec. 1956.

Description of gauges: The gauge plates are bolted to lengths of angle iron. The lower upright (0' - 8') is bolted to rock face and concreted at the bottom. The top upright (8' - 15') is embedded in a foundation of concrete and brickwork. The angle irons are painted red.

Description of BM: The BM is a bolt embedded in brick work covered with concrete plaster and then painted red and is 35 yds. from the gauges under a bushy tree on the opposite bank of the river gauges.

Height of BM: 19.30 ft.

Access: In the dry weather, it is always reached by Land rover. In wet weather it is accessible as long as the ferry at Ifakara is operating.



MCHILIPA AT IDETE

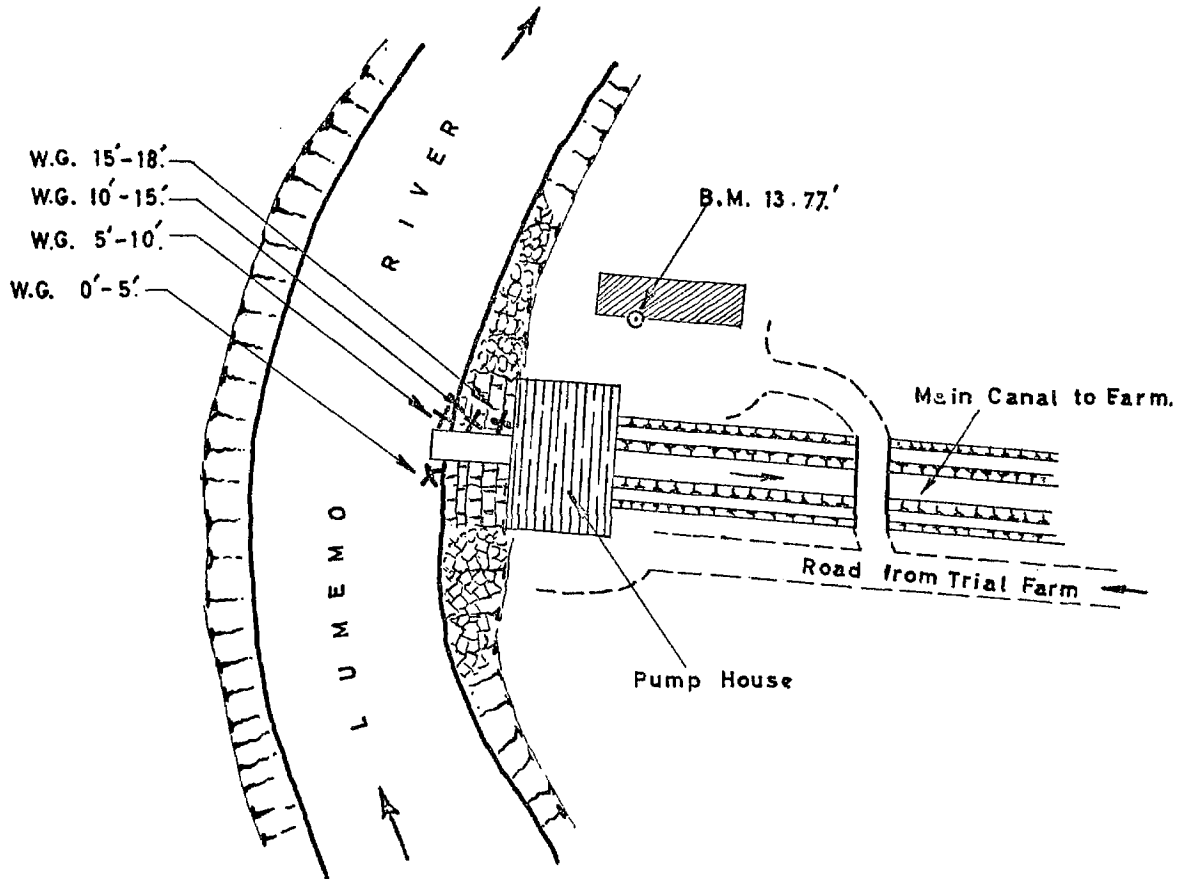
No. 1KB12. Catchment area 114 sq. miles. Latitude  $S8^{\circ}40'$ . Longitude  $E36^{\circ}20'$ .  
 WL gauge established Dec. 1956 and observations started 19th Dec. 1956.

Description of gauges: Gauge 2.3' to 20' fixed to angle iron and embedded on U/S side of bridge. Gauge 10' to 25' is fixed on left side abutment.

Description of BM: Situated 120 yds. from the river between two bushy trees. Bolt embedded in brickwork coated with concrete plaster and painted red.

Height of BM: 35.76 ft.

Other installations: Raingauge installed at Idete Mission 19th Dec. 1956.



LUMEMO AT TRIAL FARM

No. 1KB13. Water level station only. Latitude  $S8^{\circ}10'$ . Longitude  $E36^{\circ}39'$ .  
 WL gauge established March 1957 and observations started 14th March 1957.

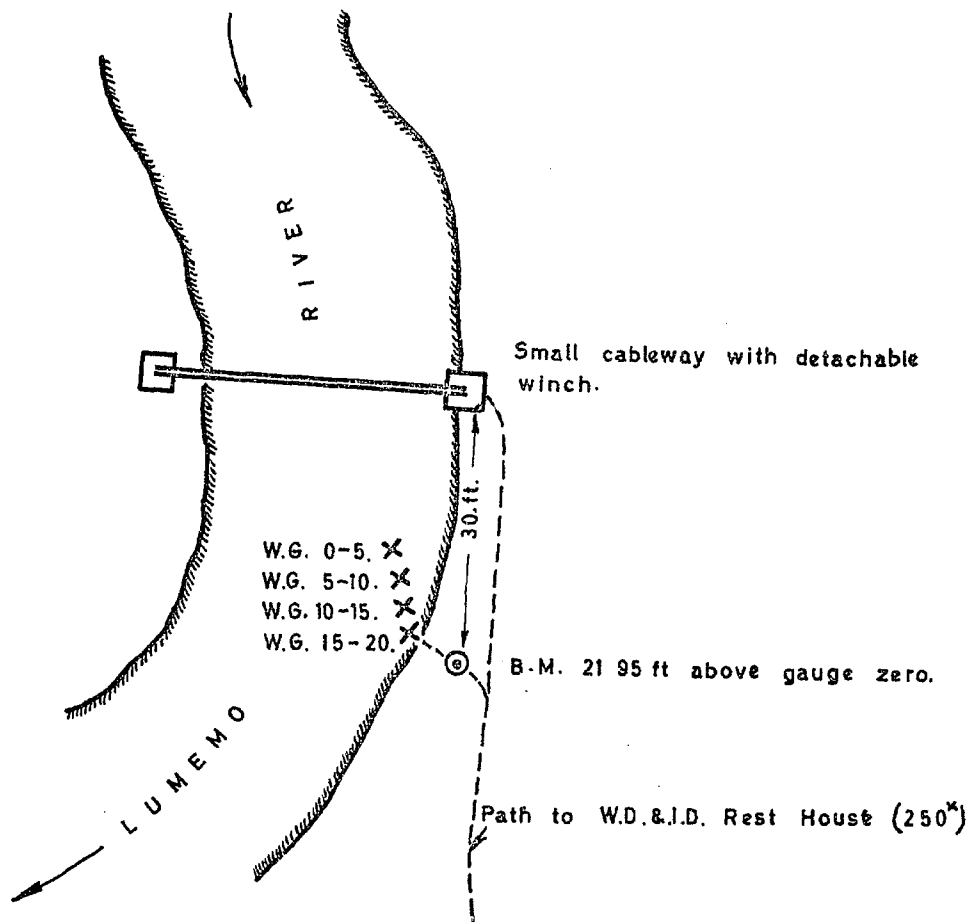
Description of gauges: Plates (0' - 15') fixed to angle iron supports by platform from Pump House, (0' - 18') plate fixed to concrete wall of Pump House.

Description of BM: Mark on the step of the Pump Attendant's house.

Height of BM: 13.77'.

Other installations: Meteorological station.

Access: Always accessible from Ifakara town.



### LUMEMO AT KIBAONI

No. 1KB14. Catchment area 164 sq. miles. Latitude  $S8^{\circ}08'$ . Longitude  $E36^{\circ}40'$ .  
WL gauge established Dec. 1957 and observations started 1st Jan. 1958.

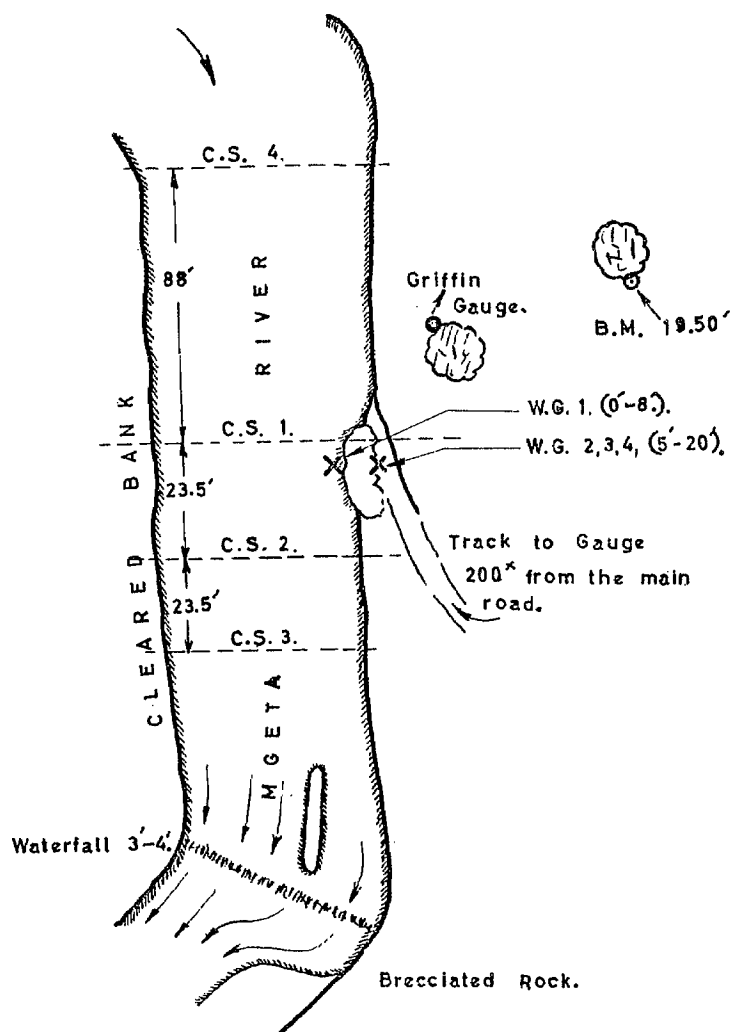
Description of gauge: Gauge plates fixed to a length of wood bolted to angle iron, embedded in the ground with concrete.

Description of BM: It is a standard WD and ID BM embedded in the ground on top of the river bank near the top gauge.

Height of BM: 21.95 ft.

Other installations: Small cable way situated about  $20'$  U/S of the gauge site.

Access: Always accessible. 4 miles East of Ifakara.



### MGETA AT MCHOMBE MISSION

No. 1KB15. Catchment area 124 sq. miles. Latitude  $S8^{\circ}20'$ . Longitude  $E36^{\circ}07'$ .  
 WL gauge established No. 1957 and observations started 20th Nov. 1957.

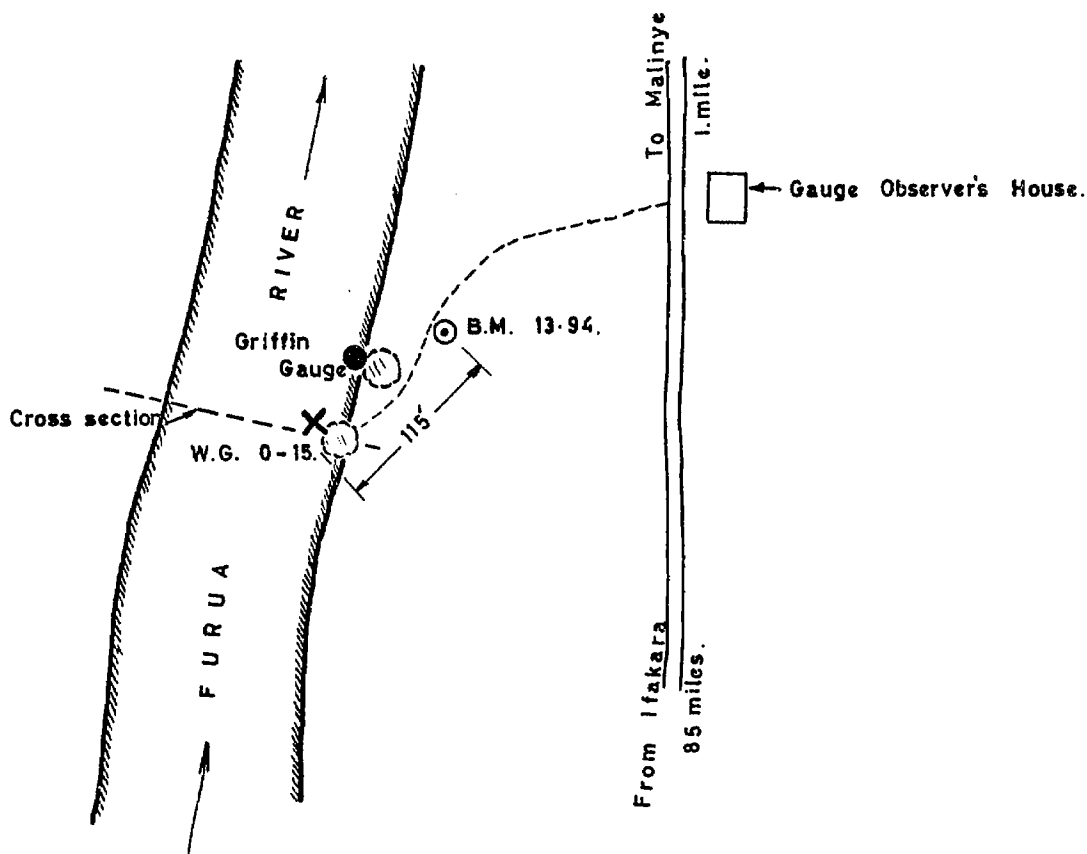
Description of gauges: Gauge I -  $0' - 8'$ , angle iron driven  $3'$  into the brecciated rocky bottom and bolted to big tree at the top. Plates face U/S. Gauge II,  $5' - 10'$ , Gauge III,  $10' - 15'$  and Gauge IV,  $15' - 20'$  screwed to  $2'' \times 3''$  timber and bolted to the same tree. The plates are faced towards the bank.

Description of BM:  $5''$  iron bolt driven into big tree, "B.M." painted in capital letters on the tree.

Height of BM: 19.50 ft.

Other installations: Griffin gauge,  $5.9'$  bolted to big tree on the same bank as the gauge. Griffin gauge zero corresponds to 18.27 ft. on the staff gauge.

Access: It is possible to go from Ifakara to Mchombe Mission by land rover in the dry season, if Ruipa and some smaller bridges are put in order. In the rainy season it is accessible by boat from Ifakara.



### FURUA AT MALINYI MISSION

No. 1KB16. Catchment area 507 sq. miles. Latitude  $S8^{\circ}56'$ . Longitude  $E36^{\circ}05'$ . WL gauge established Nov. 1957 and observations started 25th Nov. 1957.

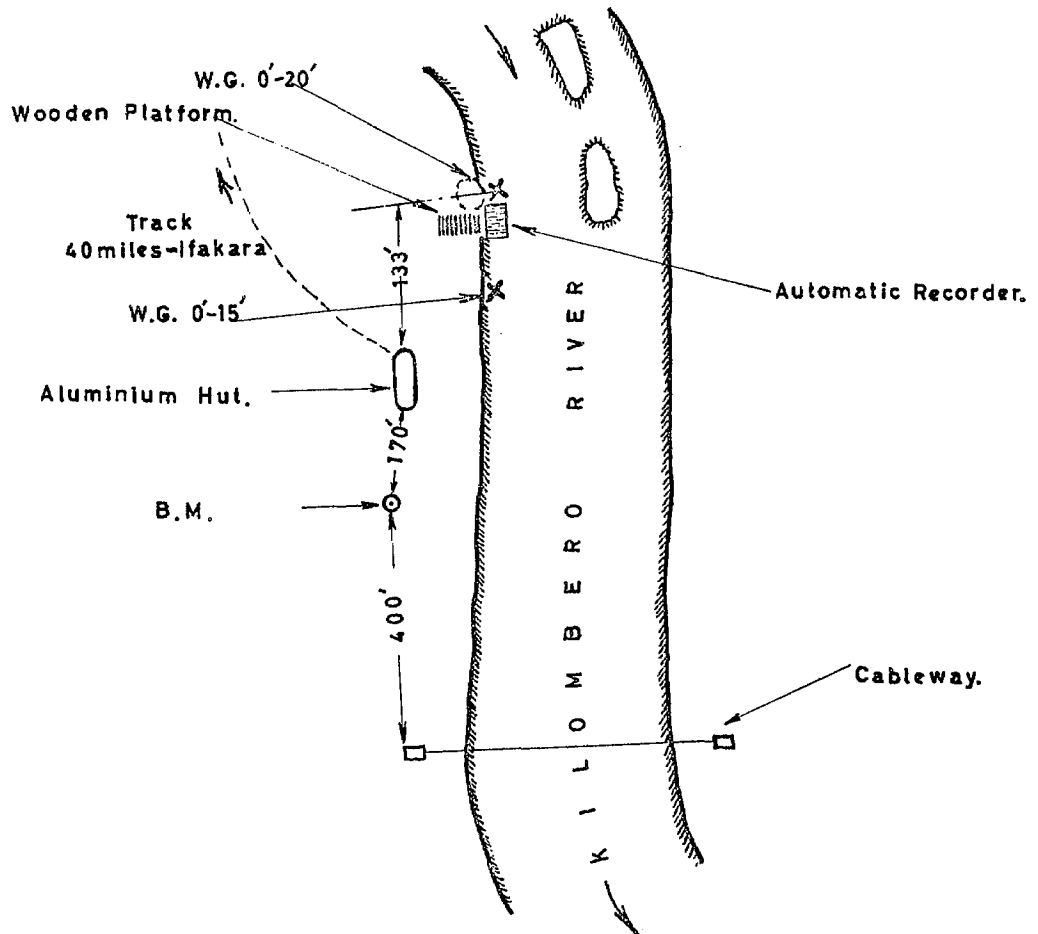
Description of gauges: Scale 0' - 15', 4" x 4" timber 15' long bolted to big tree on the right bank of Furua 1 mile before centre of Malinyi Village. 7 ft. angle iron driven into the river bed and bolted to the bottom of the timber. River sandy and changeable.

Description of BM: 6" bolt driven into big tree 115' from the gauge. "BM" painted in capital letters on the tree.

Height of BM: 13.94 ft.

Other installations: Griffin gauge 5.9' bolted to big tree (see sketch). Griffin gauge zero 9.21 ft. above staff gauge zero. One key for the Griffin Gauge left in care of Father Berthold at Malinyi Mission. Meteorological screen with thermometer installed at the mission.

Access: Accessible by road only in dry weather. Malinyi accessible by boat in flood season.



### KILOMBERO AT SWERO

No. 1KB17. Catchment area 12915 sq. miles. Latitude  $S8^{\circ}12'$ . Longitude  $E37^{\circ}00'$ . WL gauge established Nov. 1957 and observations started 27th Nov. 1957.

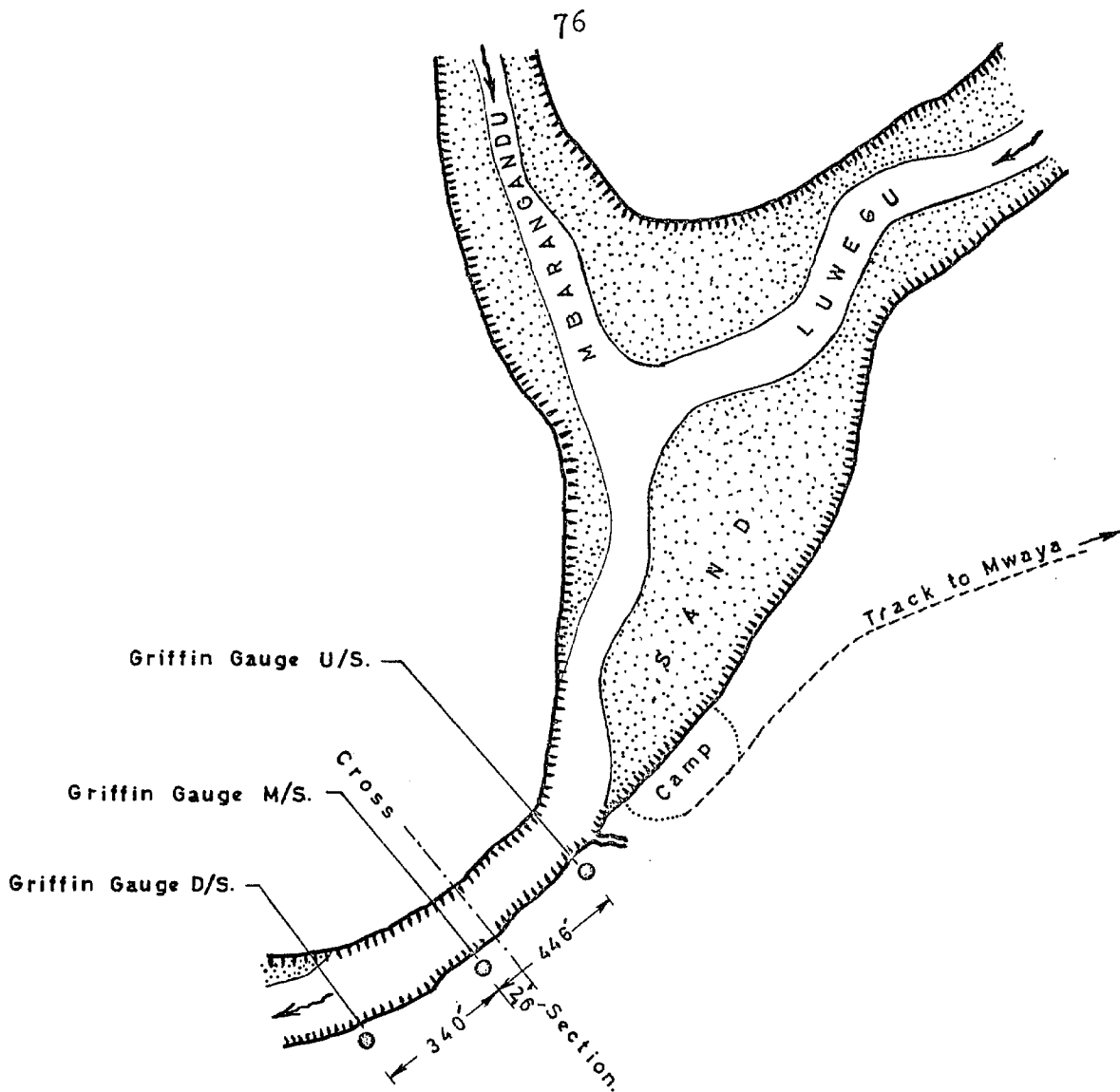
Description of gauges: 0' - 20' (Set 1) fixed to Recorder Float cylinder. 0' - 15' (Set 2) fixed to pole, embedded in river bed and nailed at top to a tree.

Description of BM: Bolt embedded in concrete.

Height of BM: 23.45 ft. Gauge zero is 776.38 ft. above MSL.

Other installations: 1. Cable way. 2. Automatic Recorder. 3. Aluminium Hut. 4. Rain gauge.

Access: Dry season by motor vehicle. Wet season by river transport.



### LUWEGU AT DAMSITE

No. 1KC1. Catchment area 9382 sq. miles. Latitude  $S8^{\circ}55'$ . Longitude  $E37^{\circ}23'$ . Griffin gauges established 11th August 1958.

Description of gauges: 3 Griffin gauges, U/S, M/S and D/S are established. All gauges are nailed to trees. The gauges are related to each other as follows:-

M/S - U/S	Distance apart 446 ft.	Difference in gauge zero 0.51 ft.
M/S - D/S	Distance apart 340 ft.	Difference in gauge zero 0.19 ft.

Maximum indicated WL corresponds to approximately 5.6 ft. on M/S gauge.





RIVER: RUFJI  
 STATION: NDUNDU  
 STATION NO: IK.1  
 YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.90	3.60	10.80	11.70	14.75	13.75		5.65	3.70	3.10		
2.	1.85	7.55	12.00	12.75	14.85	13.55		5.60	3.65	3.00		
3.	1.80	6.45	12.80	13.45	16.15	13.25		5.60	3.60	3.00		
4.	1.75	7.15	14.60	14.30	16.60	13.05		5.50	3.50	3.00		
5.	1.70	7.65	12.35	13.85	16.90	12.75		5.40	3.45	3.00		
6.	1.70	7.70	13.45	14.05	17.05	12.55		5.40	3.40	3.00		
7.	1.70	7.85	13.60	14.15	17.25	12.25		5.30	3.40	3.00		
8.	1.70	8.00	12.55	13.50	17.55	12.05		5.30	3.40	3.00		
9.	1.70	8.40	12.35	13.40	17.60	11.80		5.20	3.40	3.00		
10.	1.65	8.00	11.65	14.55	18.15	11.55		5.20	3.40	3.00		
Mean.	1.74	7.23	12.61	13.57	16.69	12.65		5.41	3.49	3.01		
11.	1.50	7.55	11.05	14.80	18.10	11.35		5.10	3.35	2.90		
12.	1.50	8.40	10.45	14.25	18.05	11.05		4.50	3.30	2.90		
13.	1.45	11.90	9.90	13.80	17.85	10.85		4.50	3.30	2.90		
14.	1.50	12.20	9.50	13.65	17.60	10.65		4.50	3.30	2.90		
15.	1.50	12.55	9.30	14.15	17.35	10.55		4.50	3.30	2.90		
16.	1.45	13.95	9.60	14.80	17.05	10.35		4.40	3.30	2.90		
17.	1.40	11.80	9.45	15.70	16.75	10.30		4.40	3.30	2.80		
18.	1.45	10.40	9.50	16.30	16.40	10.30		4.40	3.30	2.80		
19.	1.60	13.65	9.55	16.75	16.10	10.30		4.40	3.20	2.75		
20.	1.55	14.70	9.30	16.85	15.85	10.20		4.25	3.20	2.70		
Mean.	1.49	11.71	9.76	15.10	17.11	10.59		4.49	3.28	2.84		
21.	1.70	14.75	9.15	16.60	15.75	10.10		4.15	3.20	2.70		
22.	2.30	13.95	9.45	15.95	15.45	9.95		4.05	3.20	2.70		
23.	2.45	12.60	9.40	15.75	15.25	9.80		4.00	3.20	2.60		
24.	2.40	11.80	9.50	15.95	14.70	9.65		3.95	3.20	2.50		
25.	2.60	12.05	9.40	15.80	14.60	9.50		3.90	3.20	2.50		
26.	2.60	12.05	9.20	15.60	14.45	9.35		3.90	3.10	2.50		
27.	2.70	11.45	9.05	15.35	14.30	9.15		3.85	3.10	2.50		
28.	2.90	11.00	9.35	15.15	14.25	9.00		3.80	3.10	2.40		
29.	3.30		9.60	14.55	14.05	8.85		3.80	3.10	2.40		
30.	4.05		9.85	14.50	14.00	8.75		3.75	3.10	2.40		
31.	3.25		9.75		13.95			3.70		2.40		
Mean.	2.75	12.46	9.43	15.52	14.61	9.41		3.89	3.15	2.51		
Monthly Mean.	2.02	10.32	10.56	14.73	16.09	10.88		4.58	3.31	2.78		
Max.	4.30	14.80	14.80	16.90	18.20	13.80		5.70	3.70	3.10		
Date.	30	21	4	20	10	1		1	2	1		
Min.	1.40	3.40	9.00	11.10	13.90	8.70		3.70	3.10	2.40		
Date.	18	1	27	1	31	30		31	30	30		



RIVER: RUFJI  
STATION : NUNDU  
STATION NO: IK.1  
YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.82	9.79	6.07	8.93			5.01	2.50	1.20	0.40		-0.70
2.	0.70	9.52	6.02	10.07			4.80	2.50	1.15	0.35		-0.70
3.	0.72	8.44	6.07	10.72			4.65	2.40	1.10	0.30		-0.70
4.	0.80	8.85	6.27	9.62			4.45	2.40	1.00	0.30		-0.70
5.	0.90	8.90	6.28	9.33			4.40	2.35	1.00	0.30	N	-0.70
6.	0.85	10.97	6.17	9.24			4.35	2.30	0.90	0.30	I	-0.80
7.	0.95	10.41	6.13	8.86			4.25	2.30	0.90	0.30	L	-0.80
8.	1.27	9.37	6.13	8.96		+	4.10	2.20	0.90	0.20		-0.85
9.	1.55	8.63	6.04	8.83			9.92	4.00	2.20	0.80	0.10	0.80
10.	1.65	8.24	5.92	9.15	+		9.68	3.90	2.20	0.80	0.10	0.80
Mean.	1.02	9.31	6.11	9.37			4.39	2.34	0.98	0.27		-0.44
11.	2.27	9.17	5.86	9.03	15.00	9.39	3.80	2.15	0.80		N	0.80
12.	2.80	9.59	5.78	9.08	15.06	9.09	3.75	2.10	0.70		I	0.60
13.	2.62	9.18	5.67	8.87	15.05	8.82	3.70	2.10	0.70		L	0.20
14.	2.57	10.05	5.58	9.24	15.01	8.52	3.60	2.05	0.70			-0.05
15.	3.97	9.78	5.72	11.40	15.00	8.28	3.50	2.00	0.60	N		-0.30
16.	4.40	8.62	6.08	11.66	+	7.98	3.40	1.90	0.60	I		0.15
17.	5.23	7.77	6.21	12.40		7.74	3.35	1.90	0.60	L	-0.70	-0.20
18.	4.42	7.15	6.26	13.21		7.49	3.30	1.80	0.50		-0.70	0.40
19.	3.90	6.92	6.00	13.63		7.26	3.20	1.80	0.50		-0.25	1.95
20.	3.77	6.52	6.81	14.15		7.02	3.10	1.70	0.40		-0.20	2.35
Mean.	3.59	8.47	6.00	11.27		8.16	3.47	1.95	0.61			0.59
21.	4.37	6.33	6.95	14.49		6.78	3.05	1.70	0.40		-0.40	1.10
22.	3.50	6.65	7.59	14.76		6.57	3.00	1.70	0.30		-0.30	1.15
23.	3.57	6.83	8.95	14.95		6.37	2.90	1.60	0.30		-0.40	1.05
24.	3.07	6.58	8.05	15.04		6.18	2.90	1.55	0.40	N	-0.40	1.60
25.	3.15	6.58	7.68	15.07		5.98	2.90	1.50	0.50	I	-0.40	1.60
26.	3.10	6.49	7.28	15.02		5.80	2.80	1.40	0.45	L	-0.40	1.65
27.	3.95	6.18	6.91	15.00		5.70	2.70	1.40	0.40		-0.40	1.75
28.	5.63	6.10	6.60	+		5.48	2.70	1.40	0.40		-0.55	2.00
29.	4.15		8.10			5.29	2.60	1.30	0.40		-0.60	2.95
30.	4.47		9.80			5.16	2.60	1.25	0.40		-0.65	2.55
31.	5.39		9.05				2.50	1.20				2.30
Mean.	4.03	6.46	7.90			5.93	2.70	1.45	0.40		-0.45	1.79
Monthly Mean.	2.92	8.20	6.71				3.52	1.90	0.66			0.69
Max.	5.92	11.42	9.98			5.02	2.50	1.20				3.00
Date.	28	6	30			1	2	2				29
Min.	0.70	6.08	5.56		5.12	2.50	1.20	0.30				-0.90
Date.	3	28	14		30	31	31	23				8

September 16th Gauge 0 to -2 established

Between + levels between 10.00 and 14.90 gauge three was washed out.

RIVER: RUFJI  
 STATION: NDUNDU  
 STATION NO: IK.1  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.15	1.70	6.00	14.13	14.80	10.10	2.60	0.60	-0.10	-0.60	-0.20	-0.50
2.	2.60	2.55	7.30	14.37	14.80	10.00	2.50	0.60	-0.10	-0.70	-0.20	-0.50
3.	3.30	2.25	7.50	14.63	14.90	9.80	2.40	0.60	-0.10	-0.70	-0.30	-0.50
4.	7.10	2.30	10.10	14.77	14.90	9.40	2.30	0.50	-0.20	-0.80	-0.30	-0.50
5.	5.14	2.05	9.00	14.90	15.02	9.00	2.20	0.50	-0.20	-0.80	-0.30	-0.40
6.	4.25	1.85	8.00	14.90	15.04	8.50	2.10	0.50	-0.20	-0.80	-0.30	-0.40
7.	3.80	1.80	6.90	15.00	15.01	8.00	2.10	0.50	-0.20	-0.80	-0.40	-0.40
8.	3.35	2.00	6.10	14.90	14.95	7.40	2.00	0.40	-0.20	-0.90	-0.40	-0.40
9.	3.10	2.70	7.30	14.73	14.90	6.90	1.90	0.40	-0.20	-0.90	-0.40	-0.50
10.	3.30	2.90	9.30	14.43	14.80	6.50	1.80	0.40	-0.30	-0.90	-0.40	-0.50
Mean.	3.81	2.21	7.75	14.68	14.91	8.56	2.19	0.50	-0.18	-0.79	-0.32	-0.46
11.	3.15	2.80	10.05	14.00	14.70	6.10	1.70	0.40	-0.30	-0.90	-0.40	-0.50
12.	2.90	4.10	9.10	13.70	14.53	5.70	1.60	0.40	-0.30	-0.90	-0.40	-0.50
13.	2.55	6.50	10.40	13.30	14.36	5.40	1.60	0.30	-0.30	-0.90	-0.40	-0.40
14.	2.40	4.60	10.60	13.00	14.10	5.10	1.60	0.30	-0.40	-0.90	-0.40	-0.40
15.	2.20	6.70	8.50	12.83	13.85	4.90	1.50	0.20	-0.40	-0.90	-0.50	-0.40
16.	2.20	5.70	8.50	12.70	13.63	4.60	1.50	0.20	-0.40	-0.90	-0.50	-0.40
17.	2.05	8.50	8.30	12.57	13.30	4.30	1.40	0.20	-0.40	-0.90	-0.50	-0.40
18.	1.90	10.40	10.55	12.50	13.10	4.20	1.40	0.20	-0.50	-0.90	-0.50	0.10
19.	1.85	10.00	11.15	12.65	12.80	4.10	1.40	0.20	-0.50	-0.70	-0.50	2.33
20.	1.80	7.50	11.00	12.85	12.50	3.90	1.30	0.20	-0.50	-0.50	-0.50	2.93
Mean.	2.30	6.68	9.82	13.01	13.69	4.83	1.50	0.26	-0.40	-0.84	-0.46	0.24
21.	1.70	6.40	10.20	13.30	12.30	3.70	1.20	0.10	-0.50	-0.30	-0.50	3.70
22.	1.70	6.10	10.30	13.55	12.10	3.50	1.20	0.10	-0.50	-0.20	-0.60	1.87
23.	1.60	6.80	10.20	13.60	11.97	3.40	1.10	0.10	-0.60	-0.10	-0.60	7.20
24.	1.55	8.00	10.10	13.75	11.70	3.30	1.00	0.10	-0.60	-0.10	-0.60	5.53
25.	1.55	7.00	10.90	13.90	11.57	3.20	1.00	0.10	-0.60	-0.10	-0.60	6.77
26.	1.65	6.60	11.65	14.05	11.43	3.10	0.90	0.10	-0.50	-0.10	-0.60	7.80
27.	1.60	6.80	12.85	14.25	11.23	3.00	0.90	0.10	-0.60	-0.10	-0.60	4.73
28.	1.60	6.30	12.70	14.45	11.03	2.90	0.80	0.10	-0.60	-0.20	-0.60	6.13
29.	1.85		12.50	14.60	10.83	2.80	0.70	0.00	-0.60	-0.20	-0.60	5.50
30.	2.25		13.20	14.70	10.60	2.70	0.70	0.00	-0.60	-0.20	-0.50	5.17
31.	1.70		13.80		10.30		0.70	0.00		-0.20		4.70
Mean.	1.70	6.75	11.67	14.02	11.37	3.16	0.93	0.07	-0.57	-0.16	-0.58	5.37
Monthly Mean.	2.57	5.10	9.81	13.90	13.26	5.52	1.52	0.27	-0.38	-0.58	-0.45	1.83
Max.	7.16	10.40	13.90	15.00	15.04	10.10	2.60	0.60	-0.10	-0.10	-0.20	9.20
Date.	4	18	31	7	6	1	1	3	3	27	2	26
Min.	1.50	1.70	6.00	12.40	10.20	2.70	0.70	0.00	-0.60	-0.90	-0.60	-0.50
Date.	25	1	1	18	31	30	31	31	30	18	29	12

RIVER: RUFJI  
 STATION: NDUNDU  
 STATION NO: 1K.1  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.93	3.93	9.07		9.63	5.10	1.40	0.30				
2.	3.20	4.20	10.63		9.90	5.00	1.40	0.20				
3.	2.63	3.60	11.00		9.80	4.67	1.30	0.20				
4.	2.17	4.47	11.57		9.47	4.40	1.30	0.20				
5.	1.80	5.17	11.80		8.83	4.13	1.30	0.20		N I L		
6.	1.50	5.30	11.60	9.87	8.70	3.93	1.30	0.20				
7.	1.27	6.60		9.47	8.43	3.70	1.30	0.20				
8.	1.13	5.07		8.70	8.23	3.43	1.30	0.20				
9.	1.10	4.03		8.17	8.13	3.23	1.30	0.20				
10.	1.17	3.73		7.70	7.93	3.10	1.20	0.20				
Mean.	1.99	4.61	10.95	7.32	8.91	4.07	1.31	0.21				
11.	3.43	3.43		7.33	7.77	2.90	1.20	0.20				0.23
12.	1.90	3.30	9.40	7.13	7.63	2.73	1.20	0.20				0.47
13.	1.87	4.00	8.63	7.10	7.53	2.60	3.10	0.20				1.80
14.	2.10	3.50	8.20	7.17	7.43	2.50	1.10	0.20				3.13
15.	3.43	6.50	7.77	7.40	7.50	2.33	1.10	0.20		N I L		5.27
16.	5.13	7.03	9.60	7.53	7.50	2.23	1.00	0.20				
17.	9.47	6.53	9.37	8.17	7.27	2.10	0.90	0.20				
18.	8.90	6.23	8.77	8.10	7.10	2.10	0.90	0.20				
19.	7.33	8.43	8.33	7.73	6.90	2.00	0.80	0.20				
20.	5.13	7.10	7.70	7.53	6.80	1.90	0.80	0.20				
Mean.	4.87	5.61	8.64	7.52	7.34	2.34	1.01	0.20				
21.	4.03	5.87	7.10	9.33	6.70	1.80	0.70	0.20				
22.	3.63	5.07	7.27	6.37	6.60	1.80	0.70	0.20				
23.	3.13	5.07	8.80	8.37	6.50	1.70	0.70	0.20				
24.	2.67	6.40	9.57	8.10	6.40	1.70	0.60	0.20				
25.	2.33	7.03	7.73	7.60	6.20	1.70	0.60	0.20		N I L		
26.	2.33	8.17	7.83	7.57	6.10	1.60	0.50	0.20				
27.	2.37	8.33	9.50	6.67	5.97	1.60	0.40	0.20				
28.	2.13	8.53	9.23	7.93	5.80	1.50	0.40	0.20				
29.	2.00		8.80	8.27	5.70	1.50	0.40	0.10				
30.	2.30		8.37	9.60	5.50	1.40	0.40	0.10				
31.	2.33		9.45		5.50		0.40	0.10				
Mean.	2.66	6.81	8.51	7.98	6.09	1.63	0.53	0.17				
Monthly Mean.	3.16	5.59	9.12	7.93	7.40	2.68	0.94	0.19				
Max.	9.80	9.30			9.90	5.10	1.40	0.30				
Date.	18	26			2	1	2	1				
Min.	1.10	3.30			5.30	1.40	0.40	0.10				
Date.	9	12			31	30	31	31				

RIVER: RUFJI  
 STATION: MTANZA  
 STATION NO: IK.2  
 YEAR: 1954

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.												1.70
2.												1.70
3.												1.70
4.												1.70
5.												1.70
6.												1.70
7.												1.70
8.												1.70
9.												1.70
10.												1.70
Mean.												1.70
11.												1.70
12.												1.70
13.												1.70
14.												1.70
15.												1.80
16.												1.80
17.												1.90
18.												1.90
19.												1.90
20.												1.90
Mean.												1.80
21.												2.00
22.												2.30
23.												2.30
24.												2.30
25.												2.30
26.												2.30
27.												2.30
28.												2.30
29.												2.30
30.												2.30
31.												2.30
Mean.												2.27
Monthly Mean.												1.93
Max.												2.30
Date.												31
Min.												1.70
Date.												14.

NOTE: Water level transferred to new gauge.

RIVER: RUFJI  
STATION: MTANZA  
STATION NO: IK.2  
YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.00	4.30	7.60	8.50	9.70	8.80		2.50	1.50	1.00	1.10	0.40
2.	2.00	4.30	7.60	9.10	10.10	8.60		2.50	1.50	1.00	1.10	0.40
3.	2.00	5.70	8.20	10.20	10.90	8.40		2.50	15.0	1.00	1.10	0.40
4.	2.00	5.70	10.40	9.00	10.60	8.30		2.40	1.50	0.90	1.00	0.40
5.	2.00	5.70	11.00	8.45	11.00	8.10		2.40	1.50	0.90	0.90	0.30
6.	2.00	5.70	11.00	9.60	11.00	8.10		2.40	1.50	0.90	0.90	0.30
7.	2.00	6.40	9.40	8.80	12.10	7.90		2.30	1.40	0.90	0.90	0.30
8.	2.00	6.40	7.90	8.60	12.30	7.70		2.30	1.40	1.00	1.00	0.30
9.	2.00	7.00	7.70	10.40	11.80	7.50		2.20	1.40	0.90	1.00	0.20
10.	2.00	7.00	7.20	10.00	11.60	7.40		2.20	1.40	0.90	0.70	0.20
Mean.	2.00	5.82	8.80	9.26	11.11	8.08		2.37	1.46	0.94	0.97	0.32
11.	2.00	7.00	7.20	9.20	11.30	7.30		2.10	1.40	0.90	0.60	0.20
12.	2.00	9.80	7.20	9.00	11.00	7.10		2.10	1.40	0.90	0.60	0.20
13.	2.00	9.80	6.00	9.00	10.90	7.00		2.10	1.30	0.90	0.60	0.20
14.	2.00	9.80	6.00	9.50	10.70	6.90		2.10	1.30	0.90	0.60	0.20
15.	2.00	10.60	6.15	9.20	10.50	6.80		2.10	1.30	0.90	0.60	0.45
16.	2.00	7.80	6.00	10.40	10.20	6.80		2.00	1.30	0.90		
17.	2.00	7.80	6.00	11.10	10.10	6.80		2.00	1.20	0.80		
18.	2.00	8.60	6.00	11.50	9.90	6.80		2.00	1.20	0.80		
19.	2.00	11.50	6.00	11.10	9.60	6.70		2.00	1.20	0.80		
20.	2.10	10.30	6.00	10.30	9.50	6.60	3.00	1.90	1.20	0.80		
Mean.	2.01	9.30	6.25	10.03	10.37	6.88		2.04	1.28	0.86		
21.	2.70	8.70	6.20	9.70	9.40	6.50	2.90	1.90	1.20	0.80		
22.	2.70	8.70	6.20	9.80	9.70	6.40	2.90	1.80	1.20	0.80		
23.	2.70	8.30	6.00	10.30	9.30	6.20	2.80	1.80	1.10	0.90		
24.	2.70	8.30	6.00	10.20	9.30	6.10	2.80	1.80	1.10	0.90		
25.	2.70	8.70	6.00	9.30	9.30	6.00	2.70	1.70	1.10	0.90		
26.	2.70	7.30	6.00	9.40	9.10	5.80	2.70	1.70	1.10	1.00		
27.	2.70	7.30	6.00	9.30	9.10	5.70	2.70	1.70	1.10	1.00		
28.	2.70	7.30	6.20	9.30	9.10		2.70	1.60	1.10	1.00		
29.	2.70		7.20	9.30	9.10		2.60	1.60	1.00	1.00		
30.	2.70		6.00	9.50	9.10		2.60	1.60	1.00	1.00		
31.	2.70		6.00		9.00		2.50	1.50		1.00		
Mean.	2.70	8.07	6.16	9.61	9.23		2.72	1.70	1.10	0.93		
Monthly												
Mean.	2.25	7.71	7.04	9.63	10.20			2.02	1.28	0.91		
Max.	2.70	11.50	11.00	11.50	12.30			2.50	1.50	1.00		
Date.	31	19	6	18	8			3	6	31		
Min.	2.00	4.30	6.00	8.45	9.00			1.50	1.00	0.80		
Date.	19	2	24	5	31			31	30	22		

NOTE: Water level readings taken before the 9th November 1955 are transferred to new gauge established on that date.



RIVER: RUFJI  
STATION: MTANZA  
STATION NO: 1K.2  
YEAR: 1956.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.27	11.70	10.76	11.53	13.10	9.90	4.60	3.70	3.00			
2.	2.23	10.36	10.03	11.33	12.93	9.76	4.50	3.60	2.90			
3.	1.87	12.23	9.80	11.73	12.76	9.56	4.50	3.60	2.90			
4.	3.70	10.73	9.93	12.76	12.56	9.36	4.50	3.60	2.90			
5.	4.70	10.80	9.73	13.36	12.33	9.16	4.50	3.50	2.90			
6.	3.23	10.80	9.23	13.70	12.13	9.00	4.40	3.50	2.80			
7.	3.20	9.56	9.03	14.06	12.00	8.86	4.40	3.50	2.80			
8.	4.97	10.76	9.16	14.80	11.90	8.63	4.40	3.50	2.80			
9.	5.40	10.33	9.20	14.03	11.86	8.46	4.30	3.40	2.70			
10.	6.80	9.23	8.96	13.53	11.80	8.20	4.30	3.40	2.70			
Mean.	3.84	10.65	9.58	13.08	12.34	9.09	4.44	3.53	2.84			
11.	5.86	9.76	9.10	13.40	11.70	8.00	4.20	3.40	2.60			
12.	5.33	10.10	9.10	13.23	11.63	7.86	4.20	3.40	2.60			
13.	5.13	11.26	9.10	13.06	11.70	7.63	4.20	3.30	2.50			
14.	4.36	12.33	10.40	12.76	11.66	7.46	4.20	3.30	2.50			
15.	4.86	10.70	10.66	12.60	11.56	7.16	4.10	3.30	2.50			
16.	4.63	9.83	9.96	12.40	11.50	7.00	4.10	3.20	2.40			
17.	5.03	9.80	9.66	12.03	11.50	6.66	4.10	3.20	2.40			
18.	5.43	10.97	9.16	12.10	11.40	6.46	4.10	3.20	2.30			3.00
19.	6.13	11.50	9.10	12.66	11.40	6.16	4.10	3.20				2.33
20.	10.00	10.83	9.13	12.93	11.30	5.96	4.10	3.20				2.23
Mean.	5.67	10.71	9.54	12.72	11.53	7.04	4.14	3.70				
21.	10.76	12.30	9.26	13.20	11.36	5.76	4.10	3.20				
22.	10.46	12.63	9.73	13.30	11.26	5.60	4.00	3.10				
23.	8.70	12.30	9.73	13.26	11.16	5.40	4.00	3.10				
24.	10.03	11.73	9.76	13.80	11.00	5.30	4.00	3.10				
25.	12.13	11.00	9.33	15.06	10.90	5.16	3.90	3.10				
26.	12.83	10.30	9.76	14.40	10.90	5.10	3.90	3.10				
27.	12.03	9.53	9.20	13.90	10.70	5.00	3.90	3.10				
28.	12.23	9.70	8.93	13.43	10.60	4.93	3.80	3.00				
29.	12.53	10.16	9.00	13.16	10.53	4.83	3.80	3.00				
30.	10.86		11.06	13.10	10.26	4.70	3.80	3.00				
31.	11.93		11.56		10.10		3.70	3.00				
Mean.	11.31	12.45	9.75	13.66	10.79	5.18	3.90	3.07				
Monthly Mean.	7.08	10.80	9.69	13.15	11.53	7.10	4.15	3.28				
Max.	12.95	12.70	11.70	15.20	13.10	9.90	4.60	3.70	3.00			
Date.	26	22	31	25	1	1	1	1	1			
Min.	1.80	9.10	8.90	11.30	10.00	4.70	3.70	3.00				
Date.	3	10	29	3	31	30	15	31				

NOTE: The river has partly taken a new curve and the gauge has been dry after 19th September.

RIVER: RUFUJI  
STATION: MTANZA  
STATION NO: IK.2  
YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		8.86	6.20	9.20	11.90	10.06	4.96	3.45	2.30	1.90	1.20	1.20
2.		8.63	6.20	10.37	12.03	9.90	4.77	+3.38	2.25	1.91	1.23	1.15
3.		7.80	6.30	8.63	12.26	9.70	4.70	3.31	2.26	1.90	1.20	1.17
4.		7.83	6.33	8.47	12.50	9.53	4.60	3.24	2.25	1.90	1.31	1.13
5.		10.26	6.30	8.53	12.80	9.33	4.50	3.18	2.20	1.85	1.27	1.10
6.		9.53	6.30	8.07	13.03	9.13	4.50	3.12	2.15	1.80	1.20	1.10
7.		8.00	6.30	8.17	13.10	8.93	+4.44	+3.06	2.18	1.75	1.20	1.05
8.		7.80	6.30	8.17	13.20	8.73	4.38	3.00	2.10	1.70	1.15	1.05
9.		7.00	6.20	8.40	13.30	8.53	4.32	3.00	2.10	1.65	1.12	1.10
10.	2.90	7.50	6.20	8.20	13.23	8.37	4.26	3.00	2.15	1.60	1.10	0.87
Mean.		8.32	6.26	8.62	12.64	9.22	4.54	3.17	2.19	1.80	1.20	1.09
11.	3.10	8.90	6.10	8.40	13.16	8.16	4.20	2.95	2.15	1.55	1.08	0.85
12.	2.96	8.06	6.00	8.07	13.00	7.97	4.14	2.95	2.15	1.51	1.10	1.28
13.	2.90	9.07	6.00	8.20	12.93	7.76	4.08	2.95	2.18	1.53	1.10	1.18
14.	3.66	8.90	5.93	11.27	12.83	7.57	4.02	2.89	2.10	1.57	1.08	1.25
15.	3.80	7.66	6.00	10.10	12.70	7.36	3.96	2.88	2.10	1.48	1.02	0.97
16.	5.36	7.16	6.23	11.47	12.56	7.17	3.90	2.81	+2.06	1.45	1.00	1.15
17.	4.13	6.70	6.83	12.37	12.50	6.96	3.85	2.80	2.02	1.50	1.03	1.78
18.	3.80	6.56	6.13	12.53	12.40	6.77	3.80	2.75	1.99	1.40	1.08	3.17
19.	3.56	6.26	7.00	13.17	12.30	6.60	+3.75	2.70	1.96	1.38	1.28	3.02
20.	3.50	6.10	6.93	13.37	12.20	5.46	3.70	2.70	+1.93	1.35	1.15	2.20
Mean.	3.67	7.54	6.31	10.90	12.66	7.18	3.94	2.84	2.06	1.47	1.09	1.69
21.	3.30	6.33	7.50	13.50	12.10	6.30	3.70	2.63	1.90	1.33	1.23	2.30
22.	3.63	6.66	9.23	13.50	11.96	6.20	3.70	2.65	1.90	1.33	1.53	3.10
23.	3.40	6.40	7.80	13.47	11.86	5.97	3.70	2.53	1.85	1.30	1.48	2.83
24.	3.40	6.43	7.50	12.90	11.66	5.76	3.70	2.55	1.95	1.28	1.48	2.70
25.	3.40	6.46	7.13	12.53	11.43	5.57	3.65	2.56	2.03	1.25	1.45	2.83
26.	3.66	6.26	6.80	12.53	11.23	5.46	3.65	2.50	1.90	1.20	1.47	2.77
27.	5.63	6.20	6.40	12.67	11.03	5.37	3.60	2.46	2.07	1.23	1.40	2.97
28.	3.93	6.20	7.40	12.23	10.83	5.26	3.55	2.40	2.01	1.18	1.30	4.10
29.	4.13		9.36	12.10	10.63	5.17	3.50	2.40	2.00	1.15	1.30	3.53
30.	5.00		8.70	12.03	10.43	5.10	3.50	2.35	2.00	1.25	1.25	3.40
31.	8.40		8.30		10.23		3.45	2.38		1.20		3.20
Mean.	4.53	6.36	7.83	12.75	11.22	5.62	3.61	2.49	1.96	1.24	1.39	3.07
Monthly Mean.		7.48	6.84	10.75	12.14	7.40	4.02	2.82	2.07	1.50	1.23	1.98
Between + are interpolated												
Max.	10.50	11.80	10.10	13.50	13.30	10.10	5.00	3.45	2.30	1.95	1.55	4.10
Date.	3	5	29	22	9	1	1	1	1	10	12	12
Min.		6.10	5.90	8.00	10.20	5.10	3.45	2.35	2.00	1.15	1.00	0.75
Date.		20	14	8	31	30	31	30	30	29	18	10

RIVER: RUFIJI  
 STATION: MTANZA  
 STATION NO: IK-2  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.25	3.93	6.63	13.00	13.10	8.80	3.70	2.70	1.85	1.00	0.60	0.30
2.	4.10	3.60	6.60	13.03	13.20	8.50	3.65	2.50	1.80	0.75	0.60	0.35
3.	7.87	3.60	6.53	13.27	13.10	8.28	3.60	2.55	1.80	1.10	0.55	0.60
4.	5.90	3.43	6.67	13.20	12.93	8.00	3.55	2.65	1.75	0.95	0.50	0.60
5.	5.13	3.30	6.43	13.13	12.83	7.80	3.45	2.50	1.80	1.10	0.45	0.70
6.	4.70	3.23	6.50	12.97	12.70	7.57	3.35	3.00	1.80	1.00	0.50	0.65
7.	4.30	3.30	6.77	12.40	12.40	7.33	3.35	2.90	1.75	0.95	0.55	0.60
8.	4.07	3.43	7.60	11.60	12.27	7.03	3.30	2.30	1.65	0.95	0.45	0.65
9.	4.30	4.13	8.93	11.20	11.97	6.70	3.25	2.85	1.70	0.75	0.40	0.55
10.	4.23	4.30	9.13	10.93	11.70	6.50	3.25	2.80	1.65	0.80	0.45	0.55
Mean.	4.79	3.63	7.18	12.47	12.62	7.65	3.45	2.68	1.76	0.94	0.51	0.56
11.	4.07	5.27	8.83	10.80	11.43	6.24	3.20	2.75	1.60	0.85	0.45	0.58
12.	3.90	7.43	9.47	10.70	11.45	6.14	3.20	2.20	1.60	0.85	0.40	0.61
13.	3.80	5.63	10.63	10.60	11.27	5.81	3.19	2.20	1.55	0.85	0.45	0.73
14.	3.60	6.60	8.40	10.63	11.07	5.60	3.18	2.10	1.55	0.85	0.40	0.67
15.	3.50	5.87	8.40	10.63	10.87	5.41	3.18	2.10	1.50	0.80	0.35	0.63
16.	3.47	9.57	8.27	10.53	10.83	5.20	3.15	2.10	1.45	0.85	0.30	0.60
17.	3.30	8.47	10.20	10.53	10.60	5.10	3.10	2.15	1.40	0.85	0.35	0.60
18.	3.30	9.33	10.73	10.80	10.40	5.00	3.10	2.25	1.40	0.85	0.30	1.00
19.	3.20	9.50	10.13	11.13	10.35	4.83	3.05	2.60	1.35	0.80	0.30	2.50
20.	3.20	7.90	9.03	11.73	10.30	4.73	3.03	2.10	1.25	0.85	0.25	5.73
Mean.	3.53	7.56	9.41	10.81	10.86	5.41	3.14	2.26	1.47	0.84	0.36	1.37
21.	3.10	7.13	9.63	12.00	10.20	4.61	3.00	2.05	1.40	0.75	0.25	3.47
22.	3.10	6.83	8.37	11.17	10.05	4.50	2.95	2.00	1.40	0.80	0.30	8.40
23.	3.10	7.33	9.33	11.77	9.85	4.38	2.92	2.00	1.30	0.80	0.30	6.37
24.	3.10	8.00	9.97	12.00	9.85	4.28	2.90	2.00	1.30	0.80	0.35	6.87
25.	3.10	7.43	11.93	12.37	9.76	4.18	2.87	1.95	1.20	0.70	0.30	9.47
26.	3.10	7.23	12.07	12.63	9.67	4.09	2.85	1.95	1.30	0.70	0.30	5.47
27.	3.10	7.37	10.83	12.80	9.57	4.00	2.75	1.90	1.25	0.75	0.25	7.07
28.	3.40	7.00	10.33	12.50	9.47	3.90	2.75	1.85	1.25	0.65	0.40	6.50
29.	3.53		12.80	12.73	9.30	3.80	2.70	1.85	1.25	0.70	0.35	6.17
30.	3.20		12.70	12.90	9.20	3.72	2.50	1.90	1.15	0.65	0.30	5.43
31.	3.73		12.83		9.10		2.65	1.90		0.60		5.27
Mean.	3.23	7.29	10.98	12.29	9.64	4.15	2.80	1.94	1.28	0.72	0.31	6.41
Monthly Mean.	3.83	6.08	9.25	11.86	10.99	5.73	3.12	2.28	1.50	0.83	0.39	2.89
Max.	8.10	11.00	12.90	13.30	13.20	8.80	3.70	3.00	1.85	1.10	0.60	10.50
Date.	3	18	31	3	3	1	1	6	1	5	2	25
Min.	3.10	3.10	6.30	10.50	9.10	3.72	2.50	1.85	1.15	0.60	0.25	0.30
Date.	27	7	5	17	31	30	30	29	30	31	22	1

RIVER: RUFJI  
 STATION: MTANZA  
 STATION NO: LK.2  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.66	5.73	10.57	9.97	9.97	5.93		2.40	2.10	1.60		
2.	4.20	5.20	11.13	10.00	9.57	5.77		2.40	2.10	1.60		
3.	3.83	5.63	11.30	9.57	9.57	5.57		2.40	2.00	1.60		
4.	3.56	6.56	11.30	9.90	9.17	5.37		2.40	2.00	1.60		
5.	3.36	6.03	10.77	9.40	8.77	5.07		2.40	2.00	1.60		
6.	3.20	7.80	11.27	9.13	8.63	5.53		2.30	2.00	1.60		
7.	3.20	6.63	9.27	8.70	8.50	4.67		2.30	2.00	1.50		
8.	3.10	5.66	9.93	8.27	8.37	4.47		2.30	2.00	1.50		
9.	3.23	5.36	11.43	7.87	8.30	4.37		2.30	1.90	1.60		
10.	5.36	5.20	10.30	7.63	8.07	4.20		2.30	1.90	1.60		
Mean.	3.77	5.98	10.71	9.04	8.89	5.10		2.35	2.00	1.58		
11.	3.86	5.10	8.67	7.47	8.00	4.10		2.30	1.90	1.60		
12.	3.90	5.53	8.17	7.40	7.90	4.00		2.30	1.90	1.60		
13.	4.10	5.43	8.27	7.40	7.80	3.90		2.30	1.90	1.60		
14.	3.56	7.66	7.70	7.70	7.80	3.80		2.20	1.90	1.60		
15.	5.23	8.10	9.53	8.27	7.90	3.70		2.20	1.90	1.60		
16.	5.46	6.63	9.13	7.90	7.77	3.60		2.20	1.80	1.60		
17.	10.26	6.53	8.40	8.40	7.50	3.60		2.20	1.80	1.70		
18.	10.06	9.50	8.37	8.03	7.40	3.50		2.27	1.80	1.70		
19.	8.10	7.70	7.90	7.83	7.30	3.50		2.30	1.80	1.70		
20.	6.10	6.90	7.27	10.13	7.20	3.50		2.30	1.70	1.60		
Mean.	6.06	6.91	8.34	8.05	7.65	3.72		2.26	1.84	1.63		
21.	5.63	6.40	7.20	10.03	7.17	3.40		2.30	1.70	1.60		
22.	5.23	6.01	8.47	8.30	7.10	3.40		2.20	1.70	1.60		
23.	4.96	7.40	9.93	8.30	6.97	3.40		2.20	1.60	1.60		
24.	4.60	7.63	8.17	7.93	6.90	3.30		2.20	1.60	1.60		
25.	4.40	8.36	7.73	7.93	6.80	3.30		2.20	1.60	1.50		
26.	4.30	8.93	9.70	8.07	6.70	3.20		2.20	1.60	1.50		
27.	4.30	8.56	9.13	8.20	6.60	3.20		2.20	1.60	1.50		
28.	4.16	9.10	8.83	8.27	6.50	3.20		2.20	1.60	1.60		
29.	4.03		8.50	9.87	6.40	3.20		2.10	1.60	1.53		
30.	4.16		9.77	9.63	6.27	3.20		2.10	1.60	1.50		
31.	5.73		11.00		6.10			2.10		1.40		
Mean.	4.68	7.79	8.95	8.65	6.68	3.28		2.18	1.62	1.54		
Monthly												
Mean.	4.83	6.83	9.32	8.58	7.71	4.03		2.26	1.82	1.58		
Max.	10.26	9.50	12.20	11.10	10.00	6.00		2.40	2.10	1.70		
Date.	17	18	3	21	1	1		5	2	19		
Min.	3.10	5.20	7.00	7.40	6.10	3.20		2.10	1.60	1.40		
Date.	8	10	21	13	31	30		31	30	31		

RIVER : RUFUJI  
 STATION : MTANZA  
 NO : IK.2  
 YEAR : 1956

GROUND WATER LEVELS (WELL No.1) TRANSFERRED TO RIVER GAUGE HEIGHTS

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-0.45	8.65	8.05	6.45	9.75	8.15	6.95	5.95	4.65	3.75	2.55	1.15
2.	-0.45	8.35	7.75	6.95	9.55	8.15	6.95	5.95	4.65	3.65	2.45	1.15
3.	-0.45	8.25	7.75	9.05	9.45	8.05	6.85	5.95	4.65	3.65	2.45	1.05
4.	-0.55	8.45	8.45	9.25	9.45	7.95	6.85	5.85	4.55	3.65	2.35	1.05
5.	-0.35	8.25	8.25	9.85	9.35	7.95	6.75	5.85	4.55	3.65	2.35	0.95
6.	-0.35	7.95	8.05	10.75	9.25	7.85	6.75	5.85	4.45	3.55	2.25	0.95
7.	-0.35	7.05	7.85	11.45	9.15	7.85	6.75	5.85	4.45	3.55	2.25	0.85
8.	-0.25	7.15	7.75	12.35	8.95	7.75	6.65	5.75	4.45	3.55	2.15	0.85
9.	-0.25	7.15	7.55	11.85	8.95	7.75	6.65	5.75	4.35	3.45	2.15	0.75
10.	-0.25	7.15	7.55	11.45	8.95	7.65	6.65	5.75	4.35	3.45	2.05	0.75
Mean	-0.37	7.84	7.90	9.94	9.28	7.91	6.78	5.85	4.51	3.59	2.30	0.95
11.	-0.25	7.15	7.55	11.05	8.85	7.55	6.65	5.75	4.35	3.45	2.05	0.65
12.	-0.35	7.15	7.55	10.85	8.95	7.55	6.55	5.65	4.35	3.35	1.95	0.65
13.	-0.35	7.05	7.55	10.75	8.95	7.55	6.55	5.65	4.25	3.35	1.95	0.65
14.	-0.35	8.75	7.55	9.95	8.85	7.55	6.55	5.65	4.25	3.35	1.85	0.55
15.	-0.35	8.55	7.55	9.85	8.85	7.55	6.55	5.55	4.15	3.25	1.85	0.55
16.	-0.35	8.55	7.55	9.75	8.85	7.45	6.45	5.55	4.15	3.25	1.75	0.45
17.	-0.35	8.55	7.55	9.45	8.85	7.45	6.45	5.55	4.15	3.25	1.75	0.45
18.	-0.35	7.95	7.55	9.35	8.75	7.45	6.45	5.45	4.15	3.25	1.75	0.35
19.	-0.35	7.85	7.35	9.25	8.65	7.45	6.35	5.45	4.15	3.15	1.65	0.35
20.	-0.45	7.35	7.25	9.85	8.65	7.35	6.35	5.35	4.15	3.15	1.65	0.35
Mean	-0.35	7.89	7.50	10.01	8.82	7.49	6.49	5.56	4.21	3.28	1.82	0.50
21.	-0.45	7.25	7.05	10.05	8.65	7.35	6.25	5.15	4.05	3.15	1.55	0.35
22.	-0.45	9.35	7.05	10.35	8.65	7.35	6.25	5.05	4.05	3.05	1.55	0.25
23.	-0.35	9.25	6.95	10.35	8.55	7.25	6.25	4.95	4.05	3.05	1.45	0.25
24.	-0.35	9.35	6.85	11.15	8.55	7.25	6.15	4.95	3.95	3.05	1.45	0.25
25.	-0.35	8.55	6.85	12.55	8.55	7.25	6.15	4.85	3.95	2.95	1.35	0.25
26.	8.75	8.35	6.85	12.25	8.45	7.15	6.15	4.85	3.95	2.95	1.35	0.15
27.	9.05	8.35	6.85	11.45	8.45	7.15	6.15	4.85	3.95	2.95	1.25	0.15
28.	7.95	8.35	6.65	10.95	8.45	7.05	6.05	4.75	3.85	2.75	1.25	0.05
29.	9.35	8.15	6.65	10.75	8.35	7.05	6.05	4.75	3.85	2.75	1.25	0.05
30.	9.55		6.45	10.65	8.35	7.05	6.05	4.75	3.75	2.75	1.25	-0.05
31.	8.15		6.45		8.25		6.05	4.65		2.65		-0.05
Mean	4.62	8.56	6.79	11.05	8.48	7.19	6.14	4.87	3.94	2.91	1.37	0.15
Monthly Mean	1.41	8.08	7.38	10.33	8.85	7.53	6.46	5.47	4.22	3.25	1.83	0.52
Max.	9.55	9.35	8.45	12.55	9.75	8.15	6.95	5.95	4.65	3.75	2.55	1.15
Date	30	22/24	4	25	1	1-2	1-2	1-3	1-3	1	1	1-2
Min.	-0.55	7.05	6.45	6.45	8.25	7.05	6.05	4.65	3.75	2.65	1.25	-0.05
Date	4	7/13	30-31	1	31	28-30	28-31	31	30	31	27-30	30-31

RIVER: RUFJI  
 STATION : MTANZA  
 STATION NO: IK.2  
 YEAR: 1951

## Ground Water Levels (well No.1)

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-0.05	0.25	-0.65	0.05	8.75	8.15	6.25	5.25	4.25	2.95	2.15	2.65
2.	-0.15	0.25	-0.65	0.25	8.75	8.15	6.25	5.25	4.25	2.95	2.15	2.55
3.	-0.15	0.15	-0.65	0.25	8.95	7.95	6.25	5.15	4.15	2.95	2.15	2.55
4.	-0.25	0.15	-0.65	0.15	9.15	7.85	6.25	5.15	4.15	2.85	2.15	2.55
5.	-0.25	0.25	-0.65	0.15	9.25	7.75	6.25	5.15	4.05	2.85	2.05	2.45
6.	-0.35	0.25	-0.55	0.15	9.45	7.65	6.15	5.05	4.05	2.75	2.05	2.45
7.	-0.35	0.45	-0.55	0.05	9.65	7.45	6.15	5.05	4.05	2.75	1.95	2.55
8.	-0.45	0.55	-0.55	0.15	9.65	7.35	6.15	5.05	3.95	2.75	1.95	2.55
9.	-0.45	0.55	-0.65	0.05	9.85	7.35	6.15	4.95	3.95	2.65	1.85	2.55
10.	-0.55	0.45	-0.65	0.05	9.85	7.25	6.05	4.95	3.95	2.65	1.85	2.65
Mean.	-0.30	0.33	-0.62	0.13	9.33	7.69	6.19	5.10	4.08	2.81	2.03	2.55
11.	-0.55	0.95	-0.65	0.25	9.65	7.15	6.05	4.95	3.85	2.65	1.75	2.75
12.	-0.65	0.05	-0.65	0.25	9.65	7.15	6.05	4.95	3.85	2.55	1.75	2.85
13.	0.15	0.15	-0.65	0.45	9.55	7.05	5.95	4.85	3.75	2.55	1.65	2.85
14.	0.15	0.15	-0.05	0.45	9.45	7.05	5.95	4.85	3.75	2.55	1.65	2.75
15.	0.05	0.05	-0.05	0.55	9.25	6.95	5.95	4.85	3.75	2.45	1.65	2.75
16.	0.05	-0.05	-0.05	0.55	9.15	6.95	5.85	4.85	3.65	2.45	1.55	2.65
17.	0.05	-0.15	-0.05	0.85	9.15	6.95	5.85	4.85	3.65	2.45	1.55	2.85
18.	0.25	-0.25	0.05	1.05	9.05	6.85	5.85	4.75	3.65	2.45	1.55	2.95
19.	0.25	-0.25	0.05	1.65	9.05	6.85	5.85	4.75	3.55	2.45	1.65	2.95
20.	0.15	-0.35	0.05	9.55	8.95	6.75	5.85	4.75	3.55	2.45	1.75	2.75
Mean.	-0.01	0.03	-0.20	1.56	9.29	6.97	5.92	4.84	3.70	2.50	1.65	2.81
21.	0.15	-0.45	0.15	10.25	8.95	6.75	5.85	4.65	3.45	2.35	1.85	2.75
22.	0.05	-0.45	0.15	10.25	8.85	6.65	5.75	4.65	3.45	2.35	2.15	2.65
23.	0.05	-0.55	-0.05	10.25	8.85	6.65	5.75	4.65	3.35	2.35	2.25	2.45
24.	-0.05	-0.55	-0.05	9.55	8.75	6.55	5.65	4.55	3.35	2.35	2.25	2.25
25.	-0.05	-0.65	-0.15	9.15	8.65	6.55	5.65	4.55	3.25	2.35	2.45	2.25
26.	-0.05	-0.65	0.05	9.05	8.55	6.55	5.55	4.55	3.25	2.25	2.45	2.15
27.	0.05	-0.75	0.05	8.95	8.55	6.45	5.55	4.55	3.15	2.25	2.55	2.05
28.	0.15	-0.75	0.05	8.95	8.45	6.45	5.45	4.45	3.15	2.25	2.55	2.05
29.	0.15		0.15	8.85	8.45	6.35	5.45	4.35	3.05	2.25	2.45	1.85
30.	0.15		0.15	8.85	8.35	6.35	5.35	4.35	3.05	2.25	2.65	1.65
31.	0.25		0.15		8.35		5.35	4.35		2.15		1.55
Mean.	0.33	-0.60	0.00	9.41	8.61	6.53	5.58	4.50	3.25	2.29	2.36	2.15
Monthly												
Mean.	-0.09	-0.04	-0.26	3.70	9.06	7.06	5.89	4.81	3.68	2.52	2.01	2.49
Max.	0.25	0.55	0.15	10.25	9.85	8.15	6.25	5.25	4.25	2.95	2.65	2.95
Date.	18.19 31	8-9	21.22 29.31	21-23	9.10	1-2	1-5	1-2	1-2	1-3	30	18-19
Min.	-0.65	-0.75	-0.65	0.05	8.35	6.35	5.35	4.35	3.05	2.15	1.55	1.55
Date.	12.	27-28	1-5 9.13	1	31	29-30	30-31	29-30	29-30	31	16-18	31

RIVER : RUFUJI  
 STATION : MTANZA  
 NO : K.L.2  
 YEAR : 1956

GROUND WATER LEVELS (WELL NO.2) TRANSFERRED TO RIVER GAUGE HEIGHTS

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.6	11.3	10.1	9.3	12.4	10.3	7.1	5.0	3.9	3.2		
2.	1.6	11.0	10.0	9.6	12.3	10.1	6.8	4.9	3.9	3.2		
3.	1.6	10.4	10.0	10.2	12.0	10.1	6.8	4.9	3.8	3.2		
4.	1.6	11.0	10.0	10.6	11.8	10.0	6.7	4.8	3.8	3.1		
5.	2.5	10.7	9.9	12.7	11.7	9.9	6.5	4.8	3.8	3.1		
6.	2.8	10.6	9.8	13.6	11.4	9.8	6.4	4.7	3.7	3.0		
7.	2.6	10.1	9.7	14.0	11.3	9.8	6.4	4.7	3.7	3.0		
8.	3.0	10.6	9.6	15.7	11.1	9.7	6.3	4.6	3.7	3.0		
9.	3.0	10.4	9.5	14.2	11.1	9.6	6.3	4.6	3.6	3.0		
10.	3.7	10.2	9.3	13.8	11.1	9.5	6.2	4.5	3.6	3.0		
Mean	2.40	10.63	9.79	12.37	11.62	9.88	6.55	4.75	3.75	3.08		
11.	3.8	9.8	9.3	13.7	11.0	9.5	6.2	4.5	3.6			
12.	3.9	9.7	9.3	12.6	11.1	9.3	6.1	4.5	3.6			
13.	3.9	9.7	9.2	12.4	11.1	9.1	6.1	4.4	3.5			
14.	3.9	12.2	9.2	11.9	11.0	9.0	6.0	4.4	3.5			
15.	3.8	11.1	9.2	11.8	11.0	9.0	6.0	4.4	3.5			
16.	4.0	11.0	9.2	11.8	10.9	8.8	5.8	4.3	3.5			
17.	4.0	10.2	9.2	11.6	10.9	8.7	5.8	4.3	3.5			
18.	4.3	9.2	9.2	11.5	10.9	8.6	5.7	4.2	3.5			
19.	4.3	8.9	9.1	11.5	10.8	8.5	5.7	4.2	3.4			
20.	4.5	8.9	9.1	11.9	10.8	8.3	5.6	4.2	3.4			
Mean	4.04	10.07	9.20	12.07	10.95	8.88	5.90	4.34	3.50			
21.	4.9	8.9	9.0	12.4	10.8	8.2	5.5	4.1	3.4			
22.	5.2	12.0	9.0	12.8	10.8	8.1	5.5	4.1	3.4			
23.	5.3	11.6	9.0	12.8	10.7	7.8	5.4	4.1	3.4			
24.	5.4	11.3	9.0	13.6	10.6	7.7	5.4	4.1	3.4			
25.	5.8	11.0	8.9	15.8	10.6	7.7	5.3	4.0	3.3			
26.	12.0	10.8	8.9	15.5	10.6	7.6	5.3	4.0	3.3			
27.	11.7	10.5	8.8	13.8	10.6	7.6	5.2	4.0	3.3	Well dry		
28.	11.1	10.3	8.7	13.1	10.6	7.4	5.2	4.0	3.3	Well dry		
29.	11.9	10.3	8.7	12.9	10.5	7.3	5.1	3.9	3.2	Well dry		
30.	11.4		8.7	12.8	10.4	7.2	5.1	3.9	3.2			
31	11.0		8.6		10.3		5.0	3.9				
Mean	8.70	10.72	8.85	13.55	10.59	6.89	5.27	4.01	3.32			
Monthly Mean	5.16	10.47	9.26	12.66	11.04	8.55	5.89	4.35	3.52			
Max.	12.0	12.2	10.1	15.8	12.4	10.3	7.1	5.0	3.9	3.2		
Date	26	14	1	25	1	1	1	1	1	1		
Min.	1.6	8.9	8.6	9.3	10.3	7.2	5.0	3.9	3.2			
Date	1-4	19-21	31	1	31	30	31	29-31	29-30			

RIVER : RUFJI  
STATION: MTANZA  
STATION NO. IK.2  
YEAR : 1957.

Ground water levels (well 2) transferred to river gauge height.

Date.	Jan.	Fbe.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		5.3	5.8	7.0	11.5	10.3	6.8	4.2	3.3			
2.	W	4.9	5.8	7.1	11.4	10.2	6.8	4.2	3.3			
3.	E	4.9	5.9	7.1	11.5	10.1	6.6	4.2	3.3	W	W	W
4.	L	5.0	5.9	7.2	12.1	10.0	6.6	4.1	3.3	L	L	L
5.		5.5	5.8	7.2	12.2	9.8	6.5	4.1	3.2	L	L	L
6.	D	5.8	5.8	7.2	12.3	9.8	6.3	4.1	3.2	D	D	D
7.	R	5.9	5.9	7.1	12.3	9.7	6.1	4.0	3.2	R	R	R
8.	Y	6.1	5.8	7.3	12.4	9.5	5.9	4.0	3.1	Y	Y	Y
9.		6.1	5.7	7.3	12.5	9.3	5.9	4.0	3.1			
10.		6.2	5.7	7.3	12.5	9.2	5.8	3.9	3.1			
Mean.		5.57	5.81	7.18	12.1	9.8	6.33	4.1	3.21			
11.		6.3	5.7	7.4	12.2	9.2	5.7	3.9	3.0			
12.		6.3	5.6	7.4	12.1	9.1	5.6	3.8	3.0			
13.		6.4	5.6	7.3	12.1	8.9	5.5	3.8	3.0			
14.		6.5	5.7	7.5	12.0	8.8	5.4	3.7	3.0			
15.		6.5	5.7	7.7	11.8	8.7	5.3	3.7	3.0			
16.	3.1	6.6	5.8	7.9	11.8	8.6	5.2	3.7	2.9			
17.	3.3	6.6	5.9	8.2	11.7	8.5	5.1	3.7	2.9			
18.	3.2	6.6	6.0	8.5	11.7	8.3	5.0	3.7	2.9			
19.	3.4	6.4	6.0	12.2	11.6	8.2	4.9	3.7	2.9			
20.	3.4	6.2	6.0	12.6	11.4	8.0	4.9	3.6	2.9			
Mean		6.44	5.8	8.7	11.84	8.63	5.3	3.73	3.0			
21.	3.3	6.1	6.1	12.8	11.3	3.0	4.8	3.6				
22.	3.3	6.1	6.3	12.8	11.3	7.9	4.8	3.6				
23.	3.4	5.9	6.4	12.8	11.2	7.8	4.7	3.6				
24.	3.4	5.9	6.4	12.2	11.1	7.6	4.7	3.5				
25.	3.4	5.9	6.5	11.8	11.0	7.5	4.6	3.5	W			
26.	3.4	5.8	6.5	11.5	10.9	7.3	4.5	3.5	E			
27.	3.5	5.8	6.5	11.4	10.7	7.2	4.5	3.4	L			
28.	3.6	5.8	6.4	11.2	10.6	7.2	4.4	3.4	L			
29.	3.6		6.6	11.2	10.5	7.1	4.4	3.4	D			
30.	3.7		6.6	11.2	10.4	6.9	4.3	3.3	R			
31.	3.8		6.6		10.4		4.3	3.3	Y			
Mean.	3.5	5.9	6.45	11.89	10.9	7.45	4.5	3.5				
Monthly Mean		5.98	6.03	9.25	11.6	8.6	5.37	3.75				
Max.	3.8	6.6	6.6	12.8	12.5	10.3	6.8	4.2	3.3			
Date.	31	16-18	29-31	21-23	9-10	1	1-2	1-3	1			
Min		4.9	5.6	7.0	10.4	6.9	4.3	3.3				
Date.		2-3	13-13	1	30-31	30	30-31	30-31				



RIVER : RUFUJI  
 STATION : MTANZA  
 NO : IK.2  
 YEAR : 1956

GROUND WATER LEVELS (WELL NO.3) TRANSFERRED TO RIVER GAUGE HEIGHTS

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
1.	-3.05	6.15	3.75	3.35	7.75	5.55	3.55	2.65	0.95	-0.25	-1.65	-1.25
2.	-3.05	5.05	3.35	5.05	7.65	5.45	3.55	2.55	0.95	-0.35	-1.65	-1.35
3.	-3.05	3.85	3.15	6.45	7.45	5.35	3.45	2.55	0.95	-0.35	-1.65	-1.35
4.	-3.05	5.45	3.15	6.55	7.35	5.35	3.45	2.45	0.85	-0.45	-1.75	-1.35
5.	-2.95	4.25	3.05	6.75	7.25	5.35	3.45	2.45	0.85	-0.45	-1.75	-1.45
6.	-2.95	3.95	3.05	8.95	6.95	5.25	3.45	2.35	0.75	-0.55	-1.75	-1.45
7.	-2.95	3.65	3.05	9.15	6.65	5.25	3.35	2.35	0.75	-0.55	-1.85	-1.45
8.	-2.95	3.55	3.05	11.55	6.55	5.25	3.35	2.25	0.65	-0.55	-1.85	-1.55
9.	-2.95	3.45	2.95	9.55	6.45	5.25	3.35	2.25	0.65	-0.65	-1.85	-1.55
10.	-2.95	2.05	2.85	9.35	6.45	5.15	3.25	2.15	0.55	-0.65	-1.95	-1.55
Mean	-2.99	4.14	3.14	7.67	7.05	5.32	3.42	2.40	0.79	-0.48	-1.77	-1.43
11.	-2.95	2.05	3.15	8.85	6.35	4.95	3.25	2.15	0.55	-0.65	-1.95	-1.65
12.	-2.95	2.05	3.05	8.55	6.45	4.75	3.25	2.15	0.45	-0.75	-2.05	-1.65
13.	-2.85	2.05	3.05	8.15	6.45	4.65	3.15	2.05	0.45	-0.75	-2.05	-1.65
14.	-2.85	2.75	3.05	7.95	6.35	4.55	3.15	2.05	0.35	-0.75	-2.15	-1.75
15.	-2.85	5.55	3.05	7.85	6.35	4.55	3.15	2.05	0.35	-0.85	-2.15	-1.75
16.	-2.85	5.45	3.05	7.65	6.35	4.45	3.15	1.95	0.25	-0.95	-2.15	-1.85
17.	-2.55	4.95	3.05	7.15	6.35	4.45	3.05	1.95	0.25	-0.95	-2.15	-1.85
18.	-2.45	3.35	3.05	7.05	6.35	4.35	3.05	1.85	0.25	-1.05	-2.25	-1.95
19.	-2.45	3.15	2.65	7.05	6.25	4.35	3.05	1.85	0.15	-1.05	-2.25	-1.95
20.	+0.95	3.15	2.55	7.55	6.15	4.25	2.95	1.75	0.15	-1.15	-2.25	-1.95
Mean	-2.38	3.36	2.97	7.78	6.34	4.53	3.12	1.98	0.32	-0.89	-2.14	-1.80
21.	-0.55	3.15	2.45	7.95	6.15	4.25	2.95	1.55	0.15	-1.15	-2.35	-2.05
22.	-1.15	6.25	2.35	8.15	6.15	4.15	2.95	1.55	0.15	-1.25	-2.35	-2.05
23.	-1.65	6.25	2.25	8.15	5.95	4.05	2.95	1.45	0.15	-1.25	-2.35	-2.05
24.	-1.95	6.15	2.25	8.95	5.95	4.05	2.85	1.35	0.05	-1.35	-2.45	-2.15
25.	-2.15	5.45	2.25	11.65	5.95	3.95	2.85	1.35	0.05	-1.35	-2.45	-2.15
26.	5.25	5.15	2.25	11.35	5.95	3.95	2.85	1.25	-0.05	-1.45	-2.45	-2.25
27.	6.75	4.65	2.15	9.25	5.95	3.85	2.75	1.25	-0.05	-1.45	-2.55	-2.25
28.	4.25	4.55	2.05	8.55	5.95	3.75	2.75	1.15	-0.15	-1.45	-2.55	-2.35
29.	6.35	3.85	2.05	8.45	5.85	3.65	2.75	1.15	-0.15	-1.55	-2.55	-2.35
30.	5.65		2.05	8.35	5.85	3.65	2.65	1.05	-0.25	-1.55	-2.65	-2.75
31.	4.35		2.05		5.65		2.65	1.05		-1.55		-2.75
Mean	+2.29	5.05	2.19	9.08	5.94	3.93	2.81	1.29	-0.01	-1.39	-2.47	-2.29
Monthly Mean	-0.92	4.15	2.75	8.18	6.43	4.59	3.17	1.87	0.37	-0.93	-2.13	-1.35
Max.	6.75	6.25	3.75	11.65	7.75	5.55	3.55	2.65	0.95	-0.25	-1.65	-1.25
Date	27	22-23	1	25	1	1	1-2	1	1-3	1	1-3	1
Min.	-3.05	2.05	2.05	3.35	5.65	3.65	2.65	1.05	-0.25	-1.55	-2.65	-2.75
Date	1-4	10-13	28-31	1	31	29-30	30-31	30-31	30	29-31	30	30-31

RIVER: RUFUJI  
STATION : MTANZA  
STATION NO: IK.2  
YEAR: 1957.

Ground Water Levels (Well No.3) transferred to river gauge height.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-2.95	-2.05	-0.65	-2.55	6.55	5.65	2.55	0.75	-0.95	-2.25	-2.85	-1.05
2.	-2.95	-0.85	-0.65	-2.55	6.45	5.55	2.55	0.75	-1.05	-2.35	-2.85	-1.15
3.	-3.05	-0.85	-0.75	-2.65	6.65	5.35	2.45	0.65	-1.05	-2.35	-2.95	-1.15
4.	-3.15	-0.75	-0.75	-2.65	6.85	5.15	2.45	0.65	-1.05	-2.35	-2.85	-1.25
5.	-3.25	-0.25	-0.75	-2.65	7.15	5.15	2.35	0.55	-1.15	-2.45	-2.75	-1.35
6.	-3.25	-0.05	-0.65	-2.65	7.45	4.95	2.35	0.55	-1.15	-2.45	-2.75	-1.35
7.	-2.45	0.05	-0.65	-2.65	7.75	4.75	2.25	0.45	-1.25	-2.45	-2.85	-1.25
9.	-2.55	0.15	-0.75	-2.55	7.95	4.45	2.15	0.25	-1.35	-2.55	-2.95	-1.35
10.	-2.55	0.15	-0.75	-2.55	7.95	4.15	2.05	0.25	-1.35	-2.55	-2.95	-1.35
Mean.	-2.86	0.15	-0.85	-2.45	7.55	3.95	2.05	0.15	-1.45	-2.55	-3.05	-1.26
11.	-2.65	0.15	-0.85	-2.45	7.55	3.95	2.05	0.15	-1.45	-2.55	-3.05	-2.05
12.	-2.65	0.05	-0.85	-2.25	7.55	3.75	1.95	0.15	-1.45	-2.65	-3.05	-0.05
13.	-2.65	0.05	-0.95	-2.25	7.45	3.65	1.95	0.15	-1.55	-2.65	-3.05	-0.05
14.	-2.55	-0.05	-0.95	-2.25	7.35	3.55	1.95	0.05	-1.55	-2.65	-3.15	-0.15
15.	-2.55	-0.05	-1.05	-2.05	6.95	3.55	1.85	0.05	-1.65	-2.75	-3.05	-0.25
16.	-2.55	-0.15	-1.15	-1.95	6.75	3.45	1.75	-0.05	-1.65	-2.75	-3.15	-0.35
17.	-2.55	-0.15	-1.25	-1.85	6.65	3.45	1.65	-0.15	-1.75	-2.75	-3.15	-0.05
18.	-2.55	-0.15	-1.15	6.15	6.65	3.35	1.55	-0.15	-1.75	-2.75	-3.15	0.15
19.	-2.65	-0.25	-1.15	6.65	6.55	3.85	1.45	-0.25	-1.85	-2.75	-3.05	0.05
20.	-2.65	-0.25	-1.05	8.15	6.45	3.25	1.35	-0.25	-1.85	-2.85	-3.05	-0.15
Mean.	-2.60	-0.08	-1.04	0.59	6.99	3.53	1.75	-0.03	-1.65	-2.71	-3.09	-0.11
21.	-2.65	-0.35	-1.05	8.85	6.35	3.25	1.35	-0.35	-1.95	-2.85	-2.95	-0.15
22.	-2.75	-0.35	-1.05	9.05	6.35	3.15	1.25	-0.35	-1.95	-2.85	-2.55	-0.25
23.	-2.75	-0.45	-1.15	9.05	6.25	3.15	1.25	-0.45	-2.05	-2.85	-2.25	-0.45
24.	-2.75	-0.45	-2.25	8.65	6.15	3.05	1.15	-0.45	-2.05	-2.95	-1.95	-0.45
25.	-2.55	-0.55	-2.25	8.15	6.15	2.95	1.15	-0.55	-1.95	-2.95	-1.65	-0.65
26.	-2.55	-0.55	-2.15	7.25	5.95	2.85	1.05	-0.65	-2.05	-2.95	-1.35	-0.65
27.	-2.35	-0.65	-2.15	7.05	5.95	2.85	1.05	-0.65	-2.05	-2.95	-1.25	-0.75
28.	-2.25	-0.65	-2.15	6.95	5.95	2.75	0.95	-0.75	-2.15	-3.05	-1.25	-0.85
29.	-2.25		-2.25	6.95	5.85	2.65	0.95	-0.75	-2.15	-3.05	-1.35	-0.95
30.	-2.25		-2.45	6.75	5.85	2.65	0.85	-0.85	-2.25	-2.85	-1.05	-1.05
31.	-2.05		-2.45		5.85		0.85	-0.85		-2.85		-1.05
Mean.	-2.47	-0.50	-1.94	7.87	6.06	2.93	1.08	-0.60	-2.06	-2.93	-1.76	-0.66
Monthly												
Mean.	-2.64	-0.33	-1.25	1.95	6.75	3.81	1.70	-0.06	-1.62	-2.69	-2.57	-0.68
Max.	-2.05	0.15	-0.65	9.05	7.95	5.65	2.55	0.75	-0.95	-2.25	-1.15	-0.05
Date.	31	9-11	1.2.6 8	22-23	9-10	1	1	1-2	1	1	30	12.13 17.
Min.	-3.25	-2.05	-2.45	-2.55	5.85	2.65	0.85	-0.85	-2.25	-3.05	-3.15	-1.35
Date.	5.6	1	30.31	1	31	29-30	30-31	30.31	30	28.29	16.18	5.6 8.10



RIVER: RUFUJI  
 STATION: STINGLERS GORGE  
 STATION NO: IK.3  
 YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.61	6.87	15.45	15.99	18.27	15.14	8.87	5.25	3.61	2.63	1.60	1.10
2.	0.53	6.16	17.20	18.30	19.30	14.85	8.70	5.20	3.57	2.60	1.55	1.08
3.	0.49	6.99	18.30	16.86	19.52	14.55	8.56	5.15	3.51	2.58	1.55	1.05
4.	0.48	7.00	15.72	17.10	19.52	14.31	8.38	5.10	3.47	2.58	1.63	1.03
5.	0.48	7.00	15.90	17.48	19.85	13.90	8.25	5.05	3.41	2.55	2.09	0.98
6.	0.45	10.80	15.25	16.67	20.60	13.55	8.11	5.01	3.38	2.53	1.74	0.95
7.	0.40	7.10	14.86	15.81	21.40	13.27	8.03	4.90	3.34	2.50	1.75	0.93
8.	0.30	8.51	14.79	16.78	23.09	13.00	7.76	4.87	3.31	2.50	1.70	0.90
9.	0.28	5.65	13.29	19.07	21.54	12.72	7.57	4.84	3.30	2.43	1.70	0.88
10.	0.24	8.30	12.55	17.17	20.65	12.43	7.43	4.82	3.25	2.38	1.60	0.85
Mean.	0.43	7.44	15.33	17.12	20.37	13.77	8.17	5.02	3.41	2.53	1.69	0.97
11.	0.17	12.55	11.70	17.10	20.22	12.20	7.26	4.81	3.21	2.35	1.58	0.83
12.	0.37	12.35	11.00	16.07	19.66	11.94	7.14	4.80	3.18	2.30	1.53	0.80
13.	0.21	12.77	10.56	17.35	19.29	11.72	7.04	4.78	3.15	2.28	1.50	0.80
14.	0.16	15.40	11.12	17.39	18.75	11.52	6.92	4.70	3.14	2.23	1.48	0.90
15.	0.26	12.30	10.77	19.29	18.57	11.47	6.79	4.64	3.10	2.20	1.43	1.20
16.	0.38	10.55	11.03	21.11	18.12	11.50	6.70	4.60	3.08	2.15	1.40	1.45
17.	0.37	12.52	11.17	21.33	17.78	11.50	6.56	4.52	3.01	2.13	1.40	4.59
18.	0.43	16.40	11.09	20.52	17.57	11.32	6.40	4.42	2.99	2.10	1.30	4.22
19.	0.84	14.76	10.67	19.49	17.40	11.14	6.31	4.40	2.95	2.04	1.30	2.51
20.	1.66	16.45	10.81	18.34	17.08	11.07	6.22	4.31	2.93	2.00	1.30	3.60
Mean.	0.48	13.60	11.00	18.80	18.44	11.54	6.73	4.60	3.07	2.18	1.42	2.09
21.	1.24	15.15	11.66	17.90	16.47	10.76	6.12	4.24	2.90	1.95	1.30	4.75
22.	1.48	13.45	11.02	19.30	16.40	10.55	6.04	4.20	2.88	1.90	1.28	3.85
23.	1.55	13.30	11.27	18.71	16.39	10.39	5.96	4.12	2.85	1.88	1.28	3.27
24.	1.54	15.60	10.73	18.47	16.41	10.18	5.86	4.01	2.83	1.83	1.19	3.17
25.	1.67	13.75	10.57	17.74	16.07	9.95	5.77	3.99	2.80	1.80	1.19	2.98
26.	1.59	13.10	10.68	17.50	16.07	9.74	5.69	3.92	2.78	1.80	1.26	2.89
27.	3.50	12.70	11.45	17.30	16.20	9.55	5.61	3.87	2.75	1.75	1.20	3.03
28.	2.32	13.35	12.27	17.31	15.96	9.29	5.52	3.83	2.73	1.73	1.20	2.95
29.	2.30		11.30	17.63	15.99	9.17	5.43	3.80	2.70	1.70	1.18	3.10
30.	3.10		12.75	17.89	15.87	9.02	5.34	3.76	2.65	1.65	1.15	3.59
31.	4.70		15.98		15.40		5.28	3.70		1.63		4.05
Mean.	2.27	13.80	11.79	17.97	16.11	9.86	5.69	3.95	2.79	1.78	1.22	3.42
Monthly												
Mean.	1.10	11.46	12.64	17.96	18.24	11.72	6.83	4.50	3.09	2.15	1.45	2.20
Max.	6.00	17.90	19.00	22.20	25.20	15.20	8.93	5.25	3.58	2.63	2.10	5.18
Date.	27	14	2	17	8	1	1	1	1	1	5	17
Min.	0.15	5.60	10.35	15.10	15.20	8.95	5.25	3.70	2.65	1.63	1.15	0.80
Date.	14	9	20	1	31	30	30	31	30	31	30	13

RIVER: RUFUJI  
 STATION: STIEGLER'S GORGE  
 STATION NO: IK.3  
 YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.15	19.30	18.39	21.94	21.39	13.02	x5.44	2.40	0.88	-0.27	-1.10	-1.80
2.	3.50	28.94	17.50	21.72	20.31	12.61	5.30	2.35	0.78	-0.30	-1.10	-1.90
3.	6.85	20.82	17.69	22.10	19.67	12.50	5.20	2.30	0.78	-0.32	-1.10	-1.90
4.	7.78	18.86	17.63	29.94	19.10	12.16	5.08	2.25	0.63	-0.35	-1.10	-1.90
5.	5.83	22.48	16.81	27.55	18.71	11.92	5.00	2.20	0.61	-0.38x	-1.10	-1.90
6.	5.47	17.82	16.22	28.67	18.49	11.62	(4.85)	2.15	0.55	(-0.40	-1.20	-1.90
7.	7.85	17.10	16.15	30.56	18.28	11.24	(4.70)	2.15	0.50	-0.50	-1.20	-1.80
8.	8.67	21.28	16.42	25.30	18.21	10.90	(4.55)	2.10	0.45	-0.50	-1.20	-1.70
9.	12.15	17.26	16.20	23.77	18.16	10.49	4.40	2.00	0.43	-0.50	-1.20	-1.60
10.	10.12	17.02	16.17	23.64	17.94	10.24	4.30	1.98	0.40	-0.50	-1.30	-1.50
Mean.	7.25	19.49	16.92	25.52	19.03	11.67	4.88	2.19	0.60	-0.40	-1.16.	-1.79
11.	9.35	18.00	16.40	22.94	17.85	9.98	4.20	1.90	0.38	-0.60	-1.30	-1.40)
12.	9.40	17.98	16.18	22.59	18.35	9.68	4.10	1.84	0.35	-0.60	-1.30	-1.30
13.	7.89	25.73	17.73	21.36	18.29	9.40	3.99	1.80	0.33	-0.60	-1.30	-1.20
14.	9.20	20.48	18.64	20.72	17.81	9.08	3.90	1.74	0.30	-0.70	-1.30	(-1.10)
15.	x 7.83	17.54	18.14	21.07	17.51	8.74	3.70	1.73	0.25	-0.70	-1.40	(-1.00)
16.	9.18	17.38	17.36	19.56	17.31	8.53	3.60	1.70	0.23	-0.70	-1.40	-0.90
17.	8.14	18.82	16.58	19.17	17.20	8.26	3.50	1.66	0.18	-0.70	-1.40	1.90
18.	11.94	21.80	16.06	20.70	17.12	7.94	3.41	1.60	0.10	-0.70	-1.50	0.25
19.	12.12	19.26	16.24	23.97	16.91	7.68	3.30	1.54	0.08	-0.80	-1.50	-0.55
20.	19.58	20.04	16.09	25.69	16.88	7.44	3.27	1.50	0.03	-0.80	-1.50)	-0.85
Mean.	10.46	19.70	16.94	21.78	17.52	8.68	3.70	1.70	0.22	-0.69	-1.39	-0.62
21.	19.60	25.34	16.84	23.36	16.57	7.16	3.20	1.48	0.00	-0.80	-1.50	-1.00
22.	15.94	22.90	17.42	22.57	16.17	6.96	3.10	1.35	-0.05	-0.80	-1.60	-1.05
23.	15.04	21.38	16.80	29.70	15.76	6.70	3.00	1.35	-0.07	-0.90	(-1.60	-1.20
24.	20.36	19.96	16.56	32.67	15.55	6.50	2.90	1.33	-0.12	-0.90	-1.70	-1.20
25.	24.72	18.64	16.75	26.34	15.45	6.32	2.80	1.30	-0.12	-0.90	-1.70	-1.30
26.	22.12	17.46	16.32	23.84	15.16	6.20	2.72	1.20	-0.15	-0.90	-1.70	-1.30
27.	19.94	17.72	15.72	22.01	14.82	6.00	2.60	1.10	-0.17	-1.00	-1.70	-1.25
28.	24.74	17.10	15.46	22.11	14.47	5.87	2.60	1.08	-0.20	-1.00	-1.80	-1.05
29.	21.48	19.42	18.09	22.11	14.11	5.70	2.60	1.00	-0.22	-1.00	-1.80	1.43
30.	19.22		20.09	22.80	13.75	5.60	2.50	0.95	-0.25	-1.00	-1.80	-0.52
31.	23.72x		20.50		13.40		2.45	0.90		-1.00		-0.65
Mean.	20.63	19.99	17.32	24.75	15.03	6.30	2.77	1.19	-0.14	-0.93	-1.69	-0.83
Monthly												
Mean.	13.03	17.72	17.07	24.02	17.12	8.88	3.75	1.68	0.73	-0.68	-1.41	-1.07
Figures marked x thus are from correspondence with the u/s gauge, figures in brackets are interpolated.												
Max.	24.90	26.60	21.20	34.70	21.39	13.10	5.48	2.40	0.83	-0.27	-1.10	2.20
Date.	25	21	31	24	1	1	1	1	1	1	5	17
Min.	3.35	16.50	15.10	19.00	13.20	5.60	2.45	0.90	-0.25	-1.00	-1.80	-1.90
Date.	2	10	28	17	31	30	31	31	30	31	30	6

RIVER: RUIJI  
 STATION: STIEGLER'S GORGE  
 STATION NO: IK.3  
 YEAR: 1957

Date.	Jan.	Feb.	Mch.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-0.8	9.20	6.08	13.75	17.53	12.60	4.45	2.00	0.52	-0.35	-1.43	-2.08
2.	-0.6	9.00	6.23	11.13	17.95	12.30	4.35	2.00	0.49	-0.33	-1.35	-2.10
3.	-0.6	7.90	6.37	10.38	18.45	12.00	4.25	1.95	0.46	-0.30	-1.30	-2.15
4.	-0.6	8.95	6.47	10.98	19.10	11.70	4.15	1.90	0.43	-0.38	-1.30	-2.20
5.	-0.4	13.65	6.23	10.05	20.25	11.45	4.05	1.85	0.40	-0.48	-1.40	-2.15
6.	0.1	8.70	6.33	10.35	20.45	11.15	3.95	1.78	0.37	-0.55	-1.48	-2.20
7.	0.2	8.38	6.30	10.22	20.35	10.88	3.85	1.75	0.34	-0.63	-1.53	-2.25
8.	0.1	7.65	6.11	10.05	21.20	10.55	3.75	1.75	0.31	-0.68	-1.55	-2.33
9.	0.6	7.60	6.00	10.65	20.75	10.10	3.60	1.75	0.28	-0.73	-1.60	-2.35
10.	0.6	10.00	5.94	10.60	20.05	9.80	3.50	1.70	0.25	-0.75	-1.60	-2.30
Mean	-0.1	9.10	6.21	10.82	19.61	11.25	3.99	1.84	0.39	-0.52	-1.45	-2.21
11.	1.4	9.03	5.84	10.53	19.70	9.50	3.40	1.70	0.22	-0.83	-1.65	-1.60
12.	1.4	9.60	5.70	10.62	19.30	9.25	3.33	1.63	0.19	-0.90	-1.65	-1.50
13.	3.3	10.90	5.59	13.10	18.95	8.93	3.25	1.55	0.16	-0.88	-1.68	-1.98
14.	3.1	9.15	6.29	14.55	18.60	8.58	3.15	1.50	0.13	-0.88	-1.70	-2.05
15.	5.2	8.35	6.46	13.85	18.30	8.15	3.05	1.45	0.10	-0.95	-1.65	-2.00
16.	4.2	7.35	6.04	18.25	18.10	7.93	3.00	1.40	0.07	-1.00	-1.75	-1.65
17.	3.2	7.00	6.06	16.85	17.85	7.65	2.88	1.35	0.04	-1.03	-1.75	1.45
18.	3.1	6.75	6.80	21.80	17.55	7.35	2.80	1.25	0.01	-1.05	-1.73	-0.60
19.	2.4	6.28	6.67	21.30	17.33	7.05	2.75	1.20	-0.20	-1.10	-1.73	-1.25
20.	2.1	6.50	8.00	21.05	17.28	6.75	2.65	1.15	-0.05	-1.13	-1.75	-0.85
Mean	2.9	8.09	6.35	16.20	18.30	8.11	3.03	1.42	0.09	-0.98	-1.70	-1.08
21.	2.7	6.92	9.30	20.30	16.92	6.55	2.60	1.10	-0.08	-1.18	-1.73	-0.98
22.	2.0	7.38	9.23	21.40	16.69	6.35	2.53	1.05	-0.11	-1.20	-1.70	-0.05
23.	1.7	6.74	8.39	19.65	16.15	6.05	2.50	0.98	-0.14	-1.25	-1.78	-0.15
24.	2.6	6.80	8.25	18.55	15.79	5.85	2.40	0.93	-0.17	-1.25	-1.83	-0.03
25.	2.0	6.47	7.40	18.40	15.40	5.65	2.35	0.85	-0.20	-1.30	-1.83	-0.08
26.	5.3	6.28	7.00	18.70	14.95	5.45	2.35	0.80	-0.23	-1.33	-1.83	-0.33
27.	3.4	6.19	7.70	18.30	14.50	5.25	2.28	0.75	-0.27	-1.35	-1.90	1.93
28.	2.8	6.13	11.25	17.40	14.05	5.05	2.20	0.70	-0.29	-1.40	-1.93	1.20
29.	4.3		10.65	17.65	13.67	4.85	2.15	0.68	-0.31	-1.43	-2.00	0.73
30.	5.5		9.48	17.35	13.35	4.70	2.10	0.63	-0.33	-1.45	-2.05	0.53
31.	13.0		10.75		12.99		2.05	0.55		-1.45		0.30
Mean	4.1	6.61	9.04	18.78	14.95	5.58	2.32	0.82	-0.21	-1.33	-1.86	0.28
Monthly Mean	2.4	7.30	7.26	15.26	17.53	8.31	3.09	1.34	0.08	-0.95	-1.65	-0.96
Max.	13.0	16.00	13.20	22.10	21.60	12.70	4.50	2.00	0.52	-0.30	-1.30	1.93
Date	31	5	28	18	8	1	1	2	1	3	4	27
Min.	-0.8	6.13	5.38	9.80	12.95	4.70	2.05	0.55	-0.33	-1.50	-2.05	-2.35
Date.	1	28	16	8	31	30	31	31	30	31	30	10

RIVER: RUFIJI  
STATION: STEIGLER'S GORGE  
STATION NO: IK.3  
YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.79	1.61	6.18	19.94	22.48	10.40	2.90	0.68	-0.43	-1.35	-2.30	-2.85
2.	5.97	1.26	6.22	21.56	21.22	10.00	2.78	0.62	-0.50	-1.38	-2.33	-2.85
3.	6.51	1.10	6.22	20.54	19.86	9.70	2.70	0.58	-0.52	-1.42	-2.35	-2.85
4.	3.76	0.75	6.68	19.62	19.08	9.40	2.63	0.52	-0.58	-1.50	-2.40	-2.90
5.	3.08	0.50	5.90	19.16	18.78	9.00	2.52	0.48	-0.60	-1.55	-2.40	-2.75
6.	2.50	0.44	6.20	18.34	18.32	8.60	2.48	0.42	-0.65	-1.63	-2.40	-2.85
7.	1.98	0.86	7.32	17.30	18.00	8.20	2.38	0.38	-0.70	-1.65	-2.40	-2.80
8.	2.11	1.62	8.62	16.50	17.24	7.80	2.27	0.35	-0.70	-1.65	-2.45	-2.75
9.	2.22	1.96	11.34	15.90	16.90	7.40	2.20	0.27	-0.73	-1.70	-2.45	-2.75
10.	2.03	3.74	9.50	15.60	16.44	7.10	2.13	0.23	-0.77	-1.70	-2.45	-2.75
Mean.	3.20	1.38	7.42	18.45	17.19	8.76	2.50	0.45	-0.62	-1.55	-2.39	-2.81
11.	1.43	5.86	10.84	15.45	15.98	6.70	2.07	0.15	-0.82	-1.75	-2.45	-2.75
12.	1.15	5.64	13.18	15.30	15.50	6.40	1.98	0.12	-0.88	-1.80	-2.50	-2.65
13.	1.10	4.92	10.70	15.20	15.20	6.10	1.92	0.08	-0.93	-1.80	-2.52	-2.65
14.	0.97	5.20	9.98	15.40	14.80	5.80	1.85	0.05	-0.95	-1.85	-2.58	-2.65
15.	0.90	7.66	9.70	15.26	14.50	5.55	1.78	0.00	-1.00	-1.85	-2.60	-2.65
16.	0.78	9.62	11.74	15.05	14.20	5.30	1.67	0.00	-1.00	-1.85	-2.60	-2.65
17.	0.70	7.94	12.92	15.14	13.84	5.05	1.65	-0.05	-1.00	-1.85	-2.65	-2.65
18.	0.55	10.94	13.96	15.90	13.60	4.85	1.58	0.00	-1.05	-1.90	-2.65	-1.33
19.	0.50	8.38	12.00	16.72	13.44	4.65	1.47	0.00	-1.05	-1.93	-2.65	4.45
20.	0.40	7.10	12.02	18.58	13.20	4.45	1.43	0.00	-1.10	-1.95	-2.70	4.25
Mean.	0.85	7.33	11.70	15.80	14.43	5.49	1.74	0.04	-0.98	-1.85	-2.59	-1.13
21.	0.35	6.30	11.26	16.72	13.00	4.25	1.35	-0.10	-1.10	-1.95	-2.70	5.33
22.	0.30	6.50	11.16	16.96	12.80	4.10	1.30	-0.10	-1.13	-1.95	-2.70	6.68
23.	0.30	7.72	12.86	18.06	12.70	3.95	1.22	-0.10	-1.15	-1.97	-2.70	5.65
24.	0.30	8.38	15.50	18.60	12.46	3.80	1.15	-0.15	-1.18	-2.00	-2.75	10.50
25.	0.26	7.18	16.86	21.26	12.30	3.60	1.08	-0.28	-1.20	-2.05	-2.75	5.15
26.	0.18	7.16	15.48	20.66	12.00	3.45	1.00	-0.35	-1.20	-2.10	-2.75	5.13
27.	0.42	7.48	14.68	19.88	11.80	3.30	0.95	-0.35	-1.20	-2.15	-2.75	5.63
28.	1.12	6.50	17.42	19.34	11.54	3.20	0.87	-0.32	-1.25	-2.20	-2.75	4.95
29.	0.48		19.64	20.22	11.30	3.10	0.83	-0.30	-1.28	-2.23	-2.75	4.95
30.	1.08		18.72	21.42	11.00	3.00	0.78	-0.35	-1.32	-2.25	-2.80	3.33
31.	1.74		19.92		10.70		0.72	-0.35		-2.27		2.80
Mean.	0.59	7.15	15.77	19.31	11.96	3.58	1.02	-0.25	-1.20	-2.10	-2.74	5.46
Monthly Mean.	1.51	5.15	11.77	17.85	14.44	5.94	1.73	0.07	-0.93	-1.84	-2.57	0.67
Max.	9.20	14.60	21.40	23.60	23.50	10.50	2.95	0.70	-0.35	-1.35	-2.30	12.60
Date.	3	18	29	2	1	1	1	1	1	1	1	24
Min.	0.10	0.20	5.80	14.80	10.60	3.00	0.70	-0.35	-1.35	-2.30	-2.85	-2.90
Date.	27	6	1	17	31	30	31	30	30	31	30	4

RIVER: RUFUJI  
 STATION: STIEGLER'S GORGE  
 STATION NO: 1K-3  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.93	3.35	13.38	13.25	12.73	5.98	1.60	0.30	-0.40	-1.40	-2.00	
2.	0.73	2.75	12.60	13.00	12.30	5.67	1.65	0.30	-0.40	-1.45	-2.00	
3.	0.80	4.20	14.33	12.88	11.45	5.30	1.65	0.30	-0.40	-1.45	-2.05	
4.	0.45	4.18	13.20	13.02	11.28	5.00	1.68	0.30	-0.40	-1.50	-2.10	
5.	0.15	7.53	13.28	12.25	10.95	4.68	1.65	0.25	-0.55	-1.55	-2.10	
6.	0.10	5.73	12.83	11.65	10.67	4.40	1.65	0.25	-0.55	-1.55	-2.15	
7.	0.03	4.93	11.73	10.80	10.40	4.07	1.65	0.25	-0.60	-1.60	-2.05	
8.	0.00	3.95	14.78	9.43	10.27	3.78	1.65	0.20	-0.65	-1.55	-2.05	
9.	2.85	3.60	14.13	9.45	10.20	3.57	1.57	0.20	-0.70	-1.60	-2.10	
10.	3.05	2.80	12.53	9.10	9.85	3.35	1.53	0.15	-0.75	-1.55	-2.15	
Mean.	1.01	4.30	13.28	11.48	11.01	4.58	1.63	0.25	-0.54	-1.52	-2.08	
11.	0.95	3.45	10.59	9.02	9.68	3.20	1.50	0.13	-0.80	-1.55	-2.20	
12.	1.40	3.45	9.65	9.20	9.55	3.03	1.48	0.10	-0.85	-1.60	-2.20	
13.	1.28	5.50	9.28	9.23	9.53	2.90	1.42	0.08	-0.90	-1.45	-2.25	
14.	1.95	7.78	9.98	9.58	9.72	2.75	1.40	0.03	-0.95	-1.45	-2.15	
15.	2.93	6.43	11.93	9.58	9.55	2.62	1.33	0.00	-0.95	-1.50	-2.20	
16.	9.03	5.70	11.15	10.93	9.15	2.53	1.27	0.00	-0.95	-1.43	-2.20	
17.	11.33	7.83	10.33	10.00	8.93	2.45	1.22	0.00	-1.05	-1.30	-2.20	
18.	8.33	8.88	9.88	9.55	9.25	2.38	1.10	0.00	-1.05	-1.45	-2.25	
19.	5.40	6.78	9.25	9.53	8.57	2.27	1.05	0.00	-1.10	-1.50	-2.30	
20.	4.08	6.05	8.73	14.25	8.48	2.20	0.98	0.00	-1.15	-1.55	-2.35	
Mean.	4.67	6.19	10.08	10.09	9.24	2.63	1.28	0.03	-0.98	-1.48	-2.23	
21.	3.65	5.40	9.28	10.78	8.32	2.15	0.93	-0.05	-1.20	-1.60	-2.40	
22.	2.93	6.38	12.00	10.25	8.17	2.10	0.85	-0.10	-1.20	-1.65	-2.45	
23.	2.45	6.70	11.80	10.10	7.95	2.05	0.80	-0.10	-1.25	-1.70	-2.50	
24.	1.85	8.48	9.75	9.70	7.75	1.98	0.75	-0.15	-1.30	-1.75	-2.50	
25.	1.60	10.43	10.68	9.92	7.60	1.90	0.70	-0.20	-1.30	-1.80	-2.50	
26.	1.63	9.33	14.33	9.80	7.47	1.85	0.65	-0.25	-1.30	-1.85	-2.55	
27.	1.50	10.00	12.70	10.00	7.38	1.83	0.60	-0.30	-1.30	-1.90	-2.55	
28.	1.28	12.03	11.05	11.95	7.02	1.72	0.50	-0.30	-1.35	-1.90	-2.55	
29.	1.28		11.13	12.70	6.80	1.70	0.45	-0.30	-1.40	-1.90	-2.40	
30.	1.28		12.93	12.78	6.53	1.60	0.38	-0.35	-1.40	-1.95	-2.10	
31.	4.90		13.73		6.25		0.35	-0.40		-1.95		
Mean.	2.21	8.59	11.76	10.80	7.39	1.89	0.63	-0.23	-1.30	-1.81	-2.45	
Monthly												
Mean.	2.61	6.20	11.71	10.79	9.15	3.03	1.16	0.01	-0.94	-1.61	-2.25	
Max.	12.20	13.20	14.65	14.50	13.10	6.10	1.70	0.30	-0.40	-1.30	-0.20	
Date.	17	28	9	20	1	1	4	4	4	17	2	
Min.	0.00	2.20	8.55	9.10	6.15	1.60	0.35	-0.40	-1.40	-1.95	-2.55	
Date.	8	10	21	13	31	30	31	31	30	31	28	



RIVER: RUFJI  
 STATION : UPTRE  
 STATION NO: IK.4  
 YEAR : 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.30	20.30	18.80	19.30	20.10	16.80	11.20	8.70	7.30	6.20	5.40	4.90
2.	6.60	20.20	18.60	19.30	19.80	16.60	11.20	8.70	7.30	6.20	5.40	4.90
3.	6.40	19.90	18.50	19.60	19.70	16.40	11.10	8.50	7.20	6.10	5.30	4.80
4.	6.30	20.20	18.50	19.20	19.60	16.40	10.90	8.40	7.20	6.10	5.30	4.80
5.	9.90	19.80	18.50	19.10	19.40	16.30	10.80	8.40	7.20	6.10	5.40	4.80
6.	8.70	20.00	18.40	+19.00	19.40	16.30	10.70	8.40	7.20	6.10	5.30	4.80
7.	7.70	19.30	18.30	+18.80	19.30	16.20	10.60	8.30	7.10	6.00	5.30	4.80
8.	9.30	18.00	18.30	+18.60	19.10	15.90	10.40	8.30	7.10	6.00	5.30	4.90
9.	10.40	18.50	18.20	+18.40	19.00	15.50	10.40	8.30	7.00	6.00	5.30	5.00
10.	12.80	18.90	17.90	+18.40	19.00	15.40	10.20	8.20	6.90	6.00	5.30	5.10
Mean.	8.80	19.50	18.40	19.00	19.40	16.20	10.80	8.40	7.20	6.10	5.30	4.90
11.	12.00	17.90	17.70	+18.80	18.90	15.20	10.10	8.20	6.90	6.00	5.30	5.70
12.	10.90	18.40	17.80	+18.50	18.80	14.90	9.90	8.20	6.80	6.00	5.30	5.80
13.	11.30	18.10	17.90	+18.30	18.50	14.70	9.80	8.20	6.80	6.00	5.30	5.80
14.	10.70	19.80	17.90	19.40	18.40	14.40	9.70	8.20	6.80	6.00	5.30	5.70
15.	10.20	19.60	18.30	19.40	18.40	14.20	9.60	8.10	6.70	5.90	5.30	5.60
16.	10.40	18.80	18.70	19.20	18.40	13.90	9.60	8.10	6.70	5.80	5.30	5.60
17.	10.40	18.10	18.30	19.10	18.20	13.80	9.50	8.00	6.70	5.80	5.20	5.70
18.	10.60	18.50	18.10	19.00	18.20	13.40	9.40	8.00	6.70	5.80	5.20	8.30
19.	12.70	19.10	17.90	19.10	18.20	13.20	9.30	7.90	6.70	5.70	5.20	7.90
20.	14.10	19.10	17.90	19.10	18.10	12.90	9.20	7.90	6.60	5.70	5.20	6.80
Mean.	11.30	18.70	18.10	19.00	18.40	14.10	9.60	8.10	6.70	5.90	5.30	6.30
21.	17.90	19.10	17.80	19.10	18.10	12.70	9.20	7.90	6.60	5.50	5.10	6.30
22.	18.70	19.30	17.90	19.00	18.10	12.50	9.10	7.80	6.50	5.50	5.10	6.10
23.	17.20	20.00	18.30	19.40	18.10	12.20	9.00	7.80	6.50	5.50	5.10	5.90
24.	16.40	19.90	18.00	19.50	18.00	12.10	8.90	7.80	6.40	5.40	5.10	5.90
25.	18.70	19.60	17.90	19.90	17.70	11.90	8.80	7.70	6.40	5.40	5.00	5.70
26.	19.90	19.40	17.90	20.20	17.50	11.80	8.80	7.70	6.30	5.40	5.00	6.10
27.	20.20	19.00	17.80	20.90	17.40	11.70	8.70	7.70	6.20	5.40	5.00	5.80
28.	20.10	18.60	17.60	20.90	17.40	11.50	8.70	7.70	6.20	5.30	5.00	5.80
29.	20.70	18.60	17.40	20.60	17.20	11.30	8.70	7.70	6.20	5.30	4.90	5.70
30.	20.30		18.30	20.20	17.00	11.30	8.70	7.40	6.20	5.30	4.90	5.80
31.	19.80		18.90		16.90		8.70	7.40		5.30		6.20
Mean.	19.10	19.30	18.00	20.00	17.60	11.90	8.80	7.70	6.40	5.40	5.00	5.90
Monthly												
Mean.	13.30	19.20	18.10	19.30	18.40	14.00	9.70	8.10	6.70	5.80	5.20	5.70
Max.	20.70	20.30	18.90	20.90	20.10	16.80	11.20	8.70	7.30	6.20	5.40	8.30
Date.	29	1	31	28	1	1	2	2	2	2	5	18
Min.	6.30	17.90	17.40	18.30	16.90	11.30	8.70	7.40	6.20	5.30	4.90	4.80
Date.	4	11	29	13	31	30	31	31	30	31	30	7

+ figures are unreliable from 5th June correction - 7.7 (change of gauge zero)  
 from 16th October correction -12.1

RIVER: RUFJI  
 STATION: UPETE  
 STATIONNO: IK.4  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.83	10.72	6.42	10.00	13.60	11.72	5.67	1.75	0.18	-0.90	-1.90	-1.73
2.	5.83	9.39	6.25	11.50	13.42	11.60	5.42	1.67	0.10	-0.90	-1.82	-1.65
3.	5.75	9.16	6.60	10.20	13.72	11.42	5.33	1.58	+0.10	-0.90	-1.82	-1.65
4.	6.00	9.16	6.75	9.39	13.95	11.22	5.25	1.58	0.01	-0.90	-1.73	-1.65
5.	5.92	9.35	6.83	9.35	14.08	11.05	5.16	1.50	0.01	-0.99	-1.73	-1.65
6.	6.00	12.08	6.75	9.20	14.16	10.83	5.00	1.50	-0.07	-0.99	-1.82	-1.65
7.	6.25	9.58	6.60	9.20	14.30	10.65	4.92	1.42	-0.07	-0.99	-1.82	-1.65
8.	6.33	9.10	6.75	9.22	14.40	10.53	4.83	1.42	-0.15	-1.07	-1.73	-1.73
9.	6.67	8.83	6.45	9.40	14.40	10.40	4.58	1.33	-0.23	-1.07	-1.65	-1.82
10.	6.83	8.30	6.52	10.16	14.50	10.22	4.50	1.33	-0.23	-1.15	-1.65	-1.82
Mean.	6.14	9.57	6.59	9.76	14.05	10.96	5.07	1.51	-0.04	-0.99	-1.77	-1.70
11.	7.58	9.50	6.30	10.28	14.40	10.08	4.42	1.25	-0.32	-1.15	-1.65	-1.82
12.	7.83	9.67	6.18	10.10	14.33	9.83	4.25	+1.20	-0.32	-1.23	-1.73	-1.73
13.	7.83	9.50	6.18	10.05	14.33	9.58	4.00	1.20	-0.32	-1.23	-1.73	-1.48
14.	7.67	10.48	6.28	10.45	14.33	9.42	3.92	1.10	-0.32	-1.32	-1.82	-1.65
15.	8.42	9.20	6.40	10.83	14.25	9.25	3.75	1.02	-0.48	-1.32	-1.82	-1.82
16.	8.33	8.55	7.16	11.42	14.16	9.00	3.67	1.02	-0.48	-1.40	-1.90	-1.65
17.	9.33	7.70	7.42	13.25	14.08	8.83	3.33	0.93	-0.57	-1.40	-1.99	-1.32
18.	9.00	7.30	7.16	13.35	14.00	8.67	3.25	0.93	-0.57	-1.48	-1.99	-0.90
19.	8.92	7.15	6.30	14.00	13.80	8.42	3.00	0.77	-0.65	-1.48	-1.40	-0.32
20.	8.58	6.75	7.13	14.16	13.72	8.25	2.92	0.77	-0.65	-1.57	-1.15	0.27
Mean.	8.35	8.58	6.65	11.79	14.14	9.13	3.65	1.02	-0.47	-1.36	-1.72	-1.24
21.	8.33	6.50	7.70	14.67	13.60	8.00	2.75	0.68	-0.73	-1.57	-0.99	-0.57
22.	8.25	7.00	8.00	14.70	13.48	7.67	2.67	0.68	-0.73	-1.65	-1.23	-0.32
23.	8.08	6.90	8.00	14.85	13.35	7.33	2.50	0.60	-0.82	-1.65	-1.40	-0.57
24.	7.92	7.00	7.80	14.90	13.25	7.00	2.42	0.60	-0.82	-1.73	-1.57	0.27
25.	8.00	6.92	7.95	14.50	13.10	6.75	2.25	0.52	-0.48	-1.73	-1.73	0.10
26.	8.25	6.90	7.90	14.22	12.80	6.58	2.25	0.52	-0.73	-1.73	-1.65	0.18
27.	8.58	7.00	8.00	14.10	12.65	6.33	2.00	0.35	-0.82	-1.82	-1.73	0.10
28.	9.33	6.75	8.00	14.00	12.48	6.16	2.00	0.35	-0.82	-1.82	-1.82	0.93
29.	8.08		9.60	13.90	12.27	6.00	1.92	0.26	-0.82	-1.90	-1.73	1.85
30.	8.92		9.83	13.70	12.05	5.83	1.92	0.18	-0.82	-1.90	-1.73	1.01
31.	9.25		9.30		11.78		1.75	0.18		-1.90		0.85
Mean.	8.45	6.87	8.37	14.35	12.80	6.77	2.22	0.49	-0.76	-1.80	-1.56	0.38
Monthly												
Mean.	7.67	8.44	7.24	11.97	13.64	8.95	3.60	0.97	-0.42	-1.38	-1.68	-0.83
Max.	9.33	12.42	10.25	14.92	14.50	11.75	5.67	1.75	0.18	-0.90	-0.99	1.85
Date.	28	6	29	24	10	1	1	1	1	4	21	9
Min.	5.75	6.42	6.08	9.08	11.67	5.83	1.75	0.18	-0.82	-1.90	-1.99	-1.82
Date.	3	21	13	8	31	30	31	31	30	31	18	15

Water levels have been corrected according to change of gauge zero, computed from graph on 12/14th August; 3rd September.

RIVER: PUFUJI  
 STATION: UTEFE  
 STATION NO: IK.4  
 year: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.75	7.50	11.91	17.17	17.50	13.42	8.66	6.58	5.33	4.33	3.75	3.50
2.	6.91	7.58	11.08	17.17	17.66	13.25	8.58	6.50	5.33	4.33	3.75	3.50
3.	8.08	7.66	11.50	17.66	17.75	13.08	8.33	6.33	5.25	4.33	3.75	3.50
4.	12.50	7.58	11.33	17.75	17.83	13.08	8.17	6.33	5.25	4.33	3.66	3.50
5.	9.78	7.17	12.00	17.83	17.83	12.90	8.17	6.25	5.25	4.25	3.66	3.58
6.	9.20	6.91	11.00	17.83	17.66	12.70	8.17	6.17	5.17	4.25	3.66	3.58
7.	8.69	6.83	11.42	17.75	17.66	12.50	8.08	6.17	5.17	4.25	3.66	3.58
8.	8.17	6.83	11.58	17.42	17.58	12.40	8.00	6.10	5.17	4.25	3.58	3.58
9.	8.05	6.91	12.58	17.00	17.42	12.20	7.83	6.10	5.08	4.17	3.58	3.50
10.	8.33	8.00	16.17	16.58	17.33	12.00	7.75	6.00	5.08	4.17	3.58	3.50
Mean..	8.65	7.30	12.06	17.42	17.62	12.75	8.17	6.25	5.21	4.27	3.66	3.53
11.	8.01	8.58	13.91	16.08	17.08	11.80	7.75	6.00	5.08	4.17	3.50	3.50
12.	7.67	9.83	14.83	15.91	16.91	11.58	7.66	5.90	5.00	4.17	3.50	3.50
13.	7.36	12.25	16.25	15.75	16.75	11.42	7.58	5.90	5.00	4.17	3.50	3.50
14.	7.17	9.75	15.58	15.75	16.50	11.25	7.58	5.83	5.00	4.08	3.42	3.58
15.	7.01	11.08	14.25	15.66	16.25	11.00	7.50	5.83	4.91	4.08	3.42	3.58
16.	6.97	10.66	13.91	15.66	16.00	10.75	7.50	5.83	4.91	4.08	3.42	3.66
17.	6.91	14.58	14.66	15.58	15.75	10.58	7.42	5.75	4.83	4.08	3.66	3.58
18.	6.83	13.91	15.75	15.42	15.66	10.33	7.42	5.75	4.83	4.08	3.66	3.75
19.	6.72	16.00	17.00	15.42	15.42	10.08	7.33	5.75	4.83	4.08	3.66	4.25
20.	6.63	14.00	15.50	15.91	15.33	10.00	7.25	5.66	4.75	4.00	3.58	6.00
Mean.	7.13	12.06	15.16	15.71	16.17	10.88	7.50	5.82	4.91	4.10	3.53	3.89
21.	6.61	12.91	14.83	16.33	15.17	9.66	7.17	5.66	4.75	4.00	3.58	6.42
22.	6.58	12.00	15.00	16.50	15.00	9.50	7.00	5.66	4.75	4.00	3.58	6.91
23.	6.58	11.66	14.00	16.33	14.91	9.50	6.91	5.58	4.66	4.00	3.50	13.33
24.	6.53	12.58	15.50	16.66	14.83	9.33	6.83	5.58	4.66	3.91	3.50	11.33
25.	6.53	14.00	14.75	16.75	14.75	9.33	6.83	5.58	4.66	3.91	3.50	12.08
26.	6.73	12.42	16.00	17.00	14.58	9.33	6.83	5.50	4.58	3.91	3.42	12.83
27.	6.47	12.08	16.33	17.25	14.42	9.25	6.75	5.50	4.58	3.83	3.50	9.75
28.	6.58	12.83	15.50	17.33	14.33	9.08	6.75	5.42	4.58	3.83	3.50	10.58
29.	7.44		15.66	17.33	14.08	9.00	6.66	5.42	4.50	3.83	3.58	10.66
30.	7.03		17.00	17.42	13.91	8.66	6.66	5.42	4.50	3.83	3.58	10.33
31.	6.89		17.17		13.75		6.58	5.33		3.75		9.66
Mean.	6.72	12.56	15.61	16.89	14.52	9.26	6.82	5.51	4.62	3.89	3.52	10.35
Monthly Mean.	7.47	10.50	14.32	16.67	16.05	10.97	7.47	5.85	4.91	4.08	3.57	6.07
Max.	12.50	16.00	17.17	17.83	17.83	13.42	8.66	6.58	5.33	4.33	3.75	13.33
Date.	4	19	31	6	5	1	1	1	2	4	3	23
Min.	6.47	6.83	11.00	15.42	13.75	8.66	6.58	5.33	4.50	3.75	3.42	3.50
Date.	27	8	6	19	31	30	31	1	30	31	26	13

RIVER: RUFUJI  
 STATION: UHATE  
 STATION NO: 1K.4  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	10.08	13.00	16.75	18.50	16.47	11.50	7.50	6.33	5.20	4.70	4.00	4.00
2.	10.17	10.17	17.33	16.78	16.50	11.33	7.50	6.25	5.10	4.70	4.00	4.00
3.	9.25	10.58	17.17	16.42	16.25	11.00	7.50	6.16	5.10	4.70	4.00	4.00
4.	8.50	12.00	19.85	16.69	15.61	10.75	7.50	6.16	5.10	4.70	4.00	4.08
5.	8.33	11.75	18.95	16.33	15.25	10.50	7.50	6.08	5.10	4.70	3.92	4.25
6.	7.92	12.67	19.05	15.67	15.03	10.28	7.40	6.08	5.10	4.60	3.92	4.33
7.	7.75	12.67	18.10	15.55	14.77	10.00	7.40	6.00	5.10	4.60	3.92	4.42
8.	7.58	11.67	15.53	14.92	14.58	9.75	7.40	6.00	5.10	4.60	3.92	4.42
9.	7.58	10.67	19.25	14.53	14.31	9.50	7.30	5.91	5.00	4.60	3.92	4.50
10.	7.67	10.33	18.70	14.00	14.27	9.33	7.30	5.91	5.00	4.60	3.83	4.66
Mean.	8.48	11.55	18.07	15.94	15.30	10.39	7.43	6.09	5.09	4.65	3.94	4.27
11.	9.92	10.00	18.20	13.58	14.17	9.16	7.30	5.83	5.00	4.60	3.83	4.75
12.	8.00	10.00	15.17	13.75	14.08	8.97	7.30	5.83	5.00	4.50	3.83	5.25
13.	8.67	10.67	14.58	13.66	14.00	8.81	7.30	5.75	5.00	4.50	3.83	5.50
14.	8.33	10.42	14.42	13.92	13.92	8.69	7.20	5.75	5.00	4.50	3.83	8.66
15.	7.92	13.75	14.50	14.22	14.00	8.64	7.20	5.66	5.00	4.40	3.92	10.16
16.	10.58	12.83	16.40	14.00	14.00	8.50	7.20	5.66	4.90	4.40	3.92	8.66
17.	12.58	12.00	15.36	14.70	13.83	8.42	7.10	5.58	4.90	4.40	3.92	8.16
18.	16.33	12.08	15.00	14.50	13.66	8.28	7.10	5.58	4.90	4.40	3.92	8.00
19.	15.00	15.42	14.42	14.39	13.45	8.16	7.00	5.58	4.90	4.30	3.92	7.50
20.	13.83	13.67	13.69	14.27	13.33	8.16	7.00	5.58	4.90	4.30	3.92	7.16
Mean.	11.12	12.08	15.17	14.10	13.84	8.58	7.17	5.68	4.95	4.43	3.88	7.38
21.	11.33	12.00	13.67	18.80	13.17	8.08	6.90	5.50	4.80	4.30	3.92	6.75
22.	10.58	12.17	14.80	15.39	12.97	8.08	6.80	5.50	4.80	4.20	3.92	6.42
23.	10.42	12.33	16.03	14.75	12.86	8.00	6.80	5.40	4.80	4.20	3.92	6.16
24.	9.75	13.00	15.36	14.42	12.75	8.00	6.80	5.40	4.80	4.20	3.92	6.08
25.	9.33	13.83	14.28	14.11	12.66	7.92	6.70	5.30	4.80	4.10	4.00	5.92
26.	9.00	14.92	14.67	14.28	12.42	7.83	6.70	5.30	4.70	4.10	4.00	5.83
27.	9.00	14.25	15.58	14.30	12.33	7.75	6.60	5.20	4.70	4.10	4.00	5.74
28.	9.00	15.67	15.78	14.55	12.17	7.66	6.60	5.20	4.70	4.10	4.00	5.66
29.	8.67		15.39	15.59	12.00	7.66	6.50	5.20	4.70	4.00	4.00	5.58
30.	8.67		15.42	16.28	11.83	7.58	6.50	5.20	4.70	4.00	4.00	5.50
31.	9.00		18.90		11.66		6.40	5.20		4.00		5.42
Mean.	9.52	13.52	15.44	15.25	12.44	7.86	6.67	5.31	4.75	4.12	3.97	5.92
Monthly Mean.	9.70	12.30	16.20	15.10	13.82	8.94	7.03	5.68	4.93	4.39	3.93	5.86
Max.	16.40	15.70	20.00	19.00	16.60	11.50	7.50	6.35	5.20	4.70	4.00	10.20
Date.	18	28	4	21	2	1	5	1	1	5	30	15
Min.	7.55	10.00	13.50	13.40	11.65	7.55	6.40	5.20	4.70	4.00	3.83	4.00
Date.	9	13	21	11	31	30	31	31	30	31	14	3

RIVER: KUFUJI  
 STATION: 3CLBG-UTETE  
 STATION NO:  
 YEAR: 1942

Waterlevel in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3'1	6'5	3'7	12'0	12'7	8'0						
2.	3'3	6'0	3'6	11'0	12'3	8'0						
3.	4'2	6'1	3'6	10'8	12'0	7'9						
4.	4'1	5'7	4'0	10'6	12'0	7'8						
5.	4'3	5'6	3'6	10'8	12'6	7'6						
6.	4'4	5'4	3'5	11'6	12'3	7'5						
7.	4'4	5'4	3'4	12'0	12'3	7'0						
8.	4'0	5'0	3'2	13'4	12'9	6'4						
9.	5'0	4'9	3'1	12'6	13'4	6'3						
10.	4'1	4'8	3'0	12'8	13'0	6'2						
Mean.	4'1	5'5	3'4	12'5	12'6	7'2						
11.	4'5	4'4	2'9	12'9	12'8	6'1						
12.	4'6	4'6	4'0	12'8	12'7	6'0						
13.	4'5	4'5	4'0	13'0	12'7	5'9						
14.	4'1	4'4	6'3	12'10	12'8	5'7						
15.	4'2	4'3	6'5	12'6	12'7	5'6						
16.	5'8	4'2	6'4	12'0	12'2	5'5						
17.	5'4	4'2	7'8	12'0	11'5	5'4						
18.	5'0	4'1	9'0	12'1	11'2	5'0						
19.	6'0	4'1	9'0	12'6	11'0	4'3						
20.	5'9	4'1	7'8	12'9	10'8	4'8						
Mean.	4'11	4'3	6'3	12'6	11'11	5'4						
21.	6'9	4'0	8'6	12'6	10'6	4'7						
22.	6'7	4'0	7'5	12'7	10'2	4'6						
23.	7'3	4'0	7'7	12'7	9'9	4'5						
24.	7'3	4'0	7'6	12'7	9'7	4'0						
25.	7'2	4'0	7'8	12'7	9'6	3'10						
26.	7'1	3'9	9'8	12'9	9'1	3'9						
27.	7'0	3'8	8'7	13'4	9'0	3'8						
28.	7'6	3'7	11'6	13'4	8'8	3'7						
29.	8'4		12'6	13'2	8'7	3'6						
30.	6'6		12'7	12'9	8'6	3'5						
31.	7'1		12'7		8'4							
Mean.	7'2	3'10	9'8	12'10	9'3	3'11						
Monthly Mean.	5'5	4'7	6'7	12'7	11'2	5'8						
Max.	8'4	6'5	12'7	13'4	13'4	8'0						
Date.	29	1	31	3	9	2						
Min.	3'1	3'7	2'9	10'6	8'4	3'5						
Date.	1	28	11	4	31	30						

RIVER: FUJI  
 STATION: KOSABA-URATE  
 STATION NO:  
 YEAR: 1943

Water level in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.			6'8	5'6	10'4	9'2	3'6	0'1				
2.		1'0	5'6	5'4	11'0	9'0	3'4					
3.		1'3	5'10	5'7	11'1	8'8	3'4					
4.		1'0	7'9	5'6	10'10	8'7	3'3					
5.		1'3	9'5	5'5	10'4	8'6	3'1					
6.		1'0	9'0	5'10	9'9	8'4	3'0					
7.		1'0	8'6	5'11	9'10	8'0	2'11					
8.		1'0	8'4	6'2	9'7	8'0	2'10					
9.			8'6	6'4	9'9	7'10	2'8					
10.			7'8	6'7	10'1	7'9	2'7					
Mean.			7'8	5'10	10'2	8'5	3'1					
11.			6'9	6'5	10'7	7'7	2'6					
12.			5'5	6'6	11'2	7'6	2'5					
13.			4'9	6'7	11'0	6'4	2'4					
14.			4'3	7'6	10'10	6'3	2'3					
15.		1'2	4'0	7'5	10'6	6'1	2'2					
16.		2'3	3'9	8'4	10'4	6'1	2'1					
17.		3'5	3'6	6'2	10'1	6'0	2'1					
18.		3'4	3'5	6'8	10'0	5'10	2'0					
19.		2'4	3'4	6'5	9'11	5'8	2'0					
20.		1'3	3'3	6'4	9'10	5'6	1'11					
Mean.			4'3	6'10	10'4	6'3	2'2					
21.		1'2	3'2	6'1	9'11	5'4	1'10					
22.		4'5	3'0	6'0	10'0	5'3	1'9					
23.		3'0	3'6	6'1	9'10	5'2	1'9					
24.		4'6	3'5	6'4	9'11	5'0	1'8					
25.		4'2	4'6	6'9	9'11	4'9	1'7					
26.		4'4	4'9	7'0	9'10	4'8	1'6					
27.		5'7	5'0	7'3	9'9	4'6	1'6					
28.		6'8	5'9	7'9	9'8	4'4	1'5					
29.			5'7	8'9	9'7	4'1	1'4					
30.			5'4	10'0	9'5	3'8	1'2					
31.			6'0		9'4		1'0					
Mean.		4'3	4'6	7'2	9'9	4'8	1'6					
Monthly Mean.			5'6	6'7	10'1	6'5	2'3					
Max.			9'5	10'0	11'2	9'2	3'6					
Date.			5	30	12	1	1					
Min.			3'0	5'4	9'4	3'8	1'0					
Date.			22	2	31	30	31					

RIVER: RUTLEDGE  
 STATION: MONTE-UTRE  
 STATION NO:  
 YEAR: 1944

Water level in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		2'7	4'2	8'1	12'10	7'8	1'0					
2.		3'8	4'1	9'6	12'9	7'3						
3.		5'11	3'10	9'5	12'10	7'0						
4.		4'10	3'7	9'5	13'2	6'9						1'2
5.		6'7	3'5	11'0	13'5	6'7						2'0
6.		6'0	3'2	10'9	13'7	6'3						3'8
7.		6'3	3'0	10'8	13'6	6'0						4'1
8.		10'0	2'9	10'8	13'0	5'10						6'3
9.		7'11	2'8	10'7	12'10	5'7						6'2
10.		5'7	3'1	9'6	13'3	5'4						7'8
Mean.		5'11	3'5	9'11	13'1	6'5						
11.		5'0	3'8	9'3	13'5	5'1						7'6
12.	0'1	5'2	2'9	9'8	13'1	4'10						6'8
13.		5'0	2'10	11'3	12'7	4'7						5'4
14.		5'0	4'6	10'7	12'2	4'4						4'7
15.		4'10	5'9	11'3	11'7	4'0						4'2
16.		5'2	8'3	10'11	11'4	4'6						3'10
17.		4'10	6'1	10'11	10'10	4'1						3'7
18.		4'6	5'7	11'1	10'7	3'9						3'4
19.		4'3	5'2	11'7	10'8	3'6						3'3
20.		4'0	5'0	11'6	10'1	3'3						3'1
Mean.		4'9	4'10	10'10	11'7	4'2						4'6
21.		3'9	5'1	12'1	9'10	3'0						3'0
22.		3'8	4'9	12'0	9'7	2'10						3'2
23.		3'9	9'7	11'8	9'5	2'8						3'7
24.		4'0	9'5	11'8	9'2	2'6						4'8
25.	1'3	4'10	8'11	12'2	9'0	2'4						3'1
26.	1'2	4'10	10'10	12'10	8'10	2'3					1'3	4'3
27.	2'5	4'9	10'7	13'0	8'7	2'0						4'1
28.	2'7	4'10	9'9	13'0	8'5	1'7					3'5	4'0
29.	3'8	4'8	10'2	12'11	8'2	1'5					2'8	3'11
30.	2'6		8'7	12'11	8'0	1'2						3'8
31.	2'6		9'5		7'8							3'7
Mean.		4'4	6'10	12'5	8'9	2'2						3'9
Monthly Mean.		5'0	5'10	10'9	11'1	4'3						
Max.		10'0	10'10	13'0	13'7	7'8						7'8
Date.		8	26	28	6	1						10
Min.		2'7	2'8	8'1	7'8	1'2						
Date.		1	9	1	31	30						

RIVER: RUFUJI  
 STATION: ECHEBE-UTETE  
 STATION NO:  
 YEAR: 1945

Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3'6	8'11	11'7	12'5	13'4	11'3	5'0	0'3				
2.	3'4	8'4	12'0	12'3	13'1	11'0	4'10	0'4				
3.	3'3	7'8	13'5	12'5	12'11	10'10	4'8	0'4				
4.	3'8	7'4	12'7	11'8	12'7	10'8	4'6	0'3				
5.	3'7	8'1	12'0	11'6	12'5	10'6	4'3	0'2				
6.	4'7	7'5	11'9	11'9	12'3	10'4	4'0					
7.	3'4	7'2	11'3	11'0	12'0	10'1	3'11					
8.	3'7	6'11	10'10	10'6	11'10	9'11	3'10					
9.	4'8	6'11	10'10	10'2	11'9	9'7	3'9					
10.	5'2	6'8	10'4	10'0	11'10	9'7	3'9					
Mean.	3'10	7'6	11'8	11'4	12'5	10'5	4'3					
11.	4'10	8'6	10'0	10'6	12'0	9'5	3'8					
12.	4'8	7'9	10'2	10'7	12'5	9'3	3'7					
13.	5'0	7'0	9'11	10'10	12'11	9'0	3'6					
14.	9'10	7'2	11'4	10'11	13'1	8'10	3'4					
15.	7'10	7'1	12'2	11'3	13'1	8'7	3'3					
16.	8'10	6'10	12'11	12'4	13'3	8'4	3'0					3'5
17.	8'6	7'8	13'0	13'1	13'4	8'2	2'11					1'10
18.	10'3	9'6	12'6	13'6	13'4	7'11	2'9					1'0
19.	9'7	8'6	11'0	13'8	13'3	7'9	2'8					1'10
20.	10'11	7'11	10'3	13'9	13'1	7'6	2'6					1'7
Mean.	8'0	7'9	11'4	12'0	13'0	8'3	3'2					
21.	9'6	7'6	9'9	13'10	12'10	7'4	2'4					3'4
22.	8'2	7'1	9'4	13'11	12'7	7'3	1'11					3'0
23.	7'8	6'11	9'3	13'11	12'6	7'0	1'10					3'10
24.	7'5	6'8	9'4	14'0	12'4	6'10	1'9					2'1
25.	6'11	6'7	9'7	14'0	12'0	6'7	1'6					1'3
26.	6'7	5'6	9'7	14'0	11'10	6'1	1'5					4'5
27.	6'9	8'4	10'3	13'11	11'7	5'11	1'4					4'4
28.	7'8	10'3	12'8	13'10	11'5	5'8	1'3					2'3
29.	8'9		12'4	13'9	11'5	5'5	1'2					4'11
30.	8'6		11'7	13'7	11'7	5'3	1'1					3'11
31.	9'6		11'7		11'6		1'0					2'10
Mean.	8'0	7'4	10'6	13'10	11'10	6'4	1'6					3'3
Monthly												
Mean.	6'8	7'6	11'1	12'5	12'4	8'4	2'11					
Max.	10'11	10'3	13'5	14'0	13'4	11'3	5'0					
Date.	20	28	3	26	18	1	1					
Min.	3'3	5'6	9'3	10'0	11'5	5'3	1'0					
Date.	3	26	23	10	29	30	31					



RIVER: RUFJI  
 STATION: ZEMBE-UTETE  
 STATION NO:  
 YEAR: 1946

Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1'11	0'5	1'0	1'1	9'8	6'3						
2.	1'7	0'4	0'6	1'10	9'3	6'0						
3.	1'3	0'1	1'6	1'8	9'2	5'9						
4.	1'1	0'0	1'3	1'7	9'0	5'6						
5.	1'0		1'2	2'3	8'11	5'3						
6.			1'9	1'9	8'9	5'0						
7.			1'0	1'9	8'9	4'10						
8.			0'10	2'0	8'9	4'7						
9.			0'10	1'8	8'7	4'4						
10.			1'1	1'9	8'5	4'2						
Mean.			1'1	1'9	8'11	5'2						
11.			1'9	2'2	8'4	4'0						
12.			1'8	2'7	8'7	3'9						
13.			2'7	2'7	8'4	3'7						
14.			1'5	4'1	8'4	3'3						
15.			2'3	5'3	8'2	3'0						
16.			1'7	4'7	8'1	2'9						
17.			1'3	4'0	8'0	2'7						
18.			1'1	4'7	7'9	2'4						
19.			1'2	4'10	7'7	2'3						
20.			2'4	7'8	7'9	2'0						
Mean.			1'8	4'3	8'1	2'11						
21.			2'3	6'7	7'10	1'10						0'9
22.			1'6	6'3	8'3	1'8						0'5
23.	2'3		2'4	7'5	8'5	1'6						0'3
24.	2'3		1'9	7'4	8'1	1'4						1'7
25.	1'1		1'7	6'10	7'9	1'3						1'5
26.	1'7		1'5	7'11	7'6	1'0						0'5
27.	1'6	1'6	1'4	7'9	7'3	0'9						0'3
28.	1'5	0'5	1'3	9'5	7'0	0'6						
29.	1'3		1'2	11'3	6'10	0'3						
30.	0'9		1'1	10'5	6'8	0'0						
31.	0'7		1'6		6'5							
Mean.			1'7	8'1	7'5	1'0						
Monthly Mean.			1'5	4'8	8'2	3'2						
Max.	2'3	1'6	2'7	11'3	9'8	6'3						
Date.	24	27	13	29	1	1						
Min.			0'6	1'1	6'5	0'0						
Date.			2	1	31	30						

RIVER: RUFUJI  
 STATION: ZOMBE - UTETE  
 STATION NO:  
 YEAR: 1947

Water level in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		6'9	6'7	10'4	13'5	8'10	3'9					
2.		5'7	6'7	10'2	13'6	8'10	3'7					
3.		5'7	7'7	9'8	13'6	8'11	3'6					
4.		8'10	7'4	10'0	13'5	8'8	3'5					
5.		7'6	7'4	10'6	13'4	8'6	3'4					
6.		7'10	9'0	10'5	13'4	8'4	3'2					
7.		11'10	10'4	10'8	13'3	8'1	2'11					
8.		9'9	10'4	10'5	13'2	7'11	2'10					
9.		10'0	10'11	12'3	13'1	7'8	2'8					
10.		10'3	10'0	11'10	12'10	7'6	2'7					
Mean.		8'4	8'7	10'7	13'3	8'4	3'2					
11.	0'10	11'3	10'7	11'6	12'7	7'3	2'6					
12.	0'4	12'0	11'8	10'10	12'5	7'2	2'5					
13.	0'2	13'3	11'11	10'6	12'4	6'10	2'4					
14.	0'1	12'0	12'7	10'7	12'3	6'8	2'3					
15.	2'10	10'7	13'4	11'2	12'0	6'5	2'2					
16.	1'1	11'0	12'11	11'6	11'9	6'3	2'1					
17.	0'6	12'7	11'10	11'3	11'6	6'0	1'11					
18.	0'5	10'10	10'9	10'11	11'4	5'11	1'10					
19.	0'5	10'6	9'9	11'2	11'1	5'9	1'9					
20.	1'0	12'7	9'6	11'4	11'0	5'6	1'8					
Mean.	0'9	11'8	11'6	11'1	11'10	6'4	2'1					
21.	1'2	12'4	9'6	11'4	10'10	5'4	1'7					
22.	6'3	11'3	11'6	11'7	10'8	5'2	1'6					
23.	4'8	10'6	11'11	11'7	10'5	5'0	1'5					
24.	9'10	10'9	11'6	11'10	10'2	4'10	1'4					
25.	10'10	9'0	10'10	12'2	9'10	4'8	1'2					
26.	6'6	8'0	10'6	12'4	9'7	4'6	1'1					
27.	6'0	7'4	11'0	12'2	9'4	4'4	0'9					
28.	5'2	6'8	11'8	12'3	9'2	4'3	0'7					
29.	5'3		11'4	12'10	8'9	4'0	0'5					1'3
30.	8'4		11'2	13'3	8'9	3'10	0'3					2'10
31.	7'4		10'10		8'11		0'1					2'2
Mean.	6'6	9'5	11'1	12'1	9'8	4'7	0'9					
Monthly Mean.		9'10	9'10	11'3	11'6	6'5	2'0					
Max.	10'10	13'3	13'4	13'3	13'6	8'11	3'9					
Date.	25	13	15	30	3	3	1					
Min.		5'7	6'7	9'8	8'9	3'10	0'1					
Date.		3	2	3	30	30	31					

RIVER: RUFUJI  
 STATION: ZOMBE-UTETE  
 STATION NO:  
 YEAR: 1948.

Water level in feet and Inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2'6	9'7	4'0	5'10	7'9	5'2	0'3					
2.	1'7	7'6	3'10	5'10	8'0	4'10	0'2					
3.	1'0	6'10	3'8	6'9	7'8	4'8	0'1					
4.	0'9	6'3	3'6	6'9	7'6	4'6						
5.	0'6	6'1	3'5	6'8	7'4	4'3						
6.		6'0	3'4	7'0	7'3	4'1						
7.		5'11	3'3	7'3	7'2	3'8						
8.	2'4	5'5	3'4	8'7	7'0	3'5						
9.	2'9	5'3	3'3	7'9	6'11	3'4						
10.	4'4	6'8	4'6	8'1	6'11	3'4						
Mean.	1'7	6'7	3'7	7'1	7'4	4'1						
11.	6'6	6'6	4'2	7'10	7'2	3'4						
12.	6'0	5'10	3'6	8'11	7'1	3'0						
13.	7'5	5'7	4'9	9'9	7'3	2'11						
14.	5'7	5'1	4'5	10'0	7'3	2'10						
15.	4'7	5'0	5'0	10'4	7'3	2'8						
16.	4'3	4'9	7'4	9'5	7'7	2'6						
17.	4'5	4'5	6'9	9'0	7'3	2'4						
18.	3'5	4'2	5'10	9'3	6'11	2'2						
19.	3'0	4'3	8'10	8'9	6'9	2'1						
20.	2'9	4'1	7'10	8'2	6'10	2'0						
Mean.	4'10	5'0	5'10	9'2	7'1	2'7						
21.	4'6	4'2	8'10	7'10	6'7	1'10						
22.	3'10	4'2	7'6	7'8	6'10	1'8						
23.	6'0	4'2	6'7	7'6	6'7	1'6						
24.	4'9	3'10	7'7	7'4	6'6	1'3						
25.	7'11	3'7	7'0	7'9	6'4	1'2						
26.	7'0	3'7	6'2	7'9	6'1	1'2						
27.	10'4	3'10	5'10	7'6	5'10	1'0						
28.	10'7	3'9	5'9	7'6	5'8	0'9						
29.	10'0	3'7	5'9	7'9	5'6	0'7						
30.	8'1		5'10	7'6	5'5	0'5						
31.	10'10		5'9		5'3							
Mean.	7'7	3'10	6'6	7'7	6'1	1'2						
Monthly Mean.	4'9	5'2	5'4	7'11	6'10	2'7						
Max.	10'10	9'7	8'10	10'4	8'0	5'2						
Date.	31	1	21	15	2	1						
Min.	0'0	3'7	3'3	5'10	5'3	0'5						
Date.	7	29	9	2	31	30						

RIVER: RUTUJI  
 STATION: ZOLBE-UTETE  
 STATION NO:  
 YEAR: 1949

Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.			1'5	4'6	5'1	3'10						
2.			1'0	3'11	4'11	3'9						
3.			0'11	3'7	4'9	3'7						
4.			0'10	2'9	4'7	3'6						
5.			0'10	2'5	4'7	3'4						
6.			0'8	2'3	4'6	3'3						
7.			0'8	2'2	4'7	3'1						
8.			1'3	2'3	5'7	2'11						
9.			1'1	3'3	5'10	2'9						
10.			1'10	5'3	5'8	2'7						
Mean.			1'1	3'3	5'0	3'3						
11.	0'6	-0'1	3'3	4'10	6'0	2'5						
12.	0'3	-0'4	2'9	7'4	5'10	2'3						
13.		-0'3	1'10	6'0	5'7	2'1						
14.		1'4	1'3	4'11	5'0	1'10						
15.		2'0	1'1	5'6	4'10	1'8						
16.		1'1	1'0	5'2	4'10	1'6						
17.		3'4	0'9	4'9	5'0	1'4						
18.		1'10	1'1	6'1	5'4	1'3						
19.		2'0	1'2	4'10	4'10	1'1						
20.		1'9	0'10	4'6	4'10	1'0						
Mean.		1'11	1'8	5'5	5'2	1'7						
21.		4'3	0'8	4'2	4'11	0'10						
22.		3'3	0'7	4'0	4'9	0'9						
23.		2'2	0'7	4'0	4'9	0'8						
24.		1'9	0'7	4'4	4'9	0'7						
25.		1'7	1'1	5'9	4'6	0'6						
26.		1'8	1'8	4'11	4'6	0'3						
27.		4'6	1'5	5'6	4'5	0'0						
28.		4'4	1'6	6'2	4'4							
29.			1'5	6'0	4'2							
30.			1'11	5'7	4'1							
31.			3'9		4'0							
Mean.		2'11	1'10	5'0	4'6							
Monthly Mean.			1'5	4'7	4'10							
Max.		4'6	3'9	6'2	6'0	3'10						
Date.		27	31	28	11	1						
Min.			0'7	2'2	4'0							
Date.			24	7	31							

RIVER: RUFUJI  
 STATION: ZOLBE-UTETE  
 STATION NO:  
 YEAR: 1950

Water level in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		2'3	4'6	9'10	11'4	5'4						
2.		2'5	4'8	9'11	10'11	5'0						
3.		1'10	5'6	8'10	11'7	4'8						
4.		1'7	4'0	8'7	11'10	4'5						
5.		1'4	3'6	8'2	11'3	4'2						
6.	3'3	1'3	3'5	7'10	11'0	3'11						
7.	2'7	1'10	4'7	8'4	10'9	3'8						
8.	1'3	2'5	3'10	8'2	10'6	3'6						
9.	3'8	1'10	4'4	8'0	10'4	3'3						
10.	2'3	1'3	5'1	8'6	10'1	3'1						
Mean.		1'9	4'4	8'7	10'11	4'1						
11.	0'9	1'4	4'7	9'8	9'10	2'11						
12.	3'1	2'2	7'9	10'2	9'7	2'9						
13.	1'11	1'7	7'3	11'3	9'5	2'8						
14.	1'4	1'10	5'10	11'4	9'2	2'6						
15.	6'7	3'2	4'9	11'7	8'11	2'4						
16.	3'10	4'4	8'0	12'2	8'8	2'1						
17.	3'3	4'4	8'6	12'4	8'7	1'10						
18.	4'1	6'5	10'0	12'6	8'9	1'8						
19.	2'6	4'9	11'3	12'7	8'3	1'7						
20.	2'7	3'9	10'8	12'6	8'1	1'4						
Mean.	3'0	3'4	7'10	11'7	8'11	2'2						
21.	1'4	3'4	11'4	12'4	8'5	1'1						
22.	0'10	3'7	11'4	12'1	8'6	0'10						
23.	1'1	4'1	12'3	12'5	8'4	0'7						
24.	0'10	5'9	12'4	12'7	7'10	0'3						
25.	1'0	5'1	11'9	12'7	7'6	0'0						
26.	1'2	6'8	11'9	12'6	7'3							
27.	6'10	7'3	12'0	12'4	7'0							
28.	6'6	5'6	11'4	12'6	6'9							
29.	3'7		11'3	12'4	6'4							
30.	3'2		10'5	11'10	6'0							
31.	2'6		10'3		5'7							
Mean.	2'7	5'2	11'5	12'5	7'3							
Monthly Mean.		3'4	8'0	10'10	9'0							
Max.	6'10	7'3	12'4	12'7	11'10	5'4						
Date.	27	27	24	25	4	1						
Min.		1'3	3'5	7'10	5'7							
Date.		10	6	6	31							

RIVER: RUFUJI  
 STATION: ZOMBE-UTETE  
 STATION NO:  
 YEAR: 1951

Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		1.1	8'1	7'1	10'11	5'0	0'10					
2.		2'10	7'0	7'11	10'4	4'11	0'9					
3.		3'0	7'0	8'2	10'4	4'9	0'9					
4.		2'7	7'1	8'7	9'10	4'7	0'9					
5.		3'2	9'7	7'5	9'10	4'6	0'8					
6.		3'5	7'1	7'9	10'0	4'4	0'8					
7.		3'2	6'3	11'3	9'7	4'2	0'7					
8.		4'4	5'10	9'4	9'3	4'0	0'4					
9.		4'0	5'7	9'1.	8'7	3'10	0'2					
10.		5'6	5'0	8'2	8'10	3'7	0'1					
Mean.		3'4	6'10	8'6	9'9	4'4	0'7					
11.		5'1	5'7	9'10	8'7	3'5						
12.		4'3	8'4	8'7	8'0	3'3						2'0
13.		4'6	8'2	9'3	7'7	3'1						1'4
14.		6'3	6'9	9'5	7'4	2'10						1'0
15.		6'0	6'4	9'0	7'1	2'8						0'3
16.		6'7	5'7	9'2	7'1	2'6						0'0
17.		5'7	6'4	8'7	7'0	2'4						
18.		6'9	10'5	8'5	7'0	2'3						
19.		6'7	8'0	8'2	6'10	2'0						
20.		7'3	7'2	8'1	6'7	1'10						
Mean.		5'11	7'3	8'10	7'4	2'7						
21.		9'6	6'10	8'3	6'5	1'8						
22.		7'5	6'6	8'5	6'4	1'7						
23.		7'7	6'1	8'7	6'1	1'5						
24.		8'4	5'10	7'10	6'0	1'4						
25.		8'0	5'9	7'7	5'11	1'3						1'4
26.		7'4	5'7	7'9	5'10	1'2						1'0
27.		7'4	5'6	7'10	5'9	1'1						0'11
28.		6'6	5'4	7'9	5'7	1'1						1'3
29.			6'0	7'6	5'5	1'0						2'2
30.			6'4	9'10	5'4	0'11						2'4
31.			7'11		5'2							2'4
Mean.		7'9	6'1	8'1	5'10	1'3						
Monthly Mean.		5'6	6'9	8'6	7'7	2'9						
Max.		9'6	10'5	11'3	10'11	5'0	0'10					
Date.		21	18	7	1	1	1					
Min.		1'1	5'0	7'1	5'2	0'11						
Date.		1	10	1	31	30						

RIVER: RUIJI  
 STATION: COMBE-UTETE  
 STATION NO:  
 YEAR: 1952

Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3'6	2'7	12'2	9'11	11'9	8'7	2'5	0'0	-0'11	-1'3	-1'7	
2.	3'4	2'6	11'1	12'4	11'10	8'5	2'4	-0'1	-0'11	-1'3	-1'7	
3.	3'5	2'5	9'7	12'11	11'10	8'3	2'3	-0'1	-0'11	-1'3	-1'7	
4.	4'7	2'5	8'3	13'0	11'9	8'0	2'1	-0'2	-1'0	-1'3	-1'7	
5.	5'2	2'4	7'3	12'7	12'0	7'10	2'0	-0'2	-1'0	-1'3	-1'7	
6.	6'3	2'4	6'10	12'1	13'0	7'6	1'10	-0'3	-1'0	-1'3	-1'8	
7.	5'9	2'4	6'5	11'7	13'6	7'4	1'9	-0'3	-1'0	-1'3	-1'8	
8.	5'7	4'6	7'9	11'9	13'10	7'1	1'8	-0'3	-1'0	-1'2	-1'8	
9.	5'5	2'7	7'2	12'5	14'0	6'10	1'7	-0'4	-1'0	-1'2	-1'9	
10.	4'11	2'5	6'9	12'5	14'2	6'8	1'6	-0'4	-1'1	-1'0	-1'9	
Mean.	4'9	2'8	8'4	12'1	12'9	7'8	1'11	-0'2	-1'0	-1'3	-1'8	
11.	4'4	2'11	8'7	11'10	14'3	6'5	1'4	-0'5	-1'1	-1'0	-1'9	
12.	3'11	3'6	8'8	11'6	14'2	6'3	1'3	-0'5	-1'1	-1'1	-1'9	
13.	3'9	3'4	9'7	12'2	14'0	6'0	1'2	-0'5	-1'1	-1'2	-1'10	
14.	3'10	4'10	10'3	11'5	13'11	5'9	1'0	-0'6	-1'1	-1'3	-1'10	
15.	4'7	3'7	11'1	11'0	13'9	5'6	1'0	-0'6	-1'1	-1'3	-1'10	
16.	5'5	4'3	10'6	10'10	13'7	5'2	0'11	-1'6	-1'1	-1'4		
17.	7'9	4'10	11'0	11'3	13'3	4'10	0'10	-0'7	-1'2	-1'4		
18.	6'5	5'4	10'9	12'6	13'1	4'7	0'9	-0'7	-1'2	-1'4		
19.	5'1	4'6	9'6	13'2	12'9	4'4	0'8	-0'7	-1'2	-1'4		
20.	4'10	9'10	8'3	13'4	12'9	4'2	0'7	-0'7	-1'2	-1'4		
Mean.	5'0	4'8	9'10	11'11	13'6	5'3	0'11	-0'6	-1'1	-1'3		
21.	4'5	8'5	7'7	13'4	12'3	4'0	0'7	-0'8	-1'2	-1'5		
22.	4'4	8'8	7'10	13'4	11'10	3'9	0'6	-0'8	-1'2	-1'5		
23.	3'11	9'11	7'6	13'0	11'5	3'7	0'5	-0'8	-1'2	-1'6		
24.	3'6	9'9	7'2	12'10	11'3	3'5	0'4	-0'8	-1'2	-1'6		
25.	3'3	10'9	7'1	13'1	10'10	3'3	0'4	-0'9	-1'2	-1'6		
26.	3'2	9'10	6'10	13'3	10'6	3'2	0'3	-0'9	-1'2	-1'6		
27.	3'0	8'6	8'4	13'1	10'1	3'0	0'2	-0'9	-1'2	-1'6		
28.	2'11	10'6	7'7	12'7	9'9	2'10	0'1	-0'9	-1'2	-1'7		
29.	2'10	11'2	7'10	12'3	9'6	2'8	0'1	-0'10	-1'2	-1'7		
30.	2'9		8'10	11'10	9'2	2'7	0'1	-0'10	-1'2	-1'7		
31.	2'7		8'7		8'10		0'0	-0'11		-1'7		
Mean.	3'4	9'9	7'9	12'10	10'6	3'3	0'3	-0'9	-1'2	-1'6		
Monthly Mean.	4'4	5'7	8'7	12'3	12'3	5'5	1'0	-0'6	-1'1	-1'4		
Max.	7'9	11'2	12'2	13'4	14'3	8'7	2'5	0'0	-0'11	-1'3	-1'7	
Date.	17	29	1	22	11	1	1	1	3	7	5	
Min.	2'7	2'4	6'5	9'11	8'10	2'7	0'0	-0'11	-1'2	-1'7		
Date.	31	7	7	1	31	30	31	31	30	31		

RIVER: RUFUJI  
 STATION: EOMBS-UTETE  
 STATION NO:  
 YEAR: 1953

Water level in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.				0'1	3'10	3'3	-0'11	-1'8				
2.				0'2	3'9	3'0	-0'11	-1'8				
3.				0'4	3'9	2'11	-0'11	-1'9				
4.				2'9	4'7	2'10	-0'11	-1'9				
5.				2'6	4'6	2'7	-0'11	-1'9				
6.				3'0	4'7	2'4	-1'0	-1'9				
7.				1'10	4'8	2'2	-1'0	-1'10				
8.				1'7	4'5	2'0	-1'1	-1'10				
9.				2'11	4'9	1'9	-1'1	-1'10				
10.				2'6	5'7	1'7	-1'1	-1'10				
Mean.				1'9	4'5	2'5	-1'0	-1'9				
11.				2'1	5'10	1'4	-1'1	-1'10				
12.				1'10	6'0	1'2	-1'2	-1'11				
13.				1'5	5'8	1'0	-1'2	-1'0				
14.				1'3	5'4	0'10	-1'2					
15.			0'5	1'3	4'10	0'6	-1'3					
16.			0'7	1'3	4'7	0'3	-1'3					
17.			0'5	1'6	4'7	0'0	-1'4					
18.			0'4	1'6	4'7	-0'1	-1'4					
19.			0'9	2'0	4'6	-0'3	-1'4					
20.			1'3	2'4	5'1	-0'4	-1'5					
Mean.				1'8	5'1	0'5	-1'3					
21.			0'0	2'9	5'1	-0'5	-1'5					
22.			0'2	3'2	4'8	-0'6	-1'6					
23.			0'2	4'5	4'6	-0'7	-1'6					
24.			0'3	5'4	4'5	-0'8	-1'6					
25.			0'3	4'4	4'4	-0'8	-1'7					
26.			0'4	4'3	4'3	-0'9	-1'7					
27.			0'8	4'11	4'3	-0'9	-1'7					-2'5
28.			0'6	4'8	4'1	-0'9	-1'7					-2'3
29.			0'6	4'4	3'10	-0'10	-1'7					-2'7
30.			0'5	4'0	3'8	-0'10	-1'8					-1'0
31.			0'8		3'6		-1'8					2'0
Mean.			0'5	4'2	4'3	-0'8	-1'7					
Monthly Mean.				2'7	4'7	0'9	-1'3					
Max.				5'4	6'0	3'3	-0'11	-1'8				
Date.				24	12	1	5	2				
Min.				0'1	3'6	-0'10	-1'8					
Date.				1	31	30	31					



RIVER: RUFUJI  
 STATION: ZOMBE-UTETE  
 STATION NO:  
 YEAR: 1954

Water level in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.10	6'7	10'1	4'9	3'11	2'1						
2.	3'10	6'0	8'0	4'1	4'0	1'11						
3.	1'7	4'8	7'4	3'10	3'10	1'9						
4.	1'4	3'10	5'7	3'5	3'10	1'6						
5.	6'2	3'1	4'6	3'1	3'10	1'4						
6.	5'3	2'10	7'1	3'1	3'7	1'3						
7.	4'5	2'3	7'10	2'10	3'4	1'0						
8.	3'4	1'10	8'10	2'7	3'3	0'10						
9.	3'0	1'7	8'10	2'7	3'3	0'9						
10.	4'10	1'3	6'2	2'9	3'1	0'7						
Mean.	3'7	3'4	7'5	3'3	3'7	1'3						
11.	3'4	1'1	5'7	2'9	3'0	0'6						
12.	1'11	1'0	5'4	2'8	3'0	0'3						
13.	1'9	1'4	5'0	2'7	3'0							
14.	1'10	1'1	4'10	2'11	3'2							
15.	1'11	0'10	5'3	3'7	3'1							
16.	2'3	0'11	6'7	3'7	3'0							
17.	2'3	1'1	5'0	4'0	3'0							
18.	2'4	1'4	5'6	3'6	3'1							
19.	2'2	1'3	4'9	3'3	2'11							
20.	2'0	1'4	4'10	3'1	2'10							
Mean.	2'2	1'2	5'3	3'2	3'0							
21.	2'2	1'1	4'4	3'1	2'10							
22.	3'0	1'6	6'4	3'0	2'9							
23.	2'5	1'4	6'6	2'10	2'9							
24.	2'2	1'10	5'10	2'11	2'11							
25.	2'2	2'8	4'4	2'10	3'0							
26.	2'1	3'8	3'11	3'0	3'0							
27.	2'1	2'4	4'0	3'11	2'9							
28.	5'3	5'0	5'5	3'7	2'7							
29.	5'0		7'10	3'9	2'5							
30.	3'9		5'10	3'7	2'4							
31.	7'3		5'6		2'3							
Mean.	3'5	2'5	5'5	3'3	2'7							
Monthly												
Mean.	3'3	2'3	6'0	3'3	3'1							
Max.	7'3	6'7	10'1	4'9	4'0	2'1						
Date.	31	1	1	1	2	1						
Min.	1'4	0'10	3'11	2'7	2'3							
Date.	4	15	26	13	31							

RIVER: RUFIJI  
 STATION: ECEBE-UTETE  
 STATION NO:  
 YEAR: 1955

## Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.			4'3	6'5	8'7	7'3	1'10					
2.			6'6	6'6	8'10	7'0	1'9					
3.			6'6	7'10	10'0	6'9	1'8					
4.			9'7	8'5	10'10	6'4	1'6					
5.			8'4	7'10	10'9	6'0	1'4					
6.		0'8	7'3	8'1	11'0	5'10	1'3					
7.		3'2	7'6	8'1	11'6	5'7	1'2					
8.		2'6	6'3	6'11	12'8	5'4	1'0					
9.		1'4	6'3	7'0	12'7	5'1	0'9					
10.		1'1	5'2	9'6	12'4	4'11	0'7					
Mean.			6'9	7'8	10'11	6'0	1'3					
11.		0'8	4'6	8'8	11'11	4'9	0'4					
12.		2'2	4'0	8'1	11'6	4'5	0'2					
13.		7'8	3'6	7'4	11'1	4'4	0'2					
14.		4'10	3'3	7'8	10'9	4'2	0'2					
15.		6'2	2'11	8'1	10'6	3'11						
16.		8'3	3'2	9'7	10'1	3'10						
17.		4'9	3'0	10'0	9'9	3'10						
18.		3'8	3'1	10'10	9'4	3'10						
19.		8'2	3'2	11'3	9'0	3'9						
20.		9'9	2'9	10'8	8'9	3'7						
Mean.		5'7	3'4	9'2	10'3	4'1						
21.		9'3	2'6	9'9	8'7	3'5						
22.		7'6	3'3	9'0	8'4	3'3						
23.		5'10	2'8	9'2	8'3	3'1						
24.		5'1	3'0	9'3	8'1	3'11						
25.		6'0	2'8	9'3	8'1	2'10						
26.		6'0	2'7	8'9	7'10	2'7						
27.		4'9	2'4	8'6	7'10	2'5						
28.		4'6	2'10	8'3	7'9	2'4						
29.			2'10	8'4	7'7	2'2						
30.			3'8	8'4	7'7	2'0						
31.			3'6		7'6							
Mean.		6'1	2'11	8'10	7'11	2'10						
Monthly Mean.		4'11	4'3	8'7	9'8	4'3						
Max.		9'9	9'7	11'3	12'8	7'3	1'10					
Date.		20	4	19	8	1	1					
Min.			2'4	6'5	7'6	2'0						
Date.			27	1	31	30						



RIVER: RUPJI  
 STATION: LPANGANYA  
 STATION NO:  
 YEAR: 1926

## Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-1'0		1'6	5'8	7'5	4'6	0'11	0'4	-0'6	-0'8	-1'0	-0'9
2.	-1'0		2'8	6'3	7'9	4'3	0'10	0'3	-0'6	-0'8	-1'0	-0'9
3.	-1'0		2'11	6'0	8'0	4'2	0'10	0'3	-0'6	-0'8	-1'0	-0'9
4.	-1'0		3'0	6'5	8'0	4'0	0'9	0'0	-0'6	-0'8	-1'0	-0'9
5.	-1'0		2'10	6'3	7'8	3'10	0'9	-0'3	-0'6	-0'8	-1'0	-0'9
6.	-1'0		2'10	6'3	7'10	3'8	0'8	-0'3	-0'6	-0'9	-1'0	-0'9
7.	-1'0		2'8	6'11	8'2	3'4	0'8	-0'3	-0'6	-0'9	-1'0	-0'9
8.	-1'0		2'6	6'0	8'0	3'3	0'8	-0'3	-0'6	-0'8	-1'0	-0'9
9.	-1'0		2'6	6'4	8'0	3'3	0'7	-0'3	-0'6	-0'8	-1'0	-0'9
10.	-1'0		2'0	6'0	7'11	3'2	0'7	-0'3	-0'6	-0'8	-1'0	-0'9
Mean	-1'0		2'7	6'3	7'11	3'9	0'9	-0'1	-0'6	-0'8	-1'0	-0'9
11.	-1'0		2'0	6'0	7'8	3'1	0'7	-0'3	-0'6	-0'8	-1'0	-0'10
12.	-0'9		2'0	6'4	7'6	3'0	0'6	-0'3	-0'6	-0'8	-0'9	-0'10
13.	-0'8		2'0	6'0	7'5	2'10	0'5	-0'3	-0'6	-0'9	-0'8	-0'10
14.	-0'8		2'0	6'2	7'5	2'8	0'5	-0'3	-0'6	-0'9	-0'8	-0'10
15.	-0'8		2'0	6'6	7'0	2'7	0'4	-0'3	-0'6	-0'9	-0'8	-0'10
16.	-0'8		2'3	6'8	7'3	2'5	0'4	-0'3	-0'6	-0'9	-0'8	-0'10
17.	-0'9	1'0	2'3	7'0	7'6	2'3	0'4	-0'3	-0'6	-0'9	-0'9	-0'10
18.	-0'9	0'11	1'10	7'9	6'9	2'2	0'4	-0'3	-0'6	-0'9	-0'9	-0'10
19.	-0'9	0'10	2'0	6'8	6'8	2'0	0'4	-0'3	-0'6	-0'9	-0'9	-1'0
20.	-0'9	0'10	2'8	6'4	6'3	1'10	0'4	-0'3	-0'7	-0'9	-0'9	-1'0
Mean	-0'9		2'1	6'6	7'2	2'5	0'5	-0'3	-0'6	-0'9	-0'9	-0'10
21.	-0'9	0'11	2'9	6'5	6'2	1'9	0'4	-0'3	-0'7	-0'9	-0'9	-1'0
22.	-0'9	1'0	2'9	6'3	5'11	1'8	0'4	-0'3	-0'8	-0'9	-0'9	-1'0
23.	-0'9	1'3	2'11	6'3	5'9	1'6	0'4	-0'3	-0'8	-0'9	-0'9	-1'0
24.	-0'9	0'11	3'2	6'3	5'7	1'5	0'4	-0'3	-0'7	-0'10	-0'9	-0'8
25.	-0'9	0'10	4'3	6'5	5'6	1'4	0'4	-0'3	-0'7	-0'10	-0'9	-0'7
26.	-0'9	2'10	4'8	6'4	5'5	1'3	0'4	-0'4	-0'7	-0'10	-0'9	-0'6
27.	-0'9	1'9	4'11	6'3	5'2	1'2	0'4	-0'4	-0'7	-0'11	-0'9	-0'6
28.	-0'9	1'2	4'9	6'2	5'0	1'2	0'4	-0'4	-0'8	-0'11	-0'9	-0'6
29.	-0'9		4'9	6'11	4'10	1'1	0'4	-0'5	-0'8	-0'11	-0'9	3'0
30.	-0'9		5'5	7'4	4'9	1'0	0'4	-0'6	-0'8	-1'0	-0'9	1'0
31.	-0'9		6'0		4'6		0'4	-0'6		-1'0		1'0
Mean	-0'9	1'4	4'2	6'6	5'4	1'4	0'4	-0'4	-0'8	-1'0	-0'9	-0'1
Monthly Mean	-0'10		3'0	6'4	6'9	2'6	0'6	-0'3	-0'7	-0'9	-0'10	-0'7
Max.	-0'8		6'0	7'9	8'2	4'6	0'11	0'4	-0'6	-0'8	-0'8	3'0
Date.	16		31	18	7	1	1	1	19	12	16	29
Min.	-1'0		1'6	5'8	4'6	1'0	0'4	-0'6	-0'8	-1'0	-1'0	-1'0
Date.	11		1	1	31	30	31	31	30	31	11	23

RIVER: RUFJI  
STATION: LPANGANJA  
STATION NO:  
YEAR: 1927

Water in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1'3	4'5	1'0	2'9	6'3	5'0	2'3	0'3	-0'5	-0'9	-0'11	-1'3
2.	0'9	4'0	1'9	5'0	6'3	5'0	2'3	0'2	-0'5	-0'9	-1'2	-1'1
3.	0'8	3'6	2'6	3'6	5'9	4'9	1'10	0'1	-0'5	-0'10	-1'2	-1'1
4.	0'6	3'0	4'6	3'6	5'9	4'9	1'10	0'1	-0'5	-0'10	-1'2	-1'1
5.	0'9	2'6	3'0	3'8	5'9	4'6	1'9	0'1	-0'5	-0'10	-1'3	-1'1
6.	1'0	2'6	3'3	4'1	5'6	3'9	1'9	0'2	-0'5	-0'10	-1'3	-1'1
7.	1'0	2'3	3'9	3'8	5'6	3'9	1'6	0'2	-0'5	-0'10	-1'3	-1'1
8.	1'6	2'0	3'3	4'9	5'6	3'9	1'6	0'2	-0'5	-0'11	-1'3	-1'1
9.	2'6	2'0	3'9	4'5	5'6	3'6	1'4	0'2	-0'5	-0'11	-1'3	-1'0
10.	2'0	1'9	3'3	4'7	5'3	3'6	1'4	0'2	-0'6	-0'11	-1'3	-1'0
Mean	1'2	2'11	2'11	4'0	5'8	4'3	1'9	0'2	-0'5	-0'10	-1'2	-1'1
11.	2'0	1'9	3'9	4'6	5'3	3'5	1'3	0'2	-0'6	-0'11	-1'3	-1'0
12.	4'0	2'0	3'6	5'5	5'3	3'5	1'3	0'2	-0'6	-0'11	-1'4	-1'0
13.	2'6	2'3	3'0	5'10	5'3	3'5	1'3	0'2	-0'6	-0'11	-1'4	-1'0
14.	5'3	2'0	2'10	7'3	5'3	3'4	0'10	0'2	-0'7	-0'11	-1'4	-1'1
15.	6'0	1'9	2'9	6'9	5'3	3'4	0'10	-0'1	-0'7	-0'11	-1'4	-1'1
16.	10'0	2'0	3'6	6'6	5'3	3'3	0'9	-0'1	-0'7	-0'11	-1'4	-1'1
17.	10'0	2'6	4'0	6'9	6'1	3'1	0'9	-0'1	-0'7	-1'0	-1'4	-1'1
18.	8'0	2'9	3'4	7'1	5'6	3'0	0'9	-0'1	-0'7	-1'0	-1'4	-1'2
19.	6'0	2'3	3'6	6'9	5'6	3'0	0'8	-0'1	-0'8	-1'0	-1'4	-1'0
20.	6'0	2'6	3'10	5'1	5'4	3'0	0'6	-0'1	-0'8	-1'0	-1'4	-1'0
Mean	6'1	2'2	3'5	6'4	5'5	3'3	1'0	0'0	-0'7	-0'11	-1'4	-1'1
21.	6'0	2'9	3'4	6'6	5'4	3'0	0'6	-0'2	-0'8	-1'0	-1'5	-0'7
22.	4'9	2'9	3'3	7'0	5'4	2'9	0'4	-0'2	-0'8	-1'0	-1'5	-0'9
23.	3'9	2'6	3'3	8'0	5'4	2'9	0'4	-0'2	-0'8	-1'0	-1'5	-0'9
24.	3'3	2'3	3'8	8'0	5'3	2'9	0'3	-0'2	-0'8	-1'0	-1'5	-0'9
25.	3'6	2'0	3'10	7'9	5'3	2'9	0'3	-0'3	-0'9	-1'0	-1'5	-0'2
26.	3'10	1'9	3'4	7'0	5'3	2'6	0'3	-0'3	-0'9	-1'0	-1'5	-0'3
27.	3'5	1'9	3'9	6'6	5'1	2'6	0'3	-0'3	-0'9	-1'0	-1'5	1'11
28.	4'3	1'6	3'6	6'6	5'1	2'6	0'3	-0'3	-0'9	-1'0	-1'5	1'9
29.	4'10		3'3	6'0	5'1	2'4	0'3	-0'4	-0'9	-1'0	-1'5	1'9
30.	5'0		3'0	6'3	5'1	2'3	0'3	-0'4	-0'9	-1'0	-1'3	1'7
31.	5'6		2'10		5'0		0'3	-0'5		-1'0		1'6
Mean	4'4	2'2	3'4	6'11	5'2	2'7	0'4	-0'3	-0'9	-1'0	-1'5	0'6
Monthly Mean	3'11	2'5	3'3	5'7	5'5	3'4	1'2	0'0	-0'7	-0'11	-1'4	-0'6
Max.	10'0	4'5	4'6	8'0	6'3	5'0	2'3	0'3	-0'5	-0'9	-0'11	1'11
Date.	17	1	4	24	2	2	2	1	9	2	1	27
Min.	0'6	1'6	1'0	2'9	5'0	2'3	0'3	-0'5	-0'9	-1'0	-1'5	-1'3
Date.	4	28	1	1	31	30	31	31	30	31	29	1

RIVER: RUFJI  
 STATION: MPANGANYA  
 STATION NO:  
 YEAR: 1928

## Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1'5	0'3	1'11	5'8	6'8	4'5	1'3	-0'3	-0'11	-1'4	-1'6	-1'6
2.	1'3	0'11	3'3	5'8	6'8	4'3	1'2	-0'3	-0'11	-1'4	-1'7	-1'6
3.	2'9	0'3	4'9	5'10	6'6	4'2	1'1	-0'4	-0'11	-1'4	-1'7	-1'7
4.	1'0	0'3	4'9	6'3	6'10	4'0	1'0	-0'4	-0'11	-1'3	-1'3	-1'7
5.	0'10	0'2	4'6	6'5	8'0	3'9	0'11	-0'4	-1'0	-1'3	-1'3	-1'8
6.	0'10	0'3	4'11	6'9	8'3	3'8	0'11	-0'5	-1'0	-1'3	-1'4	-1'8
7.	0'10	0'2	6'0	6'11	7'9	3'6	0'10	-0'5	-1'0	-1'3	-1'4	-1'8
8.	0'9	0'2	8'3	7'9	7'8	3'4	0'10	-0'5	-1'0	-2'3	-1'4	-1'8
9.	0'8	0'2	7'0	7'0	7'6	3'3	0'9	-0'5	-1'0	-1'3	-1'4	-1'9
10.	0'8	0'2	6'7	6'9	7'2	3'2	0'8	-0'6	-1'1	-1'3	-1'4	-1'9
Mean	1'1	0'3	5'2	6'6	7'3	3'9	0'11	-0'4	-1'0	-1'3	-1'5	-1'8
11.	0'8	0'2	6'5	6'4	7'0	3'0	0'8	-0'6	-1'1	-1'3	-1'5	-1'9
12.	0'10	0'2	6'9	7'3	6'10	2'10	0'7	-0'6	-1'1	-1'4	-1'5	-1'10
13.	0'9	0'2	6'9	6'8	6'9	2'8	0'7	-0'7	-1'1	-1'4	-1'5	-1'10
14.	0'6	0'2	6'8	7'0	6'8	2'6	0'6	-0'7	-1'1	-1'4	-1'6	-1'10
15.	0'7	0'2	7'6	7'0	6'5	2'5	0'5	-0'7	-1'2	-1'4	-1'6	-1'10
16.	0'8	0'2	7'6	7'3	6'4	2'4	0'4	-0'8	-1'2	-1'4	-1'6	-1'11
17.	0'8	0'3	5'6	7'3	6'3	2'3	0'4	-0'8	-1'2	-1'5	-1'5	-1'11
18.	0'6	0'3	5'0	9'0	6'3	2'3	0'3	-0'8	-1'2	-1'5	-1'5	-1'11
19.	0'6	0'3	4'6	9'2	6'3	2'2	0'3	-0'8	-1'2	-1'6	-1'5	-1'10
20.	0'4	0'9	4'5	8'4	6'0	2'0	0'2	-0'9	-1'3	-2'7	-1'5	-1'10
Mean	0'7	0'3	6'1	7'6	6'6	2'5	0'5	-0'7	-1'2	-1'5	-1'5	-1'7
21.	0'4	1'0	4'5	8'0	5'10	1'11	0'2	-0'9	-1'3	-1'7	-1'5	-1'10
22.	0'4	1'11	4'4	7'3	5'9	1'10	0'2	-0'9	-1'3	-1'8	-1'5	0'9
23.	0'3	1'3	4'2	7'3	5'6	1'10	0'1	-0'9	-1'4	-1'8	-1'1	0'9
24.	0'3	1'9	4'2	7'0	5'6	1'9	0'0	-0'9	-1'4	-1'8	-1'2	-1'1
25.	0'2	1'7	4'6	6'11	5'4	1'8	-0'1	-0'10	-1'4	-1'8	-1'2	-0'11
26.	0'2	2'8	5'6	6'9	5'3	1'7	-0'1	-0'10	-1'4	-1'9	-1'3	-0'11
27.	0'2	2'6	5'5	6'6	5'2	1'7	-0'2	-0'10	-1'4	-1'9	-1'4	-0'9
28.	0'2	2'3	5'7	6'6	5'0	1'6	-0'2	-0'10	-1'4	-1'9	-1'5	-0'9
29.	0'3	2'10	5'10	6'7	4'11	1'5	-0'3	-0'10	-1'4	-1'9	-1'5	-0'9
30.	0'2		5'11	6'4	4'9	1'4	-0'3	-0'10	-1'4	-1'9	-1'6	-0'8
31.	0'3		5'6		4'6		-0'3	-0'11		-1'8		-0'8
Mean	0'3	2'0	5'0	6'11	5'4	1'8	-0'1	-0'10	-1'4	-1'8	-1'4	-0'7
Monthly Mean	0'11	0'9	5'5	7'0	6'4	2'7	0'5	-0'7	-1'2	-1'6	-1'4	-1'3
Max.	2'9	2'10	8'3	9'2	8'3	4'5	1'3	-0'3	-0'11	-1'3	-1'1	0'9
Date.	3	29	8	19	6	1	1	2	4	11	23	23
Min.	0'2	0'2	1'11	5'8	4'6	1'4	-0'3	-0'11	-1'4	-1'9	-1'7	-1'11
Date.	30	16	1	2	31	30	30	31	30	30	3	18

RIVER: RUFJI  
 STATION: MPANGANYA  
 STATION NO:  
 YEAR: 1929

Water level in feet and inches

Date.	Jan.	Feb.	Mch.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-0'8	1'4	-0'1	2'8	4'9	1'0	-0'7	-1'1	-1'7	-2'1	-2'6	-2'8
2.	-1'6	1'4	-0'0	3'6	4'7	0'9	-0'7	-1'1	-1'7	-2'2	-2'7	-2'8
3.	-1'3	1'3	-0'2	2'6	4'6	0'6	-0'9	-1'1	-1'7	-2'2	-2'7	-2'8
4.	-1'4	1'3	-0'4	2'6	4'5	0'5	-0'9	-1'2	-1'7	-2'2	-2'7	-2'9
5.	0'1	1'2	-0'5	2'1	4'4	0'4	-0'10	-1'2	-1'8	-2'2	-2'7	-2'9
6.	0'3	1'0	-0'6	1'10	4'3	0'3	-0'10	-1'2	-1'8	-2'2	-2'7	-2'9
7.	1'7	1'0	-0'5	1'11	4'3	0'0	-0'10	-1'2	-1'8	-2'2	-2'7	-2'9
8.	0'6	1'0	-0'0	2'6	4'0	0'0	-1'0	-1'2	-1'9	-2'2	-2'6	-2'9
9.	1'0	0'9	0'5	3'9	4'0	-0'2	-1'0	-1'2	-1'9	-2'3	-2'6	-2'9
10.	1'9	0'9	0'9	6'4	3'11	-0'2	-1'0	-1'3	-1'9	-2'3	-2'6	-2'9
Mean	0'1	1'1	-0'1	3'0	4'3	0'4	-0'10	-1'2	-1'8	-2'2	-2'7	-2'9
11.	1'9	0'8	1'0	8'9	3'11	-0'3	-1'0	-1'3	-1'9	-2'3	-2'6	-2'9
12.	1'6	0'8	0'9	8'10	3'9	-0'3	-1'0	-1'3	-1'9	-2'3	-2'6	-2'9
13.	1'0	0'8	0'2	9'6	3'8	-0'3	-1'0	-1'3	-1'9	-2'3	-2'6	-2'9
14.	1'3	2'0	1'0	8'0	3'6	-0'3	-1'0	-1'3	-1'9	-2'3	-2'6	-2'9
15.	1'0	0'9	2'10	8'0	3'3	-0'3	-1'0	-1'3	-1'9	-2'3	-2'6	-2'9
16.	0'9	0'6	1'2	7'3	3'2	-0'3	-1'1	-1'3	-1'10	-2'3	-2'6	-2'9
17.	0'8	0'4	1'0	6'9	3'0	-0'3	-1'0	-1'3	-1'10	-2'3	-2'6	-2'9
18.	0'8	0'3	1'4	7'9	2'11	-0'3	-1'1	-1'3	-1'10	-2'4	-2'6	-2'0
19.	0'6	0'2	1'2	8'3	2'11	-0'4	-1'1	-1'3	-1'10	-2'4	-2'6	-2'3
20.	0'6	0'2	1'0	7'5	2'9	-0'4	-1'1	-1'3	-1'10	-2'4	-2'6	-2'3
Mean	0'12	0'7	1'2	8'0	3'3	-0'3	-1'0	-1'3	-1'10	-2'3	-2'6	-2'7
21.	0'7	-0'1	2'4	6'6	2'7	-0'4	-1'1	-1'4	-1'10	-2'5	-2'6	-2'6
22.	0'7	-0'1	1'8	6'0	2'5	-0'4	-1'1	-1'5	-1'10	-2'5	-2'7	-2'6
23.	1'0	-0'1	1'2	5'8	2'2	-0'4	-1'1	-1'6	-1'11	-2'5	-2'7	-2'6
24.	1'0	-0'1	0'10	5'4	2'0	-0'4	-1'1	-1'6	-1'11	-2'5	-2'7	-2'6
25.	1'0	0'3	1'0	5'0	1'11	-0'4	-1'1	-1'6	-1'11	-2'5	-2'7	-2'6
26.	1'9	-0'1	1'0	5'1	1'9	-0'5	-1'1	-1'6	-1'11	-2'6	-2'7	-2'6
27.	1'7	-0'1	1'0	5'0	1'8	-0'6	-1'1	-1'6	-2'0	-2'6	-2'7	-2'3
28.	1'6	-0'1	1'6	4'11	1'6	-0'6	-1'1	-1'7	-2'0	-2'6	-2'8	-2'0
29.	1'6		2'9	4'10	1'3	-0'7	-1'1	-1'7	-2'1	-2'6	-2'8	-1'3
30.	1'5		2'9	4'10	1'2	-0'7	-1'1	-1'7	-2'1	-2'6	-2'8	-0'10
31.	1'5		1'6		1'1		-1'1	-1'7		-2'6		-0'8
Mean	1'2	-0'1	1'7	5'4	1'9	-0'5	-1'1	-1'6	-2'0	-2'5	-2'7	-2'0
Monthly Mean	0'9	0'7	0'11	5'5	3'1	-0'2	-1'0	-1'4	-1'10	-2'4	-2'6	-2'5
Max.	1'9	2'0	2'9	9'6	4'9	1'0	-0'7	-1'1	-1'7	-2'1	-2'6	-0'8
Date.	26	14	30	13	1	1	2	3	4	1	21	31
Min.	-1'6	-0'1	-0'6	1'10	1'1	-0'7	-1'1	-1'7	-2'1	-2'6	-2'8	-2'9
Date	2	28	6	6	31	30	31	31	30	31	30	17

RIVER: SUFEJI  
STATION: IEMHAWA  
STATION NO:  
YEAR: 1930

Water level in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-1'4	3'3	6'0	12'8	12'3	5'6	1'9	0'2				
2.	-1'4	3'3	6'0	12'9	12'0	5'4	1'9	0'2				
3.	-1'0	4'6	6'5	12'11	11'9	5'0	1'9	0'2				
4.	-1'0	7'9	7'0	12'11	11'9	4'10	1'6	0'1				
5.	-0'9	6'0	6'6	12'11	11'8	4'8	1'6	0'1				
6.	-0'9	6'0	7'0	12'11	11'4	4'6	1'3	0'1				
7.	2'6	7'9	7'0	12'11	11'0	4'3	1'3	0'1				
8.	2'4	9'6	8'0	12'9	10'9	4'0	1'3	0'1				
9.	1'3	9'6	8'0	12'9	10'6	3'9	1'3	0'1				
10.	1'6	9'9	9'0	12'8	10'3	3'9	1'3	0'1				
Mean.	0'2	6'9	7'1	12'10	11'4	4'7	1'5	0'1				
11.	2'0	10'3	10'0	12'7	10'0	3'6	1'0	0'1				
12.	2'6	11'0	10'6	12'6	9'9	3'3	1'0	-0'3				
13.	3'0	10'6	11'0	12'5	9'7	3'3	0'10	-0'3				
14.	3'6	11'6	11'9	12'5	9'6	3'0	0'10	-0'3				
15.	6'0	12'0	12'2	12'3	9'6	3'0	0'9	-0'3				
16.	3'9	11'9	12'4	12'3	9'3	2'9	0'8	-0'3				
17.	2'6	10'9	12'4	12'0	9'3	2'9	0'8	-0'3				
18.	1'9	10'0	12'8	12'3	9'0	2'6	0'6	-0'3				
19.	1'9	9'0	12'11	12'3	8'9	2'6	0'6	-0'6				
20.	2'0	8'5	13'0	12'3	8'6	2'6	0'4	-0'6				
Mean.	2'11	10'6	11'10	12'4	9'4	2'11	0'9	-0'3				
21.	2'3	8'5	13'0	12'0	8'5	2'6	0'4	-0'6				
22.	3'0	8'0	13'0	11'9	8'0	2'3	0'4	-0'6				
23.	2'0	7'6	12'9	11'6	7'9	2'3	0'4	-0'6				
24.	3'0	7'6	12'8	11'6	7'6	2'3	0'3	-0'6				
25.	3'0	7'0	12'8	11'6	7'3	2'0	0'3	-0'6				
26.	3'0	6'6	12'7	11'9	7'0	2'0	0'3	-0'9				
27.	3'0	6'0	12'9	12'0	6'6	2'0	0'2	-0'9				
28.	3'0	6'0	12'10	12'5	6'0	1'9	0'2	-0'9				
29.	3'0		12'10	12'8	6'0	1'9	0'2	-0'9				
30.	3'0		12'10	12'6	5'9	1'9	0'2	-0'9				
31.	3'0		12'9		5'9		0'2	-0'9				
Mean.	2'10	7'1	12'9	11'11	6'11	2'1	0'3	-0'8				
Monthly Mean.	2'0	8'2	11'0	12'4	9'1	3'2	0'9	-0'3				
Max.	6'0	12'0	13'0	12'11	12'3	5'6	1'9	0'2				
Date.	15	15	22	7	1	1	3	3				
Min.	-1'4	3'3	6'0	11'6	5'9	1'9	0'2	-0'9				
Date	2	2	2	25	31	30	31	31				



RIVER: RUFUJI  
 STATION: LPANGANYA  
 STATION NO:  
 YEAR: 1931

Water level in feet and inches

Date.	Jan.	Feb.	Mch.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2'9	-1'9	-0'9	4'10	7'3	2'0		0'8	-1'0	-1'6	-2'8	2'8
2.	2'8	-1'9	-0'6	4'2	7'5	2'0		0'6	-1'0	-1'6	-2'8	2'9
3.	2'9	-1'11	-0'11	3'8	7'6	1'9		0'5	-1'0	-1'5	-2'8	2'9
4.	2'7	-1'11	-0'9	3'5	7'3	1'7		0'5	-1'1	-1'6	-2'8	3'0
5.	2'6	-1'10	-0'0	3'10	7'0	1'4		0'2	-1'2	-1'4	-2'7	2'8
6.	2'5	-1'11	0'9	4'3	7'0	1'2	Sand Bank	0'1	-1'2	-1'5	-2'7	2'6
7.	2'4	-1'11	1'0	5'0	7'3	1'0		0'0	-1'2	-1'6	-2'6	2'5
8.	2'0	-2'0	2'9	6'0	7'0	0'9		0'0	-1'2	-1'7	-2'5	2'4
9.	1'9	-2'3	3'8	6'10	6'10	0'7		0'0	-1'2	-1'8	-2'0	1'9
10.	1'8	-2'3	2'11	7'0	6'9	0'4		-0'1	-1'2	-1'9	-1'11	1'8
Mean	2'4	-1'11	0'10	4'11	7'1	1'3		0'3	-1'1	-1'6	-2'6	2'5
11.	1'5	-2'3	3'4	7'3	6'3	0'3		-0'1	-1'2	-1'9	-1'10	1'7
12.	1'3	-2'3	4'6	8'0	5'9	0'1		-0'3	-1'3	-2'0	-1'8	1'8
13.	1'0	-2'3	3'9	8'4	5'4	0'0		-0'3	-1'3	-2'0	-1'6	1'9
14.	0'9	-2'3	4'0	8'0	5'3	-0'9		-0'3	-1'3	-2'0	-1'2	1'6
15.	0'6	-2'3	3'3	7'9	5'0	-0'7		-0'4	-1'3	-2'4	-1'0	1'0
16.	0'5	-2'2	6'0	7'8	5'0	-0'5	Sand Bank	-0'5	-1'3	-2'6	-1'0	1'0
17.	0'4	-2'0	6'6	7'9	5'0	-0'3		-0'6	-1'3	-2'7	-0'11	1'0
18.	0'3	-1'10	5'10	7'3	4'6	-0'2		-0'7	-1'3	-2'8	-0'9	
19.	0'1	-1'5	6'1	8'9	4'3	-0'1		-0'7	-1'3	-2'9	-0'8	
20.	0'1	-1'5	5'6	8'9	4'0	-1'0		-0'8	-1'4	-3'0	-0'7	
Mean	0'7	-2'0	4'11	7'11	5'0	-0'4		-0'5	-1'3	-2'4	-1'1	
21.	-0'0	-1'6	4'7	8'6	3'10	-0'9		-0'9	-1'4	-3'0	-0'6	
22.	-0'2	-1'7	4'6	8'2	3'9	-0'7		-0'9	-1'4	-3'0	-0'5	
23.	-0'3	-2'0	4'3	7'10	3'8	-0'5		-0'10	-1'4	-2'9	1'0	
24.	-0'5	-2'0	4'1	8'0	3'7	-0'5		-0'9	-1'5	-2'8	0'6	
25.	-0'6	-1'3	4'9	8'5	3'6	-0'1	Sand Bank	-0'10	-1'5	-2'9	0'9	
26.	-0'6	-1'6	4'7	8'3	3'3	-2'0		-0'11	-1'5	-3'0	1'0	
27.	-0'7	-1'0	5'6	7'9	3'0	-2'0		-0'11	-1'5	-3'0	2'0	
28.	-0'8	-1'0	5'10	7'4	3'0	-2'0		-1'0	-1'5	-3'0	2'4	
29.	-0'9		5'8	7'0	2'8	-2'0		-1'0	-1'6	-3'0	2'5	
30.	-1'0		6'6	7'0	2'4	-3'0		-1'0	-1'6	-2'9	2'8	
31.	-1'0		6'2		2'2			-1'0		-2'9		
Mean	-0'7	-1'6	5'1	7'10	3'2	-1'4		-0'11	-1'5	-2'11	1'2	
Monthly Mean	0'9	-1'10	3'6	6'11	5'1	-0'1		-0'4	-1'3	-2'3	-0'10	
Max.	2'9	2'3	6'6	8'9	7'6	2'0		0'8	-1'0	-1'4	2'8	
Date.	3	15	30	20	3	2		1	3	5	30	
Min.	-1'0	-1'0	-0'11	3'5	2'2	-3'0		-1'0	-1'6	-3'0	-2'8	
Date	31	28	3	4	31	30		31	30	29	4	

RIVER: RUPUJI  
 STATION: KPANGANYA  
 STATION NO:  
 YEAR: 1932

Water in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-0'3	-0'3	-1'2	6'6	9'6	3'9	0'6	-0'11	-2'0	-3'0	-3'6	-2'9
2.	-1'3	-1'3	1'6	6'6	9'9	3'6	0'5	-1'0	-2'0	-3'0	-3'5	-2'8
3.	-0'8	-0'6	1'6	8'0	9'6	3'5	0'5	-1'0	-2'1	-3'1	-3'5	-3'0
4.	-0'10	-0'6	1'9	7'0	9'6	3'0	0'5	-1'0	-2'1	-3'1	-3'4	-3'0
5.	-0'6	-0'4	1'6	6'3	9'0	3'0	0'0	-1'0	-2'1	-3'2	-3'3	-3'1
6.	-0'4	-0'9	0'3	6'3	8'0	2'9	0'0	-1'2	-2'2	-3'2	-3'4	-3'1
7.	-0'3	-0'9	0'0	7'6	7'9	2'9	-0'2	-1'2	-2'2	-3'2	-3'4	-3'0
8.	40'9	-0'6	-1'6	8'0	7'6	2'7	-0'2	-1'2	-2'2	-3'3	-3'5	-3'0
9.	-0'6	-0'6	-1'0	8'0	7'0	2'6	-0'3	-1'3	-2'3	-3'2	-3'0	-3'2
10.	-0'6	0'1	-1'0	7'6	6'9	2'6	-0'3	-1'3	-2'3	-3'2	-3'2	-3'2
Mean.	-0'5	-0'6	0'2	7'2	8'5	3'0	-0'1	-1'1	-2'2	-3'2	-3'4	-3'0
11.	-0'6	0'0	-1'1	8'0	6'6	2'3	-0'3	-1'3	-2'4	-3'2	-3'0	-3'3
12.	-0'1	0'6	-1'3	7'6	6'6	2'0	-0'4	-1'4	-2'4	-3'2	-3'0	-3'3
13.	-0'0	1'0	-1'0	7'9	6'4	2'0	-0'5	-1'4	-2'4	-3'3	-3'0	-3'3
14.	0'6	1'6	-1'0	7'10	6'0	1'9	-0'5	-1'4	-2'4	-3'4	-3'0	-3'3
15.	0'1	1'0	-1'0	8'0	5'9	1'6	-0'5	-1'5	-2'5	-3'4	-3'0	-3'2
16.	1'6	0'6	1'6	8'4	5'7	1'3	-0'6	-1'5	-2'5	-3'4	-3'0	-3'2
17.	0'1	0'3	0'6	8'2	5'7	1'3	-0'6	-1'6	-2'6	-3'4	-2'9	-3'2
18.	0'6	0'0	0'6	9'3	5'6	1'0	-0'6	-1'6	-2'6	-3'4	-2'9	-3'3
19.	0'3	-0'3	0'3	9'0	5'6	1'0	-0'6	-1'6	-2'6	-3'5	-3'0	-3'3
20.	-0'0	-0'6	0'0	9'0	5'0	1'0	-0'7	-1'7	-2'6	-3'5	-3'1	-3'0
Mean.	0'3	0'5	-0'3	8'3	5'10	1'6	-0'5	1'5	-2'5	-3'4	-3'0	-3'2
21.	-0'3	-0'9	0'9	9'6	5'0	1'0	-0'7	-1'7	-2'7	-3'6	-3'1	-3'1
22.	-0'6	-0'9	-0'0	9'3	5'0	1'0	-0'7	-1'8	-2'7	-3'6	-3'2	-3'2
23.	-0'9	-1'0	0'9	8'0	4'6	0'9	-0'8	-1'8	-2'8	-3'7	-3'6	-3'3
24.	-0'9	-1'0	2'6	7'3	4'6	0'9	-0'8	-1'9	-2'8	-3'7	-3'7	-2'2
25.	-0'1	-1'0	2'3	6'9	4'6	0'8	-0'8	-1'9	-2'9	-3'7	-3'7	-2'0
26.	-0'1	-1'2	3'6	7'0	4'3	0'8	-0'8	-1'10	-2'9	-3'7	-3'7	-1'0
27.	-0'1	-1'0	6'3	7'0	4'3	0'7	-0'9	-1'10	-2'10	-3'8	-3'7	-0'2
28.	-1'2	-1'2	4'0	8'3	4'3	0'7	-0'9	-1'10	-2'11	-3'8	-3'8	-0'2
29.	-1'3	-1'3	5'0	8'3	4'3	0'6	-0'9	-1'10	-2'11	-3'7	-3'9	-0'0
30.	-1'9		5'3	9'0	4'3	0'6	-0'9	-1'10	-3'0	-3'7	-3'0	-0'0
31.	-1'9		5'6		4'0		-0'10	-2'0		-3'7		-0'0
Mean	-0'9	-1'0	3'3	8'1	4'5	0'8	-0'8	-1'9	-2'9	-3'7	-3'5	-1'6
Monthly Mean	-0'4	-0'4	1'2	7'10	2'11	1'9	-0'5	-1'5	-2'5	-3'4	-3'3	-2'6
Max.	1'6	1'6	6'3	9'6	9'9	3'9	0'6	-0'11	-2'0	-3'0	-2'9	0'0
Date	16	14	27	21	2	1	1	1	2	2	18	31
Min.	-1'9	-1'3	-1'6	6'3	4'0	0'6	-0'10	-2'0	-3'0	-3'8	-3'9	-3'3
Date	31	29	8	6	31	30	31	31	30	20	29	23

RIVER: MUKHI  
 STATION: KANGARUA  
 GAUGE NO:  
 YEAR: 1933

Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-1'0	2'3	4'0	7'0	5'9	1'6	-1'7	-2'6	-2'11		-3'9	-3'6
2.	-0'6	5'3	4'2	7'0	5'6	1'6	-1'7	-2'6	-2'11		-3'10	-3'6
3.	-0'0	4'0	4'3	6'6	5'6	1'4	-1'8	-2'6	-3'0		-3'10	4'0
4.	-0'3	4'3	4'2	6'6	5'0	1'3	-1'8	-2'6	-3'0		-3'10	-4'0
5.	-0'3	8'3	4'3	6'0	4'6	1'0	-1'9	-2'6	-3'0		-3'10	-4'2
6.	-0'3	9'3	4'3	6'3	4'6	0'11	-1'9	-2'6	-3'0		-3'10	-3'10
7.	-0'3	8'0	4'11	7'3	4'6	0'9	-1'10	-2'6	-3'0		-3'10	-3'11
8.	-0'0	8'6	5'3	7'3	4'9	0'6	-1'10	-2'6	-3'0		-3'11	-3'11
9.	0'0	3'0	5'0	7'0	4'3	0'3	-1'11	-2'6	-3'0		-3'11	-3'10
10.	0'1	2'6	6'3	7'0	4'0	0'3	-1'11	-2'6	-3'0		-3'11	-3'10
Mean	-0'3	6'9	4'8	6'9	4'10	0'11	-1'9	-2'6	-3'0		-3'10	-3'10
11.	0'0	8'3	6'5	6'6	4'0	0'0	-1'11	-2'6	-3'0		-3'11	-3'6
12.	0'0	6'6	5'9	5'6	3'3	0'0	-2'0	-2'6	-3'0		-3'11	-3'6
13.	0'0	6'3	4'3	5'9	3'9	-0'9	-2'0	-2'7	-3'1		-3'11	-3'5
14.	0'1	5'6	3'9	6'0	4'0	-0'8	-2'0	-2'7	-3'1		-3'11	-3'5
15.	0'0	5'0	3'3	8'9	4'3	-0'6	-2'0	-2'7	-3'1		-3'11	-3'5
16.	-1'0	4'6	3'6	8'3	4'3	-0'6	-2'0	-2'7	-3'1		-3'11	-3'3
17.	-1'6	4'0	6'6	9'0	4'3	-0'3	-2'1	-2'7	-3'2		-3'11	-3'3
18.	-1'6	4'0	6'0	8'3	4'0	-0'3	-2'1	-2'8	-3'2		-4'0	-3'4
19.	-0'6	3'9	5'3	9'0	4'0	-1'0	-2'1	-2'8	-3'2		-4'0	-3'0
20.	1'0	3'6	5'6	8'6	3'6	-1'0	-2'2	-2'8	-3'2		-3'9	-3'6
Mean	-0'4	5'1	5'0	7'7	3'11	-0'6	-2'0	-2'7	-3'1		-3'11	-3'4
21.	-2'0	4'3	5'7	8'3	3'3	-1'0	-2'2	-2'8	-3'3		-3'9	-3'0
22.	-1'2	4'9	5'9	8'3	3'0	-1'0	-2'2	-2'9	-3'3		-3'10	-3'1
23.	-1'8	5'0	5'6	7'9	3'0	-1'1	-2'3	-2'9	-3'3		-3'10	-3'2
24.	0'6	5'1	6'6	7'0	2'9	-1'2	-2'3	-2'9	-3'3		-3'11	-3'2
25.	1'0	4'2	6'3	6'0	2'6	-1'3	-2'3	-2'9	-3'3		-3'0	-3'3
26.	-1'3	4'6	5'0	6'6	2'3	-1'3	-2'3	-2'9	-3'3		-3'1	-3'3
27.	-1'0	4'2	6'6	6'3	2'2	-1'4	-2'4	-2'10	-3'3		-3'3	-3'4
28.	-1'6	4'0	6'3	6'9	2'6	-1'4	-2'4	-2'10	-3'4		-3'3	-3'4
29.	-1'6		6'6	7'6	2'0	-1'6	-2'5	-2'10	-3'4		-3'4	-3'6
30.	1'0		7'0	7'0	2'0	-1'6	-2'5	-2'10	-3'4		-3'4	-3'4
31.	1'0		7'3		1'9		-2'5	-2'11				-3'4
Mean	-0'7	4'6	6'2	7'1	2'6	-1'3	-2'4	-2'9	-3'3		-3'6	-3'3
Monthly Mean	-0'5	5'6	5'4	7'2	3'8	-0'11	-2'0	-2'8	-3'3		-3'9	-3'6
Max.	1'0	9'3	7'3	9'0	5'9	1'6	-1'7	-2'6	-2'11		-3'0	-3'0
Date	31	6	31	19	1	2	2	12	2		25	21
Min.	-2'0	2'3	4'0	5'6	2'9	-1'6	-2'5	-2'11	-3'4		-4'0	-4'2
Date	21	1	1	12	31	31	31	31	30		19	5

RIVER: RUFJI  
 STATION: MARGANIYA  
 STATION NO:  
 YEAR: 1934

Level in feet and inches

Date.	Jan.	Feb.	Mch.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-3'6	3'6	4'3	4'3	7'6	5'6	2'6	0'1	-3'4	-2'6	-1'9	-2'9
2.	-3'6	4'0	6'6	4'0	7'6	6'0	2'6	0'0	-3'4	-2'5	-1'8	-2'6
3.	-3'9	4'3	5'6	4'11	7'3	5'9	2'6	0'0	-3'4	-2'5	-1'8	-1'6
4.	-3'8	4'0	5'6	4'3	7'3	5'3	2'6	-1'10	-3'4	-2'5	-1'8	-1'3
5.	-3'6	4'3	4'3	5'6	7'0	5'9	2'4	-1'9	-3'4	-2'5	-1'6	-1'3
6.	-3'6	4'6	3'9	5'6	7'3	5'9	2'3	-1'9	-3'5	-2'5	-1'6	-1'3
7.	-3'9	3'6	3'6	6'9	7'0	6'3	2'3	-1'8	-3'5	-2'5	-1'6	-1'3
8.	-3'9	2'6	5'0	8'9	7'0	5'9	2'3	-1'6	-3'5	-2'5	-1'7	-1'3
9.	-3'9	2'0	4'6	9'0	6'9	5'6	2'0	-1'6	-3'5	-2'4	-1'7	-1'0
10.	-3'8	1'9	4'3	8'9	6'9	5'6	2'0	-1'6	-3'5	-2'3	-1'8	-1'9
Mean	-3'8	3'5	4'8	6'2	7'1	5'8	2'4	-1'2	-3'5	-2'5	-1'7	-1'7
11.	-2'0	1'6	5'0	6'9	6'6	5'3	2'0	-1'4	-3'5	-2'3	-1'8	-1'6
12.	-2'6	1'3	6'0	6'0	6'6	5'0	1'9	-1'3	-3'6	-2'3	-1'8	-1'9
13.	-1'9	1'3	4'9	5'9	6'6	4'9	1'9	-1'3	-3'6	-2'3	-1'9	-1'6
14.	-1'6	1'3	4'3	5'6	6'6	4'6	1'8	-1'3	-3'6	-2'2	-1'9	-1'3
15.	0'6	1'6	4'3	5'3	6'6	4'4	1'6	-1'3	-3'6	-2'2	-1'9	-1'3
16.	0'3	2'0	6'0	5'6	7'3	4'3	1'6	-1'3	-3'6	-2'2	-1'10	-1'5
17.	-2'6	2'3	5'0	6'0	7'0	4'0	1'5	-1'2	-3'6	-2'2	-1'10	-1'3
18.	0'6	1'9	4'3	6'3	7'6	4'0	1'3	-1'2	-3'7	-2'0	-1'11	-1'3
19.	0'3	2'6	4'9	6'0	6'6	4'0	1'3	-1'2	-3'7	-2'0	-1'11	-1'6
20.	0'3	3'11	4'9	7'3	5'6	3'11	1'3	-1'1	-3'7	-2'0	-2'11	-1'9
Mean	-0'10	1'11	4'10	6'0	6'9	4'5	1'6	-1'2	-3'6	-2'2	-1'11	-1'5
21.	1'3	4'3	5'9	7'6	6'3	3'9	1'1	-1'1	-3'7	-2'0	-2'0	-1'9
22.	2'6	4'5	4'6	7'9	6'3	3'6	1'0	-1'0	-3'8	-2'0	-2'0	-1'9
23.	4'0	4'3	4'9	7'9	6'3	3'4	0'10	-1'0	-3'8	-2'0	-2'2	-1'6
24.	2'9	5'9	5'11	7'6	6'3	3'3	0'9	-1'0	-3'8	-2'0	-2'2	0'0
25.	5'6	5'9	6'6	7'6	6'0	3'3	0'8	-1'0	-3'8	-2'0	-2'2	0'0
26.	5'0	5'6	4'9	7'3	6'0	3'2	0'6	-1'0	-3'8	-2'0	-2'2	0'5
27.	7'6	5'0	4'6	7'0	5'10	3'0	0'6	-2'0	-3'7	-2'0	-2'6	0'6
28.	6'3	4'6	5'0	7'6	5'9	3'0	0'3	-2'11	-3'8	-2'0	-2'9	0'3
29.	5'0		5'3	7'6	6'3	2'9	0'3	-2'11	-3'8	-2'11	-2'9	0'3
30.	4'9		4'6	7'6	5'6	2'9	0'2	-2'10	-3'9	-2'10	-2'9	0'3
31.	4'3		4'5		5'6		0'2	-2'9		-2'10		0'3
Mean	4'5	4'11	5'2	7'6	6'0	3'2	0'7	-1'9	-3'8	-2'3	-2'4	-0'3
Monthly Mean	-1'1	3'4	4'11	6'7	6'7	4'5	1'5	-1'5	-3'10	-2'3	-1'11	-1'1
Max.	7'6	5'9	6'11	9'0	7'6	6'3	2'6	0'1	-3'4	-2'0	-1'6	0'6
Date.	27	25	24	9	18	7	4	1	5	28	7	27
Min.	-3'9	1'3	3'6	4'0	5'6	2'9	0'2	-2'11	-3'9	-2'11	-2'9	-2'9
Date.	9	14	7	2	31	30	31	29	30	29	30	1

RIVER: RUFUJI  
 STATION: MPANGANYA.  
 STATION NO:  
 YEAR: 1935

Measurements in feet and Inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0'3	1'3	9'6	9'6	0'4	0'10						-1'0
2.	0'6	1'3	9'1	10'11	0'3	0'8						-0'8
3.	1'3	1'0	8'0	12'0	0'2	0'6						-0'1
4.	3'9	1'0	8'3	12'0	0'6	0'5						-1'3
5.	1'6	1'0	9'0	12'6	0'9	0'8						-1'3
6.	1'0	0'9	9'6	12'0	0'10	0'9						-0'5
7.	1'9	0'9	9'1	11'6	1'1	0'7					-2'1	-0'9
8.	1'9	0'9	8'0	10'8	2'0	0'6		GAUGE			-2'2	-0'8
9.	1'9	1'0	10'0	9'11	2'6	0'5		DRY			-2'3	-0'11
10.	1'6	0'6	9'1	8'6	3'2	0'4					-2'3	-0'3
Mean.	1'6	0'11	8'11	10'11	1'2	0'7						-0'9
11.	1'3	1'6	8'2	8'0	3'0	0'3					-2'4	-0'8
12.	0'9	2'0	7'6	7'8	2'8	0'2					-2'4	-0'10
13.	1'3	2'6	6'8	6'9	2'0						-2'5	-0'10
14.	1'0	2'6	5'6	5'8	1'9						-2'4	-0'11
15.	0'9	2'6	7'2	4'9	1'2						-2'5	-0'10
16.	0'6	2'3	9'3	4'0	1'0						-2'5	-0'10
17.	0'6	2'0	10'6	3'8	0'11						-2'5	-0'7
18.	0'6	5'0	11'6	3'0	0'10			GAUGE			-2'0	-0'7
19.	0'6	3'0	12'3	2'8	0'9			DRY			-1'11	-0'6
20.	0'6	2'9	13'6	2'0	0'8						-1'6	-0'4
Mean.	0'9	2'7	9'2	4'10	1'6						-2'3	-0'8
21.	0'6	3'6	12'11	1'11	0'7						-2'0	-0'4
22.	0'6	5'6	11'6	1'6	0'6						-2'1	-0'4
23.	0'6	4'9	11'2	1'0	0'5						-1'8	-0'8
24.	0'5	4'0	10'6	0'11	0'4						-1'11	-0'8
25.	0'6	4'6	9'6	0'10	0'3						-2'0	-0'5
26.	0'7	5'0	9'6	0'9	0'11						-2'0	-0'8
27.	0'7	6'9	9'0	0'8	1'0						-1'11	1'3
28.	0'3	5'9	8'6	0'7	1'6			GAUGE			-2'0	1'9
29.	0'3		8'3	0'6	1'9			DRY			-1'3	2'0
30.	1'0		9'0	0'5	1'2						-1'8	3'9
31	3'3		9'8		1'0							3'0
Mean.	0'9	5'0	9'11	0'11	0'10						-1'10	0'9
Monthly Mean.	1'0	2'8	9'5	5'7	1'2							-0'5
Max.	3'9	6'9	13'6	12'6	3'2	0'10					-1'3	3'9
Date.	4	27	20	5	10	1					29	30
Min.	0'3	0'6	5'6	0'5	0'2							-1'3
Date.	29	10	14	30	3							5

RIVER: RUFJI  
 STATION: MPANGANYA  
 STATION NO:  
 YEAR: 1936

Measurements given in feet and  
 Inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2'10	10'10	10'3	10'4	12'10	7'5	1'8	0'7				
2.	2'7	9'8	9'8	10'0	12'9	7'0	1'7					
3.	2'11	8'4	9'5	9'9	12'8	6'6	1'7			-1'2		
4.	3'11	7'10	8'10	9'6	12'8	5'9	1'6					
5.	3'6	7'0	8'7	9'3	12'7	5'5	1'5		-0'1			
6.	2'10	6'6	8'0	9'0	12'7	5'2	1'5					
7.	2'3	6'0	7'10	8'9	12'6	4'11	1'4					
8.	2'3	5'5	7'6	8'6	12'6	4'8		0'3				
9.	2'1	5'2	7'0	8'3	12'5	4'6						
10.	3'8	4'10	8'0	8'0	12'5	4'3				-1'8		
Mean.	2'10	7'2	8'6	9'1	12'7	5'7						
11.	1'10	4'6	7'8	9'5	12'4	4'0						
12.	1'5	4'0	7'3	11'3	12'2	3'10			-0'2			
13.	2'6	3'11	7'0	11'9	12'0	3'7		0'3				
14.	2'10	3'6	6'6	12'2	12'0	3'5	2'0					
15.	2'5	6'8	8'0	12'8	11'11	3'4						
16.	2'3	6'9	10'0	13'4	11'9	3'2						
17.	2'1	6'6	11'10	13'7	11'8	3'0				-2'5		
18.	6'5	7'5	12'6	13'6	11'6	2'11	1'8					
19.	5'10	7'0	12'0	13'4	11'4	2'10			-0'5			
20.	5'3	6'6	13'0	13'1	11'2	2'8						
Mean.	3'3	5'8	9'7	12'5	11'9	3'3						
21.	5'8	8'3	13'2	12'11	11'0	2'6						
22.	5'5	9'0	13'0	12'10	10'10	2'5		-0'1				
23.	8'2	8'6	12'10	12'8	10'8	2'4						
24.	7'11	9'9	12'6	12'5	10'5	2'4				-2'10		
25.	6'11	10'6	12'3	12'2	10'0	2'2	1'4					
26.	9'3	10'8	12'0	12'0	9'8	2'0			-0'10			
27.	8'7	11'0	11'7	12'8	9'4	1'11						
28.	10'5	10'6	11'4	12'10	9'0	1'10						
29.	8'10	10'0	11'2	12'9	8'8	1'9						
30.	10'7		10'11	12'8	8'0	1'9				-4'0		
31.	11'4		10'8		7'9							
Mean.	8'6	9'9	11'11	12'7	9'7	2'1						
Monthly												
Mean.	5'0	7'6	10'1	11'5	11'3	3'8						
Max.	11'4	11'0	13'2	13'7	12'10	7'5						
Date.	31	27	21	17	1	1						
Min.	1'5	3'6	6'6	8'0	7'9	1'9						
Date.	12	14	14	10	31	30						

RIVER: RUFUJI  
 STATION: MPANGANYA  
 STATION NO:  
 YEAR: 1937

Water level in feet and inches

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1. Gauge)		3'0	4'0	9'1	10'3	6'0	3'2					
2. Dry )		3'10	3'8	8'11	10'1	6'0	3'2					
3. " )		3'7	3'4	8'7	10'0	6'0	3'0					
4. 2'4		3'8	3'4	8'3	10'0	5'11	3'0					
5. 3'10		3'6	3'0	9'1	9'10	5'11	3'0					
6. 3'3		3'10	3'10	8'11	9'8	5'11	2'10					
7. 3'10		3'8	4'2	9'8	9'4	5'9	2'10					
8. 2'10		3'6	4'11	10'8	9'0	5'9	2'10					
9. 2'4		3'10	4'0	10'8	8'6	5'7	2'8					
10. 3'10		3'6	6'8	10'2	8'4	5'7	2'8					
Mean.		3'7	4'1	9'5	9'6	5'10	2'11					
11. 6'0		3'11	5'4	9'10	8'4	5'6	2'8					
12. 6'9		4'3	8'7	10'4	8'2	5'9	2'6					
13. 6'0		3'11	7'2	12'5	9'4	5'5	2'6					
14. 5'4		3'8	8'1	12'1	9'8	5'4	2'6					
15. 4'3		4'5	7'9	11'11	9'5	5'2	2'6					
16. 3'10		4'0	8'1	11'9	9'10	5'0	2'5					
17. 5'9		3'9	11'2	12'8	9'8	5'0	2'5					
18. 7'0		5'0	11'6	12'6	9'6	4'10	2'5					
19. 6'2		4'2	10'7	12'0	9'4	4'8	2'4					
20. 6'0		3'10	10'2	12'0	9'0	4'6	2'4					
Mean.	5'8	4'1	8'10	11'9	9'3	5'1	2'5					
21. 5'6		3'8	12'3	11'10	8'8	4'4	2'4					
22. 4'10		3'6	12'11	11'10	8'6	4'2	2'4					
23. 4'6		3'4	12'8	11'6	8'4	4'0	2'3					
24. 4'0		3'4	11'10	11'4	8'0	4'0	2'3					
25. 3'8		3'2	10'11	11'2	7'8	3'8	2'3					
26. 3'5		3'2	10'6	10'11	7'4	3'6	2'3					
27. 3'5		3'0	10'0	10'8.	7'0	3'4	2'2					
28. 3'3		4'6	9'8	10'8	6'10	3'4	2'2					
29. 3'1			9'4	11'0	6'8	3'4	2'1					
30. 3'0			9'1	10'8	6'6	3'2	2'1					
31. 3'0			9'3		6'3		2'1					
Mean.	3'9	3'5	10'9	11'2	7'5	3'9	2'2					
Monthly Mean.	4'4	3'9	8'0	10'9	8'8	4'11	2'6					
Max.	7'0	5'0	12'11	12'8	10'3	6'0	3'2					
Date.	18	18	22	17	1	3	2					
in.		3'0	3'0	8'3	6'3	3'2	2'1					
Date.		27	5	4	31	30	31					

RIVER: RUFIJI  
 STATION: MWANGANYA  
 STATION NO:  
 YEAR: 1938

Water level in feet and inches.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0'5	0'5	3'0	7'5	6'2	5'2						
2.	0'5	0'5	2'6	7'8	6'0	5'0						
3.	0'4	0'5	2'4	7'6	5'9	4'9						
4.	0'4	0'8	2'1	7'6	5'9	4'5						
5.	0'4	0'8	1'9	7'5	5'7	4'2						
6.	0'4	0'7	1'7	7'5	5'7	4'0						
7.	0'4	2'6	1'5	6'8	5'9	3'10						
8.	0'4	2'6	1'5	6'3	5'8	3'9						
9.	0'4	2'5	1'3	6'0	5'7	3'7						
10.	0'5	2'4	1'3	5'8	5'6	3'5						
Mean.	0'4	1'3	1'10	6'11	5'9	4'2						
11.	0'5	2'4	1'1	5'6	5'5	3'1						
12.	0'5	2'3	0'9	5'6	5'3	3'0						
13.	0'5	2'2	0'8	5'7	5'3	2'11						
14.	0'6	2'5	0'7	5'8	5'3	2'8						
15.	0'6	2'7	0'5	5'8	6'3	2'6						
16.	0'5	3'0	4'5	6'2	6'0	2'4						
17.	0'5	2'10	1'5	6'5	5'10	2'3						
18.	0'5	2'8	5'10	7'0	6'0	2'2						
19.	0'5	2'6	4'3	7'5	5'9	2'1						
20.	0'5	2'8	3'0	8'2	5'8	2'0						
Mean.	0'5	2'6	2'3	6'4	5'8	2'6						
21.	0'4	2'8	4'2	8'7	5'4	1'10						
22.	0'5	3'5	5'7	8'8	5'5	1'9						
23.	0'7	3'10	4'1	9'5	5'5	1'9						
24.	0'5	3'6	3'7	8'9	5'8	1'8						
25.	0'5	3'4	3'4	8'2	5'7	1'6						
26.	0'7	3'3	3'4	7'8	5'9	1'6						
27.	0'6	3'2	3'0	7'5	5'8	1'5						
28.	0'6	3'0	3'1	7'2	5'10	1'4						
29.	0'6		4'6	6'8	5'7	1'3						
30.	0'7		7'7	6'6	5'5	1'2						
31.	0'7		7'3		5'4							
Mean.	0'6	3'3	4'6	6'10	5'6	1'6						
Monthly Mean.	0'5	2'4	2'11	7'1	5'8	2'9						
Max.	0'7	3'10	7'7	9'5	6'3	5'2						
Date.	31	23	30	23	15	1						
Min.	0'4	0'5	0'5	5'6	5'3	1'2						
Date.	21	3	15	12	14	30						



RIVER: YONI  
STATION: MADIZINI  
STATION NO: IKA.1  
YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.20	5.00	5.20	4.70	5.50	6.50	5.60	7.30	4.90	4.90	4.30	4.50
2.	5.20	5.00	5.10	4.50	5.40	6.30	5.70	5.50	4.80	4.90	4.20	4.50
3.	5.20	5.30	5.00	4.50	5.60	5.70	5.60	5.50	4.80	4.90	4.70	4.50
4.	5.20	5.00	5.20	6.30	7.70	5.60	5.60	5.50	4.80	4.90	4.60	4.50
5.	5.20	6.20	5.00	9.70	6.10	5.50	5.60	5.40	4.80	4.90	5.00	4.50
6.	5.20	5.10	5.00	5.20	5.40	5.50	5.60	5.40	4.70	5.00	5.70	4.50
7.	5.20	5.00	5.00	5.10	5.50	5.50	5.60	5.40	4.70	4.90	4.80	4.50
8.	5.20	5.00	5.00	5.30	5.40	5.50	5.60	5.40	4.70	4.90	4.80	4.40
9.	5.20	5.00	5.00	7.70	5.40	5.50	5.60	5.40	4.70	4.90	4.80	4.40
10.	5.20	6.50	5.00	5.40	5.40	5.60	5.60	5.40	4.70	4.90	4.80	4.40
Mean.	5.20	5.31	5.05	5.84	5.74	5.72	5.61	5.62	4.76	4.91	4.77	4.47
11.	5.20	5.30	4.90	5.20	5.30	5.60	7.40	5.40	4.70	4.90	4.70	4.40
12.	6.40	5.20	4.90	5.30	5.30	5.50	6.90	5.40	4.70	4.80	4.70	4.40
13.	6.10	6.30	4.90	6.40	5.30	5.50	6.70	5.40	4.70	4.80	4.70	4.60
14.	5.40	9.50	4.90	5.30	5.30	5.50	6.50	5.40	4.70	4.80	4.70	4.70
15.	5.30	5.10	4.90	5.30	5.30	5.60	6.20	5.30	4.70	4.80	4.70	4.60
16.	5.20	5.00	4.90	7.80	5.30	8.20	6.10	5.20	4.70	4.70	4.70	6.00
17.	5.20	5.20	4.90	6.30	5.20	5.60	5.80	5.10	4.70	4.80	6.00	5.40
18.	5.30	5.10	4.90	5.20	5.20	5.60	5.70	5.00	4.80	4.80	4.90	5.30
19.	5.20	5.30	4.90	5.20	5.20	5.50	5.70	5.00	4.80	4.80	4.90	7.10
20.	5.20	5.20	4.90	5.20	7.70	5.50	5.60	5.00	4.80	4.80	4.80	6.80
Mean.	5.45	5.72	4.90	5.72	5.51	5.91	6.26	5.22	4.73	4.80	4.88	5.33
21.	5.20	5.00	4.80	5.30	7.60	5.50	5.60	5.00	4.80	4.70	4.80	6.60
22.	5.20	5.10	4.70	5.30	9.00	5.40	5.60	5.00	4.80	4.70	4.80	7.00
23.	5.20	5.20	4.60	5.40	7.50	5.40	5.50	5.00	4.80	4.70	4.90	9.40
24.	6.30	5.00	4.40	5.30	6.50	5.40	5.50	5.00	4.70	4.70	5.00	6.50
25.	7.70	5.00	8.20	5.30	6.50	5.30	5.50	4.90	4.70	4.70	4.70	6.40
26.	8.30	5.00	6.30	5.30	7.00	5.80	5.50	4.90	6.60	5.50	4.60	6.30
27.	5.50	5.00	6.10	5.30	6.50	5.70	5.50	4.90	6.10	5.20	4.70	5.90
28.	5.20	5.10	8.80	8.00	5.30	5.70	5.40	4.90	5.90	4.70	4.60	5.70
29.	5.20		5.80	5.40	6.50	5.70	5.40	4.90	5.80	4.60	4.50	5.50
30.	5.20		5.20	5.40	6.60	5.70	5.40	4.90	5.70	4.60	4.50	9.00
31.	5.10		4.90		6.50		5.40	4.90		4.40		6.10
Mean.	5.33	5.05	5.80	5.33	7.30	5.56	5.48	4.93	5.39	4.77	4.71	6.76
Monthly Mean.	5.50	5.38	5.27	5.63	6.15	5.73	5.77	5.25	4.96	4.83	4.78	5.56
Max.	8.30	9.50	8.80	9.70	9.00	8.20	7.40	7.30	6.60	5.50	6.00	9.40
Date.	26	14	28	5	22	16	11	1	26	26	17	23
Min.	5.10	5.00	4.40	4.50	5.20	5.30	5.40	4.90	4.70	4.40	4.20	4.40
Date	31	27	24	2,3	19	25	31	31	25	31	2	12

RIVER: YOVI  
STATION: MADIZINI  
STATION NO: IKA.1  
YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.60	9.80	6.10	6.10	8.60	5.60	5.90	5.30	5.00	4.50	4.10	
2.	5.50	7.60	6.00	6.00	8.50	5.60	5.60	5.30	5.00	4.50	4.10	
3.	5.60	6.30	9.70	6.10	8.30	5.60	5.60	5.30	5.00	4.50	4.10	
4.	5.60	6.20	6.60	6.70	8.10	5.60	5.60	5.30	5.00	4.50	4.10	
5.	5.70	6.20	6.30	6.60	8.20	5.60	5.60	5.20	5.00	4.40	5.90	
6.	5.70	6.00	6.20	6.90	8.00	5.50	5.60	5.20	5.00	4.40	7.20	
7.	5.70	6.00	6.10	6.70	7.60	5.50	5.60	5.20	5.00	4.40	8.70	
8.	5.70	6.00	6.10	6.50	7.30	5.50	5.60	5.20	5.00	4.40	7.60	
9.	5.70	6.00	6.10	6.60	6.20	5.50	5.60	5.20	5.00	4.40	6.50	
10.	5.70	6.00	6.00	6.50	6.10	5.50	5.60	5.20	4.90	4.30	5.90	
Mean.	5.65	6.61	6.52	6.47	7.69	5.55	5.63	5.24	4.99	4.43	5.82	
11.	5.60	6.00	6.0 <sup>0</sup>	6.80	6.00	5.40	5.50	5.10	4.90	4.30	5.60	
12.	5.60	6.10	6.00	6.60	6.00	5.40	5.50	5.10	4.90	4.30	5.40	
13.	5.60	6.10	6.00	6.40	5.90	5.40	5.50	5.10	4.90	4.30	5.40	
14.	5.90	6.00	6.20	6.30	5.70	5.40	5.50	5.10	4.90	4.30	5.30	
15.	5.80	6.00	6.20	6.20	5.70	5.40	5.50	5.10	4.90	4.30	5.20	
16.	5.70	6.00	6.20	6.20	5.90	5.30	5.50	5.10	4.90	4.30	5.20	
17.	5.90	6.40	6.10	6.20	5.80	5.30	5.50	5.10	4.70	4.30	5.20	
18.	5.80	6.40	6.10	6.30	5.70	5.30	5.50	5.10	4.60	4.30	5.20	
19.	5.90	6.30	6.00	6.70	5.70	5.30	5.50	5.10	4.60	4.30	5.70	
20.	5.90	6.30	6.30	6.10	5.50	5.30	5.50	5.10	4.60	4.30	5.60	
Mean.	5.77	6.16	6.11	6.38	5.79	5.35	5.50	5.10	4.79	4.30	5.38	
21.	5.80	6.20	6.10	6.00	5.40	5.20	5.50	5.10	4.50	4.30	5.70	
22.	5.80	6.20	6.00	6.00	5.40	5.20	5.60	5.10	4.50	4.20	5.50	
23.	5.90	6.10	6.00	5.70	5.40	5.20	5.60	5.00	4.50	4.20	5.30	
24.	6.00	6.10	6.10	5.60	5.80	5.20	5.60	5.00	4.50	4.20	5.20	
25.	6.20	6.10	6.10	5.90	5.70	5.20	5.50	5.00	4.50	4.20	4.90	
26.	6.10	6.20	6.00	7.80	5.70	5.30	5.50	5.00	4.60	4.20	4.90	
27.	6.10	6.20	6.00	10.20	5.90	5.30	5.50	5.00	4.60	4.10	4.90	
28.	6.10	6.30	6.10	9.90	5.80	5.30	5.30	5.00	4.50	4.10	4.80	
29.	6.00	6.20	6.10	9.70	6.10	5.30	5.20	5.00	4.50	4.10	4.70	
30.	6.20		6.00	8.80	5.80	5.30	5.20	5.00	4.50	4.10	4.70	
31.	6.10		6.00		5.90		5.20	5.00		4.10		
Mean.	6.03	6.18	6.05	7.56	5.72	5.25	5.43	5.02	4.52	4.16	5.06	
Monthly												
Mean.	5.82	6.32	6.22	6.80	6.38	5.38	5.55	5.12	4.77	4.29	5.42	
Max.	6.20	9.80	9.70	10.20	8.60	5.60	5.90	5.30	5.00	4.50	8.70	
Date	30	1	3	27	1	5	1	4	9	4	7	
Min.	5.82	6.32	6.22	6.80	6.38	5.38	5.39	5.12	4.77	4.29	5.42	
date	2	16	31	24	23	25	31	31	30	31	4	

RIVER: YOVI  
 STATION: MADIZINI  
 STATION NO: IKA.1  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.30	6.50	4.90	4.80	5.10	4.70	4.70	4.50	4.80	3.70	3.60	3.20
2.	6.20	6.30	4.90	5.90	5.00	4.70	4.70	4.50	4.80	3.70	3.60	3.20
3.	5.90	6.30	4.80	6.30	5.20	4.80	4.70	4.50	4.80	3.70	3.40	3.20
4.	5.80	6.40	4.70	6.40	5.20	4.80	4.70	4.40	4.80	3.60	3.40	3.20
5.	5.60	6.40	4.50	6.50	5.00	4.70	4.70	4.40	4.70	3.60	3.30	3.20
6.	5.60	6.30	4.50	6.60	5.00	4.80	4.60	4.40	4.70	3.50	3.30	3.20
7.	5.60	6.20	4.40	6.60	5.00	4.80	4.60	5.80	4.70	3.50	3.30	3.20
8.	5.60	6.20	4.40	6.10	5.10	4.70	4.60	5.50	4.60	3.50	3.20	3.40
9.	5.50	6.30	4.40	5.90	5.00	4.70	4.60	5.40	4.60	3.50	3.20	3.70
10.	5.50	6.30	4.40	5.90	5.00	4.70	4.60	5.40	4.60	3.40	3.60	3.70
Mean.	5.76	6.32	4.59	6.10	5.06	4.74	4.65	4.88	4.71	3.57	3.39	3.32
11.	5.50	6.30	4.30	5.70	5.00	4.70	4.60	5.40	4.50	3.40	3.60	3.90
12.	5.50	6.30	4.50	6.60	5.00	4.70	4.60	5.40	4.50	3.30	3.40	3.80
13.	4.90	6.60	4.40	6.70	4.90	4.70	4.60	5.30	4.50	3.30	3.40	3.80
14.	4.90	6.40	4.40	6.50	4.90	4.70	4.60	5.30	4.50	3.30	3.30	3.70
15.	4.90	6.20	4.80	6.40	4.90	4.70	4.50	5.30	4.20	3.20	3.30	3.70
16.	4.70	6.20	4.60	10.50	4.90	4.60	4.50	5.30	4.00	3.20	3.30	3.50
17.	4.50	6.20	4.60	9.90	4.90	4.60	4.50	5.30	4.00	3.20	3.30	3.50
18.	4.50	5.00	4.50	8.10	4.90	4.60	4.50	5.30	3.70	3.20	3.30	3.70
19.	4.30	5.90	4.50	8.00	4.90	4.60	4.50	5.20	3.70	3.20	3.40	3.70
20.	4.90	5.90	4.80	7.50	4.90	4.60	4.50	5.20	3.50	3.10	3.60	3.80
Mean.	4.86	6.10	4.54	7.59	4.92	4.65	4.54	5.30	4.11	3.24	3.39	3.71
21.	4.90	5.80	4.70	6.40	4.90	4.60	4.40	5.20	3.50	3.10	3.60	3.80
22.	4.60	5.80	4.50	8.60	4.80	4.60	4.40	5.20	3.50	3.10	3.80	3.60
23.	4.40	5.70	4.50	5.90	4.80	4.60	4.40	5.20	3.30	3.10	3.70	3.60
24.	4.40	5.70	4.40	5.60	4.80	4.60	4.40	5.10	3.30	3.10	3.70	3.50
25.	4.40	5.50	4.40	9.80	4.80	4.50	4.40	5.10	5.00	3.10	3.50	3.30
26.	6.50	5.20	4.90	7.70	4.80	4.50	4.40	5.00	4.80	3.00	3.50	3.30
27.	6.50	5.10	4.90	6.40	4.80	4.50	4.40	5.00	4.60	3.00	3.30	3.60
28.	6.60	5.10	4.60	5.20	4.80	4.50	4.40	5.00	4.00	3.80	3.30	3.60
29.	6.50		4.50	5.10	4.70	4.50	4.60	5.00	3.70	3.90	3.20	3.80
30.	6.30		4.50	5.10	4.70	4.50	4.60	4.80	3.70	3.70	3.20	4.60
31.	6.30		4.50		4.70		4.60	4.80		3.70		4.80
Mean.	5.58	5.49	4.58	6.58	4.78	4.54	4.45	5.04	3.94	3.33	3.48	3.60
Monthly Mean.	5.40	6.00	4.57	6.75	4.92	4.64	4.54	5.07	4.25	3.38	3.42	3.61
Max.	6.60	6.60	4.90	10.50	5.20	4.80	4.70	5.30	5.00	3.90	3.80	4.80
Date.	28	13	1-2 26,27	16	3-4	6,7	1-5	7	25	29	22	31
Min.	4.30	5.00	4.30	4.80	4.70	4.50	4.40	4.40	3.30	3.00	3.20	3.20
Date.	19	18	11	1	29-31	25-30	21-28	4-6	23,24	26,27	8,9,29	1-8



RIVER : LITTLE RUAHA  
 STATION : IRINGA D/S GAUGE  
 NO : IKA.2  
 YEAR : 1955

Date	Jan.	Feb.	Mch.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.40	6.65	(5.50)	7.92	6.94	5.72	4.62	4.00	3.30	2.84	2.22	3.20
2.	4.10	6.80	5.90	9.46	7.02	5.62	4.60	4.00	3.22	2.90	2.20	3.30
3.	4.10	6.65	5.75	9.80	7.10	5.50	4.60	4.00	3.20	2.74	2.10	3.30
4.	4.00	6.25	7.06	9.82	7.10	5.38	4.60	4.00	3.20	2.70	2.10	3.30
5.	4.40	6.00	8.16	9.90	7.30	5.22	4.60	3.92	3.24	2.70	2.10	2.48
6.	4.30	5.40	8.21	10.00	7.22	5.16	4.52	3.82	3.24	2.70	2.10	2.30
7.	4.20	5.30	8.36	9.80	7.22	5.10	4.50	3.80	3.20	2.70	2.10	2.14
8.	4.05	5.40	7.92	9.42	7.32	5.00	4.50	3.72	3.20	2.70	2.10	2.10
9.	3.55	5.50	7.44	9.16	7.12	5.00	4.50	3.70	3.20	2.60	2.30	2.10
10.	3.50	5.40	6.95	9.20	7.00	4.98	4.44	3.62	3.12	2.60	2.30	2.00
Mean	4.06	5.93	7.12	9.45	7.13	5.27	4.55	3.86	3.21	2.72	2.16	2.62
11.	3.35	5.43	6.38	9.14	6.74	4.90	4.40	3.68	3.10	2.60	2.26	2.04
12.	3.40	5.30	6.02	8.94	6.46	4.90	4.32	3.62	3.10	2.52	2.12	2.00
13.	3.40	5.45	6.32	9.02	6.20	4.82	4.30	3.60	3.00	2.50	2.10	2.10
14.	3.50	7.65	6.96	9.32	6.00	4.80	4.38	3.60	3.00	2.50	2.00	2.50
15.	4.95	7.60	7.26	9.00	5.82	4.88	4.40	3.52	3.00	2.50	2.00	3.30
16.	4.90	7.40	8.20	9.10	5.72	5.42	4.40	3.50	3.00	2.50	2.00	3.50
17.	5.20	7.40	7.22	9.32	5.50	5.66	4.30	3.42	3.00	2.40	1.92	3.76
18.	5.75	6.95	6.64	9.50	5.44	5.70	4.30	3.40	3.00	2.40	1.90	4.10
19.	5.95	7.55	6.22	9.36	5.40	5.60	4.22	3.40	3.00	2.40	1.96	4.68
20.	4.80	7.52	6.80	9.20	5.40	5.58	4.20	3.36	3.00	2.30	2.00	5.62
Mean	4.52	6.83	6.80	9.19	5.87	5.23	4.32	3.51	3.02	2.46	2.03	3.36
21.	4.65	7.40	6.54	9.08	5.40	5.46	4.12	3.40	3.00	2.30	2.00	6.48
22.	4.30	7.00	6.12	8.54	5.46	5.34	4.10	3.40	3.00	2.30	*1.90	6.62
23.	4.10	6.25	6.20	8.54	5.50	5.22	4.02	3.40	3.00	2.20	*1.90	5.50
24.	4.20	5.27	6.30	8.28	5.56	5.08	4.00	3.32	3.00	2.20	*1.90	5.30
25.	4.05	5.15	6.28	7.80	5.60	4.92	4.00	3.30	3.00	2.20	2.00	5.14
26.	4.55	4.80	7.68	7.50	5.80	4.90	3.98	3.30	2.92	2.20	*1.90	5.10
27.	4.77	4.90	8.74	7.18	5.88	4.78	3.90	3.30	2.80	2.20	*1.90	5.00
28.	5.25	5.10	7.66	6.98	5.94	4.70	3.90	3.30	2.84	2.20	*1.90	4.70
29.	5.65		7.54	6.90	5.96	4.70	3.98	3.30	2.90	2.30	*1.90	4.04
30.	5.55		8.48	6.90	5.90	4.70	4.00	3.30	2.90	2.30	2.00	3.70
31.	6.15		8.26		5.86		4.00	3.30		2.30		3.70
Mean	4.84	5.73	7.25	7.77	5.71	4.98	4.00	3.33	2.94	2.25	1.93	5.02
Monthly												
Mean	4.48	6.19	7.07	8.80	6.22	5.12	4.28	3.56	3.05	2.47	2.04	3.71
Max.	6.40	7.90	9.00	10.00	7.40	5.80	4.70	4.00	3.30	2.90	2.30	6.70
Date	31	15	27 & 30	3 & 6	8	1	1	1-5	1-2 & 6	1-3	1 & 9-11	22
Min.	3.30	4.60	5.50	6.90	5.40	4.70	3.90	3.30	2.80	2.20	1.90	2.00
Date	11	26	1	28-30	18-22	27-30	26-29	24-31	27-28	23-28	17-19 22-24 26-29	10-12



RIVER : LITTLE RUNDA  
 STATION : IRINGA N/S GAUGE  
 NO : I.R.A. 2.  
 YEAR : 1955

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.70	6.80	(5.77)	8.15	7.20	6.00	4.90	4.40	3.70	3.24	2.72	3.70
2.	4.58	7.00	6.03	9.75	7.25	5.90	4.90	4.40	3.62	3.30	2.70	3.80
3.	4.50	6.85	5.91	10.05	7.35	5.80	4.90	4.40	3.60	3.22	2.60	3.80
4.	4.40	6.45	7.25	10.05	7.35	5.70	4.90	4.40	3.60	3.20	2.80	3.80
5.	4.70	6.30	8.38	10.15	7.50	5.55	4.90	4.32	3.64	3.20	2.60	3.00
6.	4.60	5.85	*8.45	10.25	7.45	5.50	4.90	4.28	3.70	3.20	2.60	2.78
7.	4.50	5.75	8.65	10.05	7.45	5.45	4.90	4.20	3.70	3.20	2.60	2.70
8.	4.35	5.80	8.15	9.65	7.55	5.35	4.90	4.18	3.70	3.12	2.60	2.60
9.	3.90	5.95	7.65	9.40	7.35	5.35	4.90	4.10	3.70	3.10	2.80	2.60
10.	3.90	6.00	7.20	9.45	7.25	5.35	4.84	4.02	3.62	3.10	2.80	2.50
Mean	4.41	6.28	7.34	9.70	7.37	5.60	4.89	4.27	3.66	3.19	2.66	3.13
11.	3.75	6.05	6.65	9.40	7.00	5.25	4.80	4.08	3.60	3.10	2.80	2.50
12.	3.70	5.90	6.30	9.20	6.70	5.25	4.72	4.02	3.58	3.02	2.62	2.50
13.	3.60	5.75	6.60	9.25	6.50	5.15	4.70	4.00	3.50	3.00	2.60	2.60
14.	3.70	7.85	7.20	9.55	6.30	5.15	4.78	4.00	3.50	3.00	2.60	3.00
15.	5.05	8.90	7.45	9.25	6.10	5.25	4.80	3.90	3.50	3.00	2.60	3.70
16.	5.10	8.00	8.45	9.35	6.00	5.75	4.80	3.90	3.50	3.00	2.52	3.90
17.	5.35	8.00	7.45	9.55	5.80	5.95	4.70	3.90	3.50	2.90	2.50	4.16
18.	5.88	7.70	6.90	9.75	5.75	6.00	4.70	3.90	3.50	2.90	2.50	4.44
19.	5.95	7.95	6.50	9.60	5.70	5.90	4.68	3.90	3.50	2.90	2.50	4.94
20.	5.05	7.60	7.05	9.45	5.70	5.90	4.60	3.90	3.50	2.80	2.50	*5.95
Mean	4.71	7.28	7.06	9.44	6.16	5.56	4.73	3.95	3.52	2.96	2.58	3.77
21.	4.90	7.52	6.80	9.35	5.70	5.75	4.28	3.90	3.50	2.80	2.50	6.75
22.	4.75	7.05	6.40	8.75	5.75	5.65	4.38	3.82	3.48	2.80	2.50	6.85
23.	4.50	6.65	6.50	8.75	5.80	5.55	4.48	3.80	3.40	2.74	2.50	5.80
24.	4.60	5.38	6.55	8.50	5.85	5.40	4.40	3.80	3.40	2.70	2.50	5.60
25.	4.50	5.20	6.55	8.00	5.90	5.25	4.40	3.72	3.40	2.70	2.50	5.45
26.	4.95	4.95	7.90	7.70	6.10	5.25	4.28	3.70	3.32	2.70	2.50	5.45
27.	5.15	4.95	9.00	7.40	6.20	5.15	4.30	3.70	3.30	2.70	2.50	5.35*
28.	5.50	5.50	7.85	7.20	6.25	5.05	4.30	3.70	3.30	2.78	2.42	4.46
29.	5.85	-	7.75	7.15	6.25	5.05	4.38	3.70	3.30	2.80	2.40	4.54
30.	5.75	-	8.75	7.15	6.20	5.05*	4.40	3.70	3.30	2.80	2.50	4.20
31.	6.25	-	8.50	-	6.15	-	4.40	3.70	-	2.80	-	4.20
Mean	5.16	5.90	7.50	8.00	6.01	5.32	4.36	3.75	3.37	2.76	2.48	5.33
Monthly Mean	4.77	6.53	7.31	9.04	6.50	5.49	4.65	3.98	3.52	2.96	2.57	4.12
Max.	6.50	8.10	9.00	10.25	7.55	6.00	4.90	4.40	3.70	3.30	2.80	6.85
Date	31	15	27	6	8	1 & 18	1-10	1-5	1-3 6-10	1-3	1 9-11	22
Min.	3.60	4.80	5.77	7.15	5.70	5.05	3.90	3.70	3.30	2.70	2.40	2.50
Date	13	26	1	29-30	19-21	28-30	26	25-31	26-30	23-28	28-29	10-12

\* Between \* levels have been transferred from the d/s gauge reading.

RIVER : LITTLE RHODA  
 STATION : TRINCA 1/8 GAUGE  
 NO : IKA.9  
 YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.35	10.75	10.70	10.80	10.60	8.40	6.90	5.70	4.90	4.25	3.70	3.50
2.	4.60	10.75	10.70	10.80	10.50	8.30	6.90	5.65	4.90	4.20	3.70	3.70
3.	5.18	10.80	10.60	11.10	10.50	8.30	6.90	5.70	4.85	4.20	3.70	3.84
4.	6.10	10.98	10.60	10.90	10.40	8.20	6.85	5.90	4.80	4.10	3.60	4.10
5.	6.70	10.98	10.40	11.90	10.20	8.20	6.80	5.95	4.80	4.10	3.52	4.10
6.	7.52	10.80	10.40	11.40	10.20	8.10	6.75	5.90	4.75	4.00	3.50	4.20
7.	9.05	10.15	10.60	11.30	10.10	8.10	6.70	5.80	4.73	4.00	3.50	4.80
8.	9.05	10.75	10.90	11.30	10.10	8.00	6.65	5.80	4.70	3.95	3.52	4.90
9.	9.95	10.98	10.50	10.90	10.10	7.90	6.60	5.70	4.70	3.92	3.50	4.80
10.	9.50	10.20	10.20	10.70	10.00	7.80	6.55	5.70	4.70	3.90	3.45	4.60
Mean	7.20	10.71	10.56	11.11	10.25	8.13	6.77	5.78	4.78	4.06	3.57	4.25
11.	8.47	10.35	10.10	10.70	9.90	7.70	6.50	5.60	4.70	3.90	3.43	4.50
12.	7.90	10.35	10.20	10.60	9.80	7.80	6.45	5.60	4.70	3.85	3.40	4.20
13.	7.60	10.35	10.60	10.50	9.70	7.80	6.40	5.57	4.70	3.84	3.44	4.10
14.	8.65	10.20	10.90	10.50	9.50	7.80	6.35	5.55	4.62	3.90	3.50	4.08
15.	8.75	10.35	10.80	10.40	9.40	7.70	6.30	5.55	4.55	3.90	3.50	4.30
16.	8.30	10.75	10.60	10.40	9.20	7.70	6.25	5.47	4.50	3.80	3.57	4.80
17.	9.95	10.90	10.50	10.30	9.55	7.70	6.20	5.45	4.50	3.80	3.55	5.08
18.	10.35	10.70	10.50	10.20	9.50	7.70	6.15	5.40	4.50	3.80	3.40	4.80
19.	10.65	11.00	10.40	10.20	9.45	7.60	6.10	5.37	4.45	3.75	3.50	4.64
20.	11.85	10.90	10.50	10.10	9.45	7.50	6.05	5.30	4.45	3.70	3.45	4.74
Mean	9.25	10.59	10.51	10.30	9.55	7.70	6.28	5.49	4.57	3.82	3.47	4.52
21.	10.60	11.60	10.50	10.10	9.35	7.50	6.00	5.28	4.40	3.70	3.40	5.10
22.	10.95	11.30	10.20	10.10	9.35	7.40	5.95	5.21	4.40	3.72	3.40	5.82
23.	10.40	11.10	10.60	10.00	9.25	7.40	5.90	5.18	4.30	3.80	3.35	5.50
24.	10.25	10.80	10.90	10.00	9.15	7.30	5.85	5.13	4.30	3.75	3.30	6.22
25.	10.85	10.70	10.90	10.00	9.05	7.20	5.85	5.09	4.23	3.70	3.30	6.30
26.	10.98	10.80	10.90	10.40	9.05	7.10	5.80	5.05	4.30	3.70	3.30	5.02
27.	11.40	10.80	10.80	10.40	8.95	7.10	5.80	5.01	4.32	3.70	3.25	4.84
28.	11.30	10.90	10.00	10.40	8.85	7.00	5.80	5.00	4.33	3.70	3.23	5.20
29.	10.98	10.90	10.80	10.30	8.85	7.00	5.75	4.99	4.40	3.64	3.30	5.90
30.	10.85		10.80	10.50	8.75	6.95	5.75	4.98	4.30	3.60	3.42	5.30
31.	10.75		10.80		8.75		5.70	4.90		3.63		5.27
Mean	10.85	10.98	10.75	10.22	9.03	7.20	5.83	5.07	4.33	3.69	3.32	5.50
Monthly Mean	9.15	10.75	10.61	10.57	9.59	7.68	6.28	5.43	4.56	3.86	3.46	4.78
Max.	11.85	11.60	11.00	11.90	10.60	8.40	6.95	5.70	4.90	4.25	3.70	6.30
Date	20	21	28	5	1	1	1	1	1	1	1-3 & 14	24
Min.	4.35	10.20	10.10	10.00	8.75	6.95	5.70	4.90	4.22	3.50	3.20	3.50
Date	1	10	11	23-25	31	30	31	31	25	30-31	28	1



RIVER : LITTLE RUAWA  
 STATION: IRINGA.  
 STATION NO: IKA.2  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.66	9.90	8.05	10.76	10.95	9.22	7.42	6.42	5.40	4.63	3.80	3.25
2.	6.54	10.12	7.95	10.73	10.88	9.22	7.33	6.40	5.38	4.55	3.80	3.15
3.	6.10	10.26	8.20	10.76	10.78	9.23	7.30	6.40	5.30	4.48	3.80	3.15
4.	6.20	10.16	8.30	10.83	10.72	9.13	7.30	6.40	5.30	4.40	3.80	3.10
5.	6.26	10.48	8.13	10.90	10.70	9.02	7.22	6.38	5.30	4.45	3.85	3.10
6.	6.52	10.94	8.20	11.03	10.70	8.92	7.20	6.23	5.30	4.30	3.85	3.10
7.	7.32	10.74	8.35	11.05	10.80	8.92	7.20	6.20	5.35	4.35	3.85	3.20
8.	7.32	10.86	8.43	10.83	10.68	8.83	7.20	6.20	5.20	4.35	3.80	3.20
9.	6.78	10.62	8.40	11.06	10.66	8.75	7.12	6.20	5.25	4.35	3.70	3.20
10.	7.16	10.44	8.35	10.71	10.10	8.70	7.10	6.20	5.25	4.20	3.75	3.20
Mean.	6.69	10.45	8.24	10.87	10.70	9.00	7.24	6.30	5.30	4.40	3.80	3.17
11.	8.24	10.16	8.13	10.68	10.68	8.62	7.10	6.13	5.10	4.25	3.60	3.35
12.	9.02	10.34	7.85	10.60	10.63	8.52	7.08	6.10	5.15	4.25	3.60	3.55
13.	9.22	10.52	7.55	11.10	10.60	8.42	7.00	6.05	5.00	4.10	3.60	3.50
14.	9.42	10.16	7.35	10.75	10.50	8.40	7.00	6.00	4.90	4.10	3.65	3.48
15.	8.80	10.00	7.27	12.10	10.35	8.32	7.00	5.93	4.95	4.15	3.65	3.50
16.	8.34	9.90	7.70	12.26	10.28	8.23	6.98	5.88	4.95	4.15	3.65	3.65
17.	8.48	9.80	8.57	13.26	10.22	8.18	6.90	5.78	4.80	4.00	3.65	3.85
18.	7.42	9.75	8.93	13.25	10.12	8.07	6.82	5.72	4.80	4.00	3.65	3.90
19.	7.10	9.92	8.78	12.90	10.08	8.02	6.80	5.80	4.85	4.05	3.65	4.00
20.	7.38	9.97	8.53	12.30	10.00	7.95	6.80	5.85	4.70	4.05	3.65	5.28
Mean.	8.34	10.05	8.07	11.92	10.35	8.27	6.95	5.92	4.92	4.11	3.64	3.81
21.	8.14	9.98	8.75	12.66	10.00	7.90	6.80	5.85	4.70	4.05	3.50	5.52
22.	8.94	10.06	8.92	12.58	10.00	7.90	6.80	5.80	4.75	3.90	3.55	5.65
23.	8.84	10.00	8.75	12.33	10.00	7.85	6.80	5.80	4.60	3.90	3.55	5.78
24.	8.78	9.90	8.87	12.08	9.95	7.75	6.72	5.75	4.60	3.95	3.55	5.60
25.	8.71	9.33	8.88	11.86	9.88	7.80	6.70	5.70	4.60	3.80	3.55	6.05
26.	8.88	9.00	8.75	11.70	9.80	7.72	6.70	5.62	5.25	3.80	3.40	6.00
27.	8.94	8.73	9.12	11.55	9.73	7.65	6.68	5.60	4.95	3.85	3.40	6.25
28.	8.80	8.37	10.27	11.36	9.65	7.60	6.62	5.53	4.90	3.85	3.40	6.08
29.	9.58		10.53	11.18	9.57	7.53	6.50	5.50	4.75	3.80	3.30	6.08
30.	9.74		10.43	11.08	9.42	7.48	6.50	5.40	4.68	3.80	3.35	6.22
31.	9.64		10.30		9.32		6.50	5.40		3.80		6.43
Mean.	8.99	9.42	9.41	11.84	9.75	7.72	6.66	5.63	4.78	3.86	3.46	5.97
Monthly Mean.	8.04	10.01	8.60	11.54	10.55	8.33	6.94	5.94	5.00	4.12	3.63	4.37
Max.	9.90	11.00	10.80	13.80	11.00	9.30	7.45	6.45	5.45	4.65	3.80	6.45
Date.	29.	6	29	17	1:7	3	1	1	2	1	1-4:7	31
Min.	6.10	8.30	7.20	10.60	9.30	7.45	6.50	5.40	4.60	3.80	3.30	3.10
Date.	3	28	15	2:12	31	30	29-31	30:31	30	25-26 29-31	29	4-6:11

RIVER: LITTLE RUAHA  
STATION: IRINGA  
STATION NO: IKA-2  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.55	6.10	8.20	12.47	10.60	7.63	6.60	5.60	4.90	4.10	3.50	3.30
2.	6.35	5.53	8.00	12.63	10.60	7.60	6.50	5.60	4.90	4.10	3.50	3.30
3.	6.50	5.20	7.77	12.30	10.57	7.50	6.50	5.50	4.90	4.10	3.50	3.30
4.	7.15	5.37	8.33	11.90	10.37	7.50	6.50	5.50	4.85	4.00	3.50	3.25
5.	6.68	5.20	8.30	11.67	10.27	7.50	6.50	5.45	4.83	4.00	3.40	3.20
6.	6.45	5.80	8.27	11.57	10.20	7.50	6.50	5.40	4.80	4.00	3.40	3.20
7.	6.33	5.60	9.10	11.47	10.10	7.50	6.40	5.40	4.70	4.00	3.40	3.35
8.	6.08	5.33	9.60	11.30	10.00	7.50	6.40	5.40	4.70	4.00	3.40	3.35
9.	5.85	5.57	9.00	11.20	9.70	7.45	6.40	5.40	4.70	4.00	3.30	3.43
10.	6.50	6.90	9.17	11.07	9.47	7.45	6.30	5.30	4.60	4.00	3.30	3.45
<b>Mean.</b>	<b>6.44</b>	<b>5.66</b>	<b>8.57</b>	<b>11.76</b>	<b>10.19</b>	<b>7.51</b>	<b>6.46</b>	<b>5.46</b>	<b>4.79</b>	<b>4.03</b>	<b>3.42</b>	<b>3.31</b>
11.	6.20	7.00	9.63	10.90	9.17	7.40	6.25	5.30	4.60	4.00	3.30	3.38
12.	6.55	6.60	9.53	10.80	9.10	7.30	6.20	5.30	4.60	4.00	3.30	3.37
13.	6.45	8.17	9.23	10.70	9.00	7.30	6.20	5.30	4.60	4.00	3.30	3.27
14.	6.33	8.73	9.13	10.70	8.90	7.20	6.15	5.30	4.60	4.00	3.30	4.73
15.	5.95	9.67	9.17	10.60	8.80	7.20	6.15	5.20	4.60	3.88	3.30	4.63
16.	5.95	9.90	9.97	10.60	8.70	7.12	6.10	5.20	4.55	3.80	3.30	4.78
17.	6.00	10.13	10.32	10.40	8.60	7.10	6.10	5.20	4.55	3.80	3.20	4.90
18.	5.88	9.93	10.52	10.20	8.50	7.00	6.10	5.20	4.50	3.75	3.20	5.47
19.	5.80	9.40	10.87	10.20	8.40	7.00	6.00	5.20	4.50	3.70	3.20	5.87
20.	5.65	8.70	12.15	10.10	8.30	6.92	6.00	5.20	4.50	3.70	3.20	5.97
<b>Mean.</b>	<b>6.08</b>	<b>8.82</b>	<b>10.05</b>	<b>10.52</b>	<b>8.75</b>	<b>7.15</b>	<b>6.13</b>	<b>5.24</b>	<b>4.56</b>	<b>3.86</b>	<b>3.26</b>	<b>4.64</b>
21.	5.30	8.47	11.63	10.00	8.20	6.80	6.00	5.20	4.50	3.70	3.20	5.77
22.	5.30	8.45	12.10	10.23	8.20	6.80	5.95	5.10	4.50	3.70	3.20	5.60
23.	5.43	8.93	11.80	10.40	8.20	6.70	5.80	5.10	4.50	3.70	3.20	5.70
24.	5.37	9.60	11.95	10.40	8.17	6.70	5.70	5.10	4.45	3.70	3.18	6.03
25.	5.30	9.97	12.02	10.30	8.10	6.70	5.70	5.10	4.45	3.70	3.17	6.70
26.	5.30	9.83	12.30	10.27	8.10	6.60	5.70	5.10	4.38	3.60	3.30	6.70
27.	5.67	9.47	12.40	10.53	8.00	6.60	5.70	5.00	4.27	3.60	3.30	6.47
28.	6.13	9.07	12.27	10.60	7.90	6.60	5.65	5.00	4.23	3.60	3.30	6.27
29.	6.20		12.00	10.60	7.80	6.60	5.60	5.00	4.15	3.60	3.30	6.22
30.	6.57		12.00	10.60	7.80	6.60	5.60	5.00	4.10	3.55	3.30	6.28
31.	6.70		11.90		7.70		5.60	4.90		3.50		6.05
<b>Mean.</b>	<b>5.75</b>	<b>9.22</b>	<b>12.03</b>	<b>10.39</b>	<b>8.02</b>	<b>6.67</b>	<b>5.73</b>	<b>5.05</b>	<b>4.35</b>	<b>3.63</b>	<b>3.25</b>	<b>6.16</b>
<b>Monthly</b>												
<b>Mean.</b>	<b>6.08</b>	<b>7.81</b>	<b>10.28</b>	<b>10.89</b>	<b>8.95</b>	<b>7.11</b>	<b>6.09</b>	<b>5.24</b>	<b>4.57</b>	<b>3.83</b>	<b>3.31</b>	<b>4.75</b>
<b>Max.</b>	<b>7.30</b>	<b>10.30</b>	<b>12.40</b>	<b>12.70</b>	<b>10.60</b>	<b>7.65</b>	<b>6.60</b>	<b>5.60</b>	<b>4.90</b>	<b>4.10</b>	<b>3.50</b>	<b>6.90</b>
<b>Date.</b>	<b>4</b>	<b>17</b>	<b>27</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>26</b>
<b>Min.</b>	<b>5.30</b>	<b>5.20</b>	<b>7.90</b>	<b>10.00</b>	<b>7.70</b>	<b>6.60</b>	<b>5.60</b>	<b>4.90</b>	<b>4.10</b>	<b>3.50</b>	<b>3.15</b>	<b>3.20</b>
<b>Date.</b>	<b>26</b>	<b>3</b>	<b>2</b>	<b>21</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>25</b>	<b>8</b>

RIVER: LITTLE RUAHA  
 STATION: IRINGA  
 STATION NO: LKA.2  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.70	7.30	8.90	10.80	9.13	6.20	5.50					5.20
2.	5.47	7.07	8.30	10.27	9.03	6.13	5.50					4.03
3.	5.33	8.17	8.43	11.00	8.70	6.10	5.50					4.40
4.	5.27	9.10	8.20	11.13	8.33	6.10	5.57					4.53
5.	4.70	9.90	8.83	11.50	8.03	6.00	5.60					4.45
6.	4.75	9.00	9.50	11.50	7.80	5.93	5.60					4.80
7.	4.91	8.70	9.87	11.77	7.60	5.90	5.50					4.90
8.	6.33	7.93	10.27	11.50	7.43	5.90	5.50					4.80
9.	6.01	7.30	10.40	11.20	7.37	5.90	5.50					4.90
10.	6.01	7.07	10.20	11.37	7.30	5.90	5.50				3.95	4.90
Mean.	5.45	8.15	9.29	11.20	8.07	6.01	5.53					4.69
11.	5.63	6.77	10.27	10.83	7.40	5.80	5.50			(3.73)		5.28
12.	6.02	6.47	9.97	10.70	7.30	5.80	5.40			3.52		6.60
13.	5.93	6.43	9.03	10.60	7.40	5.80	5.37			3.42		6.27
14.	5.78	6.60	9.13	10.33	7.33	5.80	5.30			3.37		9.03
15.	5.51	6.40	8.60	10.13	7.30	5.77	5.30			3.32		9.17
16.	5.54	6.13	8.73	10.00	7.30	5.70	5.27			3.27		7.67
17.	6.18	7.07	9.37	9.87	7.27	5.70	5.20			3.22		7.20
18.	7.43	6.87	9.67	9.60	7.13	5.70	5.20			3.20		7.00
19.	7.73	6.53	8.97	9.37	7.07	5.70	5.17			3.15		6.83
20.	7.65	6.43	9.17	9.20	6.97	5.70	5.10			3.05		6.97
Mean.	6.34	6.57	9.29	10.06	7.25	5.75				3.33		7.20
21.	7.69	6.90	8.80	9.10	6.90	5.63	5.10			3.02		7.03
22.	7.97	6.80	9.07	8.97	6.80	5.60	5.10			3.00		6.53
23.	8.34	7.97	9.57	8.80	6.70	5.60	5.10			3.00		6.42
24.	7.57	7.63	9.87	8.70	6.63	5.60	5.03			3.12		5.57
25.	6.40	8.17	10.00	8.77	6.53	5.60	5.00			3.13		5.87
26.	5.93	8.10	10.30	8.77	6.47	5.60	5.00			3.32		6.17
27.	5.80	8.33	10.30	8.77	6.37	5.60	5.00			3.80		6.23
28.	5.82	8.77	10.30	8.90	6.30	5.60	5.00			3.77		6.27
29.	5.85		10.37	9.10	6.27	5.53	5.00			4.57		6.92
30.	6.62		10.60	9.20	6.20	5.50	5.00			5.27		7.47
31.	8.40		10.80		6.20		5.00					6.70
Mean.	6.94	7.83	10.00	8.91	6.49	5.59	5.03			3.60		6.47
Monthly Mean.	6.27	7.50	9.54	10.06	7.24	5.78	5.21					6.13
Max.	8.40	9.90	10.80	11.80	9.20	6.20	5.60			6.60		9.80
Date.	31	5	31	7	1	2	6				30	15
Min.	4.70	6.00	8.00	8.70	6.20	5.50	5.00					4.00
Date.	5	17	4	27	31	30	31					2

NOTE: No readings for August, September and October owing to death of Gauge Reader.



RIVER: LITTLE RUAHA  
STATION: IRINGA  
STATION NO: IKA.2  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.70	7.30	8.90	10.80	9.13	6.20	5.50					5.20
2.	5.47	7.07	8.30	10.27	9.03	6.13	5.50					4.03
3.	5.33	8.17	8.43	11.00	8.70	6.10	5.50					4.40
4.	5.27	9.10	8.20	11.13	8.33	6.10	5.57					4.53
5.	4.70	9.90	8.83	11.50	8.03	6.00	5.60					4.45
6.	4.75	9.00	9.50	11.50	7.80	5.93	5.60					4.80
7.	4.91	8.70	9.87	11.77	7.60	5.90	5.50					4.90
8.	6.33	7.93	10.27	11.50	7.43	5.90	5.50					4.80
9.	6.01	7.30	10.40	11.20	7.37	5.90	5.50					4.90
10.	6.01	7.07	10.20	11.37	7.30	5.90	5.50				3.95	4.90
Mean.	5.45	8.15	9.29	11.20	8.07	6.01	5.53					4.69
11.	5.63	6.77	10.27	10.83	7.40	5.80	5.50				(3.73)	5.28
12.	6.02	6.47	9.97	10.70	7.30	5.80	5.40				3.52	6.60
13.	5.93	6.43	9.03	10.60	7.40	5.80	5.37				3.42	6.27
14.	5.78	6.60	9.13	10.33	7.33	5.80	5.30				3.37	9.03
15.	5.51	6.40	8.60	10.13	7.30	5.77	5.30				3.32	9.17
16.	5.54	6.13	8.73	10.00	7.30	5.70	5.27				3.27	7.67
17.	6.18	7.07	9.37	9.87	7.27	5.70	5.20				3.22	7.20
18.	7.43	6.87	9.67	9.60	7.13	5.70	5.20				3.20	7.00
19.	7.73	6.53	8.97	9.37	7.07	5.70	5.17				3.15	6.83
20.	7.65	6.43	9.17	9.20	6.97	5.70	5.10				3.05	6.97
Mean.	6.34	6.57	9.29	10.06	7.25	5.75					3.33	7.20
21.	7.69	6.90	8.80	9.10	6.90	5.63	5.10				3.02	7.03
22.	7.97	6.80	9.07	8.97	6.80	5.60	5.10				3.00	6.53
23.	8.34	7.97	9.57	8.80	6.70	5.60	5.10				3.00	6.42
24.	7.57	7.63	9.87	8.70	6.63	5.60	5.03				3.12	5.57
25.	6.40	8.17	10.00	8.77	6.53	5.60	5.00				3.13	5.87
26.	5.93	8.10	10.30	8.77	6.47	5.60	5.00				3.32	6.17
27.	5.80	8.33	10.30	8.77	6.37	5.60	5.00				3.80	6.23
28.	5.82	8.77	10.30	8.90	6.30	5.60	5.00				3.77	6.27
29.	5.85		10.37	9.10	6.27	5.53	5.00				4.57	6.92
30.	6.62		10.60	9.20	6.20	5.50	5.00				5.27	7.47
31.	8.40		10.80		6.20		5.00					6.70
Mean.	6.94	7.83	10.00	8.91	6.49	5.59	5.03				3.60	6.47
Monthly Mean.	6.27	7.50	9.54	10.06	7.24	5.78	5.21					6.13
Max.	8.40	9.90	10.80	11.80	9.20	6.20	5.60				6.60	9.80
Date.	31	5	31	7	1	2	6				30	15
Min.	4.70	6.00	8.00	8.70	6.20	5.50	5.00					4.00
Date.	5	17	4	27	31	30	31					2

NOTE. No readings for August, September and October owing to death of Gauge Reader.



RIVER: GREAT RUAHA.  
 STATION : KIDATU  
 STATION NO: IKA.3  
 YEAR : 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.52	2.65	8.10	10.06	9.11	7.07	5.23	(3.98)	2.60	2.25	1.90	1.70
2.	1.50	2.57	7.70	11.31	8.75	6.99	5.14	(3.81)	2.60	2.20	1.90	1.70
3.	1.46	2.67	8.20	10.45	9.16	6.86	4.85	(3.64)	2.60	2.20	1.90	1.65
4.	1.42	3.10	8.90	9.84	9.03	6.74	5.00	(3.47)	2.63	2.15	1.85	1.65
5.	1.42	3.25	10.07	10.09	9.54	6.64	5.01	3.30	2.50	2.15	1.90	1.65
6.	1.53	3.98	9.47	9.86	9.91	6.49	4.98	3.25	2.55	2.15	2.35	1.60
7.	1.49	4.20	9.65	9.39	9.73	6.33	4.95	3.20	2.53	2.15	2.20	1.60
8.	1.46	4.10	9.95	9.18	9.38	6.30	4.89	3.20	2.50	2.15	2.00	1.60
9.	1.48	4.17	10.17	9.36	8.94	6.21	4.81	3.10	2.50	2.15	2.00	1.60
10.	1.45	5.00	9.55	9.44	8.46	6.15	4.78	3.15	2.48	2.10	1.95	1.60
Mean.	1.47	3.60	9.18	9.90	9.19	6.58	4.96	3.41	2.55	2.17	2.00	1.64
11.	1.42	4.39	8.90	9.34	7.93	6.03	4.76	3.10	2.43	2.10	1.85	1.60
12.	1.61	4.04	8.42	9.50	7.72	5.94	4.76	3.08	2.45	2.10	1.80	1.65
13.	1.57	4.37	8.20	9.57	7.60	5.91	4.82	3.02	2.40	2.10	1.75	1.67
14.	2.12	5.23	8.20	9.67	7.48	6.03	4.89	3.00	2.40	2.05	1.75	1.88
15.	1.95	5.77	8.05	9.21	7.36	6.23	4.76	3.00	2.40	2.05	1.75	2.28
16.	1.82	5.42	7.90	9.87	7.26	6.70	4.63	2.90	2.40	2.00	1.75	2.67
17.	1.81	5.75	7.77	10.35	7.11	6.73	4.56	2.95	2.40	2.00	2.00	2.72
18.	1.72	5.85	7.74	9.89	7.23	6.66	4.51	2.90	2.40	2.00	1.97	3.30
19.	1.59	6.97	7.73	9.44	7.18	6.17	4.47	2.90	2.43	2.00	1.80	5.10
20.	1.52	7.12	7.72	9.13	7.26	5.99	4.46	2.82	2.40	2.00	1.95	3.87
Mean.	1.71	5.49	8.06	9.60	7.41	6.24	4.66	2.97	2.41	2.04	1.84	2.67
21.	1.77	7.20	7.73	8.94	7.30	5.88	4.43	2.83	2.37	1.95	1.85	3.83
22.	1.67	7.54	7.77	8.83	7.64	5.91	4.39	2.80	2.30	1.95	1.80	3.77
23.	1.62	7.75	7.89	8.67	7.37	5.83	4.39	2.70	2.32	1.90	1.78	3.12
24.	1.65	8.05	7.82	8.60	7.40	5.73	4.31	2.75	2.30	1.90	1.80	2.75
25.	2.15	(8.60)	7.85	8.71	7.76	5.66	4.31	2.75	2.27	1.90	1.85	2.68
26.	2.32	8.97	8.27	8.62	7.57	5.57	4.23	2.70	2.28	1.90	1.78	3.05
27.	2.17	9.15	8.50	8.44	7.51	5.66	4.23	2.70	2.21	1.90	1.73	3.68
28.	2.26	8.30	8.39	8.31	7.54	5.41	4.23	2.60	2.30	1.95	1.70	3.38
29.	2.61		8.21	8.31	7.33	5.26	4.18	2.65	2.35	2.00	1.70	3.62
30.	2.45		9.44	8.20	7.43	5.14	4.14	2.65	2.32	1.95	1.70	3.10
31.	2.95		8.57		7.23		4.14	2.60		1.95		2.95
Mean.	2.15	8.20	8.22	8.56	7.46	5.61	4.27	2.70	2.30	1.93	1.77	3.27
Monthly Mean.	1.79	5.59	8.48	9.35	8.00	6.14	4.62	3.02	2.42	2.04	1.84	2.55
Max.	3.00	9.15	10.17	11.40	10.47	7.16	5.23	3.98	2.65	2.25	2.35	5.35
Date.	31	27	9	2	6	1	1	1	4	1	6	18
Min.	1.43	2.60	7.70	8.15	7.00	5.14	4.14	2.60	2.20	1.90	1.70	1.60
Date.	8	2	21	30	18	30	31	31	27	27	30	11

Feb. 25th to March 16th correlated to Mbyuni Aug. ( ) interpolated.

RIVER : GREAT RUAHA  
STATION : KIDATU  
NO : IKA.3  
YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
1.	2.85	13.80	11.88	10.27	11.65	7.89	5.46	4.20	3.20	2.60	2.02	1.60
2.	2.87	13.51	12.25	10.12	11.40	7.79	5.56	4.23	3.20	2.52	2.02	1.72
3.	2.83	13.35	13.44	10.21	11.13	7.79	5.47	4.20	3.14	2.50	2.00	1.70
4.	2.83	13.20	13.35	10.39	10.70	7.65	5.46	4.20	3.11	2.50	2.03	1.70
5.	4.10	12.57	12.31	11.51	10.55	7.52	5.36	4.24	3.10	2.44	2.01	1.88
6.	5.95	11.88	11.96	13.07	10.27	7.61	5.29	4.20	3.10	2.41	2.10	2.41
7.	8.22	12.58	11.65	12.40	10.17	7.43	5.20	4.12	3.00	2.40	2.10	2.45
8.	13.28	12.09	11.47	12.05	10.03	7.33	5.08	4.10	3.00	2.40	2.03	2.15
9.	13.10	11.49	11.36	12.93	9.93	7.24	5.07	4.00	3.00	2.40	2.01	2.00
10.	11.52	11.34	11.32	12.74	9.75	7.22	5.00	3.90	3.00	2.30	2.00	1.93
Mean	6.76	12.52	12.10	11.57	10.56	7.55	5.30	4.14	3.09	2.45	2.03	1.95
11.	10.95	11.80	11.32	12.41	9.65	7.15	4.95	3.90	3.00	2.30	2.00	1.91
12.	8.80	11.46	11.37	12.58	9.55	6.96	*4.86	3.90	3.00	2.24	1.91	1.90
13.	7.60	11.22	11.51	12.58	9.49	6.86	4.92	3.82	2.94	2.20	1.90	1.80
14.	6.33	11.34	11.36	12.41	9.34	6.86	4.90	3.81	2.90	2.25	1.90	1.80
15.	5.97	11.17	11.28	12.21	9.10	6.77	4.90	3.80	2.90	2.22	1.90	1.85
16.	6.10	11.99	*10.94	11.86	8.93	6.68	4.80	3.74	2.90	2.20	1.84	1.88
17.	6.76	11.62	10.86	11.70	8.94	6.59	4.81	3.70	2.81	2.20	1.83	1.80
18.	7.70	12.21	10.80	11.76	8.99	6.50	4.80	3.70	2.80	2.13	1.82	1.93
19.	11.38	11.61	10.68	12.06	8.87	6.40	4.74	3.60	2.80	2.10	1.80	1.94
20.	11.50	13.20	10.90	11.26	8.72	6.31	4.64	3.60	2.73	2.13	1.80	1.90
Mean	8.31	11.76	11.10	12.08	9.16	6.71	4.83	3.76	2.88	2.20	1.87	1.87
21.	13.81	14.72	10.68	11.29	8.72	6.22	4.64	3.52	2.70	2.12	1.80	1.90
22.	14.93	14.17	10.68	11.05	8.54	6.20	4.50	3.50	2.62	2.14	1.80	1.80
23.	14.51	13.25	10.75	11.00	8.53	6.13	4.42	3.44	2.64	2.12	1.74	1.80
24.	13.76	12.75	10.68	10.68	8.54	6.11	4.50	3.40	2.62	2.11	1.73	1.80
25.	13.25	12.45	10.58	11.66	8.46	6.05	4.40	3.40	2.60	2.10	1.72	1.91
26.	13.57	12.08	10.49	11.58	8.37	5.95	4.40	3.34	2.60	2.00	1.70	2.27
27.	13.40	11.92	10.39	12.57	8.24	5.85	4.40	3.33	2.73	2.03	1.70	2.73
28.	13.91	12.00	10.30	12.00	8.12	5.75	4.44	3.30	2.70	2.00	1.70	3.09
29.	14.39	11.92	10.21	12.16	8.04	5.66	4.30	3.30	2.63	2.05	1.64	3.48
30.	14.02		10.12	12.20	7.98	5.60	4.22	3.24	2.61	2.03	1.63	3.71
31.	14.03		10.03		7.95		4.20	3.20		2.00		3.60
Mean	13.96	12.81	10.45	11.64	8.32	5.95	4.40	3.36	2.65	2.03	1.72	2.55
Monthly												
Mean	9.82	12.37	11.19	11.74	9.31	6.74	4.83	3.74	2.87	2.23	1.87	2.14
Max.	14.95	14.90	13.54	13.78	11.69	7.90	5.55	4.25	3.20	2.60	2.06	5.75
Date	22	21	3	6	1	1	2	2-3-5	1/2	1	8	28
Min.	2.80	11.10	10.03	10.12	7.90	5.55	4.20	3.20	2.60	2.00	1.62	1.60
Date	3/4	13-8-15	31	2	31	30	30/31	31	25/26 & 30	26/28 & 30	30	1

From \* to \* from correlation with U/S Gauge.



RIVER: GREAT RUAHA  
 STATION: KIDATU  
 STATION NO: IKA.3  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.08	(5.75	10.12	8.17	11.60	8.65	5.80	4.40	3.21	2.70	2.23	1.63
2.	3.00	8.75	*10.45	8.07	11.25	8.55	5.65	4.38	3.30	2.63	2.27	1.70
3.	2.88	9.35	10.40	8.00	11.05	8.40	5.55	4.32	3.22	2.61	2.20	1.60
4.	2.90	10.20	10.60	7.97	11.20	8.25	5.45	4.30	3.22	2.62	2.14	1.56
5.	2.75	10.50	10.50	8.35	12.22	8.25	5.35	4.21	3.20	2.60	2.12	1.60
6.	2.73	10.65	10.40	8.35	11.78	8.13	5.45	4.12	3.20	2.60	2.11	1.60
7.	3.10	10.45	10.30	*8.58	12.34	8.00	5.35	4.13	3.13	2.53	2.10	1.53
8.	4.08	10.30	10.20	*8.45	11.98	7.83	5.29	4.20	3.10	2.52	2.02	1.52
9.	3.69	11.40	9.97	*9.15	11.65	7.70	5.27	4.11	3.10	2.50	1.93	1.51
10.	3.62	11.43	10.15	*9.02	11.35	7.60	5.18	4.12	3.02	2.43	1.92	1.53
Mean.	3.18	9.38	10.31	8.41	11.64	8.07	5.43	4.23	3.17	2.57	2.10	1.58
11.	3.50	10.95	9.84	*8.77	11.15	7.50	5.16	4.10	3.01	2.42	1.90	1.60
12.	3.54	10.18	9.75	8.36	11.07	7.35	5.16	3.97	3.00	2.41	1.90	1.63
13.	3.50	9.90	*9.52	8.40	10.90	7.25	5.08	3.92	2.94	2.40	1.90	2.00
14.	4.43	10.38	9.37	7.90	10.70	7.15	5.08	3.90	2.92	2.40	2.01	2.00
15.	5.82	10.03	9.33	8.07)	10.60	7.07	5.00)	3.82	2.90	2.33	1.91	2.10
16.	(5.08)	10.46	9.37	12.00	10.65	6.96	4.98	3.77	2.82	2.32	1.90	2.10
17.	(6.95)	10.76	9.25	12.64	10.55	6.85	4.93	3.73	2.81	2.30	1.82	2.20
18.	(5.64)	10.07	9.09	12.76	10.50	6.76	4.92	3.73	2.80	2.30	1.80	2.25
19.	(5.10)	9.84	9.00	12.30	10.68	6.69	4.90	3.70	2.80	2.30	1.84	2.12
20.	4.80	9.75	8.85	13.50	10.42	6.60	4.90	3.70	2.80	2.30	1.83	2.40
Mean.	4.83	10.23	9.34	10.37	10.72	7.02	5.01	3.83	2.88	2.35	1.88	2.04
21.	4.49	9.93	8.78	14.82	10.30	6.50	4.90	3.63	2.74	2.24	1.81	2.40
22.	4.40	9.77	8.73	14.32	10.20	6.45	4.81	3.60	2.73	2.20	2.00	2.50
23.	4.10	9.93	8.65	13.88	10.00	6.33	4.71	3.54	2.72	2.17	2.00	2.30
24.	4.00	10.03	8.60	15.06	9.75	6.40	4.66	3.51	2.71	2.12	1.91	2.20
25.	4.00	10.12	8.38	16.35	9.70	6.30	4.61	3.50	3.65	2.10	1.81	2.20
26.	4.04	10.20	8.26	16.18	9.65	6.13	4.60	3.50	3.00	2.01	1.80	2.40
27.	4.02	10.15	8.20	14.56	9.37	6.03	4.53	3.43	3.37	2.01	1.73	2.30
28.	3.80	10.03	8.07	13.66	9.25	*5.95	4.52	3.41	3.11	2.20	1.70	2.41
29.	3.74		8.34	12.85	9.03	5.95	4.46	3.41	2.82	2.20	1.71	2.33
30.	(4.98)		8.36	(12.00	8.85	5.85	4.42	3.33	2.71	2.22	1.70	2.90
31.	(5.68)		8.26		8.72		4.35	3.32		2.80		3.00
Mean.	4.30	10.02	8.42	12.75	9.53	6.19	4.60	3.47	2.96	2.21	1.82	2.45
Monthly												
Mean.	4.11	10.05	9.33	10.51	10.69	7.09	5.00	3.83	3.00	2.37	1.93	2.03
( ) Transferred from U/S gauge. * current meter measurements.												
Max.	7.14	11.50	10.69	16.63	12.58	8.64	5.85	4.40	3.73	2.80	2.32	3.10
Date.	17.	10.	4	25	7	1	1	1/2	25	31	2	30
Min.	2.71	5.75	8.08	7.80	8.72	5.85	4.32	3.32	1.70	2.00	1.70	1.50
Date.	5	1	28	15	31	30	31	31	30	26	28.30	9

RIVER: GREAT RUAHA  
STATION: KIDATU  
STATION NO: IKA.3  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.37	5.25	8.15	13.94	12.49	7.00	4.96	3.73	3.03	2.40	1.83	1.63
2.	3.74	4.61	7.52	13.47	11.95	6.90	4.94	3.68	3.01	2.40	1.82	1.72
3.	3.36	4.00	6.87	13.46	11.61	6.98	4.88	3.71	3.00	2.33	1.80	1.83
4.	3.02	3.00	6.52	12.25	11.46	6.88	4.80	3.61	3.00	2.32	1.80	1.73
5.	3.21	3.59	6.45	12.86	11.20	6.85	4.73	3.64	2.92	2.31	1.80	1.63
6.	3.34	3.36	6.44	11.85	10.94	6.73	4.72	3.62	2.92	2.30	1.74	1.62
7.	4.54	3.34	7.35	11.76	11.00	6.66	4.76	3.60	2.90	2.30	1.73	1.61
8.	4.06	3.00	6.68	11.65	10.85	6.61	4.70	3.53	2.90	2.23	1.73	1.60
9.	3.76	3.56	6.81	11.66	10.56	6.52	4.72	3.52	2.92	2.22	1.72	1.60
10.	2.61	3.50	6.53	11.42	10.35	6.42	4.63	3.52	2.83	2.22	1.72	1.60
Mean.	3.50	3.72	6.94	12.43	11.24	6.75	4.78	3.62	2.94	2.30	1.77	1.66
11.	3.18	4.32	6.56	11.35	9.62	6.38	4.60	3.50	2.82	2.30	1.72	1.51
12.	2.70	4.84	6.67	11.30	9.40	6.23	4.53	3.44	2.80	2.30	1.70	1.50
13.	3.00	5.18	6.74	11.27	9.30	6.13	4.50	3.41	2.73	2.22	1.70	1.72
14.	2.74	6.32	6.51	11.16	8.98	6.08	4.43	3.40	2.72	2.20	1.70	1.79
15.	2.62	6.63	6.75	11.15	8.80	5.95	4.41	3.33	2.70	2.15	1.64	2.20
16.	2.60	7.76	6.60	11.08	8.65	5.92	4.40	3.31	2.70	2.13	1.63	2.15
17.	2.50	7.86	6.58	11.12	8.60	5.88	4.36	3.30	2.72	2.12	1.62	2.02
18.	2.48	9.81	7.10	11.26	8.48	5.85	4.30	3.24	2.71	2.10	1.62	2.00
19.	2.32	9.47	8.53	11.10	8.46	5.77	4.24	3.23	2.64	2.04	1.61	2.07
20.	3.02	8.89	7.54	11.00	8.38	5.67	4.21	3.30	2.63	2.03	1.60	2.10
Mean.	2.72	7.11	6.96	11.18	8.87	5.97	4.40	3.35	2.72	2.16	1.65	1.91
21.	3.00	9.76	8.58	11.10	8.28	5.58	4.20	3.30	2.70	2.03	1.60	2.16
22.	2.92	9.87	9.95	11.43	8.15	5.56	4.20	3.23	2.70	2.00	1.61	2.30
23.	2.30	8.79	9.60	11.38	7.99	5.45	4.02	3.30	2.62	2.00	1.60	2.40
24.	2.30	10.18	11.06	11.26	7.90	5.30	4.01	3.20	2.53	1.93	1.53	3.10
25.	2.50	10.35	12.55	11.49	7.83	5.28	3.99	3.20	2.52	1.92	1.53	4.31
26.	2.96	9.84	12.21	11.70	7.70	5.19	3.92	3.22	2.50	1.93	1.52	5.67
27.	2.90	8.60	12.30	12.15	7.53	5.09	3.90	3.20	2.50	1.90	1.52	7.05
28.	3.00	8.29	12.93	12.17	7.45	5.07	3.84	3.13	2.43	1.90	1.52	6.78
29.	3.11		12.83	15.18	7.40	5.07	3.83	3.10	2.42	1.90	1.62	7.73
30.	4.35		13.66	12.74	7.26	4.98	3.81	3.10	2.42	1.90	1.64	5.99
31.	3.00		13.88		7.16		3.78	3.12		1.80		5.64
Mean.	2.94	9.46	11.78	12.06	7.70	5.26	3.95	3.19	2.53	1.93	1.57	4.83
Monthly Mean.	3.05	6.57	8.66	11.89	9.22	6.00	4.37	3.38	2.73	2.12	1.66	2.86
Max.	4.54	10.35	13.88	15.18	12.49	7.00	4.96	3.73	3.03	2.40	1.83	7.90
Date.	7	25	31	29	1	1	1	1	1	2	1	29
Min.	2.30	3.00	6.44	11.00	7.16	4.98	3.78	3.10	2.42	1.80	1.52	1.50
Date.	24	8	6	20	31	30	30	30	30	31	28	12

RIVER: GREAT RUJUA  
 STATION: KIDATU  
 STATION NO: 1KA.3  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.36	3.57	5.30	13.65	10.20	6.28	4.30	3.20	2.41	1.82	1.50	1.61
2.	5.26	3.70	5.50	13.80	10.00	6.13	4.30	3.13	2.32	1.80	1.42	1.60
3.	3.92	3.69	5.93	13.70	9.15	6.05	4.21	3.12	2.30	1.73	1.40	1.50
4.	3.60	4.01	5.84	12.90	9.05	6.01	4.32	3.10	2.30	1.72	1.40	1.50
5.	3.31	3.92	6.03	12.60	8.95	5.91	4.30	3.00	2.30	1.72	1.44	1.71
6.	2.90	3.62	6.32	11.60	8.80	5.83	4.20	2.95	2.30	1.70	1.47	1.71
7.	2.90	3.70	6.50	10.85	8.84	5.73	4.11	2.91	2.23	1.70	1.43	1.70
8.	2.90	3.63	7.84	10.40	8.83	5.65	4.02	2.90	2.21	1.90	1.40	2.40
9.	2.83	3.61	7.56	10.20	8.61	5.60	4.00	2.86	2.20	1.82	1.40	4.11
10.	2.82	3.60	7.28	9.95	8.52	5.52	4.00	2.81	2.20	1.82	1.40	4.51
Mean.	3.58	3.71	6.41	11.97	9.10	5.87	4.18	3.00	2.28	1.77	1.43	2.24
11.	2.82	4.93	8.23	9.45	8.31	5.41	3.91	2.80	2.20	1.82	1.40	4.18
12.	3.15	5.35	8.95	9.40	8.25	5.35	3.90	2.80	2.10	1.80	1.40	4.20
13.	3.10	5.46	9.08	9.25	8.20	5.31	3.88	2.73	2.10	1.73	1.38	4.74
14.	3.40	4.75	8.97	9.10	8.40	5.21	3.74	2.73	2.10	1.71	1.32	6.91
15.	4.04	5.13	8.72	9.00	7.93	5.20	3.70	2.72	2.03	1.70	1.31	6.72
16.	3.94	5.02	7.02	8.95	7.68	5.20	3.65	2.70	2.01	1.70	1.31	7.13
17.	4.11	5.13	7.02	8.85	7.62	5.20	3.60	2.63	2.00	1.62	1.30	6.10
18.	3.88	5.10	7.01	8.70	7.60	5.06	3.60	2.61	2.00	1.60	1.30	5.37
19.	3.98	4.93	6.93	8.50	7.50	5.00	3.52	2.60	2.00	1.60	1.30	4.51
20.	5.54	4.68	6.61	7.95	6.82	4.91	3.42	2.60	2.00	1.60	1.22	4.21
Mean.	3.80	5.05	7.85	8.92	7.83	5.19	3.69	2.69	2.05	1.69	1.32	5.41
21.	5.25	4.52	6.62	7.80	6.80	4.82	3.40	2.55	2.00	1.60	1.20	4.13
22.	4.32	4.67	6.71	7.65	6.70	4.73	3.40	2.63	2.00	1.61	1.20	3.30
23.	3.97	4.80	6.64	7.95	6.61	4.73	3.40	2.60	1.92	1.52	1.20	3.23
24.	3.52	4.72	7.53	8.20	6.51	4.61	3.32	2.60	1.91	1.50	1.20	3.00
25.	3.38	5.01	8.57	10.00	6.42	4.53	3.30	2.72	1.90	1.50	1.25	2.92
26.	3.32	5.03	10.36	10.00	6.40	4.51	3.22	2.63	1.90	1.52	1.98	2.80
27.	3.24	5.24	10.56	10.20	6.30	4.50	3.20	2.60	1.90	1.50	1.81	2.65
28.	3.12	5.20	10.95	10.50	6.80	4.40	3.20	2.58	1.90	1.50	1.88	2.70
29.	3.11		11.89	10.35	6.73	4.33	3.20	2.54	1.84	1.51	1.87	2.73
30.	3.02		13.14	10.30	6.81	4.30	3.20	2.50	1.82	1.51	1.80	2.99
31.	3.63		13.35		6.86		3.12	2.41		1.50		2.91
Mean.	3.66	4.90	9.67	9.30	6.63	4.55	3.27	2.58	1.91	1.52	1.54	3.03
Monthly Mean.	3.67	4.53	8.03	10.06	7.81	5.20	3.70	2.75	2.08	1.66	1.43	3.54
Max.	5.56	5.48	13.40	13.90	10.25	6.32	4.33	3.20	2.42	1.90	2.02	7.20
Date.	20	13	31	2	1	1	4	1	1	8	26	16
Min.	3.67	4.53	8.03	10.06	7.81	5.20	3.70	2.75	2.08	1.66	1.43	3.54
Date.	11	1	1	22	27	30	31	31	30	31	25	4



RIVER: GREAT RUAHA  
 STATION: MBUYUNI  
 STATION NO: IKA.4  
 YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.95	3.75	8.96	11.98	8.60	7.24	5.90	4.80	4.10	3.80	3.40	3.30
2.	3.45	4.80	9.48	11.92	8.70	7.17	5.90	4.80	4.10	3.71	3.35	3.30
3.	3.90	5.05	10.16	10.50	8.70	7.10	5.80	4.80	4.10	3.70	3.35	3.30
4.	3.90	5.80	11.31	10.02	8.70	7.01	5.75	4.75	4.10	3.70	3.35	3.20
5.	3.95	6.50	10.62	10.09	9.06	6.93	5.70	4.70	4.10	3.70	3.35	3.20
6.	3.90	6.60	10.87	10.02	8.87	6.90	5.68	4.70	4.10	3.65	3.40	3.20
7.	3.90	6.50	11.19	9.54	9.05	6.80	5.54	4.66	4.05	3.65	3.58	3.20
8.	3.90	6.15	11.48	9.48	8.97	6.77	5.50	4.60	4.00	3.65	3.55	3.20
9.	3.85	6.35	10.69	9.47	8.58	6.70	5.50	4.60	4.00	3.65	3.45	3.20
10.	3.80	6.70	10.03	9.60	8.42	6.44	5.45	4.60	4.00	3.60	3.40	3.20
Mean.	3.85	5.82	10.48	10.26	8.76	6.91	5.67	4.70	4.06	3.68	3.42	3.23
11.	3.80	6.25	9.46	9.50	8.30	6.60	5.40	4.59	4.00	3.60	3.30	3.20
12.	3.80	6.30	9.23	9.24	8.21	6.60	5.40	4.50	4.00	3.60	3.30	3.20
13.	4.85	6.25	9.24	9.74	8.10	6.50	5.50	4.50	4.00	3.60	3.30	3.35
14.	4.30	7.55	9.14	9.51	8.01	6.45	5.42	4.50	4.00	3.60	3.25	4.00
15.	3.90	7.70	9.10	9.20	8.00	6.52	5.30	4.50	4.00	3.55	3.28	4.42
16.	3.40	7.35	9.10	9.54	7.90	6.81	5.22	4.50	4.00	3.50	3.25	4.03
17.	3.90	7.70	9.10	10.19	7.80	6.83	5.20	4.45	4.00	3.50	3.30	4.15
18.	3.80	8.30	9.10	9.66	7.71	6.76	5.20	4.40	3.90	3.50	3.46	8.10
19.	3.80	8.75	9.04	9.38	7.70	6.49	5.15	4.40	3.90	3.50	3.53	6.48
20.	3.90	9.10	9.04	9.20	7.60	6.40	5.10	4.35	3.90	3.50	3.46	5.89
Mean.	3.94	7.52	9.15	9.52	7.93	6.60	5.29	4.47	3.97	3.54	3.34	4.68
21.	3.90	9.15	9.10	9.20	7.60	6.36	5.10	4.33	3.90	3.45	3.33	6.07
22.	3.90	9.35	9.10	9.10	7.60	6.40	5.10	4.30	3.90	3.40	3.33	4.95
23.	3.90	9.80	9.10	9.01	7.60	6.32	5.05	4.29	3.80	3.40	3.34	4.50
24.	4.00	9.90	9.10	9.00	7.54	6.25	5.00	4.25	3.80	3.40	3.60	4.40
25.	4.00	10.10	9.19	8.94	7.52	6.20	4.97	4.20	3.80	3.40	3.40	4.27
26.	4.20	10.45	9.38	8.87	7.67	6.10	4.95	4.20	3.80	3.40	3.30	5.98
27.	4.30	9.60	9.50	8.48	7.61	6.10	4.95	4.20	3.80	3.40	3.30	5.90
28.	4.60	9.35	9.30	8.70	7.48	6.00	4.90	4.20	3.80	3.50	3.30	6.33
29.	4.40		9.34	8.66	7.50	6.00	4.90	4.15	3.80	3.45	3.30	5.30
30.	4.90		10.03	8.60	7.43	5.96	4.90	4.15	3.80	3.40	3.30	5.03
31.	4.80		9.84		7.32		4.80	4.10		3.40		4.90
Mean.	4.26	9.71	9.36	8.86	7.53	6.17	4.96	4.21	3.82	3.42	3.35	5.24
Monthly Mean.	4.03	7.54	9.66	9.54	8.06	6.56	5.30	4.45	3.95	3.54	3.37	4.41
Max.	4.90	10.50	11.50	12.30	9.10	7.30	5.90	4.80	4.10	3.80	3.60	8.40
Date.	30	26	8	2	7	1	2	3	6	1	24	18
Min.	3.00	4.70	8.90	8.00	7.30	5.95	4.80	4.10	3.80	3.40	3.25	3.20
Date.	16	1	1	27	31	30	31	31	30	31	16	12

RIVER: GREAT RUAK  
 STATION: MBUYUNI  
 STATION NO: IKA.4  
 YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.73	14.78	13.10	11.40	11.93	8.95	7.05	5.95	5.00	4.45	4.15	3.60
2.	4.55	14.47	14.41	11.40	11.80	8.90	7.00	5.90	5.00	4.40	4.05	3.60
3.	4.60	14.27	14.22	11.46	11.40	8.77	6.90	5.90	4.95	4.40	4.00	3.60
4.	4.92	13.75	13.16	12.28	11.33	8.70	6.79	5.90	4.95	4.40	3.95	3.78
5.	7.80	12.73	12.81	12.58	11.15	8.60	6.82	5.95	4.90	4.40	3.95	4.69
6.	9.02	13.33	12.49	12.65	11.00	8.50	6.83	5.87	4.90	4.40	4.00	4.45
7.	12.91	13.40	12.31	12.88	10.90	8.45	6.81	5.80	4.85	4.36	3.95	4.13
8.	15.39	12.75	12.20	13.63	10.80	8.44	6.75	5.80	4.80	4.30	4.00	4.00
9.	13.65	12.25	12.15	14.06	10.66	8.40	6.70	5.75	4.80	4.30	4.00	3.98
10.	12.98	12.30	12.15	13.60	10.60	8.30	6.70	5.70	4.80	4.25	3.95	3.90
Mean.	9.05	13.40	12.90	12.59	11.16	8.60	6.83	5.85	4.89	4.36	4.00	3.97
11.	10.86	12.60	12.21	13.60	10.50	8.20	6.63	5.70	4.80	4.25	3.90	3.90
12.	9.25	12.21	12.35	13.70	10.38	8.14	6.60	5.65	4.75	4.20	3.90	3.90
13.	7.81	12.37	12.20	13.64	10.32	8.10	6.55	5.65	4.75	4.20	3.90	3.90
14.	7.18	12.31	12.11	13.30	10.13	8.05	6.50	5.60	4.75	4.20	3.87	3.90
15.	7.25	12.71	12.10	13.06	10.10	8.05	6.50	5.60	4.70	4.20	3.85	3.90
16.	7.14	12.73	12.11	12.60	10.00	7.90	6.45	5.60	4.70	4.15	3.80	3.90
17.	7.71	13.22	12.10	12.32	9.94	7.85	6.40	5.55	4.65	4.15	3.80	4.00
18.	9.97	12.90	12.00	12.03	9.88	7.75	6.40	5.50	4.65	4.10	3.75	3.95
19.	14.07	12.45	12.08	11.75	9.80	7.70	6.35	5.45	4.65	4.10	3.75	3.90
20.	13.78	15.00	12.05	11.80	9.70	7.70	6.30	5.35	4.60	4.10	3.75	3.90
Mean.	9.50	12.85	12.13	12.78	10.07	7.94	6.47	5.56	4.70	4.16	3.83	3.91
21.	15.82	16.26	12.00	11.80	9.61	7.65	6.25	5.30	4.60	4.10	3.75	3.90
22.	16.53	14.87	11.93	11.80	9.55	7.65	6.25	5.30	4.60	4.10	3.70	3.90
23.	15.43	13.88	11.93	11.70	9.50	7.50	6.20	5.30	4.60	4.05	3.70	3.95
24.	14.19	13.50	11.90	11.71	9.45	7.45	6.11	5.25	4.55	4.05	3.65	3.95
25.	14.27	13.08	11.85	11.71	9.40	7.40	6.15	5.20	4.55	4.05	3.65	4.45
26.	14.50	13.01	11.78	12.26	9.35	7.35	6.10	5.20	4.55	4.00	3.65	4.23
27.	14.38	12.86	11.60	12.20	9.30	7.30	6.10	5.15	4.50	4.00	3.60	4.43
28.	15.11	13.09	11.50	12.30	9.30	7.20	6.05	5.15	4.60	4.00	3.60	5.06
29.	15.30	12.71	11.50	12.08	9.21	7.14	6.00	5.10	4.50	4.00	3.65	5.40
30.	15.31		11.40	12.30	9.15	7.10	6.00	5.05	4.45	4.00	3.65	5.35
31.	14.87		11.41		9.02		5.95	5.05		4.00		4.80
Mean.	15.06	13.69	11.71	11.99	9.35	7.37	6.10	5.19	4.55	4.03	3.66	4.49
Monthly												
Mean.	11.33	13.30	12.23	12.45	10.16	7.71	6.46	5.52	4.71	4.18	3.83	4.14
Max.	16.60	16.40	14.60	14.10	12.00	8.95	7.05	5.95	5.00	4.45	4.15	5.40
Date.	22	21	2	9	1	1	1	1	2	1	1	30
Min.	4.50	12.10	11.40	11.40	9.00	7.10	5.95	5.05	4.45	4.00	3.60	3.60
Date.	2	19	31	3	31	30	31	31	30	31	28	3

RIVER: GREAT RUAHA  
STATION : MBUYUNI  
STATION NO: IKA-4  
YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.83	9.09	11.60	9.40	11.98	(9.70	7.30	6.10	5.25	4.85	4.20	3.80
2.	4.97	11.17	11.67	9.43	11.80	9.60	7.20	6.10	5.25	4.85	4.20	3.80
3.	4.75	11.97	11.63	9.55	11.65	9.57	7.15	6.10	5.20	4.80	4.15	3.80
4.	4.60	12.20	11.70	9.60	11.55	9.47	7.10	6.05	5.20	4.80	4.15	3.80
5.	4.60	12.20	11.70	9.55	11.58	9.38	7.00	6.00	5.15	4.75	4.20	3.75
6.	4.78	11.81	11.63	9.50	11.96	9.27	7.00	6.00	5.15	4.75 <sup>m</sup>	4.20	3.75
7.	5.45	11.95	11.53	9.57	11.89	9.15	7.00	5.97	5.15	4.70	4.15	3.75
8.	5.43	12.57	11.39	10.22	11.98	9.07	6.95	5.95	5.10	4.70	4.15	3.75
9.	5.20	12.98	11.25	10.18	11.78	8.96	6.90	5.95	5.10	4.70	4.10	3.75
10.	5.20	12.87	11.10	9.98	11.67	8.85	6.85	5.90	5.05	4.65	4.10	3.73
Mean.	4.98	11.88	11.52	9.70	11.78	9.30	7.05	6.01	5.16	4.76	4.16	3.77
11.	5.24	11.83	11.00	9.83	11.60	8.76	6.80	5.90	5.05	4.65	4.10	4.00
12.	5.27	11.33	10.90	9.73	11.60	8.66	6.75	5.85	5.05	4.60	4.05	4.05
13.	5.50	11.70	10.75	9.75	11.50	8.55	6.70	5.80	5.05	4.60	4.05	4.05
14.	7.94	12.00	10.75	9.70	11.45	8.48	6.70	5.80	5.05	4.60	4.05	4.00
15.	7.40	11.65	10.63	10.34	11.40	8.39)	6.65	5.75	5.05	4.60	4.00	4.15
16.	9.27	12.30	10.40	12.34	11.35	8.30	6.60	5.75	5.05	4.55	4.00	4.10
17.	8.04	11.87	10.40	13.04	11.35	8.20	6.55	5.70	5.05	4.55	4.00	4.25
18.	7.63	11.33	10.53	13.00	11.30	8.15	6.50	5.70	4.95	4.55	3.95	4.10
19.	7.00	11.20	10.30	13.13	11.25	8.10	6.50	5.70	4.95	4.50	3.95	4.17
20.	6.55	11.10	10.13	14.92	11.20	7.98	6.50	5.65	4.95	4.45	3.95	4.33
Mean.	6.99	11.63	10.58	11.58	11.40	8.36	6.63	5.76	5.02	4.57	4.01	4.12
21.	6.35	11.20	10.03	15.21	11.12	7.90	6.53	5.65	4.90	4.40	3.90	4.57
22.	6.20	11.30	9.87	16.10	11.00	7.63	6.43	5.55	4.90	4.35	3.90	4.57
23.	6.12	11.42	9.68	16.57	10.87	7.80	6.35	5.55	4.90	4.35	3.90	4.43
24.	6.00	11.50	9.60	16.77	10.70	7.78	6.35	5.50	4.85	4.35	3.85	4.29
25.	6.00	11.50	9.55	17.73	10.60	7.65	6.30	5.50	4.85	4.30	3.85	4.20
26.	5.99	11.50	9.48	16.10	10.40	7.62	6.25	5.50	5.45	4.30	3.85	4.32
27.	6.00	11.60	9.45	14.68	10.30	7.50	6.25	5.35	5.00	4.25	3.85	4.60
28.	6.10	11.60	9.53	13.58	10.20	7.45	6.20	5.35	4.95	4.25	3.80	4.71
29.	7.03		9.65	12.73	10.00	7.40	6.20	5.30	4.90	4.25	3.80	4.80
30.	7.75		9.54	12.29	9.88	7.35	6.15	5.30	4.90	4.25	3.80	4.93
31.	8.30		9.47		9.73		6.15	5.30		4.22		5.39
Mean.	6.53	11.43	9.62	15.18	10.44	7.61	6.29	5.44	4.96	4.30	3.85	4.61
Monthly												
Mean.	6.87	11.66	10.54	12.15	11.18	8.42	6.64	5.73	5.05	4.53	4.01	4.18
( ) Correlation Mbuyuni - Kidatu - Mtera												
Max.	9.55	13.10	11.70	17.80	12.05	9.70	7.30	6.10	5.25	4.85	4.20	5.50
Date.	16.	9	2-5	25	1	1	1	1-3	1-2	1-2	1-2	31
Min.	4.60	8.50	9.40	9.40	9.70	7.35	6.15	5.30	4.90	4.20	3.80	3.70
Date.	4.5	1	31	1-2	31	30	30-31	29-31	29-30	31	28-30	10

RIVER: GREAT RUAHA.  
STATION: MBUYUNI  
STATION NO: IKA.4  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.77	7.08	9.74	14.74	12.17	8.30	6.60	5.70	5.00	4.55	4.20	4.11
2.	5.68	6.85	8.72	15.09	12.00	8.20	6.55	5.65	5.00	4.55	4.20	3.96
3.	5.28	6.32	8.52	14.11	11.95	8.15	6.54	5.55	5.00	4.53	4.15	3.62
4.	5.13	6.08	8.40	13.47	11.68	8.10	6.51	5.50	4.93	4.53	4.14	3.62
5.	5.00	6.00	8.22	13.05	11.45	8.05	6.44	5.50	4.93	4.50	4.14	3.68
6.	6.64	5.90	8.17	12.73	11.58	8.00	6.40	5.50	4.95	4.50	4.14	3.70
7.	6.43	6.14	8.65	12.43	11.65	7.95	6.35	5.45	4.93	4.50	4.12	3.78
8.	6.03	5.83	8.83	12.30	11.45	7.90	6.31	5.45	4.90	4.47	4.10	3.80
9.	5.60	5.93	8.30	12.30	11.08	7.75	6.30	5.40	4.90	4.45	4.08	3.78
10.	5.62	6.19	8.07	12.30	10.75	7.65	6.25	5.40	4.83	4.45	4.04	3.76
Mean.	5.72	6.23	8.56	13.25	11.58	8.01	6.43	5.51	4.94	4.50	4.13	3.78
11.	5.38	7.07	8.45	12.35	10.52	7.58	6.25	5.40	4.83	4.43	4.02	3.68
12.	5.41	7.10	8.70	12.36	10.30	7.50	6.20	5.35	4.85	4.43	4.00	3.66
13.	5.30	8.10	8.50	12.40	10.25	7.45	6.20	5.35	4.85	4.40	3.98	3.64
14.	5.22	8.19	8.54	12.40	10.07	7.40	6.15	5.33	4.83	4.40	3.96	4.26
15.	5.15	9.19	8.73	12.25	9.90	7.35	6.15	5.30	4.78	4.40	3.94	4.33
16.	4.93	9.18	8.51	12.20	9.80	7.30	6.10	5.30	4.73	4.40	3.92	3.98
17.	4.88	10.74	8.58	12.18	9.64	7.25	6.05	5.23	4.75	4.38	3.90	4.32
18.	4.76	11.72	9.06	12.20	9.45	7.20	6.05	5.25	4.75	4.35	3.88	4.16
19.	4.68	11.35	9.60	12.21	9.30	7.15	6.00	5.23	4.70	4.35	3.88	4.26
20.	4.63	11.30	9.18	12.25	9.20	7.10	6.00	5.20	4.63	4.35	3.86	4.33
Mean.	5.03	9.39	8.79	12.28	9.84	7.33	6.12	5.29	4.77	4.39	3.93	4.06
21.	4.60	12.24	10.42	12.30	9.15	7.05	5.95	5.13	4.65	4.32	3.86	4.56
22.	4.71	11.50	11.21	12.20	9.10	7.00	5.95	5.15	4.65	4.32	3.84	4.80
23.	4.90	11.70	11.63	12.10	9.04	6.90	5.90	5.13	4.63	4.32	3.82	5.26
24.	5.05	12.76	13.70	12.45	9.00	6.85	5.85	5.10	4.63	4.30	3.82	5.75
25.	5.61	12.18	14.36	12.40	8.90	6.80	5.85	5.10	4.60	4.30	3.80	6.60
26.	5.83	11.28	14.00	12.40	8.85	6.80	5.80	5.10	4.60	4.30	3.80	9.21
27.	5.68	10.45	14.76	12.68	8.70	6.75	5.75	5.03	4.60	4.30	3.78	9.03
28.	5.60	10.34	14.72	12.10	8.60	6.70	5.75	5.03	4.60	4.27	3.78	9.39
29.	6.96		14.70	12.59	8.50	6.65	5.70	5.05	4.53	4.25	3.76	10.50
30.	6.46		14.98	13.28	8.40	6.60	5.75	5.05	4.53	4.25	3.98	9.00
31.	7.83		15.05		8.37		5.70	5.03		4.23		8.53
Mean.	5.75	11.56	13.59	12.45	8.78	6.81	5.81	5.08	4.60	4.29	3.82	7.51
Monthly Mean.	5.51	8.88	10.42	12.66	10.03	7.38	6.11	5.29	4.77	4.39	3.96	5.20
Max.	7.90	12.80	15.10	15.10	12.20	8.30	6.60	5.70	5.00	4.55	4.20	10.86
Date.	31	24	31	2	1	1	1	1	3	1	2	29
Min.	4.60	5.80	8.00	12.10	8.35	6.60	5.70	5.03	4.53	4.23	3.76	3.62
Date.	21	8	10	23	31	30	31	31	30	31	29	4



RIVER: GREAT WJAJHA  
 STATION: MBUYUNI  
 STATION NO: LKA.4  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	7.29	6.09	7.64	15.25	10.78	7.80	6.26	5.30	4.62	4.26	3.80	3.60
2.	6.28	6.18	7.71	15.38	10.67	7.76	6.22	5.28	4.70	4.24	3.78	3.65
3.	5.86	6.04	7.84	14.65	10.49	7.70	6.20	5.24	4.68	4.24	3.78	3.70
4.	5.72	6.10	9.56	13.89	10.25	7.60	6.20	5.22	4.62	4.22	3.78	3.75
5.	5.46	6.10	8.71	13.04	10.49	7.51	6.14	5.20	4.62	4.20	3.74	3.75
6.	5.27	6.23	8.98	12.16	10.12	7.40	6.10	5.18	4.60	4.18	3.72	4.02
7.	5.15	6.20	9.51	11.40	10.01	7.36	6.10	5.14	4.60	4.16	3.70	4.69
8.	5.02	6.26	9.82	10.79	9.93	7.30	6.08	5.10	4.60	4.16	3.76	5.71
9.	5.00	6.30	10.03	10.50	9.81	7.24	6.04	5.08	4.58	4.14	3.76	7.03
10.	5.06	6.47	10.36	10.44	9.70	7.20	6.02	5.06	4.58	4.14	3.80	6.67
Mean.	5.61	6.20	9.02	12.75	10.23	7.49	6.14	5.18	4.62	4.19	3.76	4.66
11.	5.12	6.74	10.63	10.32	9.62	7.10	6.00	5.02	4.56	4.12	3.80	6.63
12.	5.65	6.52	11.10	10.59	9.50	7.00	5.98	5.00	4.54	4.12	3.78	7.18
13.	5.95	6.86	11.38	10.47	9.40	6.90	5.97	5.00	4.54	4.10	3.76	8.34
14.	6.39	7.35	11.50	10.57	9.30	6.86	5.91	5.00	4.52	4.10	3.78	9.13
15.	6.40	7.34	11.59	10.70	9.26	6.82	5.81	4.98	4.52	4.10	3.80	9.40
16.	6.39	7.47	9.85	10.85	9.20	6.80	5.78	4.98	4.50	4.08	3.82	8.82
17.	6.51	7.39	9.60	10.80	9.10	6.78	5.74	4.96	4.50	4.08	3.80	7.08
18.	6.65	7.33	9.15	10.80	9.00	6.76	5.70	4.94	4.48	4.06	3.76	6.67
19.	6.78	7.16	8.95	10.86	8.91	6.70	5.66	4.92	4.46	4.04	3.70	6.12
20.	6.66	7.01	8.78	11.09	8.80	6.64	5.62	4.90	4.42	3.02	3.68	5.82
Mean.	6.25	7.12	10.25	10.71	9.21	6.84	5.82	4.97	4.50	4.08	3.77	7.52
21.	6.56	7.20	9.41	10.90	8.70	6.62	5.60	4.88	4.42	4.02	3.64	5.70
22.	6.33	7.10	9.13	10.90	8.63	6.60	5.58	4.86	4.38	4.00	3.60	5.52
23.	6.16	7.03	9.83	10.94	8.50	6.54	5.54	4.80	4.38	3.96	3.67	5.39
24.	6.01	7.15	10.33	10.97	8.40	6.50	5.50	4.80	4.36	3.96	3.71	5.28
25.	5.84	7.20	11.02	11.00	8.31	6.46	5.46	4.78	4.36	3.92	3.75	5.17
26.	5.81	7.36	11.76	11.00	8.22	6.39	5.42	4.78	4.34	3.90	3.78	5.10
27.	5.81	7.51	12.28	11.00	8.20	6.36	5.40	4.76	4.32	3.88	3.80	5.03
28.	5.78	7.53	13.77	11.00	8.10	6.34	5.38	4.74	4.30	3.86	3.81	5.41
29.	5.74		14.19	11.10	8.00	6.30	5.38	4.70	4.28	3.84	3.75	5.41
30.	6.05		14.53	10.93	7.90	6.28	5.84	4.68	4.26	3.82	3.64	5.29
31.	6.14		15.10		7.84		5.30	4.66		3.80		5.21
Mean.	6.02	7.26	11.94	10.97	9.08	6.44	5.45	4.77	4.34	3.91	3.72	5.59
Monthly Mean	5.96	6.83	10.45	11.48	9.20	6.92	5.79	4.97	4.49	4.06	3.75	5.91
Max.	7.29	7.58	15.10	15.50	10.78	7.80	6.26	5.30	4.70	4.26	3.82	9.40
Date.	1	28	31	2	1	1	1	1	2	28	1	15
Min.	5.00	6.02	7.60	10.30	7.84	6.28	5.30	4.66	4.26	3.80	3.60	3.60
Date.	9	3	1	11	31	30	31	31	30	31	22	1



RIVER: GREAT RUAHA  
 STATION: MTEBA  
 STATION NO: IKA.5  
 YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.00	2.85	(9.50	12.55	7.90	6.00	(4.90	(4.00	3.60	3.10	2.70	2.10
2.	3.00	4.05	10.40	10.68	7.80	6.0 <sup>U</sup>	4.90	4.00	3.60	3.10	2.70	2.10
3.	3.05	4.80	11.80	10.10	7.70	6.00	4.90	4.00	3.60	3.10	2.70	2.00
4.	3.05	5.55	10.90	9.84	7.70	6.00	4.90	3.90	3.50	3.10	2.70	2.00
5.	3.00	5.65	11.20)	9.40	7.70	5.90	4.90	3.90	3.50	3.10	2.70	2.00
6.	2.97	5.35	11.35	9.10	7.66	5.80	4.80	3.90	3.50	3.10	2.60	2.00
7.	2.90	5.05	11.84	9.02	7.70	5.70	4.80	3.90	3.50	3.10	2.60	2.00
8.	2.90	5.00	11.18	9.00	7.50	5.70	4.80	3.90	3.50	3.10	2.60	2.00
9.	2.85	5.15	10.20	8.96	7.50	5.60	4.80	3.90	3.50	3.00	2.60	2.00
10.	2.80	4.95	9.52	8.74	7.40	5.60	4.80	3.80	3.50	3.00	2.60	2.24
Mean.	2.95	4.94	10.79	9.74	7.66	5.83	4.85	3.92	3.53	3.08	2.65	2.04
11.	2.80	4.90	9.22	8.70	7.30	5.50	4.70	3.80	3.40	3.00	2.60	2.30
12.	2.80	5.20	9.06	8.60	7.30	5.50	4.70	3.80	3.40	3.00	2.60	2.30
13.	2.80	5.75	9.00	8.60	7.30	5.40	4.70	3.80	3.40	3.00	2.60	2.40
14.	2.80	6.05	8.96	8.50	7.18	5.40	4.70)	3.80	3.40	3.00	2.60	2.40
15.	2.83	6.50	8.90	8.40	7.10	5.30	4.70	3.80	3.40	3.00	2.60	2.58
16.	2.82	6.70	8.90	8.40	7.00	5.20	4.70	3.80	3.40	3.00	2.50	6.80
17.	2.85	7.35	8.90	8.40	6.90	5.20	4.60	3.80	3.40	2.90	2.50	6.90
18.	2.93	7.40	8.90	8.40	6.90	5.20	4.60	3.70	3.40	2.90	2.50	5.20
19.	3.00	8.10	8.90	8.50	6.80	5.10	4.50	3.70	3.40	2.90	2.50	5.20
20.	3.02	8.40	8.90	8.52	6.70	5.10	4.50	3.70	3.30	2.90	2.50	5.20
Mean.	2.86	6.64	8.96	8.50	7.05	5.29	4.64	3.77	3.39	2.96	2.55	4.13
21.	3.03	8.95	8.90	8.42	6.60	5.10	4.50	3.70	3.30	2.90	2.50	5.10
22.	3.05	9.45	8.96	8.32	6.50	5.10	4.40	3.70	3.30	2.80	2.40	5.10
23.	3.10	9.60	9.00	8.30	6.50	5.00	4.40	3.70	3.20	2.80	2.40	5.00
24.	3.12	9.95	8.92	8.30	6.40	5.00	4.40	3.70	3.20	2.80	2.40	5.00
25.	2.95	10.50	9.00	8.30	6.30	5.00	4.30	3.70	3.20	2.80	2.40	5.00
26.	2.90	9.55	9.26	8.30	6.30	5.0 <sup>U</sup>	(4.30	3.70	3.20	2.80	2.40	5.00
27.	2.90	9.40	9.06	8.20	6.30	5.00	4.20	3.60	3.20	2.80	2.40	5.00
28.	3.10	(8.80)	9.00	8.10	6.20	5.10	4.20	3.60	3.20	2.80	2.30	(4.50
29.	3.25	-	9.00	8.10	6.20	5.00	4.20	3.60	3.20	2.80	2.30	4.20
30.	3.60	-	9.16	8.00	6.20	4.90	4.10	3.60	3.10	2.80	2.10	3.90
31.	3.65	-	12.32	-	6.10	-	4.10)	3.60)	-	2.80	-	3.80)
Mean.	3.15	9.53	9.33	8.23	6.33	5.02	4.28	3.65	3.21	2.81	2.36	4.69
Monthly Mean.	2.99	6.86	9.68	8.82	6.99	5.38	4.58	3.78	3.38	2.94	2.52	3.66
Max.	3.80	10.60	12.60	12.80	7.90	6.00	4.90	4.00	3.60	3.10	2.70	9.30
Date.	31	25	31	1	1	4	5	3	3	8	5	16
Min.	2.80	3.80	8.90	8.00	6.10	4.90	4.10	3.60	3.10	2.80	2.10	2.00
Date.	16.	1	22	30	31	30	31	31	30	31	30	9

RIVER: GREAT RUAHA  
STATION: MUFRA  
STATION NO: IKA.5  
YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	(3.70)	15.74	15.56	12.20	12.02	8.44	6.20	4.90	3.80	3.32	2.91	2.60
2.	5.08	15.60	16.14	12.20	11.80	8.30	6.14	4.92	3.80	3.32	2.85	2.60
3.	5.30	15.26	14.90	12.50	11.70	8.30	6.10	4.92	3.80	3.32	2.85	2.82
4.	6.08	13.94	13.90	12.92	11.60	8.20	6.00	4.88	3.74	3.32	2.85	2.90
5.	8.93	13.68	13.60	12.90	11.40	8.10	6.00	4.80	3.75	3.32	2.80	2.70
6.	13.66	14.64	13.44	13.04	11.30	8.00	5.90	4.76	3.70	3.35	2.87	2.82
7.	16.94	13.70	13.30	13.80	11.20	7.84	5.90	4.70	3.70	3.27	2.87	2.92
8.	15.22	13.02	13.18	15.20	11.10	7.80	5.80	4.70	3.62	3.20	2.80	2.90
9.	13.90	12.94	15.10	14.90	11.00	7.80	5.80	4.70	3.65	3.20	2.80	2.90
10.	12.86	13.72	13.10	14.80	10.90	7.72	5.74	4.65	3.64	3.17	2.80	2.90
Mean.	10.16	14.22	14.02	13.45	11.40	8.05	5.95	4.79	3.72	3.28	2.80	2.81
11.	12.32	12.96	13.10	14.86	10.70	7.60	5.70	4.60	3.60	3.10	2.80	2.90
12.	10.24	12.62	13.10	14.90	10.30	7.58	5.60	4.60	3.60	3.10	2.81	2.90
13.	6.64	13.00	13.10	14.70	10.30	7.50	5.60	4.35	3.60	3.11	2.82	2.90
14.	6.84	12.64	13.10	14.26	10.30	7.40	5.50	4.40	3.52	3.12	2.79	2.90
15.	6.50	14.08	13.00	14.08	10.20	7.30	5.50	4.30	3.52	3.16	2.70	2.95
16.	6.30	13.32	13.10	13.30	10.10	7.20	5.40	4.45	3.52	3.17	2.70	2.95
17.	8.12	14.68	13.00	13.00	10.00	7.10	5.40	4.34	3.55	3.00	2.70	2.80
18.	12.20	12.60	13.10	12.76	10.00	7.10	5.40	4.37	3.50	3.00	2.71	2.80
19.	13.30	15.24	13.10	12.50	9.80	7.00	5.30	4.30	3.50	3.02	2.75	2.93
20.	16.92	17.00	12.90	12.50	9.80	6.90	5.30	4.30	3.52	3.02	2.60	2.90
Mean.	9.94	13.81	13.06	13.68	10.15	7.27	5.47	4.40	3.54	3.08	2.74	2.89
21.	18.50	16.22	12.90	12.50	9.80	6.90	5.20	4.23	3.52	3.02	2.60	2.90
22.	17.08	15.00	12.80	12.50	9.58	6.80	5.20	4.22	3.52	3.02	2.60	3.17
23.	15.44	14.76	12.80	12.50	9.30	6.74	5.10	4.12	3.50	3.05	2.60	3.65
24.	14.72	14.30	12.80	12.60	9.20	6.68	5.10	4.10	3.40	3.05	2.60	3.26
25.	15.08	14.00	12.70	12.60	9.20	6.60	5.10	4.08	3.42	3.07	2.60	3.10
26.	14.84	13.78	12.40	12.62	9.00	6.50	5.00	4.04	3.40	2.90	2.61	3.15
27.	16.02	13.92	12.40	12.60	9.00	6.40	5.00	4.05	3.30	2.92	2.62	3.41
28.	16.82	13.72	12.20	12.40	8.96	6.40	(4.98)	4.05	3.30	2.92	2.65	4.12
29.	16.40	13.64	12.10	12.20	8.60	6.30	(4.96)	4.05	3.30	(2.93)	2.65	3.57
30.	16.52		12.20	12.10	8.60	6.28	(4.94)	4.00	3.30	2.95	2.60	3.40
31.	16.30		12.20		8.60		(4.92)	3.94		2.95		3.70
Mean.	16.16	14.39	12.50	12.46	8.26	6.56	5.05	4.08	3.40	2.98	2.61	3.40
Monthly												
Mean.	12.10	14.14	13.17	13.20	10.21	7.29	5.80	4.41	3.55	3.11	2.72	3.05
Max.	19.00	17.10	16.20	15.20	12.10	8.50	6.20	4.93	3.80	3.38	2.95	4.15
Date.	21	20	2	8	1	1	1	3	3	1	7	28
Min.	3.70	12.50	12.10	12.10	8.60	6.20	4.92	3.90	3.30	2.90	2.60	2.60
Date.	1	22	29	30	31	30	31	31	30	26	30	3

RIVER : GREAT RUAHA  
 STATION : MTERA  
 STATION NO: IKA.5  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.12	10.73	12.70	9.80	12.77	10.00	7.05	*5.30	4.10	3.20	2.80	2.60
2.	4.10	11.67	12.73	9.90	12.65	9.90	7.00	5.20	4.10	3.20	2.80	2.60
3.	4.05	12.45	12.70	9.90	12.53	9.95	6.90	5.20	4.10	3.20	2.70	2.60
4.	4.12	12.62	12.70	9.90	12.42	9.78	6.80	5.20	4.00	3.20	2.70	2.50
5.	4.10	11.83	12.57	9.90	12.35	9.60	6.85	5.10	4.00	3.20	2.70	2.50
6.	4.10	11.80	12.50	9.90	12.20	9.52	6.75	5.10	4.00	3.20	2.70	2.50
7.	4.17	12.40	12.40	10.00	12.22	9.37	6.60	5.10	3.90	3.10	2.70	2.50
8.	4.20	13.87	12.27	10.10	12.20	9.30	6.50	5.00	3.90	3.10	2.70	2.50
9.	4.20	13.90	12.10	10.10	12.17	9.13	6.40	5.00	3.90	3.10	2.70	2.50
10.	4.33	12.67	12.00	10.00	12.15	9.00	6.42	4.90	3.80	3.10	2.70	2.50
Mean.	4.15	12.39	12.47	9.96	12.37	9.56	6.93	5.11	3.98	3.16	2.72	2.53
11.	4.47	12.00	11.80	10.00	12.15	8.88	6.40	4.90	3.80	3.00	2.70	2.80
12.	5.47	12.27	11.70	10.00	12.15	8.78	6.30	4.80	3.80	3.00	2.70	2.80
13.	8.23	12.83	11.60	10.00	12.15	8.60	6.29	4.80	3.70	3.00	2.70	2.80
14.	6.93	12.30	11.60	10.00	12.12	8.50	6.22	4.80	3.70	3.00	2.70	2.80
15.	9.83	13.20	11.47	10.70	12.05	8.40	6.22	4.80	3.70	3.00	2.70	2.80
16.	7.87	12.50	11.27	12.00	12.05	8.30	6.20	4.70	3.70	2.90	2.60	2.90
17.	7.33	11.80	11.30	12.53	11.90	8.20	6.10	4.70	3.60	2.90	2.60	3.10
18.	6.60	11.70	11.13	13.10	11.90	8.12	6.10	4.60	3.60	2.90	2.60	3.00
19.	6.10	11.50	10.80	15.93	11.80	8.00	6.00	4.60	3.60	2.90	2.60	3.00
20.	5.90	11.70	10.67	16.87	11.70	7.90	6.06	4.60	3.60	2.90	2.60	3.20
Mean.	6.87	12.18	11.33	12.11	12.00	8.37	6.01	4.73	3.68	2.95	2.65	2.92
21.	5.90	11.80	10.50	17.20	11.64	7.80	5.90	4.50	3.50	2.90	2.60	3.40
22.	5.90	11.90	10.40	15.40	11.48	7.70	5.90	4.50	3.50	2.90	2.60	3.60
23.	5.63	12.00	10.28	18.53	11.30	7.60	5.80	4.40	3.50	2.90	2.60	3.60
24.	5.33	12.00	10.20	20.53	11.13	7.50	5.83	4.40	3.40	2.90	2.60	3.60
25.	5.20	12.00	10.17	19.28	10.98	7.55	5.80	4.40	3.40	2.90	2.60	3.40
26.	5.30	12.20	10.00	17.05	10.80	7.40	5.70	4.30	3.40	2.80	2.60	3.20
27.	5.48	12.20	10.00	15.43	10.68	7.42	5.60	4.30	3.30	2.80	2.60	3.70
28.	6.50	12.20	10.00	14.45	10.48	7.25	5.65	4.20	3.30	2.80	2.60	3.70
29.	6.90		9.97	13.53	10.35	7.20	5.52	4.20	3.30	2.80	2.60	3.80
30.	6.67		9.90	13.12	10.22	7.10	5.55	4.20	3.30	2.80	2.60	3.90
31.	8.27		9.90		10.03		5.45	4.10		2.80		4.40
Mean.	6.10	10.51	10.12	16.65	10.83	7.45	5.70	4.32	3.90	2.85	2.60	4.03
Monthly Mean.	5.72	11.78	11.27	13.12	11.70	8.46	6.22	4.72	3.68	2.98	2.66	3.06
Max.	10.00	13.90	12.80	20.70	12.80	10.00	7.05	5.30	4.10	2.70	2.10	4.40
Date.	15	9	2	24	1	1	1	1	3	5	4	31
Min.	4.00	10.50	9.90	9.80	10.00	7.10	5.45	4.10	3.30	2.10	1.60	2.50
Date.	5	1	31	1	31	30	31	31	30	31	30	10

( ) Computed from the correlation curve after Mbuyuni from blockage corrected according to Current Meter Measurements.

RIVER: GREAT RUAHA  
STATION: MTERA  
STATION NO: IKA.5  
YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.15	5.37	9.20	14.80	12.33	8.13	5.95	4.90	4.40	4.00	3.50	3.25
2.	4.05	5.28	8.60	14.84	12.17	8.03	5.90	4.90	4.40	4.00	3.50	3.25
3.	4.10	5.05	8.43	14.43	12.00	7.95	5.85	4.85	4.40	4.00	3.50	3.25
4.	5.80	4.93	8.30	13.90	11.90	7.83	5.80	4.80	4.40	3.95	3.50	3.25
5.	6.40	4.83	8.40	13.67	11.77	7.72	5.77	4.80	4.35	3.95	3.50	3.25
6.	5.45	4.89	8.37	13.37	12.40	7.70	5.73	4.80	4.32	3.95	3.50	3.25
7.	4.78	4.83	8.73	13.30	12.03	7.60	5.70	4.80	4.30	3.90	3.45	3.25
8.	4.65	4.72	8.20	13.31	11.70	7.55	5.65	4.80	4.30	3.90	3.45	3.25
9.	4.50	5.23	8.17	13.40	11.30	7.43	5.60	4.75	4.30	3.90	3.45	3.25
10.	4.50	5.98	8.43	13.43	11.10	7.38	5.60	4.70	4.30	3.85	3.40	3.25
Mean.	4.84	5.11	8.48	13.85	11.87	7.73	5.76	4.81	4.35	3.94	3.48	3.25
11.	4.30	6.17	8.60	13.50	10.80	7.25	5.55	4.70	4.30	3.85	3.40	3.30
12.	4.11	7.33	8.54	13.50	10.63	7.13	5.50	4.65	4.25	3.80	3.40	3.30
13.	4.06	7.17	8.55	13.50	10.40	7.10	5.45	4.60	4.25	3.80	3.40	3.50
14.	4.08	7.46	8.79	13.50	10.30	7.05	5.42	4.60	4.25	3.80	3.40	3.53
15.	4.01	7.64	8.50	13.50	10.03	6.93	5.37	4.60	4.20	3.80	3.40	3.40
16.	3.95	10.80	8.40	13.40	10.00	6.92	5.32	4.60	4.20	3.80	3.35	3.43
17.	3.84	12.72	8.30	13.40	9.83	6.83	5.30	4.60	4.20	3.80	3.35	3.43
18.	3.82	11.55	8.30	13.40	9.57	6.75	5.30	4.60	4.15	3.80	3.35	3.53
19.	3.81	11.50	8.33	13.40	9.50	6.68	5.25	4.55	4.15	3.80	3.35	3.82
20.	3.80	13.07	9.10	13.40	9.40	6.60	5.25	4.55	4.15	3.75	3.35	3.97
Mean.	3.98	9.54	8.54	13.45	10.05	6.92	5.37	4.60	4.21	3.80	3.38	3.52
21.	3.70	12.50	10.63	13.34	9.20	6.55	5.20	4.50	4.15	3.75	3.35	4.37
22.	3.70	11.47	10.87	13.17	9.10	6.50	5.15	4.50	4.10	3.70	3.30	5.10
23.	3.73	13.87	11.23	13.10	9.00	6.42	5.15	4.50	4.10	3.70	3.30	5.75
24.	5.03	12.87	15.13	13.00	8.83	6.35	5.10	4.50	4.10	3.70	3.30	6.83
25.	4.87	12.07	15.07	12.90	8.80	6.30	5.05	4.45	4.10	3.70	3.30	8.50
26.	4.20	11.20	14.80	12.80	8.63	6.25	5.05	4.45	4.05	3.65	3.30	8.50
27.	4.60	10.63	15.57	12.80	8.57	6.20	5.00	4.45	4.05	3.65	3.30	8.87
28.	5.93	10.13	15.61	12.78	8.50	6.13	5.00	4.42	4.05	3.62	3.30	11.23
29.	5.13		15.64	12.67	8.43	6.05	4.95	4.40	4.00	3.55	3.30	9.40
30.	7.03		15.40	12.50	8.26	6.00	4.95	4.40	4.00	3.55	3.25	7.63
31.	6.07		15.30		8.20		4.90	4.40		3.50		6.60
Mean.	4.91	11.84	14.11	12.91	8.68	6.28	5.05	4.45	4.07	3.64	3.30	7.53
Monthly Mean.	4.59	8.62	10.50	13.40	10.15	6.98	5.38	4.62	4.21	3.79	3.38	4.85
Max.	7.10	13.90	15.90	14.90	12.40	8.15	5.95	4.90	4.40	4.00	3.50	11.30
Date.	30	23	27	2	6	1	1	2	4	3	6	28
Min.	3.70	4.72	8.10	12.50	8.20	6.00	4.90	4.40	4.00	3.50	3.25	3.25
Date.	22	8	9	30	31	30	31	31	30	31	30	10

RIVER: GREAT RUAHA  
 STATION: MTERA  
 STATION NO: IKA.5  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.90	5.42	7.37	17.72	11.42	7.80	5.80	4.60	4.10	3.70	3.40	3.35
2.	5.52	5.28	7.45	16.78	11.32	7.70	5.75	4.60	4.10	3.70	3.40	3.35
3.	5.20	5.30	7.53	15.82	11.20	7.68	5.70	4.60	4.10	3.65	3.37	3.30
4.	4.97	5.43	7.77	14.93	11.07	7.60	5.70	4.55	4.10	3.65	3.30	3.40
5.	4.73	5.58	8.28	13.82	10.90	7.48	5.60	4.55	4.05	3.65	3.30	3.73
6.	4.60	5.68	8.42	12.83	10.80	7.40	5.60	4.50	4.00	3.60	3.30	4.70
7.	4.47	5.73	9.25	11.88	10.70	7.33	5.50	4.50	4.00	3.60	3.30	6.73
8.	4.40	5.83	9.15	11.45	10.55	7.23	5.50	4.50	4.00	3.60	3.40	6.73
9.	4.50	6.10	9.28	11.30	10.47	7.15	5.50	4.40	4.00	3.60	3.40	6.00
10.	4.62	6.18	11.83	11.20	10.33	7.10	5.45	4.40	4.00	3.60	3.40	5.50
Mean.	4.89	5.65	8.53	13.77	10.88	7.45	5.61	4.52	4.05	3.64	3.36	4.68
11.	4.70	6.15	11.92	11.15	10.20	7.00	5.40	4.40	4.00	3.60	3.40	5.53
12.	5.42	6.30	12.47	11.20	10.50	6.90	5.40	4.40	3.95	3.60	3.40	7.60
13.	5.90	6.68	11.60	11.27	9.87	6.85	5.30	4.40	3.90	3.60	3.35	8.83
14.	5.65	6.85	10.27	11.38	9.68	6.80	5.30	4.40	3.90	3.60	3.35	9.46
15.	5.72	7.08	9.55	11.45	9.60	6.70	5.25	4.35	3.90	3.60	3.40	8.50
16.	5.60	6.75	9.13	11.53	9.50	6.65	5.20	4.35	3.90	3.60	3.40	7.53
17.	5.72	6.60	8.90	11.62	9.40	6.60	5.20	4.30	3.84	3.55	3.45	6.35
18.	7.38	6.63	8.80	11.65	9.27	6.50	5.15	4.30	3.85	3.55	3.45	5.70
19.	7.50	6.47	8.75	11.77	9.13	6.45	5.10	4.30	3.80	3.50	3.30	5.20
20.	6.40	6.73	8.67	11.80	9.03	6.40	5.10	4.25	3.80	3.50	3.30	4.96
Mean.	6.00	6.62	10.01	11.48	9.62	6.86	5.24	4.35	3.88	3.57	3.38	6.97
21.	6.07	6.55	8.75	11.83	8.95	6.30	5.00	4.20	3.80	3.45	3.20	4.80
22.	5.67	6.55	9.12	11.85	8.80	6.20	5.00	4.20	3.80	3.45	3.20	4.63
23.	5.47	6.78	10.28	11.87	8.70	6.20	4.93	4.20	3.75	3.40	3.20	4.55
24.	5.30	6.83	10.40	11.85	8.60	6.14	4.90	4.20	3.75	3.40	3.20	4.50
25.	5.20	6.72	12.63	11.85	8.50	6.10	4.90	4.20	3.72	3.40	3.20	4.40
26.	5.17	6.90	12.65	11.90	8.40	6.05	4.90	4.20	3.70	3.40	3.20	4.40
27.	5.15	6.97	13.33	11.85	8.30	6.00	4.80	4.20	3.70	3.40	3.20	4.86
28.	5.15	7.08	15.33	11.73	8.20	5.95	4.80	4.17	3.70	3.40	3.20	4.80
29.	5.15		15.92	11.62	8.10	5.90	4.73	4.15	3.70	3.40	3.25	4.66
30.	5.30		16.88	11.52	8.00	5.85	4.70	4.10	3.70	3.40	3.25	4.73
31.	5.22		16.93		7.90		4.70	4.10		3.40		4.86
Mean.	5.35	6.80	12.93	11.78	8.40	6.07	4.85	4.17	3.73	3.41	3.21	4.65
Monthly Mean.	5.41	6.33	10.57	12.35	9.59	6.73	5.22	4.34	3.89	3.53	3.32	5.41
Max.	7.50	7.08	16.93	17.72	11.42	7.80	5.80	4.60	4.10	3.70	3.45	9.50
Date.	19	28	31	1	1	1	1	3	4	2	18	14
Min.	4.40	5.28	7.37	11.15	7.90	5.85	4.70	4.10	3.70	3.40	3.20	3.30
Date.	8	2	1	11	31	30	31	31	30	31	28	3





RIVER: CHIMALA  
 STATION: CHIMALA  
 STATION NO: IKA.7  
 YEAR: 1955 D/S

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		0.70	0.86	1.18	1.02	0.76	0.60	0.55	0.53	0.45	0.44	0.35
2.		0.73	1.02	1.34	0.90	0.73	0.60	0.55	0.53	0.45	0.44	0.35
3.		0.78	1.20	1.34	0.95	0.70	0.60	0.55	0.53	0.45	0.41	0.33
4.		0.70	1.20	1.40	0.93	0.70	0.60	0.53	0.53	0.45	0.40	0.33
5.		0.75	1.40	1.60	0.91	0.70	0.59	0.53	0.53	0.45	0.40	0.32
6.		0.68	1.40	1.46	1.04	0.70	0.58	0.53	0.53	0.45	0.40	0.30
7.		0.68	1.32	1.40	1.00	0.70	0.58	0.53	0.53	0.43	0.40	0.30
8.		0.68	1.26	1.30	1.02	0.70	0.58	0.53	0.53	0.43	0.40	0.36
9.		0.70	1.18	1.30	1.05	0.70	0.58	0.53	0.53	0.43	0.36	0.30
10.		0.65	1.10	1.20	1.04	0.69	0.58	0.53	0.53	0.43	0.35	0.46
Mean.		0.71	1.19	1.35	0.99	0.71	0.59	0.54	0.53	0.44	0.40	0.34
11.		0.78	1.10	1.22	1.00	0.68	0.58	0.53	0.53	0.43	0.35	0.33
12.		0.65	1.10	1.20	1.00	0.67	0.58	0.53	0.53	0.43	0.33	0.33
13.		0.60	0.97	1.23	0.95	0.65	0.57	0.53	0.50	0.43	0.33	0.50
14.		0.60	0.93	1.20	0.92	0.65	0.55	0.53	0.50	0.43	0.33	0.44
15.		0.60	0.90	1.20	0.90	0.64	0.55	0.52	0.50	0.43	0.33	0.40
16.		0.58	0.88	1.12	0.90	0.63	0.55	0.50	0.50	0.42	0.33	0.51
17.		0.70	0.80	1.20	0.90	0.64	0.55	0.50	0.50	0.40	0.33	0.54
18.		0.63	0.80	1.11	0.88	0.63	0.55	0.50	0.50	0.40	0.33	0.63
19.		0.65	0.80	1.06	0.85	0.62	0.55	0.50	0.50	0.40	0.33	0.58
20.		0.60	0.82	1.08	0.85	0.63	0.55	0.50	0.50	0.40	0.33	0.88
Mean.		0.64	0.91	1.16	0.92	0.64	0.56	0.51	0.51	0.42	0.33	0.51
21.		0.60	0.80	1.00	0.84	0.61	0.55	0.50	0.50	0.40	0.35	1.08
22.		0.83	0.82	1.00	0.83	0.61	0.55	0.50	0.48	0.40	0.30	0.57
23.		0.80	0.90	1.17	0.80	0.60	0.55	0.50	0.48	0.40	0.30	0.81
24.		0.80	0.90	1.11	0.80	0.60	0.55	0.50	0.48	0.40	0.30	0.63
25.		0.80	0.84	1.11	0.82	0.60	0.55	0.50	0.48	0.40	0.30	0.55
26.		0.85	0.91	1.09	0.80	0.60	0.55	0.50	0.52	0.40	0.30	0.53
27.		0.83	0.92	1.02	0.80	0.60	0.55	0.50	0.50	0.40	0.31	0.67
28.		0.85	0.90	1.01	0.80	0.60	0.55	0.50	0.48	0.40	0.33	0.53
29.			0.92	1.00	0.80	0.60	0.54	0.50	0.48	0.40	0.35	0.50
30.			0.96	1.00	0.78	0.60	0.53	0.53	0.47	0.40	0.40	0.60
31.			1.00		0.78		0.53	0.53		0.54		0.60
Mean.		0.80	0.90	1.05	0.83	0.60	0.55	0.51	0.49	0.41	0.32	0.64
Monthly Mean.		0.71	1.00	1.19	0.90	0.65	0.56	0.52	0.51	0.42	0.35	0.50
Max.		0.95	1.50	2.40	1.05	0.78	0.60	0.55	0.55	0.55	0.48	2.10
Date.		22	5	5	10	1	5	4	26	31	1	20
Min.		0.55	0.80	1.00	0.78	0.60	0.53	0.50	0.45	0.40	0.30	0.30
Date.		16	25	30	31	30	31	29	30	30	27	9

RIVER: CHIMALA  
 STATION: CHIMALA  
 STATION NO: IKA.7  
 YEAR: 1956 D/S

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.75	1.12	1.60	0.94	1.38	0.65	0.40	0.28	0.20	0.13	0.26	0.18
2.	0.85	1.09	1.50	1.03	1.29	0.63	0.40	0.28	0.20	0.13	0.22	0.16
3.	0.83	1.20	1.44	1.26	1.28	0.60	0.40	0.28	0.20	0.14	0.12	0.11
4.	0.88	1.74	1.52	1.46	1.25	0.60	0.39	0.28	0.20	0.14	0.18	0.13
5.	0.83	1.31	1.37	1.40	1.23	0.60	0.38	0.25	0.20	0.13	0.23	0.12
6.	0.92	1.30	1.32	1.40	1.21	0.57	0.38	0.25	0.20	0.14	0.15	0.32
7.	0.83	1.48	1.27	1.35	1.13	0.55	0.35	0.25	0.20	0.14	0.32	0.19
8.	1.04	1.42	1.21	1.32	1.13	0.55	0.35	0.25	0.20	0.12	0.18	0.13
9.	1.00	1.40	1.16	1.31	1.05	0.55	0.35	0.25	0.20	0.11	0.15	0.10
10.	1.01	1.30	1.13	1.33	1.03	0.54	0.35	0.25	0.20	0.10	0.13	0.00
Mean.	0.89	1.34	1.35	1.28	1.20	0.58	0.38	0.26	0.20	0.13	0.19	0.14
11.	0.93	1.32	1.10	1.34	0.98	0.53	0.35	0.25	0.18	0.10	0.13	0.00
12.	0.91	1.40	1.06	1.26	0.95	0.53	0.35	0.25	0.18	0.10	0.12	0.00
13.	0.88	1.34	1.06	1.18	0.94	0.53	0.35	0.25	0.18	0.11	0.10	0.00
14.	0.93	1.40	1.02	1.18	0.92	0.52	0.35	0.25	0.18	0.10	0.10	0.03
15.	0.85	1.41	0.91	1.12	0.90	0.50	0.35	0.25	0.18	0.10	0.10	0.02
16.	0.93	1.32	0.90	1.10	0.93	0.50	0.35	0.25	0.18	0.08	0.15	0.31
17.	0.84	1.99	0.90	1.14	0.92	0.50	0.35	0.23	0.18	0.08	0.11	0.16
18.	0.94	1.58	0.90	1.12	0.90	0.50	0.34	0.23	0.16	0.08	0.10	0.15
19.	1.04	1.73	0.91	1.20	0.87	0.48	0.33	0.20	0.15	0.08	0.10	0.13
20.	1.30	1.70	1.00	1.10	0.87	0.48	0.33	0.20	0.15	0.09	0.10	0.10
Mean.	0.96	1.52	0.98	1.17	0.92	0.51	0.35	0.24	0.17	0.09	0.11	0.09
21.	1.35	1.76	0.90	1.11	0.86	0.48	0.30	0.20	0.15	0.09	0.08	0.15
22.	1.35	2.08	0.87	1.04	0.83	0.46	0.30	0.20	0.13	0.10	0.08	0.15
23.	1.30	1.98	0.86	1.10	0.82	0.45	0.30	0.20	0.13	0.12	0.07	0.23
24.	1.30	1.90	0.84	1.14	0.81	0.44	0.30	0.20	0.13	0.11	0.05	0.28
25.	1.20	1.83	0.82	1.14	0.78	0.40	0.30	0.20	0.13	0.13	0.05	0.16
26.	1.20	1.79	0.80	1.25	0.76	0.40	0.30	0.20	0.13	0.13	0.05	0.16
27.	1.22	1.84	0.80	1.42	0.74	0.40	0.30	0.20	0.13	0.13	0.05	0.23
28.	1.20	1.68	0.82	1.43	0.72	0.40	0.30	0.20	0.13	0.10	0.14	0.20
29.	1.20	1.64	0.99	1.43	0.70	0.40	0.30	0.20	0.13	0.10	0.11	0.18
30.	1.20		0.93	1.44	0.70	0.40	0.28	0.20	0.13	0.10	0.07	0.14
31.	1.16		0.92		0.67		0.28	0.20		0.10		0.23
Mean.	1.24	1.83	0.87	1.25	0.76	0.42	0.30	0.20	0.13	0.11	0.08	0.19
Monthly Mean.	1.04	1.55	1.06	1.23	0.95	0.50	0.34	0.23	0.17	0.11	0.13	0.14
Max.	1.40	3.00	1.60	1.50	1.38	0.65	0.40	0.28	0.20	0.15	0.40	0.40
Date.	22	17	1	4	1	3	4	10	7	7	7	16
Min.	0.72	1.08	0.80	0.90	0.67	0.40	0.28	0.20	0.13	0.08	0.05	0.02
Date.	1	2	28	1	31	30	31	31	30	19	30	15

RIVER: CHIMALA  
 STATION: CHIMALA  
 STATION NO: IKA.7  
 YEAR: 1957, D/S.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.39	1.17	1.28	1.38	1.43	0.71	0.43	0.35	0.28	0.20	0.19	0.13
2.	0.31	1.09	1.23	1.44	1.36	0.68	0.43	0.35	0.28	0.20	0.18	0.15
3.	0.18	1.25	1.24	1.51	1.30	0.65	0.43	0.34	0.28	0.20	0.18	0.13
4.	0.18	1.23	1.23	1.55	1.21	0.64	0.41	0.33	0.28	0.23	0.13	0.17
5.	0.23	1.48	1.23	1.55	1.18	0.63	0.40	0.33	0.25	0.21	0.13	0.22
6.	0.39	1.48	1.16	1.58	1.16	0.60	0.40	0.33	0.25	0.20	0.27	0.33
7.	0.42	1.67	1.13	1.76	1.14	0.60	0.40	0.33	0.25	0.20	0.20	0.29
8.	0.55	1.51	1.07	1.93	1.10	0.58	0.40	0.33	0.25	0.20	0.18	0.20
9.	1.09	1.43	1.03	1.88	1.09	0.58	0.40	0.30	0.25	0.20	0.15	0.15
10.	0.92	1.44	1.00	1.80	1.05	0.55	0.38	0.30	0.25	0.18	0.15	0.15
Mean.	0.42	1.38	1.16	1.64	1.20	0.62	0.41	0.33	0.26	0.20	0.18	0.19
11.	0.85	1.38	0.96	1.78	1.01	0.55	0.38	0.30	0.30	0.18	0.22	0.15
12.	0.79	1.34	1.01	1.73	1.01	0.55	0.38	0.30	0.29	0.18	0.15	0.15
13.	0.82	1.60	0.96	1.97	1.00	0.54	0.38	0.30	0.26	0.18	0.20	0.13
14.	0.80	1.41	0.95	1.75	0.99	0.53	0.38	0.30	0.25	0.18	0.18	0.34
15.	0.76	1.35	0.93	1.70	0.96	0.53	0.38	0.30	0.23	0.15	0.20	0.32
16.	0.73	1.30	0.90	1.73	0.94	0.53	0.38	0.30	0.21	0.15	0.15	0.40
17.	0.70	1.27	0.97	2.47	0.91	0.51	0.35	0.30	0.20	0.15	0.15	0.30
18.	0.70	1.23	0.95	2.47	0.91	0.50	0.35	0.28	0.20	0.15	0.15	0.30
19.	0.68	1.24	0.97	2.33	0.86	0.49	0.35	0.28	0.20	0.14	0.15	0.34
20.	0.70	1.51	1.03	2.20	0.85	0.48	0.35	0.28	0.20	0.13	0.13	0.32
Mean.	0.75	1.36	0.96	2.01	0.94	0.52	0.37	0.29	0.23	0.16	0.17	0.28
21.	0.73	1.68	1.01	2.38	0.85	0.48	0.35	0.28	0.20	0.14	0.15	0.30
22.	0.71	1.75	1.00	2.29	0.84	0.48	0.35	0.28	0.20	0.20	0.30	0.30
23.	0.70	1.67	0.98	2.24	0.81	0.48	0.35	0.28	0.20	0.18	0.20	0.42
24.	0.70	1.61	0.98	2.17	0.80	0.48	0.35	0.28	0.20	0.18	0.15	1.05
25.	1.11	1.52	0.99	2.05	0.78	0.45	0.35	0.28	0.20	0.15	0.15	0.49
26.	0.99	1.45	0.98	1.94	0.74	0.45	0.35	0.28	0.20	0.14	0.13	0.39
27.	0.95	1.47	1.08	1.80	0.73	0.45	0.35	0.28	0.20	0.15	0.13	0.32
28.	0.95	1.41	1.13	1.72	0.73	0.45	0.35	0.28	0.20	0.15	0.11	0.30
29.	1.01		1.23	1.59	0.70	0.45	0.35	0.28	0.20	0.15	0.11	0.25
30.	1.01		1.31	1.51	0.70	0.45	0.35	0.28	0.20	0.15	0.11	0.49
31.	1.04		1.31		0.70		0.35	0.28		0.15		1.09
Mean.	0.90	1.57	1.10	1.98	0.76	0.46	0.35	0.28	0.20	0.16	0.15	0.49
Monthly												
Mean.	0.70	1.43	1.07	1.88	0.96	0.54	0.37	0.30	0.23	0.17	0.17	0.32
Max.	1.20	1.80	1.35	2.80	1.47	0.72	0.42	0.35	0.30	0.23	0.40	1.80
Date.	25	22	31	18	1	1	4	2	11	4	22	24
Min.	0.17	1.05	0.87	1.32	0.70	0.42	0.35	0.27	0.20	0.13	0.10	0.13
Date.	4	1	16	1	31	30	31	31	30	20	30	13

RIVER: CHIMALA  
 STATION: CHIMALA  
 STATION NO: IKA.7  
 YEAR: 1958. D/S

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.60	0.34	0.58	1.47	1.05	0.50	0.33	0.28	0.20	0.15	0.08	0.18
2.	0.56	0.32	0.60	1.38	1.07	0.50	0.33	0.28	0.20	0.15	0.16	0.16
3.	0.94	0.30	0.54	1.28	1.11	0.50	0.33	0.28	0.20	0.13	0.12	0.20
4.	0.47	0.33	0.53	1.25	1.10	0.50	0.33	0.28	0.20	0.13	0.11	0.35
5.	0.88	0.36	0.56	1.27	1.00	0.50	0.33	0.28	0.20	0.13	0.10	0.21
6.	1.25	0.40	0.55	1.18.	1.03	0.50	0.33	0.28	0.20	0.13	0.10	0.20
7.	0.87	0.37	0.69	1.13	1.01	0.48	0.31	0.28	0.20	0.13	0.08	0.36
8.	0.74	0.30	0.78	1.09	0.95	0.48	0.30	0.28	0.20	0.16	0.08	0.30
9.	0.62	0.45	0.78	1.06	0.90	0.45	0.30	0.28	0.20	0.19	0.08	0.28
10.	0.60	0.40	0.66	1.00	0.87	0.45	0.30	0.28	0.19	0.16	0.08	0.20
Mean.	0.75	0.36	0.63	1.21	1.01	0.49	0.32	0.28	0.20	0.15	0.10	0.24
11.	0.55	0.40	0.73	0.97	0.83	0.43	0.30	0.28	0.18	0.15	0.08	0.20
12.	0.55	0.52	0.80	1.00	0.80	0.43	0.30	0.28	0.18	0.14	0.08	0.26
13.	0.50	0.49	0.78	0.89	0.80	0.43	0.30	0.28	0.18	0.13	0.11	0.30
14.	0.47	0.60	0.78	0.87	0.78	0.43	0.30	0.28	0.18	0.13.	0.15	0.38
15.	0.43	1.04	0.81	0.83	0.75	0.43	0.30	0.25	0.18	0.13	0.14	0.31
16.	0.40	0.72	0.80	0.82	0.73	0.40	0.30	0.25	0.18	0.13	0.15	0.33
17.	0.37	0.70	1.26	0.79	0.70	0.40	0.30	0.25	0.18	0.13	0.20	0.28
18.	0.38	0.68	1.85	0.78	0.70	0.40	0.30	0.25	0.18	0.13	0.15	0.38
19.	0.34	0.68	1.53	0.75	0.68	0.40	0.30	0.23	0.18	0.13	0.15	0.30
20.	0.32	0.63	1.65	0.72	0.68	0.40	0.30	0.23	0.18	0.13	0.26	0.28
Mean.	0.43	0.65	1.10	0.84	0.75	0.42	0.30	0.26	0.18	0.13	0.15	0.30
21.	0.38	0.68	1.55	0.70	0.65	0.40	0.30	0.23	0.18	0.13	0.31	0.55
22.	0.32	0.70	1.69	0.70	0.64	0.39	0.30	0.23	0.18	0.11	0.36	0.51
23.	0.43	0.67	1.58	0.76	0.60	0.38	0.29	0.23	0.20	0.10	0.30	0.70
24.	0.41	0.65	1.70	0.96	0.60	0.38	0.28	0.23	0.19	0.10	0.32	0.75
25.	0.48	0.64	1.60	0.88	0.60	0.38	0.28	0.23	0.18	0.10	0.34	0.70
26.	0.57	0.62	1.61	0.96	0.58	0.38	0.28	0.23	0.18	0.10	0.27	1.13
27.	0.55	0.62	1.53	0.88	0.59	0.38	0.28	0.20	0.18	0.10	0.20	1.19
28.	0.46	0.55	1.63	0.95	0.58	0.35	0.28	0.20	0.18	0.09	0.20	0.70
29.	0.44		1.68	0.99	0.55	0.35	0.28	0.20	0.15	0.08	0.24	0.65
30.	0.39		1.68	1.04	0.53	0.35	0.28	0.20	0.15	0.08	0.18	0.63
31.	0.37		1.60		0.50		0.28	0.20		0.08		0.53
Mean.	0.44	0.64	1.62	0.88	0.58	0.37	0.28	0.22	0.18	0.10	0.27	0.73
Monthly Mean.	0.54	0.54	1.13	0.98	0.77	0.43	0.30	0.25	0.19	0.12	0.17	0.44
Max.	2.00	1.10	2.00	1.50	1.13	0.50	0.33	0.28	0.20	0.20	0.36	1.50
Date.	6	15	18	1	3	6	6	14	9	9	22	26
Min.	0.33	0.30	0.53	0.70	0.50	0.35	0.28	0.20	0.15	0.08	0.08	0.13
Date.	22	3	5	22	31	30	31	31	30	31	12	2

RIVER: CHEMELA  
 STATION: CHEMALA  
 STATION NO: 1KA.7  
 YEAR: 1959 D/S

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.50	1.06	1.25	2.18	0.89	0.10	-0.12	-0.22	-0.28	-0.33	-0.38	-0.32
2.	0.48	1.05	1.27	2.04	0.90	0.10	-0.12	-0.22	-0.28	-0.33	-0.30	-0.19
3.	0.45	1.56	1.26	1.90	0.88	0.10	-0.12	-0.22	-0.28	-0.33	-0.33	-0.18
4.	0.45	1.55	1.25	1.76	0.83	0.08	-0.12	-0.22	-0.28	-0.33	-0.32	-0.13
5.	0.46	1.43	1.28	1.69	0.80	0.08	-0.12	-0.22	-0.28	-0.25	-0.33	-0.12
6.	0.43	1.33	1.27	1.63	0.80	0.08	-0.12	-0.22	-0.30	-0.13	-0.29	-0.10
7.	0.40	1.30	1.26	1.50	0.70	0.07	-0.12	-0.22	-0.30	-0.25	-0.30	-0.13
8.	0.40	1.24	1.43	1.35	0.70	0.05	-0.12	-0.22	-0.30	-0.19	-0.22	-0.12
9.	0.40	1.26	1.46	1.22	0.70	0.05	-0.12	-0.22	-0.30	-0.25	-0.22	-0.12
10.	0.40	1.23	1.75	1.25	0.68	0.05	-0.12	-0.22	-0.30	-0.31	-0.33	-0.13
Mean.	0.44	1.30	1.35	1.65	0.79	0.08	-0.12	-0.22	-0.29	-0.27	-0.30	-0.15
11.	0.51	1.22	1.69	1.08	0.67	0.04	-0.13	-0.23	-0.30	-0.32	-0.32	-0.12
12.	0.43	1.25	1.66	1.02	0.64	0.03	-0.15	-0.23	-0.30	-0.32	-0.35	+0.56
13.	0.43	1.24	1.55	0.94	0.50	0.00	-0.15	-0.23	-0.32	-0.32	-0.38	0.75
14.	0.43	1.20	1.50	0.90	0.49	0.00	-0.15	-0.23	-0.32	-0.32	-0.37	0.80
15.	0.61	1.20	1.40	0.88	0.48	0.00	-0.17	-0.23	-0.32	-0.32	-0.38	0.72
16.	0.96	1.15	1.40	0.88	0.43	0.00	-0.17	-0.23	-0.32	-0.33	-0.37	0.55
17.	0.85	1.30	1.31	1.00	0.41	0.00	-0.18	-0.23	-0.32	-0.33	-0.40	0.42
18.	0.83	1.24	1.25	1.00	0.40	0.00	-0.20	-0.23	-0.33	-0.33	-0.40	0.31
19.	0.74	1.16	1.23	0.98	0.40	0.00	-0.20	-0.23	-0.33	-0.33	-0.40	0.30
20.	0.76	1.15	1.20	0.94	0.39	-0.05	-0.20	-0.23	-0.33	-0.31	-0.40	0.28
Mean.	0.66	1.21	1.42	0.96	0.48	0.00	-0.17	-0.23	-0.32	-0.32	-0.38	0.46
21.	0.70	1.14	1.17	0.90	0.38	-0.05	-0.20	-0.25	-0.33	-0.28	-0.12	0.27
22.	0.69	1.08	1.17	0.98	0.38	-0.05	-0.20	-0.25	-0.33	-0.32	-0.33	0.25
23.	0.68	1.13	1.17	0.91	0.28	-0.05	-0.22	-0.25	-0.30	-0.32	-0.34	0.25
24.	0.68	1.01	1.37	0.88	0.25	-0.05	-0.22	-0.25	-0.22	-0.32	-0.38	0.24
25.	0.53	1.24	1.60	0.90	0.22	-0.07	-0.22	-0.25	-0.27	-0.33	-0.37	0.22
26.	0.68	1.23	2.60	0.91	0.20	-0.07	-0.22	-0.25	-0.27	-0.33	-0.37	0.22
27.	0.53	1.42	3.70	0.93	0.20	-0.10	-0.22	-0.25	-0.30	-0.33	-0.16	0.20
28.	0.53	1.25	3.50	0.91	0.20	-0.11	-0.22	-0.27	-0.32	-0.37	-0.20	0.20
29.	1.20		3.40	0.90	0.20	-0.12	-0.22	-0.27	-0.32	-0.37	-0.20	0.20
30.	0.90		2.73	0.90	0.18	-0.12	-0.22	-0.27	-0.32	-0.34	-0.31	0.18
31.	0.90		2.35		0.18		-0.22	-0.27		-0.33		0.20
Mean.	0.73	1.19	2.25	0.91	0.24	-0.08	-0.22	-0.26	-0.30	-0.33	-0.29	0.22
Monthly Mean.	0.61	1.24	1.69	1.18	0.50	0.00	-0.17	-0.24	-0.30	-0.31	-0.32	0.18
Max.	1.40	1.63	3.70	2.20	0.90	0.10	-0.12	-0.22	-0.22	-0.12	-0.12	+0.90
Date.	29	27	27	1	2	3	10	10	24	8	21	14
Min.	0.40	1.00	1.17	0.87	0.17	-0.12	-0.22	-0.27	-0.33	-0.37	-0.40	-0.32
Date.	10	24	24	24	31	30	31	31	22	29	25	1

RIVER: CHIMALA  
 STATION : CHIMALA  
 STATION NO: IKA.7  
 YEAR: 1955 U/S

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		1.00	1.35	1.78	1.54	0.93	0.60	0.45	0.37	0.25	0.24	0.20
2.		1.00	1.64	2.06	1.40	0.90	0.60	0.45	0.35	0.25	0.20	0.17
3.		1.10	1.80	2.04	1.50	0.85	0.60	0.45	0.35	0.25	0.20	0.15
4.		1.00	1.84	2.10	1.46	0.85	0.58	0.45	0.35	0.25	0.20	0.15
5.		1.05	2.26	2.40	1.42	0.85	0.56	0.43	0.35	0.25	0.20	0.15
6.		0.95	2.20	2.16	1.60	0.82	0.55	0.42	0.35	0.25	0.20	0.12
7.		0.95	2.12	2.04	1.60	0.80	0.55	0.42	0.35	0.25	0.20	0.12
8.		0.95	1.96	1.96	1.60	0.80	0.55	0.42	0.33	0.25	0.20	0.12
9.		1.00	1.80	1.92	1.60	0.80	0.55	0.42	0.32	0.24	0.20	0.12
10.		0.95	1.70	1.80	1.58	0.77	0.55	0.40	0.32	0.22	0.20	0.41
Mean.		0.99	1.87	2.03	1.53	0.84	0.57	0.43	0.34	0.25	0.20	0.17
11.		1.10	1.61	1.84	1.55	0.75	0.55	0.40	0.32	0.22	0.19	0.20
12.		0.97	1.52	1.80	1.50	0.75	0.55	0.40	0.32	0.22	0.15	0.19
13.		0.90	1.44	1.84	1.45	0.75	0.54	0.40	0.32	0.22	0.15	0.46
14.		0.90.	1.40	1.81	1.40	0.74	0.52	0.40	0.32	0.22	0.15	0.35
15.		0.90	1.30	1.78	1.38	0.71	0.52	0.40	0.32	0.20	0.15	0.27
16.		0.85	1.28	1.74	1.30	0.70	0.52	0.40	0.32	0.20	0.13	0.48
17.		1.00	1.20	1.80	1.29	0.70	0.51	0.40	0.32	0.20	0.12	0.50
18.		0.90	1.20	1.74	1.24	0.70	0.50	0.40	0.32	0.20	0.12	0.69
19.		0.95	1.12	1.68	1.20	0.70.	0.50	0.40	0.32	0.20	0.12	0.56
20.		0.90	1.20	1.66	1.19	0.70	0.50	0.40	0.32	0.20	0.12	1.10
Mean.		0.94	1.33	1.77	1.35	0.72	0.52	0.40	0.32	0.21	0.14	0.48
21.		0.90	1.18	1.63	1.13	0.70	0.50	0.40	0.32	0.20	0.15	1.50
22.		1.40	1.22	1.60	1.10	0.68	0.50	0.40	0.30	0.20	0.15	0.60
23.		1.27	1.30	1.79	1.10	0.66	0.50	0.38	0.30	0.20	0.15	1.02
24.		1.20	1.30	1.70	1.10	0.65	0.50	0.37	0.30	0.20	0.15	0.72
25.		1.02	1.24	1.70	1.09	0.65	0.50	0.37	0.30	0.18	0.15	0.59
26.		1.30	1.32	1.66	1.04	0.64	0.47	0.37	0.35	0.18	0.13	0.55
27.		1.30	1.34	1.61	1.00	0.62	0.47	0.37	0.30	0.20	0.14	0.78
28.		1.35	1.30	1.53	1.00	0.62	0.47	0.37	0.30	0.20	0.21	0.55
29.			1.34	1.50	0.99	0.61	0.47	0.37	0.30	0.20	0.22	0.49
30.			1.44	1.52	0.95	0.60	0.47	0.37	0.28	0.20	0.33	0.68
31.			1.50		0.95		0.46	0.37		0.43		0.62
Mean.		1.21	1.32	1.62	1.04	0.64	0.48	0.38	0.30	0.22	0.18	0.73
Monthly Mean.		1.04	1.50	1.81	1.30	0.73	0.52	0.40	0.32	0.22	0.17	0.47
Max.		2.00	2.50	3.70	1.60	0.95	0.60	0.45	0.40	0.50	0.40	3.50
Date.		22	5	5	10	1	4	5	26	31	30	20
Min.		0.80	1.11	1.50	0.95	0.60	0.45	0.37	0.28	0.18	0.13	0.12
Date.		16	21	29	31	30	31	31	30	26	27	9

RIVER: Chimala  
 STATION: CHIMALA  
 STATION NO: IKA.7  
 YEAR: 1956 U/S

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.93	1.59	2.07	1.34	1.90	1.05	0.77	0.60	0.47	0.38	0.56	0.48
2.	1.06	1.55	2.00	1.46	1.80	1.05	0.75	0.60	0.47	0.41	0.53	0.46
3.	1.10	1.65	1.90	1.73	1.79	1.01	0.75	0.60	0.47	0.44	0.41	0.37
4.	1.26	2.30	2.00	1.86	1.75	1.00	0.74	0.59	0.47	0.43	0.48	0.40
5.	1.12	1.90	1.84	1.80	1.73	1.00	0.72	0.57	0.47	0.43	0.50	0.38
6.	1.26	1.90	1.77	1.80	1.70	0.98	0.72	0.57	0.47	0.43	0.42	0.74
7.	1.16	2.18	1.67	1.75	1.61	0.95	0.72	0.57	0.47	0.44	0.61	0.50
8.	1.48	2.10	1.63	1.72	1.60	0.95	0.70	0.57	0.47	0.40	0.48	0.42
9.	1.31	1.99	1.55	1.67	1.51	0.95	0.70	0.57	0.47	0.40	0.42	0.37
10.	1.39	1.90	1.50	1.67	1.49	0.94	0.70	0.55	0.47	0.40	0.40	0.35
Mean.	1.21	1.91	1.79	1.68	1.69	0.99	0.73	0.58	0.47	0.42	0.48	0.45
11.	1.25	1.82	1.51	1.67	1.43	0.92	0.70	0.55	0.45	0.40	0.40	0.32
12.	1.27	1.94	1.47	1.61	1.39	0.91	0.69	0.55	0.45	0.40	0.36	0.32
13.	1.15	1.98	1.46	1.50	1.36	0.90	0.67	0.55	0.45	0.40	0.35	0.30
14.	1.25	1.94	1.42	1.48	1.35	0.90	0.67	0.55	0.43	0.40	0.35	0.37
15.	1.15	2.00	1.35	1.45	1.33	0.89	0.67	0.55	0.42	0.39	0.36	0.40
16.	1.27	1.90	1.30	1.42	1.37	0.85	0.67	0.54	0.42	0.34	0.44	0.75
17.	1.11	2.78	1.30	1.44	1.35	0.85	0.67	0.52	0.42	0.34	0.36	0.47
18.	1.30	2.20	1.31	1.42	1.33	0.82	0.67	0.52	0.40	0.39	0.35	0.42
19.	1.47	2.44	1.32	1.50	1.30	0.82	0.67	0.52	0.40	0.38	0.32	0.40
20.	1.80	2.38	1.40	1.41	1.29	0.82	0.65	0.50	0.40	0.38	0.32	0.37
Mean.	1.30	2.14	1.38	1.49	1.35	0.87	0.67	0.53	0.42	0.38	0.36	0.41
21.	1.96	2.46	1.30	1.39	1.28	0.82	0.65	0.50	0.40	0.38	0.30	0.42
22.	1.96	3.00	1.30	1.39	1.25	0.81	0.65	0.50	0.40	0.38	0.30	0.42
23.	1.80	2.76	1.29	1.48	1.24	0.80	0.65	0.50	0.40	0.40	0.30	0.50
24.	1.90	2.70	1.29	1.50	1.22	0.80	0.65	0.50	0.40	0.38	0.30	0.56
25.	1.83	2.57	1.26	1.49	1.19	0.80	0.65	0.50	0.40	0.41	0.30	0.43
26.	1.80	2.51	1.25	1.61	1.16	0.80	0.63	0.50	0.40	0.40	0.30	0.44
27.	1.82	2.58	1.25	1.74	1.14	0.80	0.60	0.50	0.40	0.42	0.30	0.58
28.	1.80	2.38	1.26	1.74	1.12	0.80	0.60	0.50	0.40	0.40	0.43	0.55
29.	1.76	2.16	1.40	1.76	1.10	0.79	0.60	0.50	0.40	0.40	0.38	0.51
30.	1.75		1.36	1.78	1.10	0.77	0.60	0.50	0.38	0.37	0.35	0.46
31.	1.65		1.33		1.06		0.60	0.47		0.35		0.58
Mean.	1.82	2.57	1.30	1.59	1.17	0.80	0.63	0.50	0.40	0.39	0.33	0.49
Monthly Mean.	1.45	2.19	1.49	1.59	1.40	0.87	0.67	0.54	0.43	0.39	0.39	0.45
Max.	2.00	4.30	2.10	1.90	1.90	1.05	0.77	0.60	0.47	0.45	0.80	0.88
Date.	22	17	1	4	1	2	1	4	10	7	7	16
Min.	0.90	1.55	1.25	1.30	1.05	0.77	0.60	0.47	0.38	0.34	0.30	0.30
Date.	1	2	28	1	31	30	31	31	30	17	27	13

RIVER: CHIMALA  
STATION: CHIMALA  
STATION NO: IKA-7  
YEAR: 1957 - U/S GAUGE

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.73					1.06	0.70	0.60	0.47	0.37	0.31	0.25
2.	0.64					1.03	0.70	0.60	0.47	0.37	0.30	0.30
3.	0.54					0.98	0.70	0.59	0.47	0.37	0.30	0.27
4.	0.54				1.68	0.96	0.69	0.58	0.47	0.40	0.28	0.35
5.	0.64				1.63	0.95	0.68	0.58	0.47	0.40	0.27	0.39
6.	0.85				1.61	0.93	0.68	0.58	0.47	0.37	0.47	0.54
7.	0.89				1.58	0.93	0.68	0.58	0.47	0.35	0.35	0.47
8.	1.13				1.53	0.90	0.68	0.58	0.47	0.35	0.30	0.35
9.					1.51	0.90	0.68	0.55	0.45	0.35	0.30	0.32
10.					1.48	0.88	0.65	0.55	0.45	0.33	0.30	0.30
Mean.						0.95	0.68	0.58	0.47	0.37	0.32	0.35
11.					1.41	0.88	0.65	0.55	0.50	0.32	0.45	0.30
12.					1.44	0.88	0.65	0.55	0.49	0.32	0.35	0.30
13.					1.39	0.86	0.65	0.55	0.46	0.32	0.37	0.27
14.					1.36	0.85	0.65	0.55	0.40	0.32	0.30	0.54
15.	No Readings on Up Stream				1.34	0.85	0.65	0.55	0.40	0.30	0.38	0.42
16.	Gauge.				1.31	0.83	0.65	0.55	0.40	0.30	0.30	0.61
17.					1.29	0.81	0.63	0.55	0.40	0.30	0.30	0.50
18.					1.28	0.80	0.63	0.53	0.40	0.30	0.30	0.50
19.					1.25	0.79	0.63	0.53	0.40	0.30	0.30	0.55
20.					1.23	0.78	0.63	0.53	0.40	0.27	0.28	0.55
Mean.					1.33	0.83	0.64	0.54	0.43	0.31	0.33	0.45
21.					1.23	0.78	0.63	0.53	0.40	0.29	0.27	0.50
22.					1.21	0.78	0.63	0.53	0.37	0.35	0.52	0.50
23.					1.19	0.78	0.63	0.53	0.37	0.33	0.35	0.65
24.					1.18	0.78	0.63	0.53	0.37	0.32	0.30	1.83
25.					1.15	0.75	0.63	0.51	0.40	0.30	0.30	0.74
26.					1.11	0.75	0.60	0.50	0.40	0.29	0.27	0.61
27.					1.10	0.75	0.60	0.50	0.37	0.30	0.27	0.54
28.					1.08	0.73	0.60	0.50	0.37	0.30	0.25	0.50
29.					1.05	0.73	0.60	0.50	0.37	0.30	0.25	0.45
30.					1.05	0.70	0.60	0.48	0.37	0.30	0.25	0.72
31.					1.05		0.60	0.48		0.30		1.52
Mean.					1.13	0.75	0.61	0.51	0.38	0.31	0.30	0.78
Monthly Mean.						0.82	0.65	0.54	0.42	0.33	0.32	0.54
Max.	6.02				2.05	1.08	0.70	0.60	0.50	0.40	0.65	2.60
Date.					1	1	4	3	12	5	22	24
Min.					1.05	0.70	0.60	0.48	0.37	0.27	0.25	0.25
Date.					31	30	31	31	30	26	30	1

Max. 6.02 levelled in from flood marks.





RIVER: GREAT RUAHA  
 STATION : CHIMALA  
 STATION NO: IKA-8  
 YEAR : 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.67	4.00	5.86	8.86	3.80	2.80	2.25	1.97	1.80	1.72	1.73	1.66
2.	1.50	4.76	7.33	9.78	3.65	2.77	2.25	1.97	1.80	1.70	1.64	1.62
3.	1.65	3.81	7.58	9.70	3.50	2.70	2.25	1.97	1.80	1.70	1.62	1.57
4.	1.97	3.50	6.82	3.68	3.70	2.70	2.23	1.97	1.80	1.70	1.65	1.55
5.	1.72	3.52	9.88	8.46	3.70	2.70	2.20	1.97	1.80	1.70	1.64	1.55
6.	1.62	3.91	8.82	7.08	4.10	2.63	2.20	1.97	1.80	1.70	1.60	1.54
7.	1.55	3.36	8.98	6.28	4.10	2.60	2.18	1.97	1.80	1.70	2.01	1.53
8.	1.53	3.30	6.98	6.05	4.00	2.60	2.17	1.97	1.80	1.67	1.74	1.54
9.	1.61	3.60	5.99	6.00	4.05	2.60	2.17	1.93	1.80	1.67	1.64	1.52
10.	1.53	3.80	5.36	5.85	4.30	2.59	2.17	1.92	1.80	1.67	1.60	1.71
Mean.	1.64	3.76	7.36	7.67	3.89	2.67	2.21	1.96	1.80	1.69	1.69	1.58
11.	1.70	4.86	4.90	6.82	4.05	2.55	2.14	1.90	1.80	1.67	1.60	1.57
12.	2.05	4.83	4.40	6.49	3.95	2.50	2.11	1.90	1.78	1.69	1.60	1.99
13.	2.15	4.10	4.20	6.48	3.75	2.50	2.11	1.90	1.72	1.67	1.60	2.18
14.	2.07	3.97	4.74	6.20	3.60	2.50	2.10	1.90	1.72	1.65	1.57	2.05
15.	2.07	3.79	4.50	5.88	3.50	2.50	2.10	1.88	1.72	1.63	1.55	1.87
16.	2.25	3.60	4.20	5.64	3.50	2.45	2.10	1.87	1.72	1.62	1.55	4.09
17.	2.27	4.30	4.10	5.42	3.40	2.45	2.08	1.90	1.72	1.62	1.55	2.32
18.	2.25	3.76	3.90	5.23	3.35	2.42	2.07	1.88	1.78	1.60	1.58	2.50
19.	2.15	3.89	3.70	5.08	3.20	2.40	2.06	1.87	1.73	1.60	1.56	2.33
20.	2.17	3.86	3.86	4.60	3.20	2.40	2.03	1.87	1.72	1.60	1.57	4.47
Mean.	2.11	4.10	4.25	5.78	3.55	2.47	2.09	1.89	1.74	1.63	1.57	2.54
21.	2.20	3.80	4.99	4.46	3.15	2.40	2.02	1.86	1.72	1.60	1.60	3.98
22.	2.20	7.88	5.26	4.40	3.15	2.38	2.02	1.85	1.72	1.60	1.93	3.85
23.	2.20	6.68	4.88	5.50	3.10	2.37	2.02	1.85	1.73	1.60	1.68	4.23
24.	2.55	5.26	5.80	4.80	3.10	2.33	2.00	1.80	1.79	1.60	1.60	3.10
25.	2.65	4.80	5.82	4.90	3.10	2.32	2.00	1.80	1.77	1.60	1.56	3.24
26.	2.80	4.50	5.96	4.40	3.00	2.30	2.00	1.80	2.09	1.60	1.52	2.92
27.	2.93	5.50	5.99	4.51	2.90	2.30	2.00	1.80	1.81	1.60	1.52	2.90
28.	3.07	5.18	6.70	4.20	2.90	2.29	2.00	1.80	1.74	1.60	1.63	2.57
29.	4.77		6.63	4.00	2.80	2.27	2.00	1.80	1.72	1.60	1.65	2.44
30.	3.73		7.12	4.06	2.80	2.25	1.98	1.80	1.72	1.62	1.62	3.03
31.	4.70		6.88		2.80		1.97	1.80		1.76		3.12
Mean.	3.07	5.45	6.06	4.52	2.99	2.32	2.00	1.81	1.78	1.62	1.63	3.22
Monthly												
Mean.	2.30	4.36	5.90	5.99	3.46	2.48	2.10	1.88	1.77	1.73	1.63	2.47
Max.	5.00	8.40	12.10	11.63	4.50	2.80	2.25	1.97	2.30	1.72	2.30	7.40
Date.	31	22	6	2	10	1	4	8	26	1	7	21
Min.	1.50	3.20	3.80	4.00	2.80	2.25	1.97	1.80	1.72	1.60	1.52	1.50
Date.	8	8	19	29	31	30	31	31	30	30	27	8

RIVER: GREAT RUAHA  
STATION : CHIMALA  
STATION NO: IKA.8  
YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.03	6.80	6.96	6.03	6.26	3.30	2.55	2.25	2.00	1.85	1.70	1.65
2.	3.63	6.24	6.33	7.29	5.96	3.21	2.55	2.25	2.00	1.85	1.70	1.65
3.	3.86	7.64	8.02	7.41	5.66	3.20	2.50	2.20	2.00	1.80	1.70	1.65
4.	5.82	11.08	7.94	9.51	5.54	3.15	2.50	2.20	2.00	1.80	1.70	1.65
5.	4.79	8.40	6.58	9.85	5.45	3.10	2.50	2.20	2.00	1.80	1.70	1.65
6.	5.32	7.84	6.62	10.61	5.27	3.10	2.50	2.20	2.00	1.80	1.70	1.65
7.	6.40	9.22	6.30	8.92	5.32	3.05	2.50	2.20	2.00	1.80	1.70	1.65
8.	5.07	9.80	5.99	7.62	5.05	3.02	2.50	2.15	2.00	1.80	1.70	1.65
9.	4.31	9.06	5.67	6.87	4.79	3.07	2.45	2.15	1.95	1.80	1.70	1.65
10.	4.42	8.89	5.44	6.45	4.56	3.10	2.45	2.15	1.95	1.80	1.70	1.65
Mean.	4.66	8.50	6.58	8.06	5.39	3.13	2.50	2.20	1.99	1.81	1.70	1.65
11.	3.83	8.02	5.12	6.27	4.54	2.98	2.45	2.15	1.95	1.80	1.70	1.65
12.	3.68	8.74	5.13	5.80	4.30	2.91	2.45	2.15	1.95	1.80	1.70	1.65
13.	3.52	8.22	5.24	5.55	4.23	2.90	2.40	2.15	1.95	1.80	1.65	1.65
14.	3.90	7.29	5.79	5.36	4.36	2.90	2.40	2.15	1.95	1.80	1.65	1.65
15.	3.77	6.79	5.79	5.48	4.35	2.84	2.40	2.15	1.95	1.80	1.65	1.70
16.	3.72	6.54	5.57	5.62	4.43	2.80	2.40	2.10	1.95	1.75	1.65	1.70
17.	3.50	8.22	5.62	6.02	4.42	2.80	2.35	2.10	1.90	1.75	1.65	1.70
18.	4.67	7.44	5.87	6.18	4.41	2.76	2.35	2.10	1.90	1.75	1.65	1.75
19.	7.39	11.52	6.85	6.03	4.25	2.74	2.35	2.10	1.90	1.75	1.65	1.75
20.	10.46	10.78	6.48	6.64	4.27	2.75	2.35	2.05	1.90	1.75	1.65	1.75
Mean.	4.84	8.36	5.75	5.89	4.36	2.84	2.39	2.12	1.93	1.78	1.66	1.70
21.	10.26	10.94	6.13	6.31	4.11	2.70	2.35	2.05	1.90	1.75	1.65	1.80
22.	8.20	10.00	5.71	5.91	4.01	2.70	2.30	2.05	1.90	1.75	1.65	1.80
23.	9.42	8.64	5.81	6.67	3.90	2.65	2.30	2.05	1.90	1.75	1.65	1.85
24.	7.34	8.30	5.54	6.80	3.81	2.65	2.30	2.05	1.90	1.75	1.65	1.90
25.	6.98	7.60	5.15	6.53	3.73	2.60	2.30	2.05	1.85	1.70	1.65	1.90
26.	7.62	7.08	4.94	6.45	3.61	2.60	2.30	2.05	1.85	1.70	1.65	1.95
27.	8.29	6.99	4.70	6.65	3.60	2.60	2.30	2.05	1.85	1.70	1.65	2.00
28.	9.45	7.04	4.72	6.46	3.50	2.60	2.30	2.05	1.85	1.70	1.65	2.05
29.	8.66	6.58	5.34	6.26	3.41	2.55	2.25	2.05	1.85	1.70	1.65	2.05
30.	10.34		6.66	6.03	3.40	2.55	2.25	2.00	1.85	1.70	1.65	2.10
31.	7.76		6.08		3.32		2.25	2.00		1.70		2.15
Mean.	8.57	8.13	5.53	6.31	3.67	2.62	2.52	2.04	1.87	1.72	1.65	1.96
Monthly												
Mean.	6.11	8.33	5.94	6.75	4.45	2.86	2.39	2.12	1.93	1.77	1.67	1.78
Max.	12.10	12.50	11.10	11.60	6.40	3.30	2.55	2.25	2.00	1.85	1.70	2.15
Date.	30	19	3	6	1	1	1	1	8	2	12	31
Min.	2.90	6.10	4.50	5.30	3.30	2.55	2.25	2.00	1.85	1.70	1.65	1.65
Date.	1	2	27	14	31	30	31	31	30	31	30	14

From + 21st June water backed up due to repair work on bridge, waterlevels have been corrected from Current Meter Measurements.

RIVER: GREAT RUAHA  
 STATION: CHIMALA  
 STATION NO: IKA.8  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
1. +	2.15	6.30	5.40	7.67	5.92	3.80	2.85	2.52	2.30	2.15	2.20	2.00
2.	2.15	5.20	5.80	8.60	5.80	3.67	2.82	2.52	2.30	2.18	2.10	1.90
3.	2.20	5.70	5.50	8.85	5.52	3.62	2.82	2.52	2.30	2.18	2.10	1.90
4.	2.25	6.90	5.80	10.10	5.60	3.57	2.80	2.52	2.28	2.15	2.10	2.00
5.	2.30	8.55	6.45	8.95	5.20	3.52	2.80	2.47	2.28	2.18	2.00	2.60
6.	2.35	8.65	7.50	8.87	5.20	3.47	2.80	2.47	2.28	2.18	2.10	2.10
7.	2.40	10.50	6.25	7.95	5.52	3.40	2.77	2.45	2.25	2.20	2.10	2.30
8.	2.40	8.90	5.60	7.90	5.32	3.40	2.77	2.45	2.25	2.20	2.00	2.30
9.	2.45	9.60	5.20	6.97	5.10	3.37	2.75	2.45	2.25	2.15	2.00	2.00
10.	2.45	8.00	4.85	6.50	4.90	3.32	2.72	2.45	2.23	2.13	2.00	2.00
Mean.	2.31	7.83	5.84	8.24	5.41	3.51	2.79	2.48	2.27	2.17	2.07	2.11
11.	2.50	8.02	4.75	6.30	4.70	3.30	2.72	2.42	2.28	2.13	2.20	2.00
12.	2.50	7.60	4.70	6.25	4.72	3.25	2.70	2.42	2.25	2.10	2.10	2.00
13.	2.55	10.70	4.60	6.70	4.67	3.22	2.70	2.45	2.25	2.10	2.20	1.90
14.	2.55	8.50	4.47	6.30	4.65	3.20	2.67	2.42	2.23	2.10	2.20	2.00
15.	2.55	7.12	4.37	6.90	4.42	3.15	2.67	2.40	2.23	2.13	2.10	2.20
16.	2.60	6.20	4.25	6.90	4.30	3.12	2.65	2.40	2.20	2.10	2.00	2.80
17.	2.60	5.75	5.40	12.20	4.22	3.10	2.65	2.40	2.20	2.10	2.00	2.20
18.	2.60	5.25	5.25	11.20	4.12	3.10	2.62	2.40	2.20	2.10	2.00	2.20
19.	2.65	5.60	4.95	10.70	4.02	3.05	2.62	2.37	2.23	2.10	2.00	2.40
20.	2.65	6.25	5.30	10.20	4.02	3.02	2.62	2.37	2.23	2.08	2.00	2.60
Mean.	2.58	7.10	4.80	8.37	4.38	3.15	2.66	2.41	2.23	2.10	2.08	2.23
21.	2.70	8.70	6.55	11.90	4.50	3.02	2.62	2.37	2.23	2.08	2.00	2.40
22.	2.70	9.70	6.50	13.00	4.40	3.00	2.60	2.37	2.23	2.10	2.00	2.60
23.	2.75	8.30	7.32	11.55	4.25	2.97	2.60	2.35	2.20	2.10	2.00	2.70
24. +	2.85	7.27	7.20	10.30	4.22	2.95	2.60	2.35	2.20	2.08	2.00	2.60
25.	7.70	6.50	6.37	8.90	4.30	2.92	2.57	2.35	2.25	2.08	2.00	3.40
26.	4.90	5.90	6.15	8.20	4.12	2.92	2.57	2.32	2.23	2.08	1.90	2.80
27.	4.47	5.90	7.40	7.52	4.02	2.90	2.57	2.32	2.20	2.08	1.90	2.50
28.	4.12	5.70	6.97	6.55	3.92	2.87	2.55	2.32	2.18	2.10	1.90	2.40
29.	4.22		7.42	6.40	3.87	2.87	2.55	2.30	2.18	2.08	1.90	2.40
30.	4.70		8.30	6.22	3.80	2.85	2.55	2.30	2.15	2.05	2.00	2.90
31.	5.70		7.82		3.75		2.55	2.30		2.05		5.80
Mean.	4.26	7.25	7.09	9.05	4.10	2.93	2.58	2.33	2.21	2.08	1.96	2.95
Monthly												
Mean.	3.09	7.40	5.95	8.55	4.62	3.20	2.67	2.40	2.24	2.12	2.04	2.45
1st to 24th Jan. marked thus + water levels are reduced.												
Max.	7.70	10.70	8.30	13.00	5.92	3.80	2.85	2.52	2.30	2.20	2.25	5.85
Date.	25	13	30	22	1	1	1	8	9	8	14	31
Min.	2.15	5.20	4.25	6.22	3.75	2.85	2.55	2.30	2.15	2.05	1.93	1.93
Date.	2	2	16	30	31	30	30	31	30	31	29	3

RIVER: GREAT RUAHA  
 STATION: CHIMALA  
 STATION NO: IKA.8  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.12	3.00	4.55	8.39	6.19	3.40	2.93	2.65	2.43	2.20	2.05	2.08
2.	2.85	3.00	4.64	7.72	6.23	3.40	2.90	2.65	2.43	2.20	2.05	2.00
3.	3.75	2.90	4.40	7.20	6.20	3.38	2.90	2.65	2.50	2.20	2.05	1.99
4.	3.37	2.90	4.28	8.02	5.75	3.33	2.90	2.63	2.50	2.20	2.10	2.50
5.	3.30	2.80.	4.30	7.48	5.45	3.33	2.90	2.63	2.50	2.20	2.16	2.10
6.	4.52	2.98	4.37	7.53	5.20	3.33	2.90	2.63	2.50	2.18	2.20	2.03
7.	6.66	3.08	5.09	7.06	4.98	3.30	2.88	2.63	2.48	2.18	2.26	2.14
8.	5.03	2.95	5.60	6.78	4.95	3.28	2.88	2.60	2.48	2.18	2.30	2.44
9.	4.58	3.20	5.39	6.20	4.83	3.23	2.88	2.60	2.48	2.30	2.30	2.20
10.	4.49	3.75	5.17	5.90	4.70	3.23	2.85	2.58	2.45	2.25	2.31	2.10
Mean.	4.37	3.06	4.78	7.23	5.45	3.32	2.89	2.63	2.48	2.21	2.18	2.16
11.	3.96	3.94	5.24	5.63	4.58	3.20	2.83	2.58	2.43	2.23	2.20	2.55
12.	3.66	4.74	4.99	5.40	4.45	3.20	2.83	2.58	2.48	2.23	2.20	2.30
13.	3.40	5.42	5.12	5.30	4.38	3.18	2.80	2.55	2.50	2.20	2.10	2.28
14.	3.23	5.57	5.27	5.23	4.30	3.15	2.80	2.55	2.50	2.18	2.10	2.22
15.	3.05	7.92	5.68	4.95	4.20	3.13	2.80	2.58	2.48	2.18	2.18	2.34
16.	2.93	8.88	6.40	4.95	4.13	3.10	2.80	2.53	2.48	2.18	2.15	2.42
17.	2.83	7.38	10.67	4.90	4.05	3.10	2.78	2.53	2.45	2.15	2.10	2.50
18.	2.75	8.14	12.19	4.80	4.00	3.08	2.75	2.50	2.45	2.15	2.18	2.80
19.	2.70	7.02	11.76	4.68	3.93	3.08	2.75	2.50	2.45	2.13	2.10	2.75
20.	2.63	7.07	12.07	4.68	3.88	3.05	2.73	2.50	2.45	2.13	2.18	2.45
Mean.	3.11	6.61	7.94	5.05	4.19	3.13	2.79	2.54	2.47	2.18	2.15	2.46
21.	2.77	7.20	11.68	4.53	3.83	3.03	2.70	2.50	2.45	2.13	2.40	3.91
22.	2.73	8.26	12.70	4.48	3.88	3.03	2.70	2.50	2.53	2.13	2.30	4.21
23.	2.89	6.60	11.59	5.34	3.73	3.00	2.70	2.50	2.38	2.13	2.26	4.36
24.	3.13	5.80	10.86	5.48	3.70	3.00	2.70	2.48	2.33	2.10	2.29	3.74
25.	3.40	5.44	11.06	5.56	3.68	3.00	2.70	2.48	2.30	2.10	2.24	3.63
26.	4.14	5.10	11.31	5.40	3.65	2.98	2.68	2.48	2.28	2.10	2.19	5.59
27.	3.90	4.70	10.31	5.23	3.60	2.98	2.68	2.48	2.18	2.10	2.14	5.77
28.	3.60	4.63	10.56	5.49	3.55	2.95	2.68	2.48	2.18	2.10	2.10	4.30
29.	3.35		10.30	5.72	3.50	2.95	2.68	2.45	2.23	2.08	2.25	3.85
30.	3.20		9.75	5.89	3.50	2.95	2.68	2.45	2.23	2.08	2.16	3.50
31.	3.10		9.08		3.43		2.65	2.45		2.08		3.25
Mean.	3.29	5.96	10.84	5.31	3.64	2.99	2.69	2.48	2.31	2.10	2.23	4.19
Monthly Mean.	3.58	5.16	7.95	5.86	4.40	3.15	2.79	2.55	2.42	2.16	2.19	2.98
Max.	10.05	10.65	13.50	9.25	7.05	3.40	2.93	2.65	2.53	2.30	2.40	11.40
Date.	7	16	22	4	1	2	1	3	22,	9	21	27
Min.	2.60	2.75	4.28	4.40	3.43	2.95	2.65	2.45	2.18	2.08	2.05	1.99
Date.	20	5	4	22	31	30	31	31	28	31	3	3

RIVER: GREAT RUAHA  
 STATION: CHIMALA  
 STATION NO: 1KA.8  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.12	5.51	7.23	9.20	4.80	3.80	3.45	3.25	3.15	3.00	3.10	3.30
2.	3.03	5.91	6.99	8.94	4.77	3.80	3.43	3.25	3.15	3.00	3.15	3.40
3.	2.93	7.90	6.35	8.53	4.62	3.78	3.42	3.25	3.15	3.00	3.18	3.46
4.	2.95	6.95	6.81	7.83	4.65	3.75	3.43	3.22	3.13	3.00	3.12	3.62
5.	3.05	6.92	8.88	7.31	4.57	3.70	3.40	3.23	3.12	3.00	3.10	3.55
6.	2.95	5.91	8.18	6.94	4.53	3.70	3.40	3.22	3.13	3.35	3.15	3.69
7.	2.86	5.43	8.27	6.49	4.45	3.65	3.40	3.20	3.12	3.15	3.24	3.53
8.	3.05	5.68	12.92	6.11	4.38	3.65	3.40	3.20	3.13	3.25	3.23	3.45
9.	3.16	5.70	10.62	5.88	4.38	3.65	3.37	3.20	3.10	3.13	3.24	3.42
10.	3.26	5.41	11.59	5.70	4.33	3.62	3.38	3.20	3.10	3.10	3.08	3.40
Mean.	3.04	6.13	8.78	7.29	4.55	3.71	3.41	3.22	3.13	3.10	3.16	3.48
11.	3.61	5.88	9.39	5.52	4.27	3.63	3.35	3.18	3.10	3.10	3.00	4.22
12.	3.45	7.51	7.77	5.38	4.23	3.62	3.35	3.17	3.10	3.05	3.00	4.77
13.	3.40	6.65	7.20	5.23	4.20	3.60	3.35	3.20	3.10	3.00	3.00	7.55
14.	3.33	5.87	6.60	5.15	4.17	3.60	3.33	3.20	3.08	3.00	2.95	6.30
15.	3.70	5.57	6.58	5.00	4.17	3.60	3.32	3.20	3.07	3.00	2.95	5.10
16.	4.64	5.57	6.62	4.90	4.10	3.60	3.33	3.20	3.08	3.00	2.93	4.73
17.	5.57	6.37	7.09	5.38	4.08	3.55	3.30	3.20	3.07	3.00	2.92	4.42
18.	4.92	6.74	6.47	5.53	4.03	3.55	3.30	3.20	3.08	3.00	2.90	4.20
19.	5.07	6.03	5.92	5.51	4.02	3.55	3.30	3.20	3.07	3.00	2.90	4.11
20.	5.12	5.74	5.65	5.60	4.00	3.55	3.30	3.18	3.08	3.10	2.90	3.98
Mean.	4.28	6.19	6.93	5.32	4.13	3.59	3.32	3.19	3.08	3.03	2.95	4.94
21.	4.43	5.63	5.67	5.50	4.00	3.53	3.30	3.17	3.07	3.10	3.13	3.85
22.	4.03	5.86	5.97	5.54	3.95	3.50	3.30	3.20	3.10	3.02	3.07	3.80
23.	3.78	5.67	8.60	5.35	3.90	3.50	3.30	3.20	3.28	3.03	3.07	3.75
24.	3.63	5.49	8.85	5.19	3.90	3.50	3.30	3.20	3.12	3.02	3.05	3.83
25.	3.50	6.14	11.53	5.14	3.90	3.50	3.30	3.20	3.13	3.00	3.08	3.81
26.	3.46	6.29	13.16	5.10	3.90	3.50	3.30	3.18	3.12	3.00	3.10	3.99
27.	3.65	6.16	14.22	5.05	3.83	3.50	3.30	3.17	3.13	3.00	3.20	4.00
28.	4.06	6.70	11.77	4.98	3.83	3.47	3.25	3.18	3.10	3.00	3.20	3.99
29.	6.25		11.64	4.95	3.80	3.48	3.25	3.17	3.05	3.00	3.20	3.90
30.	5.18		11.12	4.85	3.80	3.47	3.25	3.18	3.02	3.00	3.25	3.83
31.	4.88		10.30		3.80		3.25	3.17		3.10		3.80
Mean.	4.26	4.36	10.26	5.17	3.87	3.50	3.28	3.18	3.11	3.02	3.14	3.87
Monthly Mean.	3.87	6.11	8.71	5.93	4.17	3.60	3.34	3.20	3.11	3.05	3.08	4.09
Max.	8.20	9.30	16.50	9.50	4.82	3.80	3.45	3.25	3.27	3.95	3.45	8.75
Date.	29	2	27	1	1	2	1	3	23	6	30	13
Min.	1.80	5.05	5.50	4.82	3.80	3.47	3.25	3.17	3.02	2.98	2.90	3.20
Date.	7	11	22	30	31	30	31	31	30	26	20	11



RIVER: KIMANI  
 STATION: GT-N-ROAD  
 STATION NO: IKA.9  
 YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.77	3.13	3.98	5.00	2.80	2.10	1.78	1.55	1.40	1.35	1.23	1.24
2.	1.67	3.07	4.90	4.88	2.80	2.10	1.77	1.55	1.40	1.32	1.20	1.17
3.	1.57	3.00	4.74	4.90	2.75	2.10	1.75	1.55	1.40	1.30	1.20	1.14
4.	1.50	2.93	4.60	4.74	2.71	2.10	1.75	1.55	1.40	1.30	1.22	1.10
5.	1.47	3.23	4.90	4.34	2.70	2.07	1.75	1.55	1.40	1.30	1.20	1.10
6.	1.60	3.00	4.80	4.26	2.70	2.06	1.75	1.55	1.40	1.30	1.20	1.10
7.	1.60	2.97	4.66	3.94	2.70	2.05	1.70	1.55	1.40	1.30	1.20	1.07
8.	1.60	2.90	4.10	3.98	2.70	2.03	1.70	1.55	1.40	1.30	1.20	1.08
9.	1.60	3.13	3.88	3.94	2.66	2.00	1.70	1.50	1.40	1.30	1.20	1.07
10.	1.75	3.00	3.54	3.70	2.60	2.00	1.70	1.50	1.40	1.30	1.19	1.09
Mean.	1.61	3.04	4.41	4.37	2.71	2.06	1.73	1.54	1.40	1.31	1.20	1.12
11.	1.60	4.30	3.46	3.56	2.60	2.00	1.70	1.50	1.40	1.30	1.16	1.10
12.	2.02	4.33	3.24	3.52	2.53	1.97	1.70	1.50	1.40	1.30	1.15	1.34
13.	1.87	4.60	3.16	3.60	2.50	1.95	1.67	1.50	1.37	1.27	1.13	1.46
14.	1.92	3.37	3.84	3.56	2.46	1.95	1.68	1.50	1.38	1.25	1.12	1.45
15.	1.97	3.35	3.98	3.34	2.45	1.95	1.67	1.50	1.37	1.25	1.10	1.67
16.	2.90	3.23	3.54	3.26	2.40	1.95	1.65	1.47	1.40	1.25	1.10	1.81
17.	2.50	4.27	3.36	3.20	2.40	1.90	1.65	1.48	1.37	1.25	1.10	1.88
18.	2.90	3.50	3.18	3.46	2.39	1.90	1.65	1.47	1.38	1.23	1.14	2.50
19.	2.49	3.37	3.12	3.24	2.35	1.90	1.65	1.48	1.37	1.22	1.23	2.07
20.	2.33	3.17	3.56	3.10	2.32	1.90	1.60	1.47	1.38	1.23	1.19	2.37
Mean.	2.25	3.75	3.44	3.38	2.44	1.94	1.66	1.49	1.38	1.25	1.14	1.76
21.	2.55	3.13	3.82	3.10	2.30	1.90	1.60	1.45	1.37	1.22	1.14	2.95
22.	2.37	4.80	3.74	3.06	2.30	1.87	1.60	1.45	1.38	1.20	1.19	3.15
23.	2.37	4.60	4.16	3.10	2.27	1.87	1.60	1.45	1.37	1.20	1.20	2.89
24.	2.60	3.83	3.98	3.20	2.26	1.85	1.60	1.44	1.35	1.20	1.16	2.19
25.	2.71	3.60	4.06	3.12	2.25	1.85	1.60	1.42	1.35	1.20	1.12	2.05
26.	3.01	3.53	4.70	3.04	2.20	1.80	1.57	1.43	1.38	1.20	1.10	2.10
27.	3.27	4.10	4.58	3.00	2.20	1.80	1.58	1.42	1.37	1.20	1.10	1.99
28.	2.83	3.76	4.20	2.90	2.20	1.80	1.57	1.43	1.35	1.20	1.10	1.88
29.	3.43		4.42	2.87	2.18	1.80	1.58	1.42	1.35	1.20	1.17	2.79
30.	3.40		4.68	2.80	2.15	1.80	1.57	1.40	1.35	1.29	1.18	2.13
31.	3.40		4.68		2.15		1.55	1.40		1.28		2.38
Mean.	2.90	3.92	4.27	3.02	2.22	1.83	1.58	1.43	1.36	1.22	1.15	2.41
Monthly Mean.	2.28	3.51	4.05	3.59	2.45	1.94	1.66	1.42	1.38	1.26	1.16	1.78
Max.	3.60	4.90	5.00	5.20	2.80	2.10	1.78	1.55	1.40	1.35	1.30	4.00
Date.	31	23	2	1	2	4	2	8	12	1	19	22
Min.	1.40	2.90	3.10	2.80	2.15	1.80	1.55	1.40	1.35	1.20	1.10	1.07
Date.	5	8	19	30	31	30	31	31	30	29	28	10



RIVER: KIMANI  
 STATION: GT/N/ROAD.  
 STATION NO: IKA.9  
 Year: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.22	4.80	4.78	3.74	3.00	2.30	1.85	1.65	1.50	1.40	1.26	1.30
2.	2.66	4.80	4.22	4.54	2.91	2.25	1.85	1.65	1.50	1.40	1.26	1.23
3.	2.48	5.37	3.82	4.24	2.90	2.25	1.85	1.65	1.50	1.40	1.26	1.20
4.	2.90	7.60	3.75	5.18	2.85	2.21	1.85	1.65	1.50	1.40	1.23	1.20
5.	3.24	5.26	4.48	5.16	2.81	2.20	1.77	1.65	1.50	1.40	1.26	1.21
6.	3.20	5.60	4.29	5.49	2.90	2.18	1.77	1.62	1.50	1.40	1.26	1.30
7.	2.94	5.28	4.54	4.66	2.85	2.15	1.77	1.62	1.50	1.40	1.23	1.36
8.	4.20	6.32	3.65	4.25	2.80	2.15	1.77	1.60	1.50	1.45	1.21	1.26
9.	3.20	5.22	3.31	4.08	2.74	2.10	1.76	1.60	1.50	1.40	1.20	1.20
10.	3.28	5.03	3.14	3.88	2.70	2.10	1.77	1.60	1.50	1.40	1.20	1.16
Mean.	3.03	5.44	4.00	4.52	2.85	2.19	1.80	1.63	1.50	1.40	1.24	1.24
11.	2.96	(4.97)	3.18	3.70	2.66	2.10	1.75	1.60	1.50	1.35	1.18	1.11
12.	2.79	(4.91)	4.24	3.58	2.65	2.10	1.75	1.60	1.47	1.31	1.18	1.11
13.	2.67	(4.85)	3.40	3.48	2.61	2.08	1.72	1.60	1.47	1.31	1.18	1.10
14.	3.02	4.80	4.20	3.38	2.60	2.07	1.70	1.60	1.45	1.31	1.16	1.13
15.	2.87	4.80	3.72	3.52	2.57	2.04	1.70	1.60	1.45	1.31	1.18	1.20
16.	2.81	4.80	3.39	3.29	2.55	2.02	1.70	1.60	1.45	1.30	1.28	1.30
17.	2.98	4.80	3.60	3.35	2.50	2.00	1.70	1.57	1.45	1.30	1.20	1.26
18.	3.90	4.73	3.64	3.34	2.50	1.99	1.70	1.57	1.45	1.30	1.18	1.30
19.	4.91	5.00	5.16	3.32	2.45	1.97	1.70	1.57	1.42	1.30	1.16	1.23
20.	5.73	5.28	4.24	3.44	2.40	1.96	1.70	1.57	1.42	1.30	1.16	1.20
Mean.	3.46	4.89	3.88	3.44	2.55	2.03	1.71	1.59	1.45	1.31	1.18	1.19
21.	4.98	6.06	4.04	3.24	2.40	1.95	1.70	1.55	1.40	1.30	1.16	1.20
22.	4.90	5.50	3.78	3.15	2.40	1.95	1.68	1.53	1.40	1.30	1.13	1.41
23.	4.80	5.04	3.65	3.24	2.40	1.95	1.65	1.52	1.40	1.30	1.11	1.36
24.	4.70	5.03	3.96	3.17	2.28	1.94	1.66	1.52	1.40	1.30	1.10	1.37
25.	4.70	4.87	3.60	3.19	2.40	1.92	1.71	1.52	1.40	1.30	1.10	1.36
26.	4.70	4.80	3.51	3.10	2.35	1.90	1.70	1.50	1.40	1.30	1.10	1.20
27.	(4.98)	4.80	3.80	3.06	2.35	1.90	1.70	1.50	1.40	1.36	1.10	1.26
28.	5.26	5.05	3.59	3.00	2.35	1.90	1.70	1.50	1.40	1.30	1.26	1.50
29.	(5.13)	4.80	3.74	3.06	2.32	1.87	1.67	1.50	1.40	1.26	1.26	1.40
30.	5.00		4.22	3.00	2.30	1.87	1.67	1.50	1.40	1.23	1.23	1.36
31.	(4.90)		3.74		2.30		1.67	1.50		1.23		1.85
Mean.	4.91	5.10	3.78	3.12	2.35	1.91	1.68	1.51	1.40	1.29	1.15	1.38
Monthly Mean.	3.84	5.15	3.88	3.69	2.57	2.05	1.73	1.58	1.45	1.33	1.19	1.27
Max.	6.40	8.80	4.90	5.80	3.00	2.30	1.85	1.65	1.50	1.45	1.30	1.85
Date.	20	4	1	6	1	2	4	5	11	8	16	31
Min.	2.18	4.70	3.10	3.00	2.20	1.87	1.65	1.50	1.40	1.23	1.10	1.10
Date.	1	18	11	30	31	30	24	31	30	31	27	13

Figures in brackets interpolated.

RIVER: KIMANI  
STATION: GT.N.ROAD  
STATION NO: IKA.9  
YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.60	3.55	3.25	3.91	3.34	2.45	1.90	1.68	1.48	1.33	1.30	1.48
2.	1.57	3.37	3.86	4.28	3.28	2.43	1.90	1.65	1.48	1.33	1.30	1.46
3.	1.51	3.95	3.86	4.05	3.25	2.40	1.90	1.65	1.48	1.30	1.28	1.46
4.	1.50	4.46	3.58	5.10	3.20	2.43	1.90	1.65	1.48	1.30	1.26	1.48
5.	1.40	5.11	4.25	4.35	3.10	2.41	1.90	1.63	1.48	1.30	1.26	1.80
6.	1.50	4.73	5.10	4.45	3.05	2.38	1.90	1.60	1.45	1.30	1.26	1.62
7.	1.70	5.41	3.96	3.91	3.15	2.35	1.90	1.60	1.43	1.30	1.26	1.60
8.	2.05	4.85	3.68	3.68	3.08	2.34	1.90	1.60	1.43	1.30	1.24	1.58
9.	1.90	4.15	3.51	3.51	3.04	2.35	1.90	1.60	1.43	1.38	1.22	1.52
10.	2.00	3.80	3.41	3.53	2.99	2.31	1.88	1.60	1.40	1.35	1.28	1.50
Mean.	1.67	4.34	3.85	4.08	3.15	2.39	1.90	1.63	1.45	1.32	1.27	1.55
11.	2.56	4.05	3.33	3.58	2.95	2.31	1.88	1.60	1.40	1.36	1.51	1.50
12.	2.00	3.62	3.33	3.56	2.90	2.31	1.88	1.60	1.55	1.36	1.30	1.50
13.	2.30	4.15	3.36	3.85	2.96	2.29	1.88	1.60	1.45	1.36	1.28	1.48
14.	2.00	3.90	3.23	3.95	2.90	2.26	1.88	1.58	1.40	1.36	1.26	1.06
15.	2.10	3.71	3.23	4.00	2.81	2.24	1.88	1.58	1.40	1.36	1.26	1.48
16.	2.00	3.50	3.18	3.78	2.78	2.23	1.88	1.55	1.40	1.36	1.26	1.60
17.	1.95	3.52	3.75	4.13	2.73	2.20	1.88	1.55	1.40	1.36	1.22	1.50
18.	1.90	3.33	3.65	4.46	2.74	2.20	1.86	1.55	1.40	1.35	1.20	1.38
19.	1.85	3.35	3.41	4.68	2.70	2.19	1.86	1.53	1.40	1.34	1.20	1.52
20.	2.00	3.50	3.87	4.50	2.78	2.19	1.84	1.53	1.40	1.34	1.20	1.70
Mean.	2.07	3.66	3.43	4.05	2.83	2.24	1.87	1.57	1.42	1.36	1.27	1.47
21.	1.90	4.85	3.93	4.34	2.75	2.15	1.84	1.53	1.40	1.34	1.20	1.72
22.	2.00	5.10	3.78	5.20	2.71	2.13	1.81	1.53	1.38	1.33	1.20	1.86
23.	2.00	4.40	3.81	4.26	2.65	2.11	1.81	1.53	1.38	1.33	1.20	1.90
24.	2.02	3.78	4.43	3.95	2.63	2.10	1.81	1.50	1.38	1.33	1.16	2.00
25.	2.71	3.51	3.95	3.75	2.67	2.10	1.80	1.50	1.40	1.32	1.16	2.04
26.	2.93	3.38	4.32	3.63	2.60	2.09	1.80	1.50	1.40	1.30	1.09	2.42
27.	2.61	3.38	5.32	3.68	2.55	2.08	1.80	1.50	1.38	1.30	1.09	2.00
28.	2.41	3.37	4.31	3.53	2.53	2.06	1.80	1.50	1.35	1.30	1.09	2.00
29.	2.63		4.33	3.45	2.50	2.05	1.79	1.50	1.35	1.30	1.09	2.18
30.	2.98		4.05	3.39	2.48	1.93	1.75	1.50	1.33	1.30	1.09	2.40
31.	3.27		3.98		2.48		1.69	1.48		1.30		2.50
Mean.	2.50	3.97	4.20	3.92	2.60	2.08	1.79	1.51	1.38	1.31	1.14	2.09
Monthly												
Mean.	2.09	3.99	3.84	4.01	2.85	2.24	1.85	1.56	1.42	1.33	1.23	1.72
Max.	3.30	6.50	5.40	5.70	3.35	2.45	1.90	1.68	1.48	1.40	1.66	2.50
Date.	31	7	27	22	1	1	9	1	1	9	11	31
Min.	1.40	3.30	3.15	3.35	2.48	1.90	1.69	1.48	1.33	1.30	1.09	1.06
Date.	5	18	16	30	31	30	31	31	30	31	30	14

RIVER: KIMANI  
 STATION: GP.N.ROAD  
 STATION NO: IKA.9  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.40	2.20	3.15	4.30	2.89	2.10	1.76	1.54	1.40	1.26	1.10	1.07
2.	2.20	2.18	3.03	4.13	2.88	2.10	1.74	1.52	1.38	1.24	1.10	1.04
3.	2.40	2.10	2.99	4.55	2.84	2.09	1.74	1.52	1.38	1.24	1.12	1.11
4.	2.15	2.10	3.00	4.67	2.79	2.07	1.74	1.52	1.36	1.26	1.08	1.08
5.	2.00	2.08	2.97	4.23	2.73	2.05	1.72	1.50	1.36	1.24	1.08	1.06
6.	3.13	2.22	3.09	3.99	2.67	2.03	1.72	1.50	1.34	1.24	1.06	1.10
7.	3.81	2.12	3.23	4.03	2.64	2.00	1.70	1.50	1.34	1.24	1.06	1.24
8.	3.15	2.10	3.20	4.04	2.61	2.00	1.70	1.50	1.34	1.24	1.06	1.21
9.	2.81	2.21	3.16	3.71	2.58	2.00	1.68	1.50	1.34	1.28	1.04	1.08
10.	2.73	2.54	3.09	3.59	2.55	1.99	1.68	1.48	1.32	1.32	1.04	1.04
Mean.	2.68	2.19	3.09	4.12	2.72	2.04	1.72	1.51	1.36	1.26	1.07	1.10
11.	2.60	2.54	3.05	3.59	2.53	1.96	1.68	1.48	1.32	1.28	1.04	1.05
12.	2.40	2.85	3.16	3.64	2.52	1.95	1.66	1.48	1.32	1.28	1.04	1.17
13.	2.30	3.35	3.41	3.47	2.50	1.92	1.66	1.48	1.34	1.26	1.02	1.22
14.	2.22	3.47	3.43	3.41	2.50	1.90	1.66	1.48	1.32	1.24	1.16	1.24
15.	2.18	3.80	3.43	3.36	2.49	1.90	1.64	1.46	1.32	1.22	1.15	1.28
16.	2.10	3.89	3.73	3.29	2.42	1.90	1.64	1.46	1.32	1.22	1.12	1.26
17.	2.06	3.57	4.65	3.24	2.39	1.90	1.64	1.46	1.32	1.22	1.12	1.46
18.	2.00	3.53	5.78	3.16	2.36	1.90	1.62	1.46	1.30	1.20	1.10	1.42
19.	1.96	3.44	5.41	3.08	2.32	1.90	1.62	1.44	1.30	1.20	1.10	1.47
20.	1.90	3.44	5.30	3.10	2.30	1.89	1.60	1.44	1.30	1.18	1.10	1.30
Mean.	2.17	3.39	4.14	3.33	2.43	1.91	1.64	1.46	1.32	1.23	1.10	1.29
21.	1.90	3.91	5.86	3.07	2.30	1.88	1.60	1.44	1.30	1.18	1.10	2.35
22.	1.90	4.54	5.91	3.02	2.30	1.88	1.58	1.42	1.30	1.18	1.16	2.57
23.	2.02	3.87	4.91	3.06	2.27	1.85	1.58	1.42	1.34	1.18	1.10	2.56
24.	2.14	3.57	5.08	3.06	2.24	1.84	1.58	1.42	1.34	1.16	1.20	2.17
25.	2.50	3.39	5.05	2.98	2.22	1.83	1.58	1.42	1.30	1.14	1.14	1.95
26.	2.78	3.25	5.93	2.93	2.22	1.80	1.56	1.42	1.30	1.12	1.16	2.36
27.	2.75	3.15	5.36	2.90	2.21	1.80	1.56	1.42	1.30	1.14	1.12	2.31
28.	2.60	3.13	5.37	2.90	2.20	1.80	1.56	1.40	1.28	1.12	1.10	2.21
29.	2.42		5.11	2.90	2.18	1.80	1.56	1.40	1.28	1.10	1.10	2.08
30.	2.40		4.84	2.90	2.15	1.80	1.54	1.40	1.26	1.10	1.10	1.88
31.	2.30		4.58		2.13		1.54	1.40		1.08		1.74
Mean.	2.34	3.60	5.28	2.97	2.22	1.83	1.57	1.41	1.30	1.14	1.13	2.20
Monthly Mean.	2.39	3.02	4.20	3.48	2.45	1.93	1.64	1.46	1.32	1.21	1.10	1.55
Max.	5.23	5.05	7.75	6.18	3.05	2.10	1.76	1.54	1.40	1.32	1.30	3.70
Date.	6	22	22	3	2	2	1	1	1	10	14	22
Min.	1.90	2.10	2.90	2.90	2.13	1.80	1.54	1.40	1.26	1.08	1.02	1.04
Date.	23	9	3	30	31	30	31	31	30	31	13	11

RIVER: KIMANI  
 STATION: GT. N. ROAD  
 STATION NO. 1KA.9  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.67	3.20	3.53	5.04	2.84	2.12	1.76	1.50	1.36	1.20	1.30	1.65
2.	1.60	2.94	3.41	5.02	2.80	2.08	1.76	1.50	1.36	1.20	1.35	1.65
3.	1.53	3.20	3.34	5.05	2.78	2.06	1.74	1.50	1.34	1.20	1.32	1.80
4.	1.52	3.29	3.37	4.36	2.74	2.04	1.70	1.50	1.34	1.20	1.36	2.10
5.	1.48	3.36	3.60	4.15	2.70	2.00	1.70	1.50	1.34	1.20	1.42	2.36
6.	1.52	3.10	3.53	4.06	2.72	2.00	1.68	1.50	1.34	1.22	1.38	2.15
7.	1.57	2.95	3.70	3.90	2.64	2.00	1.68	1.48	1.32	1.35	1.36	1.90
8.	1.52	2.88	5.60	3.80	2.66	2.00	1.68	1.48	1.32	1.40	1.38	1.76
9.	1.75	3.23	5.14	3.74	2.62	2.00	1.68	1.46	1.32	1.30	1.36	1.80
10.	1.70	3.05	5.79	3.60	2.60	1.98	1.66	1.46	1.30	1.25	1.30	1.85
Mean.	1.59	3.12	4.20	4.27	2.71	2.03	1.70	1.49	1.33	1.25	1.35	1.90
11.	1.75	3.05	4.43	3.52	2.56	1.98	1.66	1.46	1.30	1.20	1.26	2.95
12.	1.80	3.38	4.15	3.48	2.50	1.96	1.64	1.44	1.30	1.20	1.22	2.84
13.	2.01	3.20	3.97	3.40	2.48	1.90	1.62	1.44	1.30	1.20	1.20	4.31
14.	2.00	3.06	3.57	3.33	2.45	1.90	1.60	1.44	1.30	1.20	1.20	3.95
15.	2.22	3.00	3.80	3.30	2.43	1.90	1.60	1.44	1.30	1.20	1.18	3.20
16.	2.99	2.96	3.97	3.25	2.40	1.88	1.60	1.44	1.30	1.20	1.16	2.98
17.	4.00	3.10	3.79	3.31	2.38	1.88	1.60	1.44	1.30	1.20	1.14	2.77
18.	3.45	3.10	3.72	3.39	2.35	1.88	1.60	1.42	1.28	1.22	1.12	2.60
19.	3.05	2.98	3.63	3.30	2.30	1.85	1.60	1.42	1.28	1.30	1.10	2.48
20.	2.85	2.89	3.60	3.28	2.30	1.85	1.58	1.40	1.28	1.30	1.12	2.40
Mean.	2.61	3.07	3.86	3.36	2.42	1.90	1.61	1.43	1.29	1.22	1.17	3.05
21.	2.64	2.89	3.66	3.22	2.30	1.82	1.58	1.40	1.28	1.25	1.10	2.32
22.	2.45	2.93	3.71	3.30	2.30	1.82	1.58	1.40	1.26	1.20	1.10	2.30
23.	2.33	2.90	5.09	3.13	2.25	1.82	1.56	1.40	1.26	1.20	1.10	2.30
24.	2.25	2.90	4.15	3.08	2.23	1.80	1.56	1.40	2.26	1.18	1.10	2.35
25.	2.16	3.40	4.80	3.03	2.20	1.80	1.54	1.40	1.26	1.18	1.15	2.38
26.	2.20	3.36	5.28	2.98	2.20	1.78	1.54	1.38	1.24	1.16	1.30	3.00
27.	2.20	3.35	9.65	2.98	2.18	1.78	1.52	1.38	1.24	1.20	1.25	2.68
28.	2.47	3.67	5.89	2.95	2.17	1.78	1.52	1.38	1.22	1.25	1.25	2.60
29.	3.70		6.20	2.97	2.15	1.76	1.52	1.38	1.22	1.40	1.48	2.50
30.	3.13		5.52	2.90	2.15	1.76	1.52	1.38	1.22	1.32	1.64	2.45
31.	2.87		5.23		2.12		1.52	1.38		1.35		2.40
Mean.	2.58	3.18	5.38	3.05	2.20	1.79	1.54	1.39	1.25	1.29	1.25	2.48
Monthly Mean.	2.27	3.12	4.51	3.56	2.44	1.91	1.62	1.44	1.29	1.24	1.26	2.48
Max.	5.25	3.90	14.30	6.05	2.90	2.12	1.76	1.50	1.36	1.60	1.90	6.00
Date.	17	25	27	2	5	1	2	6	2	29	30	13
Min.	1.45	2.80	3.20	2.85	2.12	1.76	1.52	1.38	1.22	1.16	1.06	1.60
Date.	6	8	4	30	31	30	31	31	30	26	23	3

RIVER : MICHOBI  
 STATION : IGAWA  
 NO : IKA.10  
 YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.			3.71	3.20	3.36	3.25	3.20	3.15	3.00	3.15	3.00	
2.			3.38	4.80	3.40	3.25	3.20	3.15	3.00	3.15	3.60	
3.			3.33	4.16	3.30	3.25	3.20	3.15	3.00	3.15	3.00	
4.			3.90	4.17	3.30	3.22	3.20	3.15	3.00	3.15	3.00	
5.			3.61	5.12	3.30	3.22	3.20	3.15	3.00	3.15	3.00	
6.			3.30	4.16	3.35	3.22	3.20	3.10	3.00	3.15	3.00	Dry
7.			3.60	3.71	3.30	3.22	3.20	3.10	3.00	3.15	3.00	
8.			3.35	3.50	3.30	3.22	3.20	3.10	3.00	3.15	3.00	
9.			3.80	3.31	3.25	3.27	3.22	3.20	3.10	3.00	3.15	3.00
10.		reliable	3.37	3.20	3.16	3.27	3.20	3.20	3.10	3.00	3.15	2.97
Mean	-	-	3.47	3.93	3.31	3.23	3.20	3.12	3.00	3.15	3.00	
11.			3.61	3.22	3.36	3.25	3.20	3.17	3.10	3.05	3.15	2.97
12.			3.68	3.15	3.34	3.25	3.20	3.17	3.10	3.05	3.10	
13.			3.70	3.18	3.29	3.23	3.17	3.17	3.10	3.05	3.10	Dry
14.			3.20	3.30	3.30	3.30	3.20	3.17	3.10	3.05	3.10	
15.			3.16	3.23	3.30	3.27	3.20	3.17	3.10	3.02	3.10	3.06
16.			3.33	3.22	3.30	3.25	3.20	3.17	3.10	3.02	3.10	2.98
17.			3.20	3.20	3.30	3.25	3.20	3.17	3.10	3.00	3.10	
18.			3.10	3.15	3.27	3.25	3.20	3.15	3.10	3.00	3.10	
19.			4.30	3.68	3.30	3.23	3.20	3.15	3.10	3.00	3.10	
20.			6.73	4.73	3.30	3.20	3.20	3.15	3.10	3.00	3.10	
Mean	-	3.80	3.41	3.30	3.25	3.20	3.16	3.10	3.02	3.10		
21.			5.50	3.35	3.30	3.20	3.20	3.15	3.10	3.00	3.00	
22.			4.13	3.30	3.26	3.17	3.20	3.15	3.07	3.00	3.00	
23.			4.00	3.23	3.35	3.17	3.20	3.15	3.01	3.00	3.00	
24.			3.76	3.31	3.27	3.30	3.20	3.15	3.00	3.00	3.00	
25.			3.73	3.30	3.25	3.30	3.17	3.15	3.00	3.00		
26.			3.60	3.21	3.21	3.27	3.17	3.15	3.00	3.00		
27.			4.10	3.25	3.21	3.27	3.17	3.15	3.00	3.00		
28.			3.70	3.20	3.25	3.27	3.19	3.15	3.00	3.00	Dry	
29.			3.71	3.40	3.46	3.26	3.20	3.15	3.00	3.00	Dry	Dry
30.			-	3.40	3.36	3.25	3.20	3.15	3.00	2.95		
31.			-	3.30	-	3.25	-	3.15	3.00	-		
Mean	-	4.02	3.29	3.29	3.25	3.19	3.15	3.01	2.99			
Monthly Mean	-	-	3.39	3.51	3.07	3.20	3.17	3.08	3.00			
Max.	21.50	9.90	4.85	5.20	3.40	3.25	3.20	3.15	3.05	3.15	3.00	
Date	21	19	20	5	1/2	1-3	1-10	1-5	11-14	1-11	1-9	15-16
Min.	-	3.00	3.00	3.10	3.18	3.18	3.15	3.00	2.95	Dry	Dry	
Date	-	18	13	1 & 10	22/23	25-28	18-31	23-31	30	24-31	12-14	17-30

Maximum flood 21st January reported to be above bridge level.

RIVER: MLOMBOSI  
 STATION: IGAWA  
 STATION NO: IKA.10  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		3.79	3.28	3.64	3.50	3.40	3.35	3.35	3.22	3.22	3.05	
2.		3.58	3.82	3.70	3.50	3.39	3.37	3.35	3.22	3.22	3.05	
3.	D	3.98	3.72	3.67	3.50	3.38	3.38	3.35	3.22	3.22	3.02	
4.	R	3.46	3.52	3.60	3.50	3.38	3.35	3.35	3.22	3.22	3.00	
5.	Y	5.85	3.71	3.64	3.50	3.37	3.35	3.37	3.22	3.22		D
6.		3.56	3.57	3.71	3.50	3.37	3.32	3.35	3.22	3.22	D	F
7.	3.46	4.05	3.53	3.57	3.50	3.36	3.30	3.32	3.22	3.22	R	Y
8.	4.56	3.56	3.43	3.48	3.46	3.36	3.32	3.33	3.22	3.22	Y	
9.	3.12	3.48	3.37	3.50	3.45	3.35	3.33	3.32	3.22	3.22		
10.	3.53	3.26	3.36	3.50	3.45	3.35	3.32	3.30	3.22	3.22		
Mean.		3.86	3.53	3.60	3.49	3.37	3.34	3.34	3.22	3.22		
11.	3.36	3.38	3.31	3.50	3.45	3.35	3.33	3.32	3.22	3.22		
12.	3.18	5.08	3.37	3.63	3.42	3.37	3.33	3.30	3.22	3.22		
13.	3.40	4.80	3.38	3.62	3.43	3.35	3.35	3.27	3.22	3.22		
14.	3.56	3.58	3.33	3.60	3.42	3.35	3.32	3.28	3.22	3.22		
15.	3.12	3.48	3.46	3.67	3.43	3.35	3.37	3.22	3.22	3.22	3.00	
16.	3.06	3.33	3.38	3.85	3.42	3.35	3.38	3.23	3.22	3.22		3.65
17.	3.03	3.27	4.12	3.72	3.43	3.35	3.37	3.22	3.22	3.22		3.35
18.	3.43	3.21	4.11	3.89	3.42	3.37	3.35	3.23	3.22	3.22		3.30
19.	3.27	3.27	3.57	4.03	3.43	3.35	3.35	3.22	3.22	3.22		3.32
20.	3.05	3.32	3.42	4.00	3.42	3.37	3.37	3.23	3.22	3.22		3.62
Mean.	3.25	3.67	3.54	3.75	3.43	3.36	3.35	3.25	3.22	3.22		
21.	2.97	3.83	3.38	4.05	3.43	3.35	3.35	3.30	3.22	3.22		3.47
22.	2.97	3.87	3.77	4.07	3.45	3.30	3.37	3.32	3.22	3.22		3.45
23.	3.53	3.71	3.95	3.77	3.42	3.32	3.38	3.29	3.22	3.22		4.50
24.	3.28	3.47	3.96	3.57	3.43	3.33	3.37	3.23	3.22	3.22	D	3.69
25.	4.12	3.41	3.76	3.67	3.44	3.35	3.38	3.22	3.22	3.22	R	3.28
26.	3.50	3.38	3.57	3.57	3.42	3.35	3.37	3.23	3.22	3.12	Y	3.42
27.	3.47	3.35	4.10	3.60	3.40	3.35	3.38	3.22	3.22	3.10		3.00
28.	3.30	3.31	3.68	3.60	3.37	3.35	3.37	3.23	3.22	3.10		2.95
29.	4.68		3.58	3.57	3.40	3.35	3.38	3.22	3.22	3.10		2.90
30.	3.67		3.68	3.54	3.40	3.35	3.37	3.23	3.22	3.10		2.90
31.	3.78		3.62		3.40		3.37	3.22		3.07		3.80
Mean.	3.57	3.26	3.73	3.70	3.41	3.34	3.37	3.25	3.22	3.15		3.40
Monthly Mean.		3.70	3.61	3.68	3.44	3.38	3.35	3.28	3.22	3.20		
Max.	5.25	6.20	4.20	4.10	3.52	3.40	3.38	3.37	3.22	3.22	3.05	4.70
Date.	8	5	17-18	22	1	1	-	5	1-30	1-25	1-2	23
Min.		3.10	3.27	3.45	3.37	3.30	3.32	3.22	3.22	3.07	-	-
Date.	-	18	1	8	28	22	-	-	1-30	31	-	-

RIVER: FLOWBOSI  
 STATION: IGAWA  
 STATION NO: IKA.10  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.29	2.90	3.31	3.77	3.28	3.15	3.10	3.08	3.00	3.00	2.90	
2.	3.92	2.88	3.30	3.65	3.29	3.18	3.10	3.07	3.00	2.97	2.90	
3.	3.37	2.86	3.27	3.53	3.25	3.18	3.10	3.08	3.00	2.97	2.90	
4.	3.07	2.87	3.30	3.86	3.24	3.17	3.10	3.07	3.00	2.98	2.90	D
5.	3.00	2.88	3.28	3.67	3.20	3.17	3.10	3.08	3.00	2.98	2.88	R
6.	2.90	2.93	3.33,	3.51	3.21	3.17	3.10	3.12	3.00	2.97	2.86	Y
7.	3.91	2.92	4.12	3.42	3.20	3.18	3.10	3.16	3.00	2.97	2.81	
8.	3.25	2.91	3.99	3.44	3.20	3.15	3.13	3.07	3.00	2.96	2.80	
9.	3.00	3.25	3.76	3.36	3.20	3.15	3.12	3.06	3.03	2.96	2.80	
10.	3.02	4.00	3.30	3.40	3.20	3.17	3.13	3.03	3.02	2.97		
Mean.	3.27	3.04	3.50	3.56	3.23	3.17	3.11	3.08	3.01	2.97		
11.	2.95	3.54	3.40	3.38	3.20	3.16	3.12	3.02	3.03	2.96		
12.	2.94	3.43	3.18	3.37	3.20	3.13	3.10	3.03	3.02	2.96		
13.	2.79	3.22	3.67	3.34	3.20	3.12	3.10	3.05	3.03	2.96		
14.	2.88	3.76	3.48	3.30	3.20	3.13	3.10	3.10	3.02	2.96	D	
15.	2.81	4.40	3.37	3.30	3.20	3.12	3.13	3.10	3.03	2.96	R	
16.	2.80	3.67	3.90	3.30	3.20	3.10	3.12	3.03	3.00	2.96	Y	
17.	2.80	4.22	4.51	3.30	3.20	3.10	3.13	3.11	3.00	2.96		
18.	2.75	3.81	6.73	3.28	3.20	3.10	3.12	3.10	3.00	2.96		3.19
19.	2.78	3.70	3.73	3.27	3.20	3.10	3.10	3.10	3.00	2.96		3.26
20.	2.77	3.52	4.57	3.28	3.19	3.10	3.10	3.10	3.00	2.95		3.09
Mean.	2.83	3.73	4.05	3.31	3.20	3.12	3.11	3.07	3.01	2.96		
21.	2.72	3.40	5.01	3.25	3.15	3.10	3.10	3.08	3.00	2.95		3.35
22.	2.70	4.08	4.35	3.25	3.13	3.08	3.10	3.07	3.00	2.95		3.44
23.	2.70	3.77	3.86	3.25	3.17	3.17	3.10	3.08	3.00	2.95		3.13
24.	3.63	3.50	3.80	3.28	3.20	3.18	3.10	3.02	3.00	2.95	D	3.00
25.	3.13	3.40	3.96	3.22	3.18	3.17	3.10	3.02	3.00	2.91	R	3.28
26.	5.85	3.31	4.09	3.25	3.15	3.15	3.08	3.00	3.00	2.92	Y	4.20
27.	3.40	3.30	3.95	3.23	3.20	3.10	3.07	3.00	3.00	2.93		3.30
28.	3.12	3.30	4.05	3.22	3.20	3.10	3.08	3.00	3.00	2.93		3.22
29.	2.97		4.05	3.23	3.18	3.10	3.07	3.00	3.00	2.93		3.18
30.	2.92		3.98	3.28	3.20	3.10	3.08	3.00	3.00	2.90		3.10
31.	2.90		3.88		3.16		3.07	3.00		2.89		3.03
Mean.	3.28	3.51	4.09	3.25	3.17	3.13	3.09	3.02	3.00	2.93		3.29
Monthly Mean.	3.13	3.42	3.89	3.37	3.20	3.14	3.10	3.06	3.01	2.95		
Max.	6.60	4.60	7.00	3.90	3.30	3.23	3.13	3.18	3.03	3.00		4.33
Date.	26	15	18	4	2	23	18	7	15	19		26
Min.	2.70	2.85	2.95	3.23	3.13	3.10	3.08	3.00	3.00	2.90		
Date.	24	6	12	29	22	30	31	31	30	31		

RIVER: MLOMBOSI  
STATION: IGAWA  
STATION NO: IKA.10  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.02	2.70	3.17	3.49	2.72	2.53	2.35					2.91
2.	3.01	2.62	3.09	3.43	2.70	2.50	2.35					3.02
3.	3.00	3.46	3.40	3.50	2.71	2.50	2.35					2.59
4.	3.00	3.43	3.41	3.29	2.70	2.50	2.35					4.54
5.	3.02	2.99	4.00	3.21	2.70	2.48	2.35					3.16
6.	3.04	2.90	3.41	3.14	2.70	2.46	2.35		D R Y			2.84
7.	3.06	2.85	3.60	3.10	2.70	2.45	2.35					2.59
8.	3.08	2.71	6.15	3.07	2.68	2.45	2.35					3.04
9.	3.10	3.30	3.50	3.01	2.62	2.45	2.35					3.85
10.	3.11	2.91	3.87	3.00	2.60	2.45	2.35					3.57
Mean.	3.04	2.99	3.76	3.22	2.68	2.48	2.35					3.21
11.	3.12	2.87	3.38	2.98	2.60	2.43	2.35					4.77
12.	3.13	2.85	3.22	3.00	2.60	2.40	2.35					3.33
13.	3.76	3.45	3.30	2.93	2.60	2.40	2.34					5.92
14.	3.21	2.92	3.08	2.90	2.60	2.40	2.33					4.80
15.	3.60	2.90	3.10	2.90	2.60	2.40	2.32					2.90
16.	4.61	2.98	3.13	2.88	2.60	2.40	2.33		D R Y			2.88
17.	5.88	2.88	3.10	2.88	2.60	2.40	2.32					2.95
18.	4.03	2.88	3.09	2.85	2.60	2.48	2.33					2.69
19.	3.08	2.84	3.00	2.81	2.60	2.47	2.32					2.59
20.	2.81	2.82	3.04	2.80	2.60	2.40	2.31					2.55
Mean.	3.69	2.94	3.14	2.89	2.60	2.42	2.33					3.54
21.	2.72	2.82	3.38	2.81	2.60	2.40	2.30					2.51
22.	2.70	2.96	3.42	2.81	2.60	2.40	2.30					2.54
23.	2.61	3.37	4.56	2.79	2.60	2.40	2.30					2.57
24.	2.60	3.30	3.56	2.77	2.60	2.40	2.28					2.60
25.	2.60	4.11	3.66	2.73	2.53	2.40	2.25		D R Y			2.60
26.	2.57	3.44	4.37	2.80	2.50	2.40	2.25					3.01
27.	2.60	3.20	4.86	2.80	2.60	2.40	2.25					2.71
28.	2.77	3.21	4.02	2.80	2.57	2.38	2.25					2.58
29.	4.77		3.74	2.80	2.55	2.38	2.25					2.55
30.	2.90		3.47	2.77	2.55	2.37	2.25					2.60
31.	2.70		3.58		2.52		2.25				2.47	2.55
Mean.	2.87	3.30	3.87	2.79	2.57	2.39	2.27					2.62
Monthly Mean.	3.19	3.06	3.60	2.97	2.61	2.43	2.31					3.11
Max.	5.70	4.60	6.50	3.55	2.75	2.53	2.35					6.00
Date.	17	25	8	3	3	1	13					13
Min.	3.00	2.57	3.00	2.72	2.50	2.35	2.25					2.50
Date.	4	2	19	26	30	30	31					31

NOTE: Water levels interpolated from January 5th to 12th.



RIVER : MBARALI  
 STATION : IGAWA  
 NO : IKA. II  
 YEAR : 1955

WATER LEVEL (TRANSFERRED TO U/S)

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.85	3.60	4.40	5.90	4.20	3.60	3.30	2.80	2.75	2.35	2.00	2.40
2.	3.85	4.30	7.05	5.90	4.20	3.60	3.30	2.75	2.70	2.35	1.90	2.20
3.	3.75	3.60	6.85	6.40	4.10	3.60	3.30	2.75	2.70	2.25	1.90	2.10
4.	3.60	4.00	5.25	6.20	4.10	3.60	3.25	2.75	2.65	2.20	1.90	2.00
5.	3.95	3.60	4.85	5.60	4.10	3.60	3.15	2.70	2.60	2.20	1.90	2.00
6.	4.05	4.00	4.60	5.30	4.10	3.60	3.15	2.65	2.60	2.20	1.90	1.90
7.	4.05	6.20	4.55	5.00	4.00	3.60	3.10	2.60	2.60	2.20	1.90	1.90
8.	4.05	3.80	4.20	4.90	4.00	3.50	3.10	2.60	2.60	2.20	1.90	1.95
9.	4.05	4.60	4.10	4.90	4.00	3.50	3.10	2.60	2.60	2.20	1.90	1.90
10.	4.25	3.90	3.90	4.80	4.00	3.50	3.10	2.60	2.55	2.20	1.90	1.95
Mean	3.95	4.16	4.98	5.49	4.08	3.57	3.19	2.68	2.64	2.24	1.91	2.03
11.	4.15	4.00	3.80	4.80	4.00	3.45	3.10	2.55	2.55	2.20	1.90	2.00
12.	4.45	4.60	3.80	4.80	3.90	3.40	3.10	2.60	2.50	2.20	1.90	2.40
13.	4.45	4.00	3.80	4.70	3.90	3.40	3.10	2.75	2.50	2.10	1.85	2.30
14.	4.75	4.10	3.70	4.60	3.90	3.40	3.05	2.70	2.50	2.05	1.80	2.45
15.	4.35	4.60	4.90	4.60	3.90	3.40	3.05	2.70	2.50	2.00	1.80	2.70
16.	5.15	3.60	4.20	4.50	3.80	3.50	3.00	2.75	2.50	2.00	1.80	4.30
17.	4.75	5.50	4.10	4.50	3.80	3.50	2.95	2.80	2.50	2.00	1.80	3.10
18.	4.95	4.00	3.90	4.50	3.80	3.40	2.90	2.80	2.50	2.00	1.80	5.50
19.	4.55	3.90	3.90	4.60	3.70	3.35	2.90	2.85	2.45	2.00	1.80	3.60
20.	4.60	4.10	3.90	4.40	3.70	3.35	2.90	2.90	2.45	2.00	1.80	7.10
Mean	4.62	4.24	4.00	4.60	3.84	3.42	3.01	2.74	2.49	2.05	1.83	3.55
21.	4.45	3.80	4.40	4.40	3.70	3.30	2.90	2.85	2.40	2.00	1.85	4.45
22.	4.30	6.40	4.40	4.40	3.70	3.30	2.90	2.85	2.40	2.00	1.90	4.10
23.	4.15	4.80	4.80	4.50	3.70	3.30	2.90	2.85	2.40	2.00	1.95	3.05
24.	5.05	4.40	4.60	4.40	3.70	3.30	2.85	2.80	2.40	2.00	2.05	2.90
25.	4.55	4.40	4.20	4.40	3.70	3.45	2.85	2.80	2.40	2.00	2.05	2.70
26.	4.20	4.20	5.00	4.80	3.70	3.40	2.85	2.80	2.40	2.00	2.00	2.50
27.	4.30	4.40	4.90	4.70	3.60	3.40	2.80	2.80	2.40	2.00	2.00	2.40
28.	3.80	4.30	5.00	4.50	3.60	3.35	2.80	2.80	2.40	2.00	2.00	2.40
29.	5.40		5.30	4.40	3.60	3.35	2.80	2.80	2.40	2.00	2.00	2.30
30.	4.00		5.40	4.30	3.60	3.30	2.80	2.75	2.35	2.00	2.00	2.40
31.	3.90		6.80		3.60		2.80	2.75		1.95		2.70
Mean	4.37	4.59	4.98	4.48	3.65	3.35	2.84	2.80	2.40	2.00	1.98	2.90
Monthly												
Mean	4.31	4.31	4.66	4.86	3.84	3.44	3.00	2.75	2.51	1.92	1.91	2.83
Max.	6.10	7.50	9.30	6.60	4.25	3.60	3.30	2.85	2.75	2.35	2.05	9.00
Date	29	7	3	3	1	1-7	1	19-20	1	1-2	24-25	20
Min.	3.55	3.50	3.60	4.28	3.55	3.38	2.80	2.55	2.35	1.95	1.80	1.90
Date	4	4-5	14	30	28-29	24-25	27-31	11	30	31	14-20	6/78 9

Water levels before 3rd December transferred to U/S Gauge and water levels from 1st June to 2nd December are reduced for Dam influence on D/S Gauge.

RIVER : MBARAJI  
 STATION : IGAWA  
 NO : IKA.11  
 YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.72	4.51	5.18	6.11	4.84	3.48	3.04	2.81	2.69	2.42	2.32	2.48
2.	3.27	4.32	(5.50)	7.67	4.76	3.47	3.03	2.81	2.68	2.41	2.33	2.37
3.	3.20	6.40	5.84	7.05	4.70	3.45	3.02	2.80	2.68	2.39	2.31	2.35
4.	6.00	10.06	5.80	7.41	4.65	3.43	3.02	2.80	2.66	2.41	2.25	2.30
5.	3.56	6.48	(5.70)	7.60	4.62	3.42	3.01	2.80	2.65	2.40	2.20	2.67
6.	3.59	6.06	(5.48)	7.50	4.69	3.40	3.02	2.77	2.65	2.34	2.20	2.64
7.	3.43	6.60	(5.27)	6.46	4.50	3.40	3.03	2.80	2.64	2.36	2.20	2.66
8.	5.11	6.64	(5.25)	5.98	4.44	3.38	3.03	2.80	2.63	2.37	2.19	2.56
9.	3.31	6.15	(5.96)	5.67	4.35	3.38	3.03	2.87	2.63	2.37	2.18	2.41
10.	4.04	6.62	(6.22)	5.48	4.23	3.38	3.03	2.93	2.65	2.40	2.15	2.21
Mean	3.82	6.38	5.62	6.69	4.58	3.42	3.03	2.82	2.66	2.39	2.23	2.47
11.	3.17	6.46	(5.95)	5.30	4.22	3.38	3.03	2.92	2.64	2.39	2.17	2.16
12.	2.91	5.90	(5.52)	5.20	4.19	3.40	3.04	2.93	2.63	2.39	2.22	2.13
13.	3.27	5.82	(5.16)	5.16	4.21	3.38	3.00	2.94	2.60	2.40	2.22	2.15
14.	4.00	5.38	(5.22)	4.94	4.22	3.38	2.96	2.95	2.58	2.41	2.25	2.20
15.	2.90	5.22	(5.02)	4.90	4.17	3.34	2.96	2.91	2.58	2.41	2.28	3.15
16.	3.05	5.70	(4.85)	4.82	4.04	3.31	2.94	2.89	2.53	2.41	2.36	3.04
17.	3.02	5.11	(4.81)	4.94	4.00	3.30	2.91	2.80	2.58	2.39	2.37	2.89
18.	5.72	6.80	(5.50)	5.07	4.00	3.31	2.93	2.79	2.57	2.39	2.33	2.93
19.	4.98	7.96	6.20	4.99	3.96	3.31	2.93	2.80	2.55	2.25	2.25	2.63
20.	7.66	10.16	6.50	4.90	3.92	3.31	2.90	2.77	2.53	2.20	2.21	2.49
Mean	4.07	6.39	5.47	5.02	4.09	3.34	2.96	2.87	2.58	2.36	2.27	2.58
21.	6.02	7.36	5.69	4.90	3.85	3.30	2.90	2.77	2.50	2.23	2.21	2.52
22.	6.48	5.82	5.32	5.56	3.78	3.23	2.88	2.76	2.42	2.23	2.16	2.81
23.	5.79	5.74	5.19	6.38	3.72	3.19	2.88	2.75	2.38	2.24	2.16	3.40
24.	4.95	5.68	5.24	5.15	3.82	3.19	2.87	2.76	2.36	2.28	2.16	3.22
25.	4.84	5.22	5.19	4.94	3.79	3.21	2.87	2.74	2.35	2.25	2.10	2.91
26.	6.36	4.99	5.16	4.84	3.77	3.21	2.85	2.76	2.35	2.26	2.05	2.67
27.	10.48	8.70	5.26	4.80	3.73	3.21	2.85	2.79	2.35	2.28	2.06	2.95
28.	6.14	6.10	4.85	5.00	3.59	3.14	2.83	2.80	2.38	2.28	2.43	2.67
29.	6.14	5.80	5.66	5.09	3.55	3.12	2.80	2.79	2.40	2.29	2.63	2.56
30.	5.74		6.92	4.89	3.55	3.05	2.81	2.78	2.40	2.30	2.63	2.55
31.	4.94		4.96		3.52		2.80	2.74		2.31		3.81
Mean	6.17	6.16	5.40	5.16	3.70	3.19	2.85	2.77	2.39	2.27	2.26	2.92
Monthly Mean	4.74	6.32	5.40	5.62	4.11	3.32	2.94	2.82	2.55	2.34	2.25	2.66
Max.	13.70	11.50	9.40	9.45	4.90	3.50	3.08	2.95	2.75	2.48	2.64	4.40
Date	27	20	29	5	6	1-2	1	14	1	1	29	15
Min.	2.63	4.00	4.60	4.70	3.50	3.08	2.80	2.73	2.35	2.20	2.05	2.10
Date	1	12	26	17-27-28	31	30	29-31	31	28-30	20	25-27	11-14

From 1st January to 21st March, readings only.

RIVER: MBARALI  
 STATION: IGAWA  
 STATION NO: IKA.11  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.36	4.86	3.95	6.45	5.00	3.97	3.30	2.93	2.73	2.45	2.30	2.13
2.	3.23	4.66	3.72	6.72	4.90	3.97	3.28	2.93	2.73	2.43	2.38	2.13
3.	3.11	7.20	3.57	7.16	4.80	3.90	3.25	2.93	2.73	2.43	2.38	2.11
4.	2.88	6.79	3.82	7.42	4.75	3.85	3.25	2.93	2.70	2.43	2.38	2.15
5.	2.69	8.08	4.97	7.81	4.70	3.80	3.20	2.93	2.68	2.43	2.38	2.45
6.	2.61	5.99	5.69	7.17	4.68	3.80	3.20	2.90	2.68	2.40	2.38	2.60
7.	2.94	6.72	4.52	6.33	4.62	3.72	3.20	2.90	2.68	2.40	2.38	2.50
8.	3.92	6.11	4.77	5.97	4.59	3.68	3.20	2.90	2.65	2.43	2.30	2.40
9.	3.23	5.36	4.20	5.72	4.53	3.63	3.18	2.90	2.63	2.43	2.30	2.35
10.	3.71	4.83	3.96	5.85	4.50	3.63	3.17	2.88	2.63	2.40	2.30	2.33
Mean.	3.17	6.06	4.32	6.66	4.71	3.80	3.22	2.91	2.68	2.42	2.35	2.32
11.	4.12	6.18	3.91	6.20	4.43	3.60	3.13	2.88	2.63	2.38	2.30	2.25
12.	4.05	5.58	3.98	6.08	4.37	3.55	3.13	2.88	2.63	2.35	2.30	2.30
13.	3.87	6.10	3.94	6.56	4.30	3.53	3.10	2.85	2.63	2.33	2.30	2.28
14.	3.57	5.25	3.78	6.55	4.25	3.53	3.10	2.83	2.63	2.33	2.28	2.35
15.	3.30	5.65	3.78	6.64	4.20	3.50	3.10	2.83	2.63	2.35	2.30	2.79
16.	3.20	4.78	3.89	5.94	4.16	3.48	3.10	2.83	2.63	2.33	2.30	3.12
17.	3.10	4.52	5.01	6.68	4.07	3.45	3.10	2.83	2.58	2.30	2.23	2.95
18.	3.49	4.35	5.18	6.97	4.07	3.43	3.08	2.83	2.58	2.30	2.23	2.98
19.	3.75	5.28	4.63	7.10	4.07	3.43	3.08	2.83	2.58	2.30	2.23	3.09
20.	3.20	5.51	4.40	6.75	4.06	3.40	3.05	2.83	2.58	2.30	2.25	2.11
Mean.	3.57	5.32	4.25	6.55	4.20	3.49	3.10	2.84	2.61	2.33	2.27	2.72
21.	3.19	7.12	4.21	6.45	4.05	3.40	3.05	2.85	2.58	2.30	2.23	3.13
22.	3.53	5.92	4.07	6.33	4.08	3.40	3.05	2.83	2.58	2.28	2.23	3.14
23.	3.85	5.54	5.28	6.26	4.12	3.40	3.05	2.83	2.55	2.30	2.20	4.06
24.	4.96	5.18	5.40	6.00	4.25	3.40	3.01	2.80	2.53	2.30	2.20	3.51
25.	5.88	4.86	4.87	5.80	4.30	3.35	3.00	2.78	2.53	2.28	2.18	3.96
26.	4.60	4.61	5.55	5.61	4.23	3.35	3.00	2.78	2.58	2.23	2.18	3.24
27.	4.28	4.40	6.54	5.50	4.11	3.30	3.00	2.75	2.53	2.28	2.18	2.85
28.	3.67	4.19	5.65	5.38	4.02	3.30	3.00	2.73	2.50	2.28	2.18	2.65
29.	3.76		6.05	5.24	3.98	3.30	2.98	2.73	2.48	2.30	2.18	2.53
30.	5.69		6.26	5.10	3.92	3.30	2.95	2.70	2.45	2.30	2.15	3.03
31.	4.93		6.36		3.90		2.93	2.73		2.28		5.13
Mean.	4.39	5.23	5.48	5.77	4.09	3.35	3.00	2.77	2.53	2.28	2.19	3.38
Monthly Mean.	3.73	5.56	4.71	6.32	4.32	3.55	3.10	2.84	2.61	2.34	2.27	2.83
Max.	7.65	10.80	7.85	9.20	4.97	3.97	3.30	2.93	2.73	2.47	2.38	9.30
Date	30	3	26	5	3	1	1	1-5	1-3	2	2-7	31
Min.	2.58	4.05	3.45	5.08	3.88	3.30	2.93	2.70	2.45	2.28	2.13	2.11
Date.	6	28	3	30	30.31	25-30	31	29.30	22-31	22-31	30	3

RIVER: MBARALI  
STATION: IGAWA  
STATION NO: IKA.11  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.75	3.01	3.90	6.53	4.20	3.28	2.95	2.70	2.55	2.38	2.20	2.25
2.	6.04	2.90	4.25	6.33	4.73	3.23	2.95	2.73	2.55	2.33	2.25	2.20
3.	4.37	2.80	3.80	6.00	4.38	3.23	2.93	2.73	2.53	2.35	2.23	2.18
4.	3.78	2.80	3.60	6.40	4.10	3.23	2.93	2.73	2.48	2.33	2.23	2.18
5.	3.57	2.87	3.91	5.70	4.00	3.23	2.93	2.73	2.48	2.33	2.20	2.18
6.	4.36	3.08	4.06	5.50	3.93	3.23	2.93	2.73	2.48	2.30	2.18	2.18
7.	5.54	3.10	5.55	5.33	3.85	3.23	2.93	2.73	2.53	2.30	2.18	2.20
8.	4.99	2.95	6.48	5.38	3.80	3.23	2.93	2.73	2.58	2.30	2.18	2.34
9.	4.39	5.30	5.43	5.15	3.75	3.20	2.90	2.70	2.50	2.30	2.13	2.27
10.	3.81	4.88	5.04	4.93	3.68	3.13	2.88	2.70	2.48	2.33	2.10	2.18
Mean.	4.56	3.37	4.60	5.73	4.04	3.22	2.93	2.72	2.52	2.33	2.19	2.22
11.	3.42	4.30	5.08	4.83	3.63	3.18	2.88	2.70	2.43	2.38	2.13	2.18
12.	3.21	4.30	5.15	4.75	3.60	3.18	2.88	2.70	2.43	2.40	2.10	2.28
13.	3.21	4.30	5.46	4.63	3.60	3.18	2.88	2.68	2.45	2.40	2.10	2.84
14.	3.12	4.30	5.08	4.53	3.58	3.15	2.88	2.68	2.45	2.35	2.08	2.54
15.	2.92	5.11	5.00	4.43	3.55	3.13	2.88	2.63	2.45	2.33	2.35	3.18
16.	2.77	5.38	5.50	4.38	3.53	3.13	2.88	2.63	2.48	2.30	2.25	2.61
17.	2.64	5.71	6.50	4.30	3.50	3.10	2.85	2.63	2.48	2.28	2.18	2.40
18.	2.60	5.41	7.50	4.28	3.48	3.10	2.83	2.60	2.45	2.25	2.15	2.67
19.	2.60	4.77	5.94	4.23	3.45	3.08	2.78	2.60	2.43	2.25	2.13	2.56
20.	2.56	5.32	8.18	4.20	3.43	3.08	2.78	2.58	2.45	2.23	2.10	2.88
Mean.	2.91	4.89	5.94	4.46	3.54	3.13	2.85	2.64	2.45	2.32	2.16	2.61
21.	2.54	5.10	8.25	4.30	3.43	3.05	2.78	2.58	2.45	2.20	2.10	4.69
22.	2.57	5.44	8.79	4.25	3.43	3.05	2.78	2.60	2.43	2.23	2.14	4.83
23.	2.97	4.63	7.58	4.25	3.43	3.03	2.78	2.60	2.43	2.23	2.27	4.31
24.	3.95	5.38	7.77	4.25	3.40	3.03	2.78	2.60	2.53	2.20	2.45	3.36
25.	3.37	4.64	7.37	4.25	3.38	3.03	2.75	2.63	2.43	2.18	2.48	3.29
26.	6.20	4.14	8.37	4.20	3.38	3.00	2.73	2.60	2.43	2.18	2.40	4.70
27.	4.33	3.83	9.25	4.20	3.35	3.00	2.73	2.60	2.43	2.15	2.35	3.59
28.	3.86	3.80	7.40	4.10	3.35	3.00	2.73	2.58	2.40	2.13	2.30	3.38
29.	3.54		7.03	4.08	3.33	2.98	2.73	2.58	2.40	2.13	2.32	3.16
30.	3.33		6.60	4.30	3.33	2.98	2.73	2.55	2.40	2.10	2.30	2.83
31.	3.15		6.65		3.30		2.70	2.55		2.20		2.60
Mean.	3.62	4.62	7.73	4.22	3.37	3.02	2.75	2.59	2.43	2.18	2.31	3.70
Monthly Mean.	3.69	4.27	6.14	4.80	3.64	3.12	2.84	2.65	2.47	2.27	2.22	2.87
Max.	9.40	10.10	11.80	7.85	4.83	3.28	2.95	2.72	2.55	2.40	2.80	7.85
Date.	26	9	20	4	2	1	2	8	2	13	15	21
Min.	2.50	2.80	3.60	4.08	3.30	2.98	2.70	2.55	2.40	2.10	2.08	2.15
Date.	21	4	4	29	31	30	31	31	30	30	14	10

As water level drops almost consistently from 27th March the readings on the outside gauge have been taken as the daily averages until November 15th with a few exceptions.

RIVER: MBARALI  
 STATION: IGAWA  
 STATION NO: IKA.11  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.53	2.85	5.00	7.23	4.05	3.20	2.93	2.70	2.50	2.33	2.38	3.05
2.	2.40	3.00	4.58	9.65	4.00	3.20	2.92	2.70	2.48	2.32	2.40	3.80
3.	2.40	4.70	5.00	8.70	3.92	3.20	2.92	2.70	2.47	2.33	3.60	3.20
4.	2.35	4.30	4.97	7.20	3.90	3.15	2.90	2.73	2.48	2.32	2.60	3.30
5.	2.30	3.52	5.80	6.50	3.83	3.13	2.90	2.70	2.47	2.33	2.87	3.08
6.	2.27	3.13	5.43	6.02	3.90	3.10	2.90	2.68	2.48	2.35	2.52	3.20
7.	2.27	2.92	5.65	5.70	3.82	3.10	2.90	2.67	2.47	2.40	2.50	3.10
8.	2.40	3.00	5.65	5.40	3.75	3.10	2.90	2.65	2.48	2.47	2.50	3.02
9.	2.90	4.78	6.93	5.30	3.72	3.10	2.88	2.65	2.45	2.48	2.53	4.20
10.	3.30	3.67	6.22	5.12	3.70	3.10	2.88	2.65	2.45	2.43	2.42	3.70
Mean.	2.51	3.59	5.52	6.68	3.86	3.14	2.90	2.68	2.47	2.38	2.63	3.37
11.	3.10	3.28	5.40	4.95	3.65	3.08	2.87	2.68	2.42	2.40	2.33	7.00
12.	3.30	4.40	5.25	4.93	3.60	3.07	2.87	2.68	2.40	2.35	2.27	4.10
13.	3.70	4.50	6.35	4.83	3.60	3.05	2.85	2.67	2.40	2.32	2.25	6.65
14.	3.00	3.73	5.10	4.72	3.53	3.03	2.80	2.67	2.40	2.30	2.28	5.40
15.	4.10	3.60	5.90	4.60	3.50	3.03	2.80	2.65	2.38	2.28	2.30	5.10
16.	6.60	3.58	5.30	4.52	3.50	3.03	2.80	2.65	2.40	2.25	2.30	4.30
17.	9.70	3.50	5.95	4.48	3.48	3.03	2.78	2.63	2.40	2.22	2.30	3.75
18.	6.20	3.88	5.27	4.60	3.47	3.03	2.78	2.62	2.37	2.23	2.28	3.40
19.	4.10	3.73	5.70	4.48	3.45	3.02	2.77	2.60	2.38	2.32	2.27	3.15
20.	3.58	3.38	5.00	4.60	3.43	3.02	2.75	2.58	2.40	2.38	2.25	3.10
Mean.	4.74	3.76	5.52	4.67	3.52	3.04	2.81	2.64	2.40	2.31	2.28	4.60
21.	3.18	3.80	4.98	4.53	3.40	3.02	2.75	2.58	2.47	2.50	2.25	2.97
22.	2.90	4.88	5.00	4.40	3.38	3.02	2.78	2.57	2.48	2.55	2.25	3.15
23.	2.73	3.97	6.30	4.33	3.35	3.02	2.77	2.60	2.40	2.40	2.25	3.00
24.	2.65	4.80	5.50	4.25	3.30	3.00	2.75	2.60	2.40	2.32	2.25	3.20
25.	2.58	5.22	6.55	4.20	3.30	3.00	2.73	2.58	2.38	2.30	2.50	3.95
26.	2.53	5.45	7.80	4.18	3.28	3.00	2.72	2.58	2.37	2.30	3.10	4.90
27.	4.65	4.38	10.30	4.12	3.27	2.98	2.72	2.53	2.38	2.30	2.80	4.20
28.	3.15	5.47	7.10	4.10	3.23	2.97	2.70	2.52	2.35	2.38	2.68	3.88
29.	5.30		7.75	4.10	3.23	2.95	2.70	2.48	2.35	2.47	2.70	3.60
30.	2.80		7.50	4.10	3.22	2.93	2.70	2.50	2.32	2.38	3.20	3.40
31.	2.70		7.63		3.22		2.70	2.50		2.40		3.30
Mean.	3.20	4.75	6.95	4.23	3.29	2.99	2.73	2.55	2.39	2.39	2.60	3.60
Monthly Mean.	3.47	3.98	6.03	5.19	3.55	3.06	2.81	2.62	2.42	2.36	2.50	3.84
Max.	10.10	5.80	19.40	9.70	4.05	3.20	2.93	2.73	2.50	2.55	3.60	8.40
Date.	17	28	27	2	1	3	1	4	1	22	3	11
Min.	2.23	2.85	4.48	4.10	3.22	2.93	2.70	2.48	2.32	2.22	2.25	2.88
Date.	6	1	2	30	31	30	31	29	30	17	24	23

RIVER : HALALI  
STATION : IYAI  
NO : IKA.12  
YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.		
1.		4.43	3.57	4.13	3.00	1.82	1.37	1.18	1.13	1.03		0.88		
2.		3.53	3.57	5.25	2.90	1.80	1.37	1.18	1.13	1.03		0.82		
3.		3.70	3.60	4.58	2.84	1.80	1.35	1.18	1.13	1.03		0.75		
4.		5.46	3.50	5.16	2.80	1.77	1.34	1.18	1.10	1.03		0.92		
5.	River dry	4.26	3.60	6.52	2.80	1.73	1.32	1.18	1.10	1.03	River dry	1.67		
6.		3.96	3.66	5.27	2.70	1.70	1.32	1.18	1.10	1.03		1.16		
7.		5.07	3.52	4.93	2.70	1.65	1.32	1.18	1.10	1.03		1.26		
8.		4.30	3.39	4.52	2.70	1.65	1.30	1.18	1.10	1.03		1.23		
9.		3.88	3.34	4.36	2.63	1.65	1.30	1.18	1.10	1.00		1.14		
10.		4.24	3.21	4.20	2.60	1.60	1.30	1.18	1.10	0.88		1.09		
Mean		0.0	4.28	3.50	4.89	2.77	1.72	1.33	1.18	1.11		1.01	0.0	1.10
11.		1.48	3.93	3.20	4.12	2.60	1.62	1.30	1.18	1.10		0.85		1.02
12.		1.39	4.23	3.17	4.00	2.60	1.60	1.27	1.18	1.10				0.95
13.		1.34	4.05	3.10	3.89	2.50	1.60	1.26	1.18	1.10				0.93
14.	1.74	3.74	3.16	3.90	2.50	1.60	1.25	1.18	1.10			0.88		
15.	1.72	3.60	3.73	3.80	2.50	1.57	1.25	1.18	1.10			0.92		
16.	1.72	4.12	3.47	3.67	2.47	1.55	1.25	1.18	1.10	River dry	River dry	1.38		
17.	3.58	4.17	3.16	3.72	2.47	1.52	1.25	1.15	1.10			1.08		
18.	4.40	3.71	3.09	3.60	2.47	1.50	1.22	1.15	1.08			0.98		
19.	3.63	5.32	3.65	3.46	2.42	1.50	1.20	1.15	1.08			0.95		
20.	4.26	4.73	4.64	3.48	2.40	1.50	1.14	1.15	1.08			0.92		
Mean	2.53	4.16	3.44	3.76	2.49	1.56	1.24	1.17	1.09	0.09	0.0	1.00		
21.	3.53	5.28	3.77	3.32	2.37	1.50	1.12	1.15	1.08			1.01		
22.	(3.73)	4.33	3.20	3.29	2.30	1.50	1.10	1.15	1.05			1.68		
23.	(3.94)	4.24	3.19	3.54	2.30	1.48	1.10	1.15	1.05		River dry	1.20		
24.	(4.15)	4.06	4.05	3.30	2.32	1.46	1.28	1.15	1.05			1.32		
25.	(4.36)	3.73	3.47	3.10	2.23	1.40	(1.25)	1.13	1.05	River dry	River dry	1.38		
26.	4.57	3.70	3.17	3.00	2.10	1.40	(1.21)	1.13	1.05			1.20		
27.	5.42	4.30	3.47	3.06	2.08	1.40	(1.17)	1.13	1.05			1.10		
28.	4.63	4.83	4.27	3.16	2.00	1.40	1.13	1.13	1.05		0.80	1.08		
29.	4.40	4.03	3.96	3.10	1.90	1.40	1.10	1.13	1.05		0.80	1.08		
30.	3.89		4.83	3.10	1.90	1.37	1.20	1.13	1.05		Dry	1.10		
31.	3.60		4.02		1.89		1.18	1.13				1.09		
Mean	4.20	4.28	3.76	3.20	2.13	1.43	1.17	1.14	1.05	0.0	0.16	1.20		
Monthly														
Mean	2.31	4.24	3.57	3.95	2.45	1.57	1.24	1.16	1.08	0.35	0.05	1.11		
Max.	5.60	6.80	5.10	7.40	3.00	1.82	1.37	1.18	1.13	1.03	0.80	2.50		
Date	27	21	30	5	1	1	1/2	1-16	1-3	1-8	28/29	5		
Min.	1.30	3.60	3.08	2.98	1.85	1.38	1.10	1.13	1.05	0.0	0.0	0.73		
Date	13	2/3	18	26	31	30	22-23 & 29	25-31	22-30	12-31	All month except 28/29	3		

( ) Interpolated.

From 28th July to 30th November figures have been reduced to correlation with Hakuni.

RIVER: HALALI  
 STATION: IYAI  
 STATION NO: IKA12  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		3.00	2.43	3.73	2.67	1.86	1.40	1.25	1.07	0.80	0.90	0.60
2.		3.03	2.68	3.80	2.62	1.85	1.40	1.25	1.05	0.80	0.90	0.60
3.		4.46	2.86	3.44	2.60	1.82	1.40	1.25	1.05	0.80	0.90	0.60
4.		3.26	2.39	3.09	2.57	1.80	1.37	1.22	1.05	0.80	0.90	0.60
5.		3.56	2.91	3.00	2.57	1.80	1.35	1.22	1.05	0.80	0.90	0.60
6.		3.04	3.31	2.95	2.57	1.80	1.32	1.20	1.02	0.80	0.90	0.60
7.		4.70	3.16	2.78	2.50	1.77	1.32	1.20	1.02	0.80	0.90	0.60
8.		3.36	2.94	2.70	2.50	1.78	1.32	1.17	1.00	0.80	0.90	0.60
9.		3.18	2.56	2.65	2.50	1.75	1.32	1.15	1.00	0.80	0.90	0.60
10.		2.88	2.43	2.59	2.43	1.70	1.32	1.15	1.00	0.80	0.80	0.60
Mean.		3.45	2.77	3.07	2.55	1.79	1.35	1.21	1.03	0.80	0.89	0.60
11.		2.84	2.28	3.29	2.40	1.70	1.32	1.15	1.00	0.80	0.80	0.70
12.		2.70	2.69	2.89	2.37	1.67	1.30	1.12	1.00	0.80	0.80	0.70
13.		4.13	2.30	3.80	2.28	1.67	1.30	1.12	1.00	0.70	0.80	0.80
14.		3.42	2.30	3.60	2.27	1.62	1.30	1.12	0.97	0.90	0.80	0.80
15.		3.17	2.30	3.44	2.25	1.60	1.30	1.12	0.97	0.90	0.80	1.00
16.	1.38	2.95	2.73	3.83	2.22	1.60	1.30	1.12	0.97	0.90	0.80	1.35
17.	1.83	2.79	3.39	4.13	2.20	1.60	1.30	1.12	0.97	0.90	0.80	1.30
18.	1.48	2.67	4.22	3.60	2.19	1.60	1.27	1.12	0.97	0.90	0.80	1.45
19.	1.31	2.81	3.19	3.32	2.17	1.57	1.27	1.15	0.95	0.90	0.80	1.35
20.	1.21	2.95	2.76	3.14	2.10	1.57	1.27	1.15	0.95	0.90	0.80	1.75
Mean.	1.44	3.04	2.82	3.50	2.25	1.62	1.29	1.13	0.98	0.86	0.80	1.12
21.	1.46	3.72	2.60	3.13	2.10	1.55	1.30	1.15	0.90	0.90	0.80	1.80
22.	1.43	3.62	2.50	3.15	2.09	1.52	1.30	1.15	0.90	0.80	0.80	2.30
23.	1.44	3.20	2.70	3.00	2.11	1.50	1.27	1.15	0.90	0.80	0.80	1.75
24.	1.52	2.92	2.79	2.94	1.97	1.50	1.27	1.15	0.90	0.90	0.80	1.70
25.	2.16	2.84	2.53	2.86	2.00	1.50	1.27	1.15	0.90	0.90	0.70	1.55
26.	2.15	2.68	2.45	2.82	2.00	1.50	1.27	1.12	0.90	0.90	0.70	1.45
27.	3.33	2.54	2.75	2.80	2.00	1.45	1.27	1.10	0.90	0.80	0.60	1.40
28.	2.52	2.48	2.75	2.77	1.99	1.45	1.27	1.10	0.87	0.80	0.60	1.10
29.	2.10		3.63	2.72	1.94	1.40	1.25	1.07	0.87	0.90	0.60	1.05
30.	2.36		3.63	2.70	1.90	1.40	1.25	1.07	0.87	0.90	0.60	1.00
31.	2.57		4.33		1.87		1.25	1.07		0.90		3.60
Mean.	2.09	3.00	2.97	2.89	2.00	1.48	1.27	1.12	0.89	0.86	0.70	1.70
Monthly Mean.	1.89	3.17	2.85	3.15	2.26	1.63	1.31	1.15	0.97	0.84	0.80	1.12
Max.	3.60	5.40	4.50	4.40	2.67	1.87	1.40	1.25	1.07	0.90	0.90	3.90
Date.	27	7	31	17	1	1	1.2.3	1.2.3	1	14-19 24-25 29-31	1-7	31
Min.	1.20	2.47	2.27	2.57	1.87	1.40	1.25	1.07	0.87	0.75	0.60	0.60
Date.	20	28	11	10	31	29-30	30	29-31	28-30	13	27-30	1-10

RIVER: HALALI  
 STATION: IYAI  
 STATION NO: IKA.12  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.00	1.93	3.03	3.77	3.32	2.00	1.48	1.20	1.10	1.00	0.85	0.60
2.	2.70	1.81	2.62	3.60	3.06	2.00	1.48	1.20	1.09	1.00	0.85	0.59
3.	2.29	1.79	2.50	3.50	2.88	1.98	1.45	1.20	1.08	1.00	0.80	0.50
4.	1.91	2.13	2.38	3.42	2.80	1.98	1.40	1.20	1.05	1.00	0.80	0.48
5.	2.60	2.10	2.31	3.30	2.74	1.95	1.40	1.20	1.05	1.00	0.70	0.48
6.	2.81	1.97	2.61	3.30	2.70	1.95	1.40	1.20	1.05	1.00	0.70	0.48
7.	3.60	2.80	4.37	3.33	2.69	1.95	1.38	1.20	1.05	1.00	0.70	0.50
8.	2.80	2.13	3.75	3.20.	2.59	1.93	1.37	1.20	1.03	1.00	0.70	0.50
9.	2.73	4.07	4.13	3.20	2.50	1.90.	1.35	1.20	1.03	1.00	0.80	0.50
10.	2.41	3.23	3.36	3.16	2.50	1.88	1.30	1.20	1.03	1.00	0.90	0.40
Mean.	2.69	2.40	3.11	3.38	2.78	1.95	1.40	1.20	1.06	1.00	0.78	0.50
11.	2.03	2.93	3.44	3.10	2.50	1.85	1.30	1.20	1.03	1.00	0.85	0.40
12.	1.94	3.37	3.90	3.10	2.49	1.85	1.30	1.20	1.03	1.00	0.82	0.40
13.	1.82	3.37	3.33	3.06	2.48	1.83	1.30	1.20	1.02	1.00	0.80	0.47
14.	1.75	3.46	3.00	2.98	2.45	1.80	1.30	1.18	1.00	1.00	0.75	0.68
15.	1.67	4.00	2.93	2.95	2.40	1.80	1.30	1.15	1.00	1.00	0.75	0.60
16.	1.54	3.23	3.12	2.90	2.38	1.78	1.30	1.13	1.00	1.00	0.70	0.60
17.	1.49	3.57	4.60	2.90	2.34	1.75	1.30	1.10	1.00	1.00	0.70	0.60
18.	1.39	3.07	3.70	2.90	2.30	1.75	1.28	1.10	1.00	1.00	0.70	0.88
19.	1.30	2.80	3.41	2.90	2.30	1.73	1.25	1.10	1.00	1.00	0.65	1.10
20.	1.24	2.79	4.60	3.13	2.30	1.75	1.21	1.10	1.00	0.95	0.60	1.10
Mean.	1.62	3.26	3.60	2.99	2.39	1.79	1.28	1.15	1.01	1.00	0.73	0.68
21.	1.15	2.60	4.97	3.00	2.26	1.75	1.20	1.10	1.00	0.95	0.70	1.10
22.	1.13	3.05	4.60	2.97	2.20	1.75	1.20	1.10	1.00	0.95	0.70	1.56
23.	1.11	2.80	4.20	3.06	2.20	1.65	1.20	1.10	1.00	0.95	0.70	1.73
24.	1.33	2.70	5.03	3.00	2.20	1.60	1.20	1.10	1.00	0.93	0.70	1.58
25.	1.70	2.64	4.53	3.10	2.18	1.58	1.20	1.10	1.00	0.93	0.70	1.58
26.	3.53	2.52	4.50	3.03	2.14	1.55	1.20	1.10	1.00	0.92	0.68	1.90
27.	4.40	2.50	4.77	2.92	2.10	1.53	1.20	1.10	1.00	0.90	0.68	2.30
28.	3.27	2.50	4.25	2.81	2.10	1.50	1.20	1.10	1.00	0.87	0.70	1.60
29.	3.00		3.87	2.80	2.10	1.50	1.20	1.10	1.00	0.87	0.70	1.19
30.	2.30		4.73	3.13	2.08	1.48	1.20	1.10	1.00	0.85	0.62	1.04
31.	2.06		4.27		2.05		1.20	1.10		0.85		0.93
Mean.	2.27	2.66	4.52	2.98	2.15	1.59	1.20	1.10	1.00	0.91	0.69	1.50
Monthly Mean.	2.19	2.78	3.77	3.12	2.43	1.78	1.29	1.15	1.02	0.97	0.73	0.92
Max.	4.60	4.30	5.30	3.80	3.40	2.00	1.48	1.20	1.10	1.00	0.90	2.40
Date.	27	15	17	1	1	2	2	13	1	19	10	27
Min.	1.13	1.65	2.30	2.80	2.05	1.48	1.20	1.10	1.00	0.85	0.60	0.40
Date.	22	15	5	29	31	30	31	31	30	31	26	12



RIVER: HALALI  
STATION: IYAYI  
STATION NO: LKA.12  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.78	0.80	3.03	3.69	2.77	2.01	1.45	1.10	0.85	0.80	0.60	0.70
2.	0.66	1.63	2.77	4.90	2.73	2.00	1.40	1.10	0.85	0.80	1.53	0.80
3.	0.60	2.33	3.08	4.60	2.68	2.00	1.40	1.10	0.85	0.80	1.19	0.85
4.	0.60	2.40	3.10	3.89	2.60	1.99	1.40	1.10	0.85	0.80	1.00	0.80
5.	0.89	1.80	2.93	3.70	2.60	1.97	1.40	1.10	0.85	0.80	1.00	0.80
6.	0.65	1.37	2.80	3.59	2.58	1.95	1.40	1.10	0.85	0.90	0.90	0.98
7.	0.96	1.76	2.83	3.50	2.58	1.94	1.40	1.10	0.85	0.90	1.30	1.10
8.	1.08	1.32	2.80	3.41	2.57	1.91	1.40	1.10	0.85	0.90	1.29	0.90
9.	1.07	1.63	2.78	3.38	2.55	1.88	1.40	1.10	0.85	1.00	1.29	1.62
10.	0.90	1.67	2.61	3.30	2.55	1.86	1.40	1.10	0.85	1.00	1.10	1.27
Mean.	0.82	1.67	2.87	3.80	2.62	1.95	1.41	1.10	0.85	0.87	1.12	0.98
11.	0.93	1.70	2.58	3.25	2.50	1.80	1.40	1.10	0.83	0.90	1.10	2.53
12.	1.00	2.27	3.07	3.25	2.45	1.70	1.40	1.10	0.83	0.80	1.10	2.03
13.	1.12	2.26	2.98	3.20	2.46	1.66	1.38	1.10	0.83	0.75	1.10	2.17
14.	1.13	2.10	2.65	3.10	2.40	1.63	1.38	1.10	0.83	0.70	1.08	2.10
15.	1.50	1.87	2.45	3.10	2.38	1.61	1.35	1.10	0.83	0.70	1.07	1.97
16.	1.50	1.60	3.07	3.08	2.36	1.65	1.30	1.10	0.83	0.70	1.05	1.73
17.	1.72	1.92	2.95	3.07	2.33	1.63	1.30	1.10	0.80	0.70	1.00	1.40
18.	1.70	2.37	3.20	3.08	2.30	1.63	1.25	1.10	0.80	0.70	0.90	1.29
19.	1.59	2.00	3.17	3.00	2.30	1.63	1.20	1.08	0.80	0.70	0.90	1.10
20.	1.30	1.59	3.33	3.00	2.29	1.61	1.20	1.08	0.80	0.67	0.85	0.95
Mean.	1.35	1.97	2.95	3.11	2.38	1.66	1.32	1.10	0.82	0.73	1.02	1.73
21.	1.00	2.60	3.17	2.95	2.28	1.58	1.20	1.05	0.80	0.67	0.85	0.94
22.	1.00	3.13	3.13	2.90	2.23	1.58	1.20	1.00	0.80	0.67	0.80	0.91
23.	0.90	2.57	3.82	2.89	2.19	1.58	1.20	1.00	0.80	0.65	0.78	0.90
24.	0.78	3.19	3.30	2.80	2.18	1.50	1.20	1.00	0.80	0.65	0.75	0.86
25.	0.70	2.93	4.10	2.80	2.13	1.50	1.20	0.95	0.80	0.65	0.70	0.83
26.	0.60	2.40	3.67	2.81	2.10	1.50	1.15	0.90	0.80	0.65	0.70	1.48
27.	0.87	2.17	5.95	2.80	2.08	1.50	1.10	0.90	0.80	0.65	0.70	1.24
28.	0.76	4.00	4.02	2.90	2.05	1.50	1.10	0.90	0.80	0.65	0.70	1.10
29.	0.70		4.08	2.88	2.03	1.50	1.10	0.90	0.80	0.65	0.70	1.10
30.	0.70		4.40	2.80	2.03	1.45	1.10	0.90	0.80	0.65	0.72	1.25
31.	0.70		4.17		2.03		1.10	0.85		0.65		1.10
Mean.	0.79	2.87	3.98	2.85	2.12	1.52	1.15	0.94	0.80	0.65	0.74	1.06
Monthly Mean.	0.98	2.12	3.29	3.25	2.36	1.71	1.29	1.04	0.82	0.75	0.96	1.25
Max.	1.80	4.30	8.00	6.70	2.78	2.01	1.45	1.10	0.85	1.00	1.60	3.20
Date.	17	28	27	2	1	1	1	18	10	10	2	11
Min.	0.60	0.80	2.30	2.80	2.03	1.45	1.10	0.85	0.80	0.65	0.60	0.70
Date.	4	1	2	30	31	30	31	31	30	31	1	1



RIVER: LUKOSI  
 STATION: MBUYUNI  
 STATION NO: IKA.4  
 YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.30	9.58	8.10	7.33	9.88	6.95	5.60	4.65	3.80	3.35	3.25	2.55
2.	2.68	9.10	9.17	7.20	9.67	7.08	5.60	4.60	3.80	3.35	3.20	2.55
3.	2.83	8.92	9.00	7.53	9.18	7.05	5.56	4.60	3.75	3.30	2.95	2.55
4.	3.30	8.58	8.12	8.01	8.65	7.05	5.60	4.55	3.75	3.30	2.85	2.60
5.	3.51	7.70	8.05	9.33	8.41	6.95	5.60	4.58	3.75	3.25	2.85	2.96
6.	4.33	7.85	7.60	9.16	8.32	6.90	5.53	4.65	3.75	3.20	2.95	3.21
7.	7.03	8.25	7.32	9.25	8.15	6.85	5.50	4.58	3.70	3.20	2.90	3.35
8.	9.93	7.90	7.15	9.13	8.05	6.68	5.45	4.46	3.70	3.20	2.85	2.98
9.	8.47	7.15	7.08	9.12	7.95	6.61	5.36	4.35	3.70	3.15	2.80	2.67
10.	7.33	7.22	7.40	9.00	7.85	6.53	5.30	4.35	3.75	3.10	2.75	2.55
Mean.	5.17	8.23	7.90	8.51	8.61	6.86	5.51	4.54	3.75	3.24	2.94	2.80
11.	5.93	7.58	7.48	9.16	7.85	6.40	5.28	4.30	3.80	3.10	2.78	2.50
12.	4.27	7.23	8.18	9.31	7.85	6.35	5.25	4.30	3.75	3.10	2.75	2.47
13.	3.17	7.43	7.63	9.10	7.83	6.40	5.20	4.30	3.68	3.10	2.70	2.45
14.	2.80	7.23	7.36	8.85	7.71	6.37	5.11	4.25	3.60	3.10	2.70	2.50
15.	3.30	7.73	7.35	8.92	7.65	6.30	5.15	4.25	3.55	3.05	2.70	2.50
16.	3.17	7.97	7.33	8.76	7.58	6.25	5.10	4.20	3.55	3.05	2.70	2.50
17.	6.40	8.27	7.20	8.65	7.91	6.25	5.05	4.15	3.55	3.05	2.70	2.61
18.	7.08	8.02	7.10	8.45	7.95	6.25	5.05	4.15	3.55	3.00	2.65	2.60
19.	9.02	7.70	7.35	8.22	7.68	6.15	5.00	4.10	3.50	3.00	2.65	2.60
20.	7.87	8.77	7.58	8.52	7.60	6.17	5.00	4.05	3.50	3.00	2.65	2.55
Mean.	5.30	7.79	7.46	8.79	7.76	6.29	5.12	4.21	3.60	3.05	2.70	2.53
21.	9.82	8.57	7.52	8.28	7.55	6.15	4.93	4.05	3.45	3.00	2.60	2.50
22.	9.93	8.84	7.33	8.51	7.45	5.98	4.90	4.00	3.45	3.00	2.60	2.50
23.	9.85	9.10	7.18	8.41	7.40	5.88	4.85	4.00	3.45	2.95	2.55	2.53
24.	9.10	8.58	7.53	8.32	7.28	5.80	4.85	3.95	3.40	3.00	2.55	2.50
25.	9.03	8.47	7.38	8.28	7.20	5.85	4.80	3.95	3.35	2.95	2.55	2.45
26.	9.77	8.48	7.35	10.13	7.13	5.75	4.80	3.90	3.45	2.95	2.50	2.90
27.	9.25	8.28	7.18	9.50	7.00	5.70	4.75	3.90	3.60	2.90	2.55	3.33
28.	9.82	8.50	7.05	9.50	6.98	5.65	4.75	3.85	3.76	2.90	2.50	4.50
29.	9.92	8.10	7.46	9.52	7.23	5.60	4.70	3.85	3.50	2.90	2.60	4.31
30.	9.85		7.45	10.38	7.11	5.60	4.70	3.85	3.40	2.90	2.55	3.78
31.	9.90		7.16		7.10		4.65	3.80		2.90		3.35
Mean.	9.66	8.55	7.33	9.08	7.22	5.80	4.79	3.92	3.48	2.94	2.56	3.15
Monthly Mean.	6.80	8.18	7.55	8.79	7.84	6.32	5.13	4.21	3.61	3.07	2.73	2.83
Max.	9.95	9.60	9.30	10.55	10.00	7.15	5.60	4.65	3.20	3.35	3.25	4.50
Date.	8.22.29	1	2	30	1	3	1/2 4/5 1:6	1/2	1/2	1	28	
Min.	2.30	7.10	7.00	7.20	6.95	5.60	4.65	3.80	3.40	2.90	2.50	2.45
Date.	1	10	28	2	29/30	31	31	24.30	27-31	26;28	26;28	13.25

RIVER: LUKOSI  
STATION: MBUYUNI  
STATION NO: IKA-14  
YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.30	4.51	6.15	5.36	7.83	6.80	5.50	4.65	3.85	3.40	3.05	2.50
2.	3.40	6.35	6.25	5.36	7.75	6.80	5.60	4.65	3.85	3.35	3.00	2.50
3.	3.00	6.83	6.45	5.70	7.70	6.70	5.55	4.60	3.80	3.30	2.95	2.45
4.	3.00	7.00	6.45	5.65	7.57	6.70	5.45	4.60	3.80	3.30	2.90	2.45
5.	3.00	7.32	6.55	5.53	7.95	6.60	5.45	4.50	3.75	3.25	2.90	2.45
6.	3.36	7.03	6.40	5.70	9.25	6.60	5.40	4.45	3.85	3.25	2.90	2.45
7.	4.75	8.35	6.23	5.78	9.15	6.50	5.40	4.40	3.75	3.20	2.85	2.50
8.	4.68	8.00	5.98	7.83	9.55	6.50	5.40	4.40	3.75	3.20	2.85	2.50
9.	4.03	7.91	5.81	7.45	9.06	6.40	5.35	4.55	3.70	3.20	2.80	2.50
10.	3.90	7.68	5.73	6.78	8.71	6.40	5.30	4.45	3.70	3.15	2.75	2.50
Mean.	3.64	7.10	6.20	6.11	8.45	6.60	5.44	4.53	3.78	3.26	2.90	2.48
11.	3.90	6.57	5.60	6.10	8.43	6.30	5.25	4.40	3.65	3.15	2.75	2.65
12.	3.90	6.13	5.50	5.96	8.35	6.20	5.25	4.35	3.65	3.10	2.70	2.65
13.	3.60	6.50	5.40	6.20	8.15	6.20	5.20	4.30	3.60	3.05	2.70	2.60
14.	3.91	6.90	5.50	6.35	7.95	6.20	5.20	4.30	3.60	3.05	2.70	2.60
15.	3.40	6.38	5.45	7.93	7.90	6.10	5.20	4.25	3.60	3.05	2.75	2.70
16.	4.61	6.86	5.40	10.52	7.85	6.10	5.15	4.20	3.55	3.00	2.75	2.75
17.	4.55	6.41	5.45	10.60	7.85	6.10	5.10	4.25	3.55	3.00	2.70	2.90
18.	3.28	6.05	5.60	9.61	7.90	6.05	5.10	4.20	3.50	2.90	2.65	2.80
19.	2.93	5.88	5.43	9.28	7.85	6.00	5.05	4.15	3.50	2.95	2.65	2.90
20.	3.16	5.93	5.36	9.78	8.05	5.95	5.00	4.10	3.45	2.95	2.65	3.05
Mean.	3.72	6.35	5.47	8.23	8.03	6.12	5.15	4.25	3.57	3.02	2.70	2.76
21.	3.78	6.00	5.40	10.51	7.93	5.90	5.30	4.10	3.45	2.90	2.65	3.50
22.	3.81	5.93	5.45	10.68	7.73	5.90	5.15	4.05	3.45	2.90	2.70	3.05
23.	4.10	6.00	5.15	10.40	7.60	6.10	5.05	4.05	3.40	2.85	2.70	2.95
24.	3.95	6.05	5.00	11.40	7.53	6.05	4.95	4.05	3.40	2.80	2.65	2.80
25.	3.90	6.05	5.03	12.38	7.40	5.87	4.80	4.00	3.40	2.85	2.55	2.90
26.	3.41	6.05	4.88	10.96	7.30	5.80	4.80	4.00	4.95	2.90	2.55	2.85
27.	3.25	6.10	4.95	9.61	7.20	5.70	4.90	4.00	4.10	2.95	2.55	2.70
28.	3.65	6.15	5.65	8.86	7.10	5.60	4.85	3.95	3.75	3.00	2.55	2.70
29.	4.33		6.18	8.30	6.95	5.55	4.80	3.95	3.50	3.05	2.50	2.80
30.	4.50		5.71	8.01	6.93	5.50	4.70	3.90	3.45	3.10	2.50	2.90
31.	4.40		5.56		6.88		4.65	3.90		3.10		3.05
Mean.	3.91	6.04	5.36	10.10	7.32	5.80	4.90	4.00	3.69	2.95	2.59	2.93
Monthly												
Mean.	3.77	6.53	5.67	8.15	7.91	6.17	5.16	4.25	3.68	3.07	2.73	2.73
Max.	5.25	8.50	6.55	12.45	9.70	6.80	5.60	4.65	4.95	3.40	3.05	3.50
Date.	7,	7	5	25	8	1	2	12	26	1	1	21
Min.	2.90	4.40	4.85	5.30	6.85	5.50	4.65	3.90	3.40	2.80	2.50	2.45
Date.	19	1	26	2	31	30	31	31	25	24	30	6

RIVER: LUKOSI  
STATION: MBUYUNI  
STATION NO: IKA.14  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.15	3.05	5.00	12.15	10.20	6.40	5.50					
2.	3.20	3.30	4.35	13.60	9.80	6.35	5.45					
3.	3.35	2.85	4.30	11.00	9.70	6.30	5.45					
4.	2.90	2.90	4.60	10.70	9.30	6.55	5.40					
5.	3.05	2.90	4.75	10.00	8.90	6.55	5.35					
6.	3.10	3.70	4.70	9.40	8.95	6.50	5.35					
7.	3.30	4.50	4.80	8.50	8.70	6.50	5.35					
8.	3.40	4.00	4.90	8.20	8.40	6.45	5.30					
9.	3.30	3.70	4.80	8.00	7.90	6.30	5.30					
10.	3.25	3.50	4.65	8.00	7.60	6.25	5.25					
Mean.	3.20	3.44	4.69	9.96	8.95	6.42	5.37					
11.	2.80	3.90	4.70	7.90	7.50	6.00	5.25					
12.	2.60	4.00	4.70	7.70	7.40	5.95	5.20					
13.	2.50	4.50	4.70	7.60	7.35	5.95	5.20					
14.	2.55	4.90	4.80	7.50	7.20	5.95	5.15					
15.	2.50	8.05	4.60	7.45	7.10	5.90	5.15					
16.	2.50	6.10	5.10	7.40	7.05	5.85	5.05					
17.	2.40	6.05	5.50	7.35	7.00	5.85	5.05					
18.	2.35	6.40	5.75	7.40	7.00	5.80	5.00					
19.	2.35	6.30	5.70	7.50	6.95	5.80	5.00					
20.	2.30	6.50	5.65	8.20	6.90	5.75	4.90					
Mean.	2.49	5.67	5.12	7.60	7.15	5.88	5.10					
21.	2.30	7.10	5.90	8.50	7.05	5.75	Gauge					
22.	2.35	6.30	6.20	8.05	6.95	5.70	Closed					
23.	2.30	6.10	6.75	8.40	6.90	5.65						
24.	3.30	7.50	6.90	9.50	6.80	5.60						
25.	2.85	7.45	7.45	9.90	6.75	5.55						
26.	2.80	6.10	8.60	10.80	6.70	5.50						
27.	2.65	5.90	9.70	11.30	6.65	5.45						
28.	2.60	5.50	9.95	10.00	6.60	5.40						
29.	2.75		10.70	10.60	6.50	5.35						
30.	2.80		11.20	11.40	6.45	5.30						
31.	2.90		11.45		6.40							
Mean.	2.69	6.49	8.62	9.85	6.70	5.53						
Monthly Mean.	2.79	5.11	6.22	9.13	7.57	5.94						
Max.	3.40	8.05	11.45	13.60	10.20	6.55	5.50					
Date.	8	15	31	2	2	5	1					
Min.	2.30	2.85	4.30	7.35	6.40	5.30						
Date.	24	3	3	17	31	30						

RIVER : NDEMBERA  
STATION : ILONGO  
NO : IKA.15  
YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.			3.3	3.2	2.9	2.3	2.1	1.85	1.65	1.4	1.1	1.2
2.			3.3	3.3	2.8	2.3	2.1	1.85	1.65	1.4	1.1	1.3
3.			3.2	3.3	2.8	2.3	2.1	1.85	1.65	1.4	1.1	1.3
4.			3.2	3.3	2.8	2.3	2.1	1.85	1.65	1.4	1.1	1.3
5.			3.1	3.2	2.8	2.3	2.1	1.85	1.63	1.4	1.1	1.30
6.			3.1	3.2	2.7	2.3	2.1	1.85	1.60	1.3	1.1	1.30
7.			3.0	3.2	2.7	2.3	2.1	1.85	1.60	1.3	1.2	1.30
8.			3.0	3.1	2.7	2.2	2.0	1.85	1.60	1.3	1.2	1.30
9.			3.0	3.1	2.7	2.2	2.0	1.80	1.60	1.3	1.2	1.30
10.			3.0	3.1	2.7	2.2	2.0	1.80	1.60	1.3	1.2	1.30
Mean			3.1	3.2	2.8	2.3	2.1	1.84	1.62	1.4	1.1	1.29
11.			3.0	3.0	2.7	2.2	2.0	1.80	1.60	1.3	1.1	1.30
12.		3.2	3.1	3.1	2.6	2.2	2.0	1.80	1.60	1.3	1.1	1.30
13.		3.2	3.2	3.1	2.6	2.2	2.0	1.80	1.58	1.3	1.1	1.30
14.		3.2	3.2	3.1	2.6	2.2	2.0	1.80	1.55	1.2	1.1	1.30
15.		3.1	3.3	3.1	2.6	2.2	2.0	1.80	1.55	1.2	1.2	1.30
16.		3.1	3.4	3.1	2.6	2.1	1.9	1.80	1.55	1.2	1.2	1.30
17.		3.1	3.5	3.1	2.5	2.1	1.9	1.80	1.53	1.2	1.2	1.30
18.		3.0	3.5	3.1	2.5	2.1	1.9	1.80	1.50	1.2	1.2	1.30
19.		3.0	3.5	3.1	2.5	2.1	1.90	1.80	1.50	1.2	1.2	1.30
20.		3.0	3.5	3.1	2.5	2.1	1.90	1.75	1.50	1.2	1.2	1.30
Mean		3.1	3.3	3.1	2.6	2.2	2.0	1.80	1.55	1.2	1.2	1.30
21.		3.3	3.4	3.0	2.5	2.1	1.90	1.75	1.48	1.2	1.2	1.40
22.		3.5	3.3	3.0	2.5	2.1	1.90	1.75	1.45	1.2	1.2	1.40
23.		3.5	3.3	3.0	2.5	2.1	1.90	1.73	1.45	1.2	1.1	1.40
24.		3.5	3.3	3.0	2.5	2.1	1.90	1.70	1.45	1.2	1.1	1.40
25.		3.5	3.2	2.9	2.4	2.1	1.90	1.70	1.40	1.2	1.1	1.40
26.		3.4	3.2	2.9	2.4	2.1	1.90	1.70	1.40	1.1	1.1	1.40
27.		3.4	3.1	2.9	2.4	2.1	1.90	1.70	1.40	1.1	1.1	1.55
28.		3.4	3.1	2.9	2.4	2.1	1.90	1.70	1.40	1.1	1.1	1.55
29.		3.4	3.1	2.9	2.4	2.1	1.90	1.70	1.40	1.1	1.2	1.55
30.			3.1	2.9	2.4	2.1	1.88	1.70	1.40	1.1	1.2	1.68
31.			3.2		2.4		1.85	1.65		1.1		1.80
Mean		9.4	3.2	2.9	2.4	2.1	2.08	1.71	1.42	1.1	1.1	1.50
Monthly Mean			3.2	3.1	2.6	2.2	1.97	1.78	1.53	1.2	1.1	1.37
Max.			3.50	3.30	2.90	2.30	2.10	1.85	1.65	1.40	1.20	1.85
Date			17-20	2-4	1	1-7	1-7	1-3	1-5	1-5	7-10 15-22	1/2 & 31
Min.			3.00	2.90	2.40	2.10	1.85	1.65	1.40	1.10	1.10	1.30
Date			7-11	25-30	25-31	16-30	31	31	25-30	26-31	1-6 11-14	5-21

Figures from 12th February to 18th July and from 1st October to 4th December have been transferred from U/S Gauge.

RIVER: NDEMBERA  
 STATION : ILONGO  
 STATION NO: IKA.15  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.03	2.70	2.80	3.00	3.20	2.50	2.10	1.90	1.75	1.50	1.20	1.10
2.	2.05	2.80	2.83	2.95	3.20	2.45	2.10	1.90	1.75	1.50	1.20	1.10
3.	2.13	2.80	2.88	3.00	3.10	2.45	2.10	1.90	1.75	1.50	1.20	1.10
4.	2.23	2.80	2.85	3.10	3.10	2.45	2.10	1.90	1.75	1.48	1.20	1.10
5.	2.35	2.95	2.80	3.20	3.05	2.45	2.10	1.90	1.70	1.45	1.20	1.15
6.	2.40	3.00	2.80	3.23	3.00	2.40	2.10	1.90	1.70	1.45	1.15	1.10
7.	2.48	3.08	2.80	3.10	3.00	2.40	2.10	1.90	1.70	1.45	1.15	1.10
8.	2.60	3.10	2.80	3.15	2.98	2.40	2.05	1.90	1.70	1.45	1.15	1.10
9.	2.53	3.10	2.75	3.15	2.90	2.40	2.05	1.90	1.70	1.40	1.10	1.10
10.	2.50	3.10	2.70	3.20	2.90	2.35	2.05	1.90	1.70	1.40	1.10	1.10
Mean.	2.33	2.94	2.80	3.11	3.04	2.43	2.09	1.90	1.72	1.46	1.17	1.10
11.	2.45	3.10	2.70	3.20	2.90	2.35	2.05	1.90	1.70	1.40	1.10	1.05
12.	2.40	3.05	2.65	3.20	2.90	2.33	2.05	1.90	1.70	1.40	1.10	1.05
13.	2.43	3.05	2.70	3.20	2.90	2.30	2.00	1.90	1.65	1.40	1.10	1.10
14.	2.50	3.03	2.65	3.20	2.85	2.30	2.00	1.87	1.65	1.40	1.10	1.10
15.	2.50	3.00	2.70	3.15	2.83	2.30	2.00	1.85	1.60	1.40	1.10	1.10
16.	2.53	2.95	2.65	3.15	2.80	2.30	2.00	1.85	1.60	1.40	1.10	1.10
17.	2.60	2.95	2.63	3.28	2.80	2.30	2.00	1.85	1.60	1.40	1.10	1.20
18.	2.60	2.9 <sup>u</sup>	2.6 <sup>u</sup>	3.35	2.8 <sup>u</sup>	2.25	2.00	1.85	1.60	1.40	1.10	1.20
19.	2.65	2.90	2.60	3.75	2.80	2.25	2.00	1.80	1.60	1.40	1.05	1.25
20.	2.60	2.90	2.60	4.85	2.75	2.25	2.00	1.80	1.60	1.40	1.05	1.30
Mean.	2.53	2.98	2.65	3.43	2.83	2.29	2.01	1.86	1.63	1.40	1.09	1.15
21.	2.65	2.90	2.55	4.70	2.70	2.20	2.00	1.80	1.60	1.35	1.10	1.30
22.	2.70	2.85	2.53	4.45	2.70	2.20	2.00	1.80	1.58	1.35	1.15	1.30
23.	2.73	2.80	2.50	4.35	2.68	2.20	2.00	1.85	1.55	1.30	1.20	1.35
24.	2.80	2.80	2.5 <sup>u</sup>	3.60	2.65	2.20	1.95	1.80	1.55	1.30	1.15	1.35
25.	2.80	2.80	2.5 <sup>u</sup>	3.5 <sup>u</sup>	2.63	2.20	1.95	1.8 <sup>u</sup>	1.55	1.30	1.15	1.50
26.	2.80	2.8 <sup>u</sup>	2.70	3.35	2.60	2.15	1.95	1.80	1.55	1.30	1.10	1.50
27.	2.70	2.75	2.75	3.30	2.60	2.15	1.95	1.8 <sup>u</sup>	1.55	1.25	1.10	1.50
28.	2.75	2.75	2.75	3.30	2.55	2.15	1.90	1.80	1.55	1.25	1.10	1.60
29.	2.75		2.8 <sup>u</sup>	3.25	2.55	2.1 <sup>u</sup>	1.90	1.80	1.55	1.25	1.10	1.70
30.	2.75		2.80	3.20	2.53	2.10	1.90	1.80	1.50	1.20	1.10	1.77
31.	2.73		2.85		2.50		1.90	1.80		1.20		1.85
Mean.	2.73	2.81	2.66	3.70	2.61	2.17	1.95	1.80	1.55	1.28	1.12	1.52
Monthly Mean.	2.54	2.92	2.70	3.41	2.82	2.29	2.01	1.85	1.63	1.38	1.12	1.26
Max.	2.80	3.10	2.90	5.00	3.20	2.50	2.10	1.90	1.75	1.50	1.20	1.85
Date.	24-26	8-11	3	20	1	1-4	1-10	1-4	1-3	1-3	1-5 8,23	31
Min.	2.00	2.70	2.50	2.95	2.50	2.10	1.90	1.80	1.50	1.20	1.05	1.05
Date.	1	1	23,25	2	30,31	29,30	28-31	28-31	30	30-31	19	11,12

RIVER: NDEMBERA  
STATION: ILONGO  
STATION NO: IKA.15  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.90	2.28	2.70	3.20	2.75	2.15	1.85	1.65	1.50	1.25	1.00	1.30
2.	1.95	2.30	2.70	3.15	2.73	2.10	1.85	1.65	1.50	1.25	1.00	1.30
3.	2.00	2.27	2.67	3.10	2.70	2.10	1.85	1.65	1.50	1.25	1.00	1.30
4.	2.12	2.25	2.60	3.10	2.70	2.10	1.85	1.65	1.50	1.25	1.00	1.25
5.	2.25	2.22	2.60	3.05	2.70	2.10	1.80	1.65	1.50	1.20	1.00	1.25
6.	2.37	2.20	2.60	3.05	2.70	2.05	1.80	1.65	1.50	1.20	0.95	1.28
7.	2.50	2.25	2.60	3.00	2.65	2.05	1.80	1.65	1.45	1.20	0.95	1.30
8.	2.50	2.30	2.55	3.00	2.65	2.05	1.80	1.60	1.45	1.20	0.95	1.30
9.	2.50	2.30	2.53	3.05	2.60	2.05	1.80	1.60	1.45	1.20	0.95	1.30
10.	2.45	2.45	2.50	3.10	2.60	2.00	1.80	1.60	1.45	1.20	1.13	1.30
Mean.	2.25	2.28	2.61	3.08	2.68	2.08	1.82	1.64	1.48	1.22	0.99	1.29
11.	2.45	2.50	2.50	3.10	2.60	2.00	1.80	1.60	1.45	1.20	1.25	1.38
12.	2.45	2.50	2.50	3.10	2.55	2.00	1.80	1.60	1.40	1.20	1.25	1.40
13.	2.42	2.65	2.55	3.08	2.55	2.00	1.75	1.60	1.40	1.20	1.25	1.42
14.	2.40	2.70	2.60	3.05	2.55	1.95	1.75	1.60	1.40	1.20	1.30	1.50
15.	2.32	2.75	2.70	3.00	2.50	1.95	1.75	1.60	1.40	1.25	1.30	1.50
16.	2.30	2.80	2.70	2.90	2.48	1.95	1.75	1.60	1.40	1.25	1.35	1.50
17.	2.25	2.80	2.75	2.90	2.45	1.95	1.75	1.60	1.40	1.20	1.33	1.50
18.	2.22	2.90	2.75	2.85	2.43	1.95	1.75	1.60	1.40	1.20	1.30	1.50
19.	2.15	2.90	2.80	2.80	2.40	1.95	1.75	1.60	1.40	1.20	1.35	1.55
20.	2.15	2.83	2.80	2.80	2.40	1.93	1.75	1.60	1.40	1.20	1.40	1.63
Mean.	2.31	2.73	2.67	2.96	2.49	1.96	1.76	1.60	1.41	1.21	1.31	1.49
21.	2.10	2.80	2.90	2.80	2.40	1.90	1.70	1.60	1.35	1.20	1.38	1.75
22.	2.10	2.77	2.90	2.80	2.35	1.90	1.70	1.55	1.35	1.20	1.35	1.95
23.	2.05	2.73	3.00	2.80	2.35	1.90	1.70	1.55	1.35	1.20	1.33	2.07
24.	2.05	2.70	3.10	2.80	2.30	1.90	1.70	1.55	1.35	1.20	1.30	2.15
25.	2.05	2.70	3.10	2.75	2.30	1.90	1.70	1.55	1.35	1.15	1.30	2.23
26.	2.05	2.70	3.10	2.73	2.25	1.90	1.70	1.55	1.30	1.15	1.30	2.35
27.	2.10	2.70	3.10	2.70	2.25	1.85	1.70	1.55	1.30	1.10	1.30	2.65
28.	2.20	2.70	3.10	2.70	2.23	1.85	1.70	1.55	1.30	1.10	1.30	2.75
29.	2.17		3.10	2.70	2.20	1.85	1.70	1.50	1.30	1.08	1.30	2.75
30.	2.20		3.20	2.75	2.20	1.85	1.70	1.50	1.25	1.05	1.35	2.73
31.	2.30		3.20		2.15		1.65	1.50		1.05		2.70
Mean.	2.12	2.73	3.07	2.75	2.27	1.88	1.70	1.54	1.32	1.13	1.32	2.37
Monthly Mean.	2.23	2.57	2.79	2.93	2.47	1.97	1.76	1.59	1.40	1.19	1.11	1.74
Max.	2.50	2.90	3.20	3.20	2.75	2.15	1.85	1.65	1.50	1.25	1.40	2.75
Date.	9	19	31	2	2	1	4	7	6	16	21	30
Min.	1.90	2.20	2.50	2.70	2.15	1.85	1.65	1.50	1.25	1.05	0.90	1.30
Date.	1	6	13	29	31	30	31	31	30	31	9	3



RIVER: NDEMBERA  
 STATION: ILONGO  
 STATION NO: IKA.15  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.58	2.70	2.80	3.10	2.50	2.10	1.80	1.70	1.55	1.30	1.25	1.40
2.	2.50	2.68	2.85	3.10	2.48	2.08	1.80	1.70	1.55	1.30	1.25	1.40
3.	2.45	2.65	2.95	3.10	2.45	2.05	1.80	1.70	1.55	1.30	1.28	1.40
4.	2.40	2.70	3.05	3.10	2.42	2.05	1.80	1.65	1.52	1.30	1.30	1.40
5.	2.40	2.70	3.08	3.08	2.40	2.02	1.80	1.65	1.50	1.30	1.30	1.50
6.	2.53	2.70	3.03	3.05	2.43	2.00	1.80	1.65	1.50	1.30	1.30	1.57
7.	2.50	2.70	2.98	3.02	2.47	2.00	1.80	1.65	1.50	1.30	1.30	1.68
8.	2.50	2.80	2.93	3.00	2.58	2.00	1.80	1.65	1.50	1.35	1.35	1.72
9.	2.50	2.80	2.90	3.05	2.60	1.95	1.80	1.60	1.50	1.35	1.38	1.80
10.	2.50	2.80	2.90	3.10	2.52	1.95	1.80	1.60	1.50	1.40	1.35	1.92
Mean.	2.49	2.72	2.95	3.07	2.49	2.02	1.80	1.66	1.52	1.32	1.31	1.58
11.	2.43	2.90	2.90	3.08	2.50	1.95	1.80	1.60	1.48	1.40	1.35	2.23
12.	2.40	2.93	2.90	3.02	2.48	1.90	1.80	1.60	1.45	1.40	1.33	2.30
13.	2.35	2.90	2.90	3.00	2.45	1.90	1.80	1.60	1.45	1.40	1.30	2.30
14.	2.40	2.88	2.90	2.98	2.42	1.90	1.80	1.60	1.43	1.40	1.30	2.30
15.	2.58	2.80	2.85	2.93	2.40	1.90	1.78	1.60	1.40	1.35	1.30	2.30
16.	2.73	2.80	2.83	2.90	2.33	1.90	1.75	1.60	1.40	1.30	1.30	2.25
17.	2.75	2.78	2.80	2.90	2.30	1.90	1.75	1.60	1.40	1.30	1.30	2.30
18.	2.80	2.75	2.80	2.85	2.30	1.90	1.75	1.60	1.40	1.30	1.30	2.30
19.	2.80	2.73	2.80	2.85	2.30	1.85	1.75	1.60	1.40	1.30	1.25	2.35
20.	2.83	2.70	2.80	2.80	2.30	1.85	1.70	1.60	1.40	1.30	1.25	2.35
Mean.	2.61	2.82	2.85	2.93	2.38	1.90	1.77	1.60	1.42	1.35	1.30	2.29
21.	2.80	2.75	2.80	2.77	2.30	1.85	1.70	1.60	1.35	1.30	1.25	2.40
22.	2.80	2.73	2.80	2.75	2.30	1.83	1.70	1.60	1.35	1.30	1.20	2.40
23.	2.80	2.70	2.80	2.73	2.30	1.80	1.70	1.60	1.35	1.30	1.20	2.40
24.	2.80	2.70	2.85	2.70	2.25	1.80	1.70	1.60	1.35	1.30	1.20	2.40
25.	2.75	2.70	2.85	2.68	2.23	1.80	1.70	1.60	1.35	1.30	1.22	2.35
26.	2.75	2.70	2.90	2.60	2.20	1.80	1.70	1.60	1.35	1.30	1.30	2.35
27.	2.75	2.73	2.98	2.60	2.20	1.80	1.70	1.60	1.33	1.30	1.30	2.33
28.	2.75	2.80	3.00	2.58	2.18	1.80	1.70	1.60	1.30	1.25	1.30	2.30
29.	2.73		3.00	2.50	2.15	1.80	1.70	1.60	1.30	1.25	1.30	2.30
30.	2.70		3.08	2.50	2.12	1.80	1.70	1.60	1.30	1.25	1.33	2.30
31.	2.70		3.10		2.10		1.70	1.60		1.25		2.30
Mean.	2.76	2.73	2.92	2.64	2.21	1.81	1.70	1.60	1.33	1.28	1.26	2.35
Monthly Mean.	2.62	2.76	2.91	2.88	2.35	1.91	1.75	1.62	1.42	1.31	1.29	2.08
Max.	2.85	2.95	3.10	3.10	2.60	2.10	1.80	1.70	1.55	1.40	1.40	2.40
Date.	20	12	31	6	9	2	15	3	4	14	9	24
Min.	2.35	2.65	2.80	2.50	2.10	1.80	1.70	1.60	1.30	1.25	1.20	1.40
Date.	14	3	24	30	31	30	31	31	30	31	25	4

RIVER : IURWA (LIOSI)  
 STATION : ICORUSI  
 NO : IKA.16  
 YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.			*2.62	2.23	2.50	1.80	1.50	1.40	1.20	1.20	1.17	1.15
2.			*2.62	2.30	2.50	1.80	1.50	1.40	1.20	1.25	1.25	1.20
3.			2.63	2.40	2.50	1.80	1.50	1.40	1.20	1.20	1.22	1.15
4.			2.56	2.60	2.50	1.80	1.50	1.40	1.20	1.15	1.22	1.15
5.			2.50	2.63	2.46	1.80	1.50	1.40	1.20	1.15	1.22	1.55
6.			2.53	2.60	2.43	1.80	1.50	1.40	1.20	1.15	1.10	1.47
7.			2.46	2.60	2.40	1.70	1.50	1.40	1.20	1.15	1.10	1.10
8.			2.43	2.60	2.37	1.70	1.50	1.40	1.20	1.15	1.15	1.10
9.			2.40	2.56	2.30	1.70	1.50	1.40	1.20	1.15	1.20	1.20
10.			2.40	2.50	2.30	1.70	1.50	1.35	1.20	1.15	1.10	1.17
Mean			2.52	2.50	2.43	1.76	1.50	1.40	1.20	1.17	1.17	1.22
11.			2.40	2.50	2.30	1.65	1.50	1.30	1.20	1.15	1.15	1.17
12.			2.40	2.50	2.30	1.60	1.50	1.30	1.20	1.15	1.10	1.10
13.			2.30	2.50	2.23	1.63	1.50	1.30	1.20	1.15	1.20	1.15
14.			2.30	2.50	2.23	1.60	1.50	1.30	1.20	1.15	1.20	1.12
15.			2.30	2.50	2.20	1.60	1.43	1.30	1.32	1.15	1.12	1.22
16.			2.46	2.43	2.20	1.60	1.40	1.30	1.32	1.15	1.07	1.10
17.			2.26	2.50	2.20	1.60	1.40	1.30	1.32	1.15	1.05	1.15
18.			2.20	2.40	2.20	1.60	1.40	1.30	1.20	1.12	1.07	1.17
19.			2.30	2.46	2.10	1.60	1.40	1.30	1.20	1.12	1.05	1.10
20.			2.30	2.50	2.10	1.60	1.40	1.30	1.20	1.12	1.10	1.10
Mean			2.32	2.48	2.21	1.61	1.44	1.30	1.24	1.14	1.11	1.13
21.			2.26	2.70	2.10	1.60	1.40	1.30	1.25	1.12	1.12	1.27
22.			2.23	2.63	2.10	1.60	1.40	1.30	1.20	1.12	1.10	1.22
23.			2.23	2.70	2.10	1.60	1.40	1.30	1.25	1.15	1.10	1.17
24.			2.27	2.40	2.10	1.60	1.40	1.30	1.20	1.12	1.07	1.20
25.			2.20	2.60	2.00	1.60	1.40	1.30	1.25	1.12	1.05	1.22
26.			2.20	2.60	2.00	1.50	1.40	1.30	1.30	1.12	1.10	1.17
27.			2.26	2.60	1.93	1.50	1.40	1.30	1.27	1.12	1.10	1.15
28.			2.20	2.60	1.90	1.50	1.40	1.30	1.28	1.12	1.20	1.22
29.			2.30	2.60	1.90	1.50	1.40	1.30	1.27	1.15	1.17	1.25
30.			2.20	2.60	1.90	1.50	1.40	1.30	1.15	1.20	1.17	1.35
31.			2.20		1.80		1.40	1.30		1.20		1.27
Mean			2.23	2.60	1.98	1.55	1.40	1.30	1.24	1.14	1.12	1.23
Monthly Mean			2.36	2.53	2.20	1.64	1.45	1.33	1.23	1.15	1.13	1.19
Max.			2.70	2.80	2.50	1.80	1.50	1.40	1.32	1.25	1.25	1.47
Date			4	6	1-6	2-7	1-15	1-9	15-17	2	2	6
Min.			2.20	2.20	1.90	1.50	1.40	1.30	1.15	1.12	1.05	1.10
Date			17-18 21-31	1-2	27-30	26-30	16-31	11-31	30	18-22 24-28	17, 19, 25.	7-8 12, 16, 19 & 20

RIVER: LUNWA (LIOSI)  
STATION: IGORUSI  
STATION NO: IKA.16  
YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.25	3.00	2.55	2.75	2.64	1.82	1.57	1.30	1.30	1.10	1.12	1.12
2.	1.38	2.65	2.55	2.73	2.59	1.80	1.58	1.30	1.38	1.09	1.13	1.13
3.	1.23	2.85	3.50	2.73	2.55	1.80	1.57	1.30	1.33	1.10	1.12	1.12
4.	1.38	3.03	2.53	2.73	2.46	1.77	1.58	1.30	1.30	1.10	1.13	1.20
5.	1.38	3.20	2.53	2.73	2.48	1.78	1.55	1.30	1.25	1.10	1.11	1.28
6.	1.30	3.20	2.48	2.68	2.44	1.75	1.52	1.30	1.20	1.10	1.13	1.23
7.	1.28	3.30	2.48	2.68	2.40	1.75	1.53	1.30	1.12	1.12	1.12	1.22
8.	1.33	3.05	2.35	2.88	2.40	1.72	1.52	1.30	1.13	1.13	1.13	1.23
9.	1.38	3.03	2.33	2.88	2.38	1.73	1.50	1.30	1.12	1.12	1.12	1.22
10.	2.10	2.88	2.28	2.85	2.35	1.70	1.50	1.30	1.13	1.13	1.13	1.25
Mean.	1.40	3.02	2.56	2.76	2.47	1.76	1.54	1.30	1.23	1.11	1.12	1.20
11.	2.08	2.78	2.28	2.83	2.32	1.70	1.48	1.20	1.12	1.12	1.12	1.15
12.	2.05	2.68	2.28	2.83	2.25	1.67	1.47	1.30	1.13	1.13	1.13	1.15
13.	2.00	2.65	2.25	3.12	2.24	1.68	1.45	1.30	1.11	1.12	1.12	1.15
14.	1.98	2.90	2.23	3.25	2.23	1.65	1.45	1.28	1.15	1.13	1.15	1.15
15.	1.98	2.80	2.23	3.10	2.16	1.65	1.45	1.27	1.12	1.12	1.15	1.60
16.	1.95	2.85	2.23	3.00	2.15	1.62	1.45	1.25	1.10	1.13	1.12	1.33
17.	1.80	2.78	2.23	(4.78)	2.13	1.63	1.42	1.25	1.10	1.12	1.13	1.32
18.	1.80	2.75	2.20	(3.23)	2.10	1.62	1.40	1.25	1.10	1.13	1.12	1.33
19.	1.80	2.73	2.18	3.85	2.10	1.60	1.40	1.25	1.15	1.12	1.13	1.32
20.	1.78	3.05	2.18	3.65	2.10	1.60	1.40	1.25	1.13	1.13	1.10	1.33
Mean.	1.92	2.80	2.23	3.37	2.18	1.64	1.44	1.26	1.12	1.13	1.13	1.28
21.	1.78	2.93	2.18	4.05	2.08	1.60	1.40	1.25	1.10	1.12	1.20	1.32
22.	1.83	3.20	2.20	3.84	2.08	1.57	1.40	1.18	1.10	1.13	1.18	1.35
23.	1.85	3.16	2.18	3.61	2.08	1.58	1.38	1.17	1.10	1.12	1.15	1.35
24.	2.38	3.08	2.15	3.37	2.05	1.57	1.37	1.15	1.10	1.13	1.15	1.33
25.	2.28	2.88	2.15	3.18	2.05	1.55	1.38	1.15	1.10	1.12	1.12	1.32
26.	2.30	2.75	2.38	3.05	2.03	1.55	1.37	1.13	1.10	1.15	1.13	1.48
27.	2.25	2.63	2.38	2.96	2.03	1.55	1.35	1.12	1.10	1.20	1.12	1.47
28.	2.23	2.59	2.40	2.91	1.98	1.52	1.35	1.13	1.10	1.15	1.13	1.30
29.	2.25		2.38	2.82	1.98	1.53	1.32	1.12	1.12	1.15	1.20	1.30
30.	2.30		2.50	2.70	1.95	1.60	1.30	1.30	1.10	1.15	1.15	1.40
31.	2.30		2.75		1.98		1.30	1.30		1.15		1.38
Mean.	2.16	2.90	2.33	3.25	2.03	1.56	1.36	1.18	1.10	1.14	1.15	1.36
Monthly Mean.	1.84	2.91	2.37	3.13	2.22	1.66	1.44	1.25	1.15	1.13	1.13	1.28
Max.	2.38	3.30	3.50	4.78	2.68	1.82	1.58	1.30	1.38	1.20	1.20	1.60
Date.	24	7	3	17	1	1	4	10	2	27	29	15
Min.	1.25	2.58	2.15	2.68	1.95	1.52	1.30	1.12	1.10	1.08	1.10	1.12
Date.	1	28	25	7	30	29	31	29	30	2	20	3

RIVER: LUNWA  
STATION: IGORUSI  
STATION NO: IKA.16  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July,	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.55	1.48	2.05	2.90	2.25	1.85	1.45	1.40	1.20			
2.	1.68	1.45	2.00	2.90	2.25	1.83	1.45	1.40	1.18			
3.	1.72	1.43	2.00	2.85	2.22	1.80	1.43	1.40	1.18			
4.	1.78	1.40	1.98	2.72	2.22	1.77	1.42	1.30	1.18			
5.	1.75	1.48	1.95	2.68	2.22	1.75	1.40	1.30	1.30			
6.	1.75	1.47	1.92	2.65	2.22	1.73	1.40	1.30	1.30			
7.	1.82	1.73	2.25	2.65	2.18	1.70	1.40	1.30	1.30			
8.	1.63	1.68	2.30	2.62	2.15	1.68	1.40	1.30	1.18			
9.	1.60	1.65	2.35	2.55	2.13	1.65	1.40	1.30	1.13			
10.	1.58	1.65	2.42	2.55	2.13	1.63	1.40	1.30	1.13			
<b>Mean.</b>	1.69	1.54	2.12	2.71	2.20	1.74	1.42	1.33	1.21			
11.	1.57	1.65	2.43	2.52	2.10	1.62	1.40	1.30	1.15			
12.	1.55	1.67	2.42	2.50	2.10	1.60	1.40	1.30	1.15			
13.	1.55	1.75	2.40	2.48	2.08	1.60	1.40	1.28	1.18			
14.	1.47	1.78	2.40	2.42	2.05	1.55	1.40	1.28	1.20			
15.	1.43	2.42	2.38	2.38	2.03	1.53	1.40	1.27	1.20			
16.	1.40	2.30	2.45	2.35	2.00	1.50	1.38	1.27	1.20			
17.	1.38	2.18	2.50	2.35	1.98	1.50	1.38	1.25	1.20			
18.	1.38	2.15	2.58	2.32	1.95	1.47	1.38	1.25	1.20			
19.	1.37	2.13	2.60	2.30	1.92	1.45	1.37	1.25	1.20			
20.	1.35	2.08	2.85	2.28	2.07	1.50	1.37	1.25	1.20			
<b>Mean.</b>	1.45	2.01	2.50	2.39	2.03	1.53	1.39	1.27	1.19			
21.	1.33	2.15	2.77	2.28	2.05	1.50	1.37	1.25	1.20			
22.	1.32	2.43	2.70	2.25	2.05	1.48	1.35	1.23	1.18			
23.	1.33	2.42	2.65	2.25	1.98	1.47	1.35	1.23	1.15			
24.	1.35	2.28	2.65	2.22	1.95	1.45	1.37	1.23	1.13			
25.	1.58	2.25	2.78	2.20	1.92	1.45	1.38	1.23	1.10			
26.	1.62	2.18	2.77	2.18	1.92	1.45	1.40	1.23	1.10			
27.	1.63	2.10	2.85	2.18	1.92	1.45	1.40	1.22	1.10			
28.	1.54	2.08	2.90	2.18	1.90	1.45	1.40	1.22	1.10			
29.	1.50		3.00	2.17	1.90	1.45	1.40	1.22	1.10			
30.	1.48		3.00	2.17	1.88	1.45	1.40	1.22	1.10			
31.	1.47		2.90		1.88		1.40	1.20				
<b>Mean.</b>	1.47	2.23	2.82	2.21	1.94	1.46	1.38	1.23	1.13			
<b>Monthly</b>												
<b>Mean.</b>	1.53	1.91	2.49	2.47	2.05	1.58	1.40	1.27	1.17			
<b>Max.</b>	1.83	2.43	3.00	2.90	2.25	1.85	1.45	1.40	1.30			
<b>Date.</b>	7	23	30	2	2	1	2	3	7			
<b>Min.</b>	1.33	1.40	1.93	2.18	1.88	1.45	1.35	1.20	1.10			
<b>Date.</b>	23	4	6	30	31	30	23	31	30			

RIVER : MAMBI  
STATION : KAJANZI  
NO : IKA.17  
YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.				1.70	1.93	1.60	1.47	1.35	1.30	1.22	1.30	1.35
2.				1.97	1.90	1.57	1.48	1.35	1.30	1.22	1.30	1.24
3.				1.93	1.90	1.58	1.47	1.35	1.30	1.22	1.38	1.23
4.				1.90	1.90	1.57	1.45	1.35	1.30	1.22	1.34	1.25
5.				2.00	1.90	1.55	1.45	1.35	1.30	1.22	1.34	1.27
6.				1.90	1.83	1.55	1.45	1.35	1.30	1.22	1.30	1.42
7.				1.90	1.80	1.52	1.45	1.35	1.30	1.22	1.36	1.31
8.				1.90	1.80	1.53	1.45	1.35	1.27	1.22	1.30	1.31
9.				1.90	1.80	1.52	1.42	1.32	1.28	1.20	1.30	1.27
10.				1.90	1.80	1.50	1.43	1.33	1.27	1.20	1.31	1.26
Mean				1.90	1.86	1.55	1.45	1.35	1.29	1.22	1.32	1.29
11.				1.93	1.80	1.50	1.42	1.32	1.28	1.20	1.25	1.25
12.				1.90	1.80	1.50	1.43	1.33	1.27	1.20	1.25	1.25
13.				1.90	1.80	1.50	1.42	1.32	1.28	1.20	1.23	1.25
14.			1.80	1.90	1.70	1.50	1.42	1.33	1.27	1.20	1.22	1.27
15.			1.77	1.90	1.70	1.47	1.43	1.32	1.28	1.20	1.22	1.33
16.			1.70	1.83	1.70	1.48	1.43	1.33	1.27	1.20	1.33	1.35
17.			1.80	1.80	1.70	1.47	1.42	1.32	1.28	1.20	1.24	1.28
18.			1.73	1.80	1.70	1.48	1.40	1.33	1.27	1.20	1.22	1.22
19.			1.70	2.20	1.70	1.47	1.40	1.32	1.28	1.20	1.22	1.22
20.			1.80	1.80	1.70	1.52	1.40	1.33	1.25	1.20	1.22	1.27
Mean			(1.76)	1.90	1.73	1.49	1.42	1.33	1.27	1.20	1.24	1.27
21.			1.80	1.80	1.70	1.53	1.40	1.32	1.25	1.20	1.22	1.27
22.			1.73	1.83	1.60	1.50	1.37	1.33	1.25	1.20	1.22	1.43
23.			1.70	2.03	1.60	1.50	1.38	1.30	1.25	1.20	1.20	1.29
24.			1.70	2.00	1.60	1.50	1.37	1.30	1.25	1.17	1.20	1.30
25.			1.70	2.00	1.60	1.50	1.38	1.30	1.25	1.17	1.20	1.27
26.			1.73	2.00	1.60	1.50	1.37	1.30	1.25	1.17	1.20	1.25
27.			1.70	2.00	1.60	1.50	1.38	1.30	1.25	1.17	1.20	1.29
28.			1.70	1.93	1.60	1.50	1.37	1.30	1.25	1.22	1.45	1.30
29.			1.70	2.00	1.60	1.50	1.35	1.30	1.25	1.22	1.20	1.30
30.			1.70	2.00	1.60	1.47	1.35	1.30	1.22	1.22	1.20	1.43
31.			1.83		1.60		1.35	1.30		1.22		1.35
Mean			1.73	1.96	1.61	1.50	1.37	1.30	1.25	1.19	1.23	1.31
Monthly Mean			(1.74)	1.92	1.73	1.51	1.41	1.32	1.27	1.20	1.26	1.29
Max.				2.60	2.00	1.60	1.48	1.35	1.30	1.23	1.80	1.55
Date				19	1	1	1-3	1-8	1-7	1-8	28	30
Min.				1.70	1.60	1.48	1.35	1.30	1.23	1.18	1.20	1.23
Date				1	22-31	15-19	29-31	23-31	30	24-27	23-30	2-3 18-19

RIVER: NABBI  
STATION: KAKAMEI  
STATION NO: IKA.17  
YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.45	4.38	2.13	2.25	2.67	2.00	1.80	1.75	1.73	1.68	1.63	1.58
2.	1.39	2.96	2.07	2.32	2.55	1.98	1.80	1.75	1.73	1.68	1.63	1.60
3.	1.38	2.35	2.03	2.24	2.50	1.96	1.80	1.75	1.73	1.68	1.63	1.60
4.	1.39	2.35	2.04	2.20	2.48	1.95	1.77	1.72	1.73	1.65	1.60	1.60
5.	1.38	2.66	2.03	2.25	2.47	1.92	1.78	1.73	1.73	1.65	1.60	1.68
6.	1.68	2.55	2.03	2.25	2.40	1.93	1.77	1.72	1.73	1.65	1.63	1.60
7.	1.49	2.62	2.01	2.38	2.40	1.93	1.78	1.73	1.73	1.65	1.63	1.60
8.	1.45	2.56	1.98	2.35	2.38	1.93	1.77	1.70	1.70	1.65	1.63	1.60
9.	1.88	2.43	1.96	2.35	2.38	1.90	1.78	1.70	1.70	1.65	1.63	1.60
10.	1.69	2.38	1.93	2.26	2.35	1.90	1.75	1.75	1.70	1.65	1.63	1.60
Mean.	1.52	2.73	2.02	2.29	2.46	1.75	1.78	1.73	1.72	1.67	1.62	1.61
11.	1.65	2.30	1.93	2.28	2.33	1.90	1.75	1.70	1.70	1.65	1.63	1.60
12.	1.60	2.26	2.07	2.26	2.30	1.89	1.75	1.72	1.70	1.65	1.63	1.60
13.	1.60	2.20	1.90	2.53	2.30	1.88	1.75	1.73	1.70	1.65	1.63	1.60
14.	1.64	2.40	1.90	2.58	2.28	1.88	1.75	1.72	1.70	1.63	1.63	1.65
15.	1.57	2.40	1.90	2.46	2.25	1.88	1.75	1.73	1.70	1.63	1.63	1.71
16.	1.55	2.50	1.92	2.48	2.23	1.85	1.75	1.72	1.70	1.63	1.60	1.73
17.	1.53	2.29	1.93	4.90	2.23	1.85	1.75	1.73	1.70	1.63	1.60	1.68
18.	1.53	2.28	1.89	3.29	2.20	1.85	1.72	1.72	1.70	1.63	1.60	1.63
19.	1.55	2.33	1.88	4.04	2.18	1.85	1.73	1.73	1.70	1.63	1.60	1.70
20.	1.54	3.45	2.14	3.71	2.15	1.84	1.72	1.72	1.70	1.63	1.58	1.75
Mean.	1.58	2.44	1.95	3.05	2.25	1.87	1.74	1.72	1.70	1.64	1.61	1.67
21.	1.52	2.50	2.06	6.71	2.14	1.83	1.73	1.73	1.70	1.63	1.58	1.68
22.	1.79	2.50	1.98	3.43	2.13	1.83	1.72	1.72	1.70	1.63	1.58	1.88
23.	1.70	2.47	1.95	3.30	2.12	1.83	1.73	1.73	1.68	1.63	1.58	1.80
24.	1.99	2.39	1.91	3.20	2.20	1.82	1.72	1.72	1.68	1.63	1.58	1.73
25.	1.95	2.33	1.93	3.16	2.09	1.80	1.70	1.75	1.70	1.63	1.58	1.60
26.	1.90	2.29	1.89	3.03	2.08	1.80	1.70	1.75	1.68	1.63	1.58	1.60
27.	1.88	2.24	1.88	2.98	2.05	1.80	1.70	1.72	1.68	1.63	1.58	1.58
28.	2.13	2.19	1.87	2.90	2.03	1.80	1.70	1.73	1.68	1.03	1.58	1.55
29.	2.62		1.92	2.73	2.00	1.80	1.70	1.72	1.68	1.63	1.58	1.58
30.	2.12		1.90	2.70	2.00	1.80	1.70	1.75	1.68	1.63	1.58	1.58
31.	4.44		2.14		2.00		1.70	1.72		1.63		1.75
Mean.	2.19	2.36	1.95	3.41	2.28	1.81	1.71	1.73	1.69	1.63	1.58	1.67
Monthly Mean.	1.77	2.52	1.97	2.92	2.25	1.81	1.74	1.73	1.70	1.64	1.61	1.65
Max.	4.50	4.40	2.28	7.50	2.68	2.00	1.80	1.75	1.73	1.68	1.63	1.88
Date.	31	1	30	17	1	1	3	3	7	3	3	22
Min.	1.37	2.18	1.85	2.20	2.00	1.80	1.70	1.70	1.68	1.63	1.58	1.55
Date.	3	28	28	4	31	30	31	11	30	31	30	28

RIVER: MAMBI  
STATION: KALANZI  
STATION NO: IKA.17  
YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.64	1.61	1.98	2.88	2.40	1.88	1.70	1.67	1.62			
2.	1.66	1.61	1.95	2.85	2.40	1.88	1.70	1.67	1.60			
3.	1.60	1.59	1.93	2.73	2.40	1.85	1.70	1.67	1.60			
4.	1.81	1.64	1.90	2.68	2.38	1.85	1.70	1.67	1.60			
5.	2.52	1.61	1.90	2.75	2.38	1.85	1.70	1.67	1.60			
6.	1.94	1.61	1.88	2.75	2.35	1.83	1.70	1.67	1.60			
7.	1.94	1.56	2.03	2.73	2.33	1.83	1.70	1.67	1.60			
8.	1.80	1.61	2.25	2.70	2.30	1.83	1.70	1.67	1.60			
9.	1.75	1.76	2.18	2.65	2.28	1.83	1.70	1.67	1.60			
10.	1.73	1.74	2.15	2.65	2.25	1.83	1.70	1.67	1.60			
Mean.	1.84	1.63	2.02	2.74	2.35	1.85	1.70	1.67	1.60			
11.	1.71	1.70	2.23	2.60	2.23	1.80	1.70	1.67	1.60			
12.	1.69	1.70	2.30	2.50	2.20	1.80	1.70	1.67	1.60			
13.	1.67	1.83	2.18	2.48	2.18	1.80	1.70	1.67	1.60			
14.	1.65	1.85	2.15	2.40	2.15	1.80	1.68	1.67	1.60			
15.	1.65	2.20	2.13	2.38	2.13	1.80	1.67	1.67	1.60			
16.	1.62	2.10	2.13	2.35	2.10	1.78	1.67	1.64	1.60			
17.	1.61	2.00	2.38	2.33	2.10	1.78	1.67	1.64	1.60			
18.	1.57	2.00	2.70	2.30	2.08	1.75	1.67	1.64	1.60			
19.	1.57	2.00	3.00	2.25	2.05	1.75	1.64	1.64	1.60			
20.	1.56	1.98	2.95	2.23	2.03	1.75	1.64	1.62	1.60			
Mean.	1.63	1.94	2.41	2.38	2.13	1.78	1.67	1.65	1.60			
21.	1.74	1.95	2.88	2.20	2.00	1.75	1.64	1.62	1.58			
22.	1.58	2.15	2.85	2.18	2.00	1.75	1.64	1.62	1.58			
23.	1.58	2.10	2.85	2.20	2.00	1.75	1.64	1.62	1.55			
24.	1.62	2.03	2.83	2.20	1.98	1.73	1.64	1.62	1.60			
25.	1.63	2.00	2.75	2.30	1.95	1.73	1.64	1.62	1.58			
26.	1.92	2.08	2.78	2.45	1.93	1.73	1.64	1.62	1.58			
27.	1.81	2.05	2.83	2.43	1.93	1.73	1.64	1.62	1.58			
28.	1.71	2.03	2.85	2.43	1.93	1.73	1.67	1.62	1.58			
29.	1.66		2.85	2.40	1.93	1.73	1.67	1.62	1.55			
30.	1.66		2.90	2.40	1.90	1.73	1.67	1.62	1.55			
31.	1.64		2.85		1.90		1.67	1.62				
Mean.	1.69	2.05	2.84	2.32	1.95	1.74	1.65	1.62	1.57			
Monthly Mean.	1.72	1.86	2.43	2.48	2.13	1.79	1.67	1.65	1.59			
Max.	2.52	2.20	3.00	2.88	2.40	1.88	1.70	1.67	1.62			
Date.	5	15	19	1	3	2	13	15	1			
Min.	1.56	1.56	1.88	2.18	1.90	1.73	1.64	1.62	1.55			
Date.	20	7	6	22	31	30	27	31	30			

RIVER : MOWEEI  
 STATION : GREAT NORTH ROAD  
 NO : IKA.18  
 YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.				4.20	5.00	4.25	3.92	3.75	3.62	3.55	3.47	3.49
2.				4.77	5.00	4.25	3.93	3.75	3.60	3.52	3.45	3.48
3.				5.17	4.90	4.25	3.90	3.75	3.60	3.52	3.45	3.55
4.				4.90	4.90	4.20	3.90	3.73	3.60	3.52	3.47	3.55
5.				4.90	4.90	4.17	3.90	3.72	3.60	3.52	3.70	3.55
6.				4.90	4.80	4.15	3.90	3.72	3.60	3.52	3.60	3.65
7.				4.83	4.80	4.15	3.90	3.72	3.60	3.52	3.60	3.55
8.				4.80	4.80	4.15	3.90	3.70	3.60	3.52	3.60	3.55
9.				4.80	4.70	4.12	3.87	3.70	3.60	3.50	3.57	3.52
10.				4.80	4.70	4.10	3.88	3.70	3.60	3.50	3.55	3.45
Mean				4.81	4.85	4.18	3.90	3.72	3.60	3.52	3.55	3.53
11.				4.83	4.63	4.10	3.85	3.70	3.60	3.50	3.47	3.45
12.				4.76	4.60	4.10	3.85	3.70	3.60	3.50	3.47	3.45
13.				4.70	4.60	4.07	3.85	3.70	3.57	3.50	3.45	3.45
14.			4.50	4.70	4.50	4.08	3.85	3.70	3.58	3.50	3.45	3.42
15.			4.50	4.70	4.50	4.05	3.85	3.70	3.57	3.50	3.42	3.53
16.			4.43	4.70	4.50	4.05	3.85	3.70	3.58	3.50	3.42	3.55
17.			4.40	4.63	4.50	4.02	3.85	3.67	3.57	3.50	3.42	3.52
18.			4.43	4.70	4.40	4.03	3.82	3.68	3.58	3.50	3.42	3.52
19.			4.40	4.70	4.40	4.00	3.83	3.67	3.56	3.50	3.42	3.52
20.			4.40	4.80	4.40	4.00	3.82	2.68	3.55	3.50	3.42	3.49
Mean			4.44	4.72	4.50	4.05	3.84	3.60	3.58	3.50	3.44	3.49
21.			4.40	4.80	4.40	3.97	3.82	3.67	3.55	3.50	3.42	3.46
22.			4.30	4.80	4.40	3.98	3.82	3.65	3.55	3.50	3.42	3.52
23.			4.30	5.00	4.30	3.97	3.82	3.65	3.55	3.50	3.42	3.48
24.			4.30	4.80	4.30	3.96	3.80	3.65	3.55	3.50	3.42	3.47
25.			4.30	4.80	4.30	3.95	3.80	3.65	3.55	3.40	3.42	3.47
26.			4.30	4.80	4.30	3.95	3.80	3.65	3.55	3.47	3.42	3.47
27.			4.20	4.86	4.23	3.92	3.80	3.62	3.55	3.47	3.40	3.58
28.			4.20	4.90	4.23	3.93	3.80	3.63	3.55	3.47	3.46	3.50
29.			4.20	4.90	4.20	3.92	3.80	3.62	3.55	3.47	3.45	3.50
30.			4.20	5.00	4.25	3.93	3.77	3.63	3.55	3.47	3.45	3.57
31.			4.43		4.25		3.78	3.62		3.47		3.55
Mean			4.28	4.87	4.29	3.95	3.80	3.64	3.55	3.48	3.43	3.70
Monthly Mean			4.34	4.80	4.57	4.06	3.85	3.68	3.58	3.50	3.47	3.51
Max.				5.80	5.00	4.25	3.93	3.75	3.63	3.55	3.70	3.80
Date				3	1-2	1-3	1-2	1-4	1	1	5	6
Min.				4.20	4.20	3.92	3.77	3.62	3.55	3.47	3.40	3.42
Date				1	27-30	27-30	30-31	28-31	19-30	25-31	27	14



RIVER: MSWISWI  
 STATION: KALANZI  
 STATION NO: IKA.18  
 YEAR: 1957

Water level on D/S Gauge (corrected)

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.60	4.96	4.30	4.28		1.60	1.10	0.80	0.60	0.90	1.00	0.95
2.	3.59	4.95	4.28	4.46		1.60	1.10	0.80	0.60	1.08	1.00	0.93
3.	3.57	4.97	4.35	4.70		1.58	1.08	0.80	0.60	1.08	1.00	0.93
4.	3.57	4.95	4.51	4.67		1.55	1.08	0.78	0.60	1.05	0.98	0.92
5.	3.55	5.15	4.47	4.77		1.53	1.05	0.78	0.60	1.05	0.98	1.12
6.	3.61	5.10	4.39	4.76		1.50	1.05	0.78	0.56	1.05	0.97	1.08
7.	3.61	5.10	4.35	5.69		1.50	1.03	0.75	0.57	1.05	1.08	1.00
8.	3.90	5.10	4.35	4.97		1.48	1.03	0.75	0.58	1.05	1.07	1.00
9.	4.23	5.10	4.35	4.85		1.45	1.00	0.75	0.57	1.03	1.05	1.00
10.	3.95	5.06	4.32	4.84		1.43	(0.95)	0.75	0.58	1.03	1.05	0.92
Mean.	3.72	5.04	4.37	4.80		1.52	1.05	0.77	0.59	1.04	1.02	0.99
11.	3.89	4.95	4.33	4.82		1.40		0.75	0.57	1.03	1.05	0.92
12.	3.80	4.92	4.41	4.84		1.40		0.75	0.58	1.03	1.05	0.92
13.	3.80	4.90	4.35			1.38		0.73	0.57	1.02	1.03	0.93
14.	3.77	4.95	4.27			1.38		0.70	0.58	1.02	1.03	0.93
15.	4.02	4.92	4.25			1.35		0.70	0.57	1.02	1.02	0.98
16.	3.87	4.93	4.55			1.35		0.68	0.58	1.02	1.02	1.35
17.	3.73	4.89	4.04			1.33		0.68	0.90	1.00	1.00	1.20
18.	3.73	4.86	4.10			1.93		0.65	0.90	1.00	1.00	1.90
19.	3.80	4.97	4.10			1.89		0.65	0.90	1.00	1.00	1.85
20.	3.81	6.45	4.07			1.86		0.65	0.90	1.00	1.00	1.40
Mean.	3.82	5.07	4.25			1.34		0.69	0.71	1.01	1.02	1.24
21.	3.89		4.17			1.83		0.65	0.90	1.00	0.98	1.30
22.	4.20		4.17			1.82		0.65	0.90	1.03	0.98	1.30
23.	4.00		4.15			1.80		0.65	0.90	1.00	0.98	1.30
24.	4.43		4.13			1.76		0.63	0.90	1.00	0.97	2.10
25.	4.35		4.12			1.74		0.63	0.90	1.00	0.97	1.15
26.	4.25		4.09			1.72		0.63	0.90	1.00	0.97	1.20
27.	4.21		4.07			1.70		0.63	0.90	1.00	0.95	1.15
28.	4.22		4.05			1.67		0.63	0.90	1.00	0.95	1.50
29.	4.31		4.09			1.65		0.63	0.90	1.00	0.95	1.50
30.	4.34		4.25			1.62		0.60	0.90	1.00	0.95	1.77
31.	4.60		4.25			1.60		0.60		1.00		1.50
Mean.	4.25		4.14			1.72		0.69	0.90	1.00	0.97	1.43
Monthly Mean.	3.94		4.24			1.35		0.70	0.71	1.02	1.00	1.23
Max.	4.60	9.85	4.83			1.60	1.10	0.80	0.90	1.08	1.08	2.10
Date.	31	20	4			2	2	3	30	3	8	24
Min.	3.55		3.80			1.60	1.13	0.60	0.57	0.90	0.95	0.92
Date.	5		17			31	30	31	16	1	30	14

Gauge lowered 0.6 on 17th May, 1.0 on 31st July; water levels prior to these dates have been corrected.

RIVER: MSWISWI  
 STATION: KIKANZI  
 STATION NO: IKA.18  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.25	1.35	2.20	4.68	4.38	2.45	1.60	1.33	1.17			
2.	1.25	1.30	2.20	4.62	4.37	2.43	1.58	1.33	1.17			
3.	1.18	1.25	2.20	4.62	4.35	2.40	1.58	1.32	1.15			
4.	1.15	1.40	2.05	4.58	4.28	2.40	1.55	1.30	1.15			
5.	1.15	1.28	2.05	4.55	4.25	2.28	1.55	1.30	1.15			
6.	1.55	1.25	2.00	4.55	4.25	2.28	1.53	1.30	1.13			
7.	1.68	1.33	2.43	4.53	4.23	2.25	1.53	1.30	1.13			
8.	1.65	1.25	2.87	4.52	4.20	2.22	1.53	1.28	1.13			
9.	1.23	1.28	2.83	4.50	4.10	2.20	1.52	1.28	1.13			
10.	1.22	1.25	2.82	4.45	4.00	2.00	1.52	1.27	1.13			
<b>Mean.</b>	1.33	1.29	2.37	4.56	4.24	2.29	1.55	1.30	1.14			
11.	1.18	1.35	2.85	4.00	3.90	2.00	1.52	1.27	1.12			
12.	1.17	1.33	2.83	3.95	3.40	1.98	1.52	1.25	1.12			
13.	1.15	1.67	2.82	3.95	3.40	1.97	1.50	1.25	1.12			
14.	1.15	1.75	2.58	3.70	3.28	1.95	1.50	1.25	1.12			
15.	1.13	2.38	2.55	3.55	3.25	1.90	1.50	1.25	1.12			
16.	1.13	1.95	2.55	3.28	3.20	1.90	1.50	1.25	1.10			
17.	1.10	1.93	2.88	3.22	3.20	1.85	1.50	1.25	1.10			
18.	1.10	1.93	3.80	3.20	2.98	1.83	1.50	1.25	1.10			
19.	1.08	1.92	4.00	3.18	2.95	1.78	1.48	1.23	1.10			
20.	1.07	1.92	3.00	3.00	2.92	1.75	1.48	1.22	1.10			
<b>Mean.</b>	1.13	1.81	2.99	3.50	3.25	1.89	1.50	1.25	1.11			
21.	1.25	1.90	2.98	2.98	2.92	1.72	1.47	1.22	1.10			
22.	1.10	2.38	4.00	2.95	2.78	1.70	1.45	1.20	1.10			
23.	1.10	2.35	3.93	3.20	2.75	1.70	1.45	1.20	1.15			
24.	1.25	2.28	3.93	3.20	2.73	1.70	1.45	1.20	1.20			
25.	1.25	2.25	3.92	3.15	2.70	1.68	1.45	1.20	1.13			
26.	2.43	2.37	4.07	3.15	2.68	1.65	1.40	1.20	1.10			
27.	1.65	2.22	4.05	3.10	2.65	1.62	1.40	1.20	1.10			
28.	1.40	2.20	4.05	3.70	2.62	1.60	1.40	1.18	1.10			
29.	1.32		4.70	4.38	2.60	1.60	1.38	1.18	1.08			
30.	1.40		4.68	3.97	2.48	1.60	1.37	1.18	1.07			
31.	1.60		4.68		2.45		1.35	1.17				
<b>Mean.</b>	1.43	2.24	4.09	3.32	2.67	1.66	1.42	1.19	1.11			
<b>Monthly Mean.</b>	1.30	1.75	3.18	3.81	3.36	1.95	1.49	1.25	1.12			
<b>Max.</b>	2.43	2.38	4.70	4.62	2.38	2.45	1.60	1.33	1.20			
<b>Date.</b>	26	26	29	1	2	1	1	3	24			
<b>Min.</b>	1.07	1.25	2.00	2.95	2.45	1.60	1.35	1.17	1.07			
<b>Date.</b>	20	10	6	22	31	30	31	31	30			

RIVER : BEARALI  
 STATION : TRIAL FARM  
 NO : IKA.19  
 YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.23	8.43						1.95	1.80	1.70	1.60	1.83
2.	7.67	8.33						1.95	1.80	1.70	1.66	1.71
3.	6.43	9.27						1.95	1.80	1.65	1.67	1.73
4.	8.33							1.95	1.80	1.60	1.70	1.70
5.	7.20	9.93						1.95	1.80	1.68	1.70	1.76
6.	7.30	9.87						1.95	1.80	1.70	1.70	2.01
7.	6.73	10.40						1.95	1.80	1.61	1.70	1.96
8.	6.73							1.95	1.80	1.65	1.70	1.91
9.	6.63							1.95	1.80	1.60	1.70	1.81
10.	8.70							1.95	1.80	1.60	1.70	1.80
Mean	7.00							1.95	1.80	1.64	1.68	1.82
11.	7.33							1.90	1.80	1.60	1.70	1.70
12.	6.70							1.90	1.80	1.60	1.70	1.70
13.	5.87							1.90	1.80	1.60	1.66	1.70
14.	6.40							1.90	1.80	1.65	1.60	1.65
15.	6.27							1.90	1.80	1.60	1.65	2.03
16.	6.80							1.90	1.80	1.60	1.70	2.02
17.	6.87							1.85	1.80	1.60	1.70	2.33
18.	8.67							1.90	1.80	1.60	1.70	2.13
19.	8.07							1.85	1.80	1.60	1.70	2.03
20.	6.33							1.90	1.80	1.60	1.60	1.90
Mean	6.98							1.89	1.80	1.60	1.67	1.91
21.	9.13							1.88	1.80	1.60	1.65	1.88
22.	8.93							1.85	1.80	1.60	1.60	2.03
23.	8.70							1.80	1.80	1.60	1.60	2.26
24.	8.47							1.80	1.70	1.60	1.65	3.70
25.	8.47							1.80	1.70	1.60	1.65	2.03
26.	9.37							1.80	1.70	1.60	1.65	2.10
27.	10.83							1.80	1.63	1.70	1.70	2.08
28.	9.00							1.80	1.70	1.65	1.60	2.03
29.	8.67							1.80	1.65	1.60	1.90	1.90
30.	8.50							1.80	1.70	1.60	1.90	1.90
31.	8.37							1.80		1.65		2.48
Mean	8.95							1.81	1.71	1.61	1.69	2.21
Monthly Mean	7.68							1.88	1.77	1.62	1.68	1.99
Max.	10.83							2.00	1.90	1.70	1.70	2.80
Date	27							5	3	1/2 5/6 27	2-12 15-19 27-28	31
Min.	5.87							1.80	1.60	1.60	1.60	1.70
Date	13							24-31	27	4/7 9-14 16-26 29-30	1-14 20 22-23	2-4 10-12

January - February, old gauge has been correlated to the new one.

RIVER: MBARALI  
STATION: TRIAL FARM RUJEWI  
STATION NO: IKA.19  
YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.50	3.66	2.48	4.23	3.33	2.70	2.40	2.30	2.20	2.00	1.90	1.90
2.	2.26	3.23	2.63	4.56	3.30	2.70	2.40	2.30	2.10	2.00	1.90	1.90
3.	2.26	6.40	2.76	5.05	3.20	2.70	2.40	2.20	2.10	2.00	1.90	1.90
4.	2.07	4.65	2.60	5.20	3.20	2.70	2.40	2.20	2.10	2.00	1.90	1.80
5.	2.03	6.43	2.96	4.70	3.15	2.70	2.40	2.20	2.10	2.00	1.90	1.87
6.	1.98	4.63	3.86	4.83	3.15	2.70	2.40	2.20	2.10	2.00	1.90	2.10
7.	2.21	3.68	3.00	3.90	3.15	2.63	2.40	2.20	2.10	2.00	1.90	1.97
8.	3.70	3.36	3.03	3.73	3.10	2.60	2.40	2.20	2.10	2.00	1.90	1.90
9.	2.13	2.70	2.93	3.53	3.10	2.60	2.40	2.20	2.10	2.00	1.90	1.90
10.	2.66	5.35	2.80	3.50	3.10	2.60	2.40	2.20	2.10	2.00	1.90	1.90
Mean.	2.38	4.41	2.91	4.32	3.18	2.66	2.40	2.22	2.11	2.00	1.90	1.91
11.	2.90	3.55	2.70	3.80	3.00	2.67	2.40	2.20	2.10	1.90	1.90	1.90
12.	2.50	4.80	2.76	4.06	2.98	2.60	2.30	2.20	2.10	1.90	1.90	1.90
13.	2.80	3.03	2.73	4.03	2.90	2.50	2.30	2.20	2.10	1.90	1.90	1.90
14.	2.50	4.15	2.60	4.00	2.90	2.50	2.30	2.20	2.10	1.90	1.90	1.90
15.	2.30	3.06	2.56	4.30	2.90	2.50	2.30	2.20	2.10	1.90	1.90	2.30
16.	2.20	2.80	3.06	4.0 <sup>U</sup>	2.80	2.50	2.30	2.20	2.10	1.90	1.90	2.47
17.	2.10	2.26	4.13	4.43	2.80	2.50	2.30	2.20	2.10	1.90	1.90	2.40
18.	2.20	2.38	4.33	4.30	2.80	2.50	2.30	2.20	2.10	1.90	1.90	2.37
19.	3.13	3.40	3.36	4.67	2.80	2.50	2.30	2.20	2.10	1.90	1.90	2.37
20.	2.46	3.55	3.16	4.50	2.80	2.50	2.30	2.20	2.10	1.90	1.90	2.37
Mean.	2.51	3.30	3.14	4.21	2.87	2.53	2.31	2.20	2.10	1.90	1.90	2.19
21.	2.16	5.86	2.90	4.37	2.80	2.40	2.30	2.20	2.10	1.90	1.90	2.50
22.	2.40	4.21	3.02	4.23	2.80	2.40	2.30	2.20	2.10	1.90	1.90	2.77
23.	2.28	3.70	3.92	4.06	2.80	2.40	2.30	2.20	2.10	1.90	1.90	4.13
24.	3.86	3.10	4.50	3.86	2.90	2.40	2.30	2.20	2.00	1.90	1.90	2.90
25.	4.26	2.88	3.43	3.73	2.90	2.40	2.30	2.20	2.00	1.90	1.90	2.90
26.	3.13	2.71	3.63	3.70	2.97	2.40	2.30	2.20	2.00	1.90	1.83	2.67
27.	3.70	2.61	5.53	3.63	2.90	2.40	2.30	2.20	2.00	1.90	1.80	2.23
28.	2.70	2.51	3.73	3.50	2.80	2.40	2.30	2.20	2.00	1.90	1.80	2.10
29.	3.30		5.20	3.40	2.80	2.40	2.30	2.20	2.00	1.90	1.87	1.93
30.	4.00		4.12	3.33	2.80	2.40	2.30	2.20	2.00	1.90	1.90	1.90
31.	3.50		4.53		2.80		2.30	2.20		1.90		4.50
Mean.	3.21	3.45	4.05	3.78	2.84	2.40	2.30	2.20	2.03	1.90	1.87	2.77
Monthly Mean.	2.71	3.73	3.38	4.10	2.96	2.53	2.34	2.20	2.08	1.93	1.89	2.31
Max.	5.00	8.40	6.70	5.85	3.35	2.70	2.40	2.30	2.20	2.00	1.90	6.90
Date.	24	5	29	3	1	1-7	1-11	1.2	1	1-10	1-26 29.30	31
Min.	2.00	2.20	2.45	3.30	2.80	2.40	2.30	2.20	2.00	1.90	1.80	1.80
Date.	4.6.23	17	1	30	16-23 28-31	21-30	12-31	3-31	25-30	10-31	26-29	4.5

RIVER: MBARALI  
 STATION: RUJEWI TRIAL FARM  
 STATION NO: IKA.19  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.77	1.87	2.47	3.70	2.47	2.00	1.90	1.80	1.70	1.60	1.50	1.60
2.	4.77	1.77	2.40	3.57	2.80	2.00	1.90	1.80	1.70	1.60	1.50	1.60
3.	3.00	1.70	2.33	3.50	2.57	2.00	1.90	1.80	1.70	1.60	1.50	1.60
4.	2.47	1.73	2.30	3.77	2.43	2.00	1.90	1.80	1.70	1.60	1.50	1.47
5.	2.20	1.80	2.37	3.30	2.33	2.00	1.90	1.80	1.70	1.60	1.50	1.60
6.	3.13	1.93	2.57	3.13	2.30	2.00	1.90	1.80	1.70	1.60	1.50	1.60
7.	4.40	1.90	3.93	3.03	2.30	2.00	1.90	1.80	1.70	1.60	1.50	1.60
8.	3.23	2.97	6.87	3.03	2.23	2.00	1.90	1.80	1.70	1.60	1.50	1.60
9.	2.83	4.47	3.67	2.83	2.20	2.00	1.90	1.80	1.70	1.60	1.50	1.63
10.	2.43	3.00	3.10	2.80	2.20	2.00	1.90	1.80	1.70	1.60	1.50	1.60
Mean.	3.12	2.31	3.20	3.27	2.38	2.00	1.90	1.80	1.70	1.60	1.50	1.59
11.	2.37	2.66	3.13	2.70	2.20	2.00	1.90	1.80	1.70	1.60	1.50	1.60
12.	2.10	2.80	3.23	2.67	2.10	2.00	1.90	1.80	1.70	1.60	1.50	1.63
13.	2.00	3.33	3.53	2.57	2.10	2.00	1.90	1.80	1.70	1.60	1.50	1.83
14.	1.93	3.87	3.23	2.53	2.10	2.00	1.90	1.80	1.70	1.60	1.50	1.87
15.	1.87	3.60	3.10	2.50	2.10	2.00	1.90	1.80	1.70	1.60	1.50	2.53
16.	1.90	3.70	3.57	2.47	2.10	2.00	1.90	1.80	1.70	1.60	1.60	2.03
17.	1.80	4.03	5.03	2.43	2.10	2.00	1.90	1.80	1.70	1.60	1.53	1.87
18.	1.80	3.17	7.80	2.40	2.10	2.00	1.90	1.80	1.70	1.60	1.50	1.93
19.	1.80	4.00	3.73	2.37	2.10	1.90	1.90	1.70	1.70	1.60	1.53	2.00
20.	1.70	2.93	6.30	2.37	2.10	1.90	1.90	1.70	1.70	1.60	1.50	1.97
Mean.	1.93	3.41	4.27	2.50	2.11	1.98	1.90	1.78	1.70	1.60	1.52	1.93
21.	1.70	3.90	5.40	2.43	2.10	1.90	1.80	1.70	1.70	1.60	1.50	2.13
22.	1.60	2.90	6.20	2.43	2.10	1.90	1.80	1.70	1.70	1.50	1.60	3.93
23.	2.00	3.07	4.80	2.40	2.10	1.90	1.80	1.70	1.70	1.50	1.60	3.03
24.	2.23	2.70	4.50	2.43	2.10	1.90	1.80	1.70	1.70	1.50	1.67	2.27
25.	3.00	2.70	4.53	2.40	2.10	1.90	1.80	1.70	1.70	1.50	1.77	2.13
26.	5.63	2.57	3.30	2.40	2.00	1.90	1.80	1.70	1.60	1.50	1.67	3.57
27.	2.90	2.70	5.63	2.40	2.00	1.90	1.80	1.70	1.60	1.50	1.60	2.37
28.	2.60	2.57	4.77	2.40	2.00	1.90	1.80	1.70	1.60	1.50	1.60	2.43
29.	2.30		4.33	2.40	2.00	1.90	1.80	1.70	1.60	1.50	1.60	2.20
30.	2.17		4.03	2.50	2.00	1.90	1.80	1.70	1.60	1.50	1.60	1.93
31.	1.97		4.10		2.00		1.80	1.70		1.50		1.70
Mean.	2.55	2.89	4.69	2.42	2.05	1.90	1.80	1.70	1.65	1.51	1.62	2.52
Monthly Mean.	2.54	2.87	4.07	2.73	2.18	1.96	1.86	1.76	1.68	1.57	1.55	2.03
Max.	6.60	4.70	10.60	4.00	3.00	2.00	1.90	1.80	1.70	1.60	1.80	6.60
Date.	2	20	18	4	2	18	20	18	25	21	25	21
Min.	1.60	1.70	2.30	2.30	2.00	1.90	1.80	1.70	1.60	1.50	1.50	1.40
Date.	22	4	5	19	31	30	31	31	30	31	20	4

RIVER: MBARALI  
 STATION: TRIAL FARM  
 STATION NO: IKA.19  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.67	1.37	3.17	4.03	2.10	1.70	1.60	1.60	1.50	1.40	1.40	1.93
2.	1.60	2.10	2.90	5.53	2.10	1.70	1.60	1.60	1.50	1.40	1.40	2.60
3.	1.60	2.67	3.40	7.60	2.03	1.70	1.60	1.60	1.50	1.40	1.77	2.13
4.	1.60	2.63	3.13	(7.25	2.03	1.70	1.60	1.60	1.50	1.40	1.57	2.10
5.	1.60	2.07	4.07	6.80	2.00	1.70	1.60	1.60	1.50	1.40	1.77	3.10
6.	1.60	1.80	3.47	6.35	2.00	1.70	1.60	1.60	1.50	1.40	1.57	2.17
7.	1.57	1.70	3.97	5.90	2.03	1.70	1.60	1.60	1.50	1.40	1.50	1.19
8.	1.67	1.70	6.93	5.45	1.97	1.70	1.60	1.60	1.50	1.43	1.57	2.37
9.	1.93	2.27	4.47	5.00	1.97	1.70	1.60	1.60	1.50	1.47	1.53	3.32
10.	2.23	2.53	4.20	4.55	1.93	1.70	1.60	1.57	1.50	1.50	1.50	2.41
<b>Mwan.</b>	1.71	2.08	3.97	5.72	2.02	1.70	1.60	1.60	1.50	1.42	1.56	2.33
11.	2.10	2.33	3.13	4.10	1.90	1.67	1.63	1.53	1.50	1.40	1.40	4.57
12.	2.23	2.47	2.83	3.65	1.90	1.67	1.63	1.57	1.40	1.40	1.40	2.23
13.	2.63	2.63	4.13	3.20	1.87	1.63	1.60	1.60	1.40	1.43	1.40	4.63
14.	2.13	2.33	2.33	2.75)	1.83	1.60	1.60	1.53	1.40	1.40	1.30	3.40
15.	3.43	2.20	3.27	2.30	1.83	1.60	1.60	1.60	1.40	1.33	1.33	3.00
16.	4.40	2.17	3.13	2.20	1.80	1.67	1.60	1.60	1.40	1.37	1.30	2.20
17.	6.87	2.17	3.80	2.10	1.80	1.67	1.60	1.57	1.40	1.30	1.30	1.97
18.	4.17	2.43	3.30	2.23	1.80	1.67	1.60	1.53	1.40	1.30	1.30	1.57
19.	2.37	2.33	3.87	2.20	1.80	1.67	1.60	1.50	1.40	1.33	1.30	1.33
20.	1.93	2.20	3.27	2.30	1.80	1.70	1.60	1.53	1.60	1.40	1.30	1.10
<b>Mean.</b>	3.23	2.33	3.37		1.83	1.66	1.61	1.56	1.43	1.37	1.33	2.60
21.	1.63	2.17	3.37	2.33	1.83	1.67	1.60	1.50	1.40	1.47	1.30	1.07
22.	1.47	3.10	3.13	2.27	1.77	1.67	1.60	1.50	1.40	1.50	1.30	1.03
23.	1.40	2.53	4.20	2.20	1.73	1.70	1.60	1.50	1.40	1.43	1.30	1.37
24.	1.30	3.17	3.67	2.20	1.70	1.67	1.60	1.60	1.40	1.40	1.30	1.57
25.	1.23	3.77	4.60	2.10	1.70	1.67	1.60	1.53	1.40	1.40	1.33	2.00
26.	1.20	3.37	4.53	2.10	1.70	1.63	1.60	1.50	1.40	1.40	1.70	3.57
27.	2.30	2.77	7.40	2.10	1.70	1.67	1.60	1.50	1.40	1.40	1.77	2.57
28.	1.60	3.73	4.63	2.10	1.70	1.60	1.60	1.50	1.40	1.40	1.60	2.10
29.	4.23		5.10	2.10	1.70	1.60	1.60	1.50	1.40	1.47	1.67	1.90
30.	1.60		4.53	2.10	1.70	1.60	1.60	1.50	1.40	1.40	2.10	1.83
31.	1.33		4.50				1.60	1.50		1.40		1.60
<b>Mean.</b>	1.75	3.08	4.51	2.16	1.72	1.65	1.60	1.51	1.40	1.42	1.54	1.87
<b>Monthly Mean.</b>	2.21	2.45	3.97		1.86	1.67	1.60	1.55	1.44	1.40	1.48	2.26
<b>Max.</b>	2.90	4.90	13.00		2.10	1.70	1.70	1.60	1.60	1.50	2.20	6.50
<b>Date.</b>	17	25	27		2	20	12	16	20	29	30	13
<b>Min.</b>	1.20	1.30	2.80	2.10	1.70	1.60	1.60	1.50	1.40	1.30	1.30	1.00
<b>Date.</b>	26	1	12	30	30	31	31	30	19	19	24	22



RIVER : LITTLE RUaha  
 STATION : TOSOMAGANGA  
 NO : IKA.20  
 YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.55	10.60	11.45	11.26	10.28	8.30	7.54	6.99	6.70	6.50	6.40	6.20
2.	6.65	10.45	10.80	11.30	10.18	8.23	7.50	6.98	6.70	6.50	6.30	6.60
3.	7.00	10.95	10.56	11.10	10.18	8.23	7.50	6.99	6.70	6.50	6.30	6.50
4.	7.25	11.35	10.66	11.86	10.05	8.18	7.48	7.08	6.70	6.50	6.30	6.70
5.	7.55	11.20	10.23	12.43	9.85	8.18	7.46	7.10	6.60	6.40	6.30	6.60
6.	7.65	11.00	10.10	13.06	9.85	8.10	7.45	7.08	6.60	6.30	6.30	6.50
7.	7.80	10.80	9.96	12.63	9.75	8.10	7.42	7.03	6.60	6.30	6.30	6.50
8.	8.00	10.60	10.20	12.33	9.65	8.05	7.40	7.03	6.60	6.30	6.30	6.70
9.	8.45	10.90	10.73	11.50	9.65	8.00	7.38	7.00	6.60	6.30	6.30	6.60
10.	8.60	10.85	10.40	11.13	9.65	7.96	7.35	7.00*	6.60	6.30	6.30	6.60
Mean	7.55	10.87	10.51	11.86	9.91	8.13	7.45	7.03	6.64	6.39	6.31	6.55
11.	8.65	10.30	10.20	10.80	9.54	7.65	7.33	7.00	6.60	6.23	6.30	6.60
12.	8.95	10.10	10.00	10.46	9.44	7.96	7.30	6.96	6.60	6.20	6.30	6.40
13.	8.30	10.10	9.96	10.23	9.34	7.96	7.28	7.00	6.60	6.20	6.30	6.40
14.	8.30	9.95	10.36	10.10	9.15	7.96	7.26	7.00	6.60	6.20	6.30	6.40
15.	8.55	10.20	10.93	10.00	9.05	7.90	7.24	7.00	6.50	6.30	6.30	6.40
16.	8.65	10.40	10.86	10.16	8.88	7.90	7.22	7.00	6.46	6.30	6.30	6.50
17.	8.60	10.90	10.90	10.16	9.20	7.90	7.20	6.90	6.40	6.26	6.30	6.63
18.	9.10	10.40	10.40	9.90	9.15	7.90	7.18	7.00	6.40	6.20	6.30	6.70
19.	10.65	10.70	10.13	10.86	9.10	7.85	7.15	6.90	6.40	6.20	6.30	6.70
20.	11.35	11.30	9.96	10.13	9.10	7.80	7.13	6.90	6.40	6.20	6.30	6.60
Mean	9.11	10.44	10.37	10.28	9.20	7.88	7.23	6.97	6.50	6.23	6.30	6.53
21.	11.00	11.60	10.17	9.80	9.00	7.80	7.10	6.90	6.40	6.40	6.30	6.60
22.	10.30	12.30	10.00	*9.75	9.00	7.75	7.10	6.90	6.40	6.40	6.30	7.00
23.	9.90	12.20	9.90	9.65	8.90	7.75	7.08	6.90	6.40	6.40	6.20	7.16
24.	9.75	11.75	10.13	9.65	8.84	7.70	7.05	6.90	6.40	6.40	6.20	7.20
25.	10.20	11.20	11.23	9.65	8.75	7.66	7.05	6.80	6.40	6.40	6.20	7.20
26.	11.15	11.15	10.80	10.05	8.75	7.60	7.03	6.80	6.40	6.40	6.20	6.90
27.	11.65	12.00	10.86	10.05	8.68	7.60	7.03	6.80	6.40	6.40	6.20	6.80
28.	11.70	11.80	10.73	10.05	8.60	7.56	7.03	6.80	6.40	6.40	6.20	6.80
29.	11.40	11.30	10.76	9.96	8.60	7.56	7.00	6.70	6.43	6.40	6.20	7.00
30.	11.00		11.23	10.18	8.52	7.54	7.00	6.70	6.40	6.40	6.20	6.96
31.	10.75		11.40		8.52		6.99	6.70		6.36		6.90
Mean	10.80	11.70	10.66	9.88	8.74	7.65	7.04	6.81	6.40	6.40	6.22	6.96
Monthly Mean	9.21	10.98	10.52	10.67	9.26	7.89	7.23	6.93	6.51	6.34	6.27	6.69
Max.	11.70	12.60	11.90	13.30	10.28	8.30	7.54	7.10	6.70	6.50	6.40	7.20
Date	27-28	27	30	6	1	1	1	5	1-4	1-4	1	23-25
Min.	6.50	9.90	9.80	9.65	8.52	7.54	6.99	6.70	6.40	6.20	6.20	6.20
Date	1	14	12-30	24-25	31	30	31	29-31	16-30	11-14 17-21	23-30	1

\* Figures between \* levels from correlation with Iringa.



RIVER: LITTLE RUAHA  
STATION: TOSANAGANGA  
STATION NO: IKA.20  
YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.93	9.50	8.60	10.30	10.65	8.90	7.80	7.40	7.00	6.60	6.20	6.10
2.	6.90	9.20	8.45	10.75	10.45	8.90	7.80	7.40	6.90	6.50	6.20	6.10
3.	7.20	9.60	8.35	10.75	10.35	8.90	7.80	7.40	6.90	6.50	6.20	6.10
4.	7.20	9.85	8.20	11.25	10.15	8.70	7.80	7.30	6.90	6.50	6.20	6.10
5.	7.30	10.45	8.10	10.70	10.05	8.70	7.70	7.30	6.90	6.50	6.20	6.10
6.	7.30	10.20	8.20	10.65	10.00	8.70	7.65	7.30	6.90	6.50	6.20	6.00
7.	7.65	10.55	8.30	10.55	10.00	8.60	7.60	7.30	6.85	6.50	6.20	6.00
8.	7.85	10.40	8.30	10.70	10.10	8.60	7.60	7.30	6.80	6.50	6.20	6.00
9.	7.95	10.50	8.30	10.35	10.05	8.50	7.60	7.30	6.70	6.50	6.20	6.00
10.	7.75	10.40	8.30	10.35	9.90	8.50	7.60	7.30	6.70	6.50	6.20	6.00
Mean.	7.40	10.11	8.31	10.64	10.17	8.70	7.70	7.33	6.86	6.51	6.20	6.05
11.	7.80	10.05	8.30	10.40	10.35	8.45	7.60	7.30	6.70	6.40	6.20	6.00
12.	8.00	10.00	8.30	10.20	10.30	8.40	7.60	7.30	6.70	6.30	6.20	6.00
13.	8.45	9.70	8.30	10.10	10.27	8.35	7.60	7.30	6.60	6.30	6.10	6.00
14.	8.50	9.60	8.15	10.50	10.15	8.30	7.50	7.20	6.60	6.30	6.10	6.00
15.	8.75	9.55	7.95	11.15	10.00	8.30	7.50	7.20	6.60	6.30	6.10	6.10
16.	8.65	9.45	8.00	13.10	9.94	8.30	7.50	7.20	6.60	6.40	6.10	6.20
17.	8.70	9.25	8.05	12.75	9.88	8.10	7.50	7.20	6.60	6.40	6.10	6.30
18.	8.40	9.15	8.15	14.25	9.77	8.10	7.60	7.20	6.60	6.40	6.10	6.30
19.	8.05	9.05	8.30	13.80	9.72	8.00	7.60	7.10	6.60	6.40	6.10	6.40
20.	8.00	9.00	8.50	12.80	9.65	8.00	7.50	7.10	6.60	6.40	6.10	6.50
Mean.	8.33	9.48	8.18	11.91	10.00	8.23	7.55	7.21	6.62	6.36	6.12	6.18
21.	8.00	9.05	8.50	12.60	9.65	8.00	7.50	7.10	6.60	6.40	6.10	7.00
22.	8.00	9.20	8.60	13.05	9.65	8.00	7.50	7.00	6.50	6.35	6.10	7.10
23.	8.25	9.30	8.60	12.90	9.65	7.90	7.40	7.00	6.50	6.30	6.10	7.00
24.	8.35	9.15	8.45	12.50	9.60	7.90	7.40	7.00	6.50	6.30	6.10	7.10
25.	8.40	9.05	8.50	12.10	9.52	7.90	7.40	7.00	6.50	6.30	6.10	7.15
26.	8.40	8.90	8.50	11.75	9.43	7.90	7.40	7.00	6.50	6.30	6.10	7.20
27.	8.45	8.80	8.85	11.55	9.34	7.80	7.40	7.00	6.50	6.30	6.10	7.20
28.	8.75	8.70	9.60	11.35	9.30	7.80	7.40	7.00	6.50	6.30	6.10	7.10
29.	9.05		10.20	11.25	9.21	7.80	7.40	7.00	6.50	6.30	6.10	7.05
30.	9.30		9.95	10.85	9.18	7.80	7.40	7.00	6.60	6.30	6.10	7.10
31.	9.50		10.20		8.98		7.40	7.00		6.30		7.20
Mean.	8.59	9.02	9.09	11.99	9.41	7.88	7.42	7.01	6.52	6.31	6.10	7.11
Monthly Mean.	8.12	9.57	8.54	11.51	9.85	8.27	7.55	7.18	6.66	6.39	6.14	6.47
Max.	9.50	10.60	10.40	14.60	10.65	8.90	7.80	7.40	7.00	6.60	6.20	7.30
Date.	31	7	29,31	18	1.	1-3	1-4	1-3	1	1	1-12	26
Min.	6.90	8.70	7.90	10.10	8.98	7.80	7.40	7.00	6.50	6.30	6.10	6.00
Date.	1,2	28	15	13	31	27-30	23-31	22-31	22-29	12-15 22-31	13-30	6-15

RIVER: LITTLE RUAHA  
STATION: TOSAMAGANGA  
STATION NO: IKA.20  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	7.30	7.10	8.50	11.80	9.50	8.10	7.50	7.10	6.90	6.50	6.20	6.10
2.	7.40	7.10	8.40	12.00	9.60	8.00	7.50	7.10	6.90	6.50	6.20	6.10
3.	7.30	7.10	8.30	12.73	9.80	8.00	7.50	7.10	6.90	6.50	6.20	6.00
4.	7.20	7.10	8.30	12.40	9.90	8.00	7.50	7.10	6.80	6.50	6.20	6.00
5.	7.20	7.00	8.30	12.00	9.80	7.90	7.50	7.10	6.80	6.50	6.20	6.00
6.	7.50	6.90	8.40	11.80	9.70	7.90	7.50	7.10	6.80	6.50	6.20	6.00
7.	7.40	6.90	8.50	11.80	9.80	7.80	7.40	7.10	6.80	6.50	6.20	6.50
8.	7.40	6.90	8.60	11.20	9.60	7.80	7.40	7.10	6.80	6.50	6.10	6.20
9.	7.40	6.90	8.90	11.00	9.50	7.80	7.40	7.10	6.80	6.50	6.10	6.10
10.	7.40	7.20	8.80	11.00	9.30	7.90	7.40	7.00	6.80	6.50	6.10	6.10
Mean.	7.35	7.02	8.50	11.77	9.65	7.92	7.46	7.09	6.83	6.50	6.17	6.11
11.	7.30	7.40	8.60	10.40	9.20	7.80	7.40	7.00	6.80	6.50	6.10	6.10
12.	7.30	7.50	8.50	10.30	9.10	7.70	7.40	7.00	6.80	6.50	6.10	6.10
13.	7.30	7.70	8.50	10.20	8.90	7.70	7.40	7.00	6.80	6.50	6.10	6.20
14.	7.30	7.90	8.70	10.00	8.80	7.70	7.40	7.00	6.80	6.50	6.10	6.40
15.	7.30	8.10	8.60	10.00	8.60	7.70	7.40	7.00	6.80	6.50	6.10	6.50
16.	7.20	8.50	8.60	9.90	8.50	7.70	7.40	7.00	6.80	6.50	6.10	6.50
17.	7.20	8.70	8.70	9.80	8.40	7.70	7.40	7.00	6.70	6.40	6.10	6.60
18.	7.10	9.20	8.80	9.60	8.40	7.70	7.30	7.00	6.70	6.40	6.10	6.60
19.	7.10	9.10	9.40	9.50	8.30	7.70	7.30	7.00	6.70	6.40	6.10	6.60
20.	7.10	9.00	11.50	9.40	8.30	7.60	7.30	7.00	6.70	6.40	6.00	6.70
Mean.	7.22	8.31	8.99	9.91	8.65	7.70	7.37	7.00	6.76	6.46	6.09	6.43
21.	7.00	9.10	12.00	9.30	8.30	7.60	7.20	7.00	6.70	6.40	6.00	6.90
22.	6.90	9.10	12.25	9.30	8.20	7.60	7.20	7.00	6.70	6.40	6.00	7.00
23.	7.10	9.10	12.00	9.30	8.20	7.60	7.20	7.00	6.70	6.40	6.00	7.00
24.	7.10	9.20	11.60	9.20	8.20	7.60	7.20	7.00	6.70	6.30	6.00	7.20
25.	7.10	8.60	12.10	9.20	8.20	7.60	7.20	6.90	6.70	6.30	6.00	7.30
26.	7.20	8.60	12.30	9.40	8.20	7.60	7.20	6.90	6.60	6.30	6.00	7.50
27.	7.20	8.50	12.30	9.40	8.20	7.50	7.20	6.90	6.60	6.30	6.00	7.50
28.	7.20	8.50	12.60	9.40	8.20	7.50	7.20	6.90	6.50	6.20	6.00	7.60
29.	7.20		12.20	9.40	8.10	7.40	7.20	6.90	6.50	6.20	6.00	7.60
30.	7.10		12.00	9.40	8.10	7.40	7.20	6.90	6.50	6.20	6.00	7.50
31.	7.10		11.60		8.10		7.10	6.90		6.20		7.40
Mean.	7.11	8.84	12.09	9.33	8.18	7.54	7.19	6.94	6.62	6.29	6.00	7.32
Monthly Mean.	7.22	8.00	9.93	10.34	8.81	7.72	7.34	7.01	6.74	6.41	6.09	6.64
Max.	7.50	9.20	12.60	12.80	9.90	8.10	7.50	7.10	6.90	6.50	6.20	7.60
Date.	6,	24	28	3	4	1	6	9	3	16	7	29
Min.	6.90	6.90	8.30	9.20	8.10	7.40	7.10	6.90	6.50	6.20	6.00	6.00
Date.	22	9	5	25	31	30	31	31	30	31	30	6

RIVER: LITTLE RUAHA  
 STATION: TOSAMAGANGA  
 STATION NO: LKA.20  
 YEAR: 1959.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	7.40	7.70	7.90	9.50	8.30	7.50	7.20	6.90	6.70	6.40	6.30	7.00
2.	7.40	8.00	7.80	9.40	8.30	7.50	7.20	6.90	6.70	6.40	6.40	6.60
3.	7.30	8.10	7.80	9.70	8.30	7.50	7.20	6.90	6.70	6.40	6.40	6.60
4.	7.00	8.30	8.00	10.00	8.30	7.50	7.20	6.90	6.70	6.40	6.50	6.50
5.	6.90	8.30	8.20	10.00	8.20	7.50	7.20	6.93	6.70	6.40	6.60	6.50
6.	6.70	8.30	8.10	10.30	8.10	7.50	7.20	6.90	6.70	6.40	6.60	6.60
7.	6.50	8.30	8.30	10.60	8.10	7.50	7.20	6.90	6.70	6.60	6.80	7.00
8.	6.80	8.30	8.50	10.80	8.00	7.50	7.20	6.90	6.70	6.60	7.10	7.00
9.	6.90	8.50	9.40	10.70	8.00	7.40	7.20	6.90	6.70	6.50	7.00	7.00
10.	7.00	8.40	9.30	10.60	8.00	7.30	7.20	6.90	6.70	6.50	6.70	7.00
Mean.	6.99	8.22	8.33	10.16	8.16	7.47	7.20	6.90	6.70	6.46	6.64	6.78
11.	7.00	8.40	9.30	10.40	7.90	7.30	7.20	6.90	6.70	6.40	6.60	7.50
12.	7.20	8.40	9.20	10.40	7.90	7.30	7.10	6.80	6.60	6.40	6.50	7.60
13.	7.30	8.40	9.10	10.30	7.80	7.30	7.10	6.80	6.60	6.40	6.40	7.80
14.	7.30	8.00	9.10	10.00	7.80	7.30	7.10	6.80	6.60	6.40	6.40	8.00
15.	7.40	7.90	9.00	9.80	7.80	7.30	7.10	6.80	6.60	6.40	6.40	7.90
16.	7.50	7.60	8.80	9.40	7.80	7.30	7.10	6.80	6.60	6.40	6.30	7.70
17.	7.40	7.80	8.50	9.20	7.80	7.30	7.10	6.80	6.50	6.40	6.30	7.60
18.	7.30	7.60	8.40	9.10	7.80	7.30	7.00	6.70	6.50	6.40	6.30	7.60
19.	7.20	7.50	8.60	8.90	7.70	7.30	7.00	6.70	6.50	6.40	6.30	7.60
20.	7.70	7.50	8.50	8.70	7.70	7.30	7.00	6.70	6.50	6.40	6.30	7.50
Mean.	7.33	7.91	8.85	9.62	7.80	7.30	7.08	6.78	6.57	6.40	6.38	7.59
21.	7.60	7.40	8.50	8.40	7.60	7.30	7.00	6.70	6.40	6.40	6.30	7.50
22.	7.80	7.60	8.50	8.20	7.60	7.30	7.00	6.70	6.40	6.40	6.30	7.50
23.	7.90	7.60	8.40	8.20	7.60	7.20	7.00	6.70	6.40	6.40	6.20	7.50
24.	7.70	7.60	8.70	8.00	7.60	7.20	7.00	6.70	6.40	6.40	6.20	7.40
25.	7.50	7.60	8.90	8.00	7.60	7.20	6.90	6.70	6.40	6.40	6.20	7.40
26.	7.40	8.00	8.80	8.00	7.60	7.10	6.90	6.70	6.40	6.30	6.40	7.40
27.	7.40	8.00	8.70	8.30	7.60	7.10	6.90	6.70	6.40	6.30	6.60	7.30
28.	7.60	8.00	8.90	8.20	7.50	7.10	6.90	6.70	6.40	6.30	6.70	7.20
29.	7.60		9.30	8.20	7.50	7.10	6.90	6.70	6.40	6.30	6.70	7.10
30.	7.60		9.40	8.20	7.50	7.10	6.90	6.70	6.40	6.30	7.00	7.00
31.	7.70		9.50		7.50		6.90	6.70		6.30		7.00
Mean.	7.62	7.73	8.87	8.17	7.56	7.17	6.94	6.70	6.40	6.35	6.46	7.30
Monthly Mean.	7.32	7.97	8.69	9.32	7.83	7.31	7.07	6.79	6.56	6.40	6.49	7.23
Max.	7.90	8.50	9.50	10.80	8.30	7.50	7.20	6.90	6.70	6.60	7.30	8.00
Date.	23	9	31	8	4	8	11	11	11	8	7	14
Min.	6.50	7.40	7.80	8.00	7.50	7.10	6.90	6.70	6.40	6.30	6.20	6.50
Date.	7	21	3	26	31	30	31	31	30	31	25	5

RIVER: LITTLE RUAHA:  
 STATION: IRIMU  
 STATION NO: IKA.21  
 YEAR: 1937.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.					7.96	6.00	4.80	4.25	3.60	3.00	2.30	1.80
2.					7.81	5.95	4.75	4.23	3.60	2.95	2.31	1.75
3.					7.72	5.82	4.70	4.20	3.58	2.87	2.28	1.75
4.					7.59	5.77	4.70	4.20	3.55	2.81	2.25	1.81
5.					7.61	5.70	4.70	4.20	3.50	2.78	2.30	1.88
6.					7.72	5.70	4.67	4.16	3.50	2.75	2.27	1.90
7.					7.62	5.62	4.65	4.13	3.47	2.75	2.25	1.85
8.				7.55	7.66	5.60	4.62	4.10	3.44	2.74	2.21	1.83
9.				7.35	7.55	5.60	4.68	4.10	3.46	2.72	2.18	1.75
10.				7.20	7.55	5.50	4.60	4.13	3.40	2.70	2.15	1.75
Mean.					7.68	5.73	4.69	4.17	3.51	2.81	2.25	1.81
11.				7.35	7.49	5.49	4.60	4.10	3.40	2.67	2.15	2.10
12.				8.11	7.31	5.40	4.60	4.07	3.36	2.65	2.12	2.20
13.				7.13	7.13	5.32	4.54	4.01	3.31	2.65	2.10	2.18
14.				9.08	7.01	5.30	4.57	3.97	3.30	2.65	2.08	2.15
15.				10.65	6.92	5.30	4.55	3.95	3.24	2.60	2.05	2.27
16.				10.87	6.80	5.22	4.50	3.90	3.20	2.58	2.05	2.42
17.				10.68	6.73	5.20	4.50	3.90	3.20	2.55	2.10	2.54
18.				11.26	6.70	5.20	4.50	3.90	3.16	2.55	2.10	2.66
19.				10.95	6.67	5.10	4.25	3.90	3.17	2.54	1.95	3.33
20.				11.17	6.62	5.10	4.49	3.90	3.10	2.50	2.01	3.75
Mean.				9.73	6.94	5.26	4.51	3.96	3.24	2.59	2.07	2.56
21.				10.88	6.59	5.05	4.50	3.90	3.10	2.45	2.01	3.51
22.				10.68	6.54	5.00	4.50	3.90	3.10	2.45	2.05	3.52
23.				10.51	6.47	5.00	4.49	3.85	3.10	2.41	2.00	3.68
24.				10.18	6.41	5.00	4.40	3.80	3.07	2.38	1.97	4.07
25.				9.83	6.35	5.00	4.40	3.80	3.06	2.35	1.91	4.03
26.				9.41	6.26	4.95	4.41	3.76	3.32	2.31	1.90	3.76
27.				9.00	6.19	4.90	4.37	3.70	3.30	2.28	1.85	3.54
28.				8.60	6.10	4.87	4.35	3.70	3.26	2.29	1.85	3.77
29.				8.37	6.00	4.80	4.30	3.63	3.11	2.35	1.85	3.90
30.				8.16	5.95	4.80	4.30	3.65	3.03	2.30	1.80	3.98
31.					5.96		4.30	3.60		2.30		4.38
Mean.				9.56	6.26	4.94	4.39	3.75	3.15	2.35	1.92	3.83
Monthly Mean.					6.93	5.31	4.53	3.95	3.30	2.58	2.08	2.77
Observations taken from 16th to 26th April are not reliable.												
Max.				18.65	8.00	6.00	4.80	4.23	3.60	3.00	2.33	4.60
Date.				15	1	1	1	1	1.2	1/10	2/11	31/
Min.				7.05	5.90	4.80	4.30	3.60	3.00	2.25	1.78	1.75
Date.				14	30.31	29.30	30.31	31	30	27	30	2/3-9/10

RIVER: LITTLE RUAHA  
STATION: IHIMBU  
STATION NO: IKA.21  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.68	3.77	5.37	11.60	7.42	5.03	4.38	3.80	3.30	2.63	2.05	2.02
2.	4.78	3.58	5.07	11.33	7.10	5.00	4.35	3.80	3.28	2.60	2.08	1.97
3.	4.51	3.42	5.35	10.67	7.02	5.00	4.37	3.80	3.26	2.58	2.06	1.83
4.	4.28	3.67	5.32	10.05	6.86	4.96	4.38	3.82	3.23	2.56	2.03	1.79
5.	4.58	3.51	5.37	10.37	6.77	4.92	4.35	3.78	3.20	2.55	1.99	1.81
6.	4.29	3.75	5.96	9.60	6.72	5.00	4.35	3.75	3.20	2.53	1.95	1.88
7.	4.42	3.77	6.12	9.15	6.62	5.00	4.30	3.70	3.17	2.52	1.91	2.08
8.	4.42	3.98	6.02	8.83	6.48	5.05	4.30	3.67	3.15	2.50	1.89	2.01
9.	4.40	4.34	5.67	8.85	6.32	4.98	4.28	3.65	3.10	2.50	1.87	2.08
10.	4.42	4.62	6.45	8.25	6.18	4.95	4.28	3.66	3.08	2.50	1.85	1.95
Mean.	4.48	3.84	5.67	9.87	6.75	4.99	4.33	3.74	3.20	2.55	1.97	1.94
11.	4.42	4.96	6.10	8.01	6.09	4.90	4.26	3.70	3.05	2.53	1.84	1.90
12.	4.32	5.40	5.95	7.80	6.02	4.87	4.22	3.70	3.02	2.50	1.84	1.98
13.	4.20	5.57	5.76	7.55	5.93	4.82	4.20	3.70	3.00	2.48	1.81	2.98
14.	4.20	6.63	5.88	7.35	5.86	4.80	4.17	3.67	3.00	2.47	1.82	2.63
15.	4.16	6.37	6.32	7.31	5.78	4.79	4.18	3.65	3.00	2.44	2.09	2.88
16.	4.13	6.98	7.27	7.02	5.72	4.75	4.15	3.65	2.98	2.43	1.78	3.05
17.	4.10	6.65	6.85	6.82	5.66	4.70	4.15	3.65	2.95	2.40	1.76	3.08
18.	4.09	6.33	8.15	6.88	5.60	4.67	4.13	3.60	2.92	2.37	1.78	3.53
19.	3.97	5.95	10.47	7.02	5.58	4.65	4.08	3.55	2.90	2.33	1.80	3.29
20.	3.77	5.48	9.40	7.10	5.48	4.62	4.05	3.52	2.95	2.30	1.80	3.04
Mean.	4.14	6.03	7.22	7.29	5.77	4.76	4.16	3.64	2.98	2.43	1.83	2.84
21.	3.62	5.50	10.87	7.15	5.48	4.60	4.00	3.50	2.93	2.26	1.81	3.27
22.	3.78	5.99	9.75	7.17	5.48	4.58	3.99	3.50	2.90	2.25	1.85	3.56
23.	3.60	6.27	9.97	6.89	5.44	4.55	3.96	3.50	2.84	2.23	1.86	3.97
24.	3.62	6.93	10.80	7.11	5.40	4.50	3.92	3.48	2.77	2.20	1.86	4.28
25.	3.60	6.50	10.22	7.31	5.36	4.50	3.90	3.46	2.75	2.17	1.84	4.14
26.	3.77	6.35	11.16	7.42	5.30	4.48	3.88	3.45	2.70	2.15	1.82	4.03
27.	4.09	6.12	11.47	7.77	5.27	4.45	3.85	3.40	2.70	2.13	1.80	4.12
28.	4.29	5.53	10.77	7.62	5.22	4.40	3.85	3.40	2.70	2.10	1.83	4.23
29.	4.40		10.10	7.52	5.14	4.40	3.83	3.38	2.67	2.10	1.86	4.32
30.	4.51		10.45	7.51	5.10	4.39	3.80	3.37	2.64	2.08	1.93	4.23
31.	4.32		11.02		5.07		3.80	3.35		2.05		3.96
Mean.	3.96	6.15	10.60	7.35	5.30	4.49	3.89	3.44	2.76	2.16	1.85	4.01
Monthly Mean.	4.19	5.28	7.92	8.17	5.92	4.74	4.12	3.60	2.98	2.37	1.88	2.96
Max.	4.85	7.10	11.90	11.80	7.50	5.05	4.38	3.83	3.30	2.63	2.40	4.35
Date.	2	24	26	1	1	8	4	4	1	1	15	29
Min.	3.60	3.40	5.00	6.80	5.05	4.37	3.80	3.35	2.62	2.05	1.75	1.78
Date.	25	5	2	23	31	30	31	31	30	31	17	4

RIVER: LITTLE RUHA  
 STATION: IHIMEU  
 STATION NO: LKA.21  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.60	4.45	5.63	8.01	5.94	4.01	3.53	3.20	2.77	2.19	1.80	2.44
2.	3.36	5.07	5.27	8.18	5.75	3.97	3.61	3.18	2.72	2.12	2.37	2.40
3.	3.17	5.75	5.20	8.33	5.47	3.94	3.67	3.15	2.69	2.08	2.40	2.72
4.	3.11	6.72	5.58	10.56	5.27	3.90	3.68	3.11	2.65	2.08	2.05	2.71
5.	3.08	6.17	6.03	8.87	5.12	3.88	3.63	3.08	2.65	2.10	1.92	2.76
6.	3.21	5.42	6.44	9.33	5.00	3.85	3.60	3.05	2.60	2.30	1.92	3.08
7.	3.86	5.83	7.14	8.53	4.89	3.81	3.60	3.04	2.60	2.37	2.98	2.98
8.	4.25	4.65	7.64	8.28	4.83	3.80	3.60	3.01	2.60	2.30	3.12	2.98
9.	4.01	4.64	6.83	7.93	4.79	3.79	3.60	3.00	2.57	2.30	2.36	2.85
10.	3.88	4.60	6.94	7.32	4.81	3.78	3.57	3.00	2.53	2.30	2.16	2.92
Mean.	3.55	5.33	6.27	8.53	5.19	3.87	3.61	3.08	2.64	2.21	2.31	2.78
11.	3.78	4.40	6.77	7.30	4.80	3.75	3.55	2.98	2.50	2.26	1.95	3.90
12.	4.18	4.25	5.93	7.13	4.78	3.75	3.50	2.98	2.48	2.19	1.85	4.42
13.	3.98	4.33	5.72	6.82	4.81	3.73	3.48	2.97	2.45	2.10	1.81	5.35
14.	3.81	4.35	5.67	6.63	4.77	3.72	3.42	2.95	2.40	2.05	1.77	5.49
15.	3.59	4.15	5.50	6.48	4.75	3.70	3.40	2.95	2.38	2.00	1.74	4.96
16.	3.89	4.01	5.93	6.37	4.78	3.70	3.37	2.95	2.36	1.97	1.70	4.66
17.	4.44	4.64	6.29	6.25	4.69	3.69	3.34	2.92	2.34	1.94	1.66	4.47
18.	5.00	4.36	5.85	6.69	4.62	3.68	3.30	2.90	2.32	1.90	1.61	4.39
19.	5.03	4.24	5.86	6.01	4.57	3.67	3.30	2.87	2.30	1.88	1.57	4.44
20.	5.07	4.31	5.68	5.87	4.51	3.65	3.28	2.83	2.30	1.93	1.53	4.49
Mean.	4.28	4.30	5.98	6.50	4.71	3.70	3.39	2.43	2.38	2.02	1.72	4.66
21.	5.07	4.42	5.60	5.80	4.46	3.60	3.25	2.80	2.30	1.94	1.51	4.35
22.	5.54	4.78	5.92	5.73	4.39	3.60	3.24	2.83	2.30	1.90	1.51	3.96
23.	5.28	4.85	6.25	5.64	4.35	3.60	3.22	2.98	2.27	1.88	1.55	3.60
24.	4.61	4.78	6.41	5.57	4.30	3.60	3.20	3.10	2.23	1.84	1.59	3.51
25.	4.09	5.19	6.49	5.57	4.25	3.60	3.20	3.07	2.23	1.80	1.72	3.85
26.	3.89	5.39	6.74	5.73	4.21	3.58	3.20	3.02	2.26	1.79	2.22	3.57
27.	3.88	5.58	6.68	5.70	4.15	3.58	3.19	2.99	2.28	1.78	2.12	4.12
28.	3.81	5.76	6.88	5.79	4.11	3.58	3.17	2.89	2.29	1.77	2.23	4.00
29.	4.16		7.45	5.96	4.09	3.55	3.15	2.85	2.30	1.75	2.18	4.80
30.	4.93		7.33	5.97	4.07	3.55	3.18	2.80	2.23	1.75	2.88	4.35
31.	4.95		7.70		4.01		3.20	2.80		1.75		4.05
Mean.	4.56	5.09	6.68	5.75	4.22	3.58	3.52	2.92	2.27	1.81	1.95	4.01
Monthly Mean.	4.15	4.90	6.30	6.93	4.69	3.72	3.39	2.98	2.43	2.01	1.99	3.82
Max.	5.58	6.80	8.38	13.90	5.95	4.01	3.68	3.20	2.75	2.45	3.45	5.60
Date.	22	4	31	4	1	1	4	1	1	6	7	13
Min.	3.05	3.98	5.13	5.53	4.00	3.55	3.15	2.75	2.20	1.75	1.50	2.30
Date.	5	16	3	24	31	30	29	31	30	31	22	2

RIVER: MTITU  
 STATION: MTITU BRIDGE  
 STATION NO: IKA.22  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.						2.60	2.35	2.30	2.15	2.00	1.91	1.70
2.						2.55	2.30	2.35	2.15	2.00	1.90	1.70
3.						2.53	2.30	2.35	2.15	1.95	1.90	1.70
4.						2.50	2.30	2.30	2.15	1.98	1.90	1.70
5.						2.47	2.30	2.30	2.15	1.95	1.95	1.70
6.						2.50	2.30	2.25	2.15	1.95	1.95	1.75
7.						2.50	2.30	2.25	2.15	1.95	1.90	1.75
8.						2.50	2.30	2.30	2.15	1.95	1.90	1.70
9.						2.50	2.30	2.30	2.10	1.95	1.85	1.70
10.						2.45	2.30	2.30	2.10	1.95	1.85	1.78
Mean.						2.51	2.31	2.30	2.14	1.96	1.90	1.72
11.						2.45	2.30	2.25	2.10	1.91	1.85	2.10
12.						2.45	2.30	2.25	2.05	1.95	1.85	2.10
13.						2.45	2.30	2.20	2.05	1.95	1.85	2.10
14.						2.40	2.30	2.15	2.05	1.95	1.80	2.01
15.						2.40	2.30	2.15	2.00	1.95	1.80	2.20
16.						2.40	2.30	2.20	2.00	1.90	1.80	2.20
17.						2.40	2.30	2.25	2.00	1.95	1.75	2.17
18.						2.40	2.30	2.25	2.00	1.95	1.77	2.40
19.						2.40	2.30	2.25	2.00	1.90	1.78	2.41
20.						2.35	2.37	2.25	2.00	1.90	1.80	2.73
Mean.						2.41	2.31	2.22	2.03	1.93	1.81	2.24
21.						2.35	2.40	2.25	2.00	1.90	1.81	2.53
22.						2.38	2.40	2.25	2.00	1.85	1.80	2.50
23.						2.40	2.40	2.20	1.95	1.85	1.80	2.63
24.						2.40	2.35	2.20	1.95	1.85	1.80	2.81
25.						2.40	2.35	2.20	2.35	1.80	1.75	2.50
26.						2.35	2.35	2.20	2.35	1.80	1.70	2.41
27.					2.65	2.35	2.35	2.15	2.30	1.85	1.75	2.30
28.					2.63	2.35	2.35	2.15	2.20	1.88	1.75	2.23
29.					2.60	2.35	2.30	2.15	2.10	1.90	1.70	2.31
30.					2.55	2.32	2.30	2.15	2.00	1.85	1.70	2.61
31.					2.55		2.30	2.15		1.90		2.60
Mean.						2.37	2.35	2.19	2.12	1.86	1.76	2.49
Monthly Mean.						2.42	2.32	2.23	2.10	1.92	1.82	2.16
Max.						2.60	2.40	2.35	2.35	2.00	1.95	3.00
Date.						1	22	3	26	2	6	24
Min.						2.32	2.30	2.15	1.95	1.80	1.70	2.10
Date.						30	31	31	25	26	30	17

RIVER: MTITU  
 STATION: MTITU  
 STATION NO: IKA.22  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.57	2.10	2.67	5.10	3.55	2.43	2.30	2.20	2.15	1.95	1.75	1.85
2.	2.55	2.05	2.50	4.65	3.32	2.40	2.30	2.20	2.13	1.95	1.80	1.85
3.	2.50	1.95	2.50	4.23	3.37	2.40	2.30	2.20	2.10	1.90	1.80	1.75
4.	2.50	2.08	2.72	4.03	3.20	2.45	2.32	2.20	2.10	1.90	1.80	1.75
5.	2.77	2.11	2.53	3.83	3.12	2.45	2.35	2.20	2.10	1.90	1.75	1.78
6.	2.61	2.37	3.40	3.57	2.98	2.48	2.35	2.20	2.10	1.90	1.75	1.82
7.	2.80	2.27	3.00	3.32	2.93	2.55	2.35	2.20	2.10	1.90	1.70	1.85
8.	2.60	2.30	3.03	3.10	2.82	2.55	2.35	2.20	2.05	1.90	1.70	1.80
9.	2.60	2.35	2.90	2.93	2.72	2.52	2.30	2.20	2.05	1.90	1.70	1.73
10.	2.50	2.45	3.53	2.85	2.67	2.50	2.30	2.20	2.02	1.95	1.70	1.70
Mean.	2.60	2.20	2.88	3.76	3.07	2.47	2.32	2.20	2.09	1.92	1.75	1.79
11.	2.41	2.53	3.10	2.80	2.60	2.50	2.30	2.25	2.00	1.95	1.70	1.70
12.	2.40	2.80	2.78	2.75	2.60	2.50	2.28	2.25	2.00	1.95	1.70	2.13
13.	2.15	2.83	2.80	2.70	2.57	2.43	2.30	2.20	2.00	1.95	1.70	2.25
14.	2.00	2.98	2.63	2.70	2.55	2.40	2.25	2.20	2.00	1.90	1.70	2.23
15.	2.00	3.70	2.78	2.65	2.50	2.40	2.30	2.20	2.00	1.90	1.70	2.37
16.	1.90	3.31	2.75	2.62	2.50	2.40	2.30	2.20	2.00	1.90	1.70	2.35
17.	1.90	3.35	2.82	2.57	2.50	2.40	2.30	2.20	2.00	1.85	1.70	2.13
18.	1.85	3.30	3.32	2.65	2.50	2.38	2.25	2.20	2.00	1.85	1.70	2.10
19.	1.80	3.00	3.23	2.90	2.50	2.38	2.25	2.20	2.05	1.80	1.70	2.10
20.	1.75	2.77	3.65	2.97	2.50	2.38	2.20	2.17	2.05	1.80	1.70	2.11
Mean.	2.02	3.06	2.99	2.73	2.53	2.42	2.27	2.21	2.01	1.89	1.70	2.15
21.	1.77	2.83	3.57	3.00	2.50	2.38	2.20	2.20	2.10	1.80	1.70	2.32
22.	2.08	2.80	3.15	2.92	2.52	2.30	2.20	2.20	2.08	1.80	1.70	2.38
23.	1.98	2.60	3.62	3.08	2.50	2.30	2.20	2.20	2.05	1.80	1.70	2.65
24.	2.00	2.90	3.77	3.28	2.50	2.30	2.20	2.20	2.00	1.80	1.70	2.60
25.	2.03	2.93	3.72	3.40	2.50	2.30	2.20	2.20	1.97	1.75	1.70	2.43
26.	2.27	2.90	4.28	3.67	2.50	2.30	2.20	2.20	1.90	1.75	1.70	2.75
27.	2.53	2.75	4.23	3.80	2.48	2.30	2.20	2.20	1.90	1.80	1.70	2.70
28.	2.45	2.61	4.37	3.75	2.45	2.30	2.20	2.15	1.95	1.80	1.80	2.67
29.	2.27		4.02	3.63	2.45	2.30	2.20	2.15	1.95	1.75	1.85	2.58
30.	2.20		4.22	3.68	2.45	2.30	2.20	2.15	1.92	1.75	1.85	2.43
31.	2.15		4.45		2.45		2.20	2.15		1.75		2.28
Mean.	2.16	2.79	3.95	3.42	2.48	2.31	2.20	2.18	1.98	1.78	1.74	2.53
Monthly Mean.	2.25	2.68	3.29	3.30	2.69	2.40	2.26	2.20	2.03	1.86	1.73	2.17
Max.	2.80	3.75	4.55	5.35	3.65	2.55	2.35	2.25	2.15	1.95	1.85	2.75
Date.	7	15	31	1	1	9	8	12	2	2	30	26
Min.	1.75	1.95	2.50	2.55	2.45	2.30	2.20	2.15	1.90	1.75	1.70	1.70
Date.	21	3	5	17	31	30	31	31	30	31	28	12



RIVER: MPITU  
 STATION: MTITU BRIDGE  
 STATION NO: 1KA.22  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.18	2.62	2.90	3.37	2.97	2.10	2.05	2.10	1.90	1.77	1.65	2.03
2.	1.98	2.78	2.82	3.35	2.90	2.08	2.20	2.10	1.90	1.70	1.90	1.85
3.	1.90	2.92	2.80	3.07	2.75	2.05	2.20	2.00	1.88	1.70	1.78	1.80
4.	1.83	2.85	2.87	2.85	2.57	2.05	2.20	2.00	1.88	1.70	1.70	1.78
5.	1.80	2.77	2.87	2.85	2.47	2.05	2.17	2.00	1.85	1.80	1.70	1.82
6.	1.80	2.77	2.85	2.70	2.40	2.00	2.15	2.00	1.83	1.98	1.70	2.17
7.	2.53	2.90	3.10	2.57	2.35	2.00	2.15	2.00	1.80	1.95	1.73	2.05
8.	2.42	2.70	3.35	2.55	2.30	2.02	2.15	2.00	1.80	1.92	1.75	1.87
9.	2.53	2.62	3.10	2.43	2.27	2.05	2.15	2.00	1.80	1.93	1.73	2.07
10.	2.47	2.62	2.98	2.40	2.35	2.03	2.10	2.00	1.80	1.90	1.70	2.23
Mean.	2.14	2.76	2.96	2.81	2.53	2.04	2.15	2.02	1.84	1.84	1.73	1.97
11.	2.47	2.50	2.83	2.80	2.33	2.02	2.10	2.00	1.80	1.85	1.65	2.55
12.	2.70	2.48	2.68	2.65	2.30	2.05	2.05	1.95	1.80	1.80	1.60	2.60
13.	2.63	2.50	2.68	2.50	2.35	2.05	2.03	1.97	1.80	1.80	1.60	2.88
14.	2.50	2.48	2.60	2.48	2.38	2.05	2.00	2.00	1.75	1.72	1.60	2.80
15.	2.58	2.37	2.52	2.53	2.33	2.05	2.00	1.97	1.75	1.70	1.60	2.85
16.	2.57	2.20	2.77	2.62	2.30	2.02	2.00	1.93	1.75	1.70	1.60	2.85
17.	2.42	2.73	2.97	2.53	2.30	2.02	1.95	1.90	1.75	1.70	1.60	2.87
18.	2.55	2.58	2.85	2.50	2.30	2.05	1.95	1.90	1.77	1.68	1.55	2.82
19.	2.60	2.60	2.88	2.45	2.30	2.05	1.95	1.90	1.80	1.68	1.55	2.80
20.	2.60	2.53	2.88	2.45	2.28	2.05	1.95	1.90	1.80	1.75	1.55	2.72
Mean.	2.56	2.50	2.77	2.55	2.32	2.04	2.00	1.94	1.78	1.74	1.59	2.77
21.	2.60	2.58	2.83	2.48	2.20	2.05	1.95	1.98	1.80	1.70	1.55	2.45
22.	2.57	2.47	3.00	2.48	2.20	2.05	1.95	2.07	1.80	1.70	1.55	2.17
23.	2.35	2.47	3.28	2.47	2.20	2.08	1.95	2.17	1.77	1.70	1.55	2.02
24.	2.25	2.73	3.03	2.50	2.15	2.02	1.95	2.20	1.75	1.70	1.62	2.05
25.	2.05	3.07	3.27	2.55	2.15	2.05	1.95	2.15	1.77	1.65	1.83	2.20
26.	2.00	3.08	3.35	2.63	2.10	2.05	1.95	2.10	1.80	1.65	1.90	2.20
27.	2.13	3.17	3.08	2.80	2.10	2.05	1.95	2.03	1.80	1.65	1.90	2.37
28.	2.27	3.20	3.02	2.97	2.07	2.05	1.95	2.00	1.80	1.65	1.90	2.37
29.	2.68		2.52	3.08	2.10	2.05	1.98	1.95	1.80	1.65	1.97	2.40
30.	2.80		2.43	3.03	2.08	2.05	2.02	1.95	1.80	1.65	2.10	2.50
31.	2.98		3.33		2.10		2.07	1.95		1.65		2.40
Mean.	2.43	2.84	3.01	2.70	2.13	2.05	1.98	2.05	1.79	1.67	1.79	2.28
Monthly Mean.	2.38	2.69	2.92	2.69	2.32	2.04	2.04	2.01	1.80	1.74	1.70	2.34
Max.	3.00	3.20	3.40	3.40	3.00	2.10	2.20	2.20	1.90	2.00	2.10	2.90
Date.	31	28	26	2	1	23	5	24	3	6	30	13
Min.	1.80	2.05	2.40	2.40	2.05	2.00	1.95	1.90	1.75	1.65	1.55	1.75
Date.	6	16	30	10	30	17	29	20	25	31	23	4

RIVER : HUKUNI  
STATION : IYAYI  
NO : IKA.23  
YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.								1.18	1.13	1.03		
2.								1.18	1.13	1.03		
3.								1.18	1.13	1.03		Dry
4.								1.18	1.10	1.03		
5.								1.18	1.10	1.03	River Dry	1.83
6.								1.18	1.10	1.03	River Dry	1.07
7.								1.18	1.10	1.03	River Dry	1.11
8.								1.18	1.10	1.03	River Dry	1.03
9.								1.18	1.10	1.00		1.00
10.								1.18	1.10	0.88		1.05
Mean								1.18	1.11	1.01	0.0	0.71
11.								1.18	1.10	0.85		0.97
12.								1.18	1.10			
13.								1.18	1.10			
14.								1.18	1.10	River Dry	River Dry	River Dry
15.								1.18	1.10	River Dry	River Dry	River Dry
16.								1.18	1.10	River Dry	River Dry	River Dry
17.								1.15	1.10	River Dry	River Dry	
18.								1.15	1.08			0.93
19.								1.15	1.08			Dry
20.								1.15	1.08			
Mean								1.17	1.09	0.09	0.0	0.19
21.								1.15	1.08			
22.								1.15	1.05			1.45
23.								1.15	1.05			1.20
24.								1.15	1.05		River Dry	1.22
25.								1.13	1.05	River Dry	River Dry	1.19
26.								1.13	1.05	River Dry	River Dry	1.13
27.								1.13	1.05	River Dry	River Dry	1.10
28.							1.10	1.13	1.05	River Dry	0.80	1.10
29.							1.10	1.13	1.05	River Dry	0.80	1.10
30.							1.20	1.13	1.05		Dry	1.10
31.							1.18	1.13				1.10
Mean								1.14	1.05	0.0	0.16	1.06
Monthly Mean								1.16	1.08	0.35	0.05	0.67
Max.								1.18	1.13	1.03	0.80	1.68
Date								1-16	1-3	1-8	28/29	22
Min.								1.13	1.05	0.0	0.0	0.0
Date								25-31	22-30	12-31	All month except 28-29	1-4 12-17 19-21

RIVER: UNJAI  
 STATION: IYAI  
 STATION NO: IKA 23  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.07	1.72	1.27	1.86	1.48	1.30	1.22	1.15	1.12	1.03		
2.	1.07	3.84	1.26	2.65	1.45	1.30	1.23	1.15	1.12	1.03		
3.	1.07	2.06	1.30	1.98	1.45	1.30	1.22	1.15	1.12	1.03		
4.	1.10	2.03	1.22	1.57	1.45	1.27	1.20	1.15	1.12	1.03		
5.	1.10	1.62	1.36	1.49	1.50	1.28	1.20	1.15	1.12	1.00		
6.	1.06	1.51	1.90	1.45	1.50	1.27	1.20	1.15	1.12	1.00	D	
7.	1.04	1.96	1.89	1.42	1.50	1.28	1.20	1.15	1.10	1.00	R	
8.	1.11	1.63	1.70	1.40	1.49	1.27	1.20	1.15	1.10	1.00	Y	
9.	1.14	1.40	1.45	1.40	1.46	1.25	1.20	1.15	1.10	1.00		
10.	1.19	1.33	1.35	1.39	1.44	1.25	1.20	1.15	1.08	1.00		
Mean.	1.09	1.91	1.47	1.66	1.47	1.28	1.21	1.15	1.11	1.01		
11.	1.12	1.31	1.30	1.55	1.40	1.25	1.20	1.15	1.08	0.97		
12.	1.12	1.30	1.39	1.43	1.40	1.25	1.20	1.12	1.08	0.97		
13.	1.12	2.14	1.30	2.26	1.40	1.20	1.20	1.12	1.08	0.97	D	
14.	1.11	1.70	1.30	1.99	1.40	1.20	1.20	1.12	1.08	1.00	R	
15.	1.15	1.40	1.30	1.74	1.39	1.20	1.17	1.12	1.08	1.00	Y	
16.	1.12	1.36	1.30	2.40	1.37	1.25	1.20	1.12	1.08	0.97		
17.	1.34	1.32	1.55	2.50	1.38	1.25	1.18	1.12	1.08	0.97		
18.	1.22	1.26	2.79	2.13	1.38	1.25	1.17	1.12	1.08	0.97		0.80
19.	1.15	1.29	1.64	1.69	1.37	1.22	1.18	1.12	1.08	0.97		0.77
20.	1.11	1.46	1.42	1.60	1.35	1.25	1.17	1.12	1.05	0.93		1.30
Mean.	1.15	1.45	1.53	1.93	1.38	1.23	1.19	1.12	1.08	0.97		
21.	1.25	2.07	1.35	1.63	1.35	1.22	1.18	1.12	1.05	0.93		1.11
22.	1.19	1.90	1.35	1.64	1.35	1.23	1.17	1.12	1.05	0.93		1.14
23.	1.20	1.49	1.45	1.58	1.34	1.22	1.18	1.12	1.05	0.95		0.90
24.	1.20	1.30	1.45	1.53	1.32	1.23	1.17	1.12	1.05	0.95	D	1.17
25.	1.24	1.36	1.35	1.50	1.32	1.22	1.18	1.12	1.05	0.95	R	0.79
26.	1.38	1.30	1.34	1.50	1.35	1.23	1.17	1.12	1.05	0.90	Y	0.65
27.	2.08	1.29	1.45	1.50	1.35	1.22	1.18	1.12	1.05	0.88		0.63
28.	1.51	1.27	1.45	1.50	1.30	1.23	1.17	1.12	1.05	0.85		0.60
29.	1.32		1.92	1.47	1.30	1.22	1.15	1.12	1.05	0.80		0.58
30.	1.30		1.71	1.47	1.30	1.22	1.15	1.12	1.05	0.80		0.58
31.	1.55		2.60		1.30		1.15	1.12				1.55
Mean.	1.38	1.49	1.58	1.53	1.32	1.23	1.17	1.12	1.05	0.90		
Monthly Mean.	1.21	1.60	1.53	1.70	1.39	1.24	1.19	1.13	1.08	0.96		
Max.	2.10	2.50	2.90	3.00	1.50	1.30	1.22	1.15	1.12	1.02		
Date.	21	3	18	17	15,8	1-3	1-3	1-11	1-6	1-4		
Min.	1.02	1.22	1.20	1.37	1.30	1.20	1.15	1.12	1.05	0.80		
Date.	7	18	4	10	28-31	13-15	29,30	12,31	20-30	29		

RIVER: HUKUNI  
 STATION: IYAI  
 STATION NO: IKA-23  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.70	0.74	1.77	2.18	1.77	1.00	0.90	0.80	0.70	0.60	0.33	R
2.	1.35	0.70	1.25	2.00	1.54	1.00	0.90	0.80	0.70	0.60	0.34	I
3.	0.94	0.66	1.04	2.00	1.40	0.98	0.90	0.80	0.70	0.60	0.34	V
4.	0.71	0.65	0.97	1.90	1.39	0.98	0.90	0.80	0.70	0.60	0.33	R
5.	0.67	0.70	0.95	1.84	1.32	1.00	0.90	0.80	0.70	0.60	0.40	D
6.	0.62	0.79	0.96	1.80	1.30	1.00	0.90	0.80	0.70	0.60	0.45	R
7.	2.50	1.45	3.61	1.74	1.29	1.00	0.90	0.80	0.70	0.60	0.45	Y
8.	1.30	0.90	2.24	1.70	1.18	1.00	0.90	0.80	0.70	0.60	0.45	
9.	1.21	3.35	3.43	1.66	1.11	1.00	0.90	0.80	0.68	0.60	0.40	
10.	1.00	2.05	2.02	1.60	1.10	1.00	0.90	0.80	0.67	0.60	0.40	
Mean.	1.20	1.20	1.82	1.84	1.34	1.00	0.90	0.80	0.70	0.60	0.39	
11.	0.80	2.00	1.93	1.60	1.10	1.00	0.85	0.80	0.65	0.60	0.38	
12.	0.74	1.95	2.62	1.58	1.09	1.00	0.85	0.80	0.65	0.60	0.35	
13.	0.70	2.07	1.91	1.54	1.08	1.00	0.85	0.80	0.65	0.60	0.28	
14.	0.70	1.80	1.44	1.50	1.08	1.00	0.85	0.80	0.65	0.55	0.22	
15.	0.70	2.85	1.26	1.50	1.08	1.00	0.85	0.80	0.65	0.52	0.22	
16.	0.66	1.90	1.40	1.49	1.08	1.00	0.85	0.80	0.63	0.50	0.10	0.26
17.	0.65	2.19	3.27	1.45	1.07	0.98	0.85	0.75	0.63	0.50	0.10	R
18.	0.64	1.50	2.40	1.43	1.05	0.98	0.85	0.75	0.63	0.46	0.10	I
19.	0.64	1.25	1.90	1.43	1.00	0.98	0.85	0.75	0.63	0.45	0.10	V
20.	0.65	1.20	3.53	1.58	1.00	0.97	0.85	0.75	0.63	0.45	0.10	R
Mean.	0.69	1.87	2.17	1.51	1.06	0.99	0.85	0.78	0.64	0.52		
21.	0.63	1.10	3.83	1.47	1.00	0.95	0.85	0.75	0.63	0.45		0.63
22.	0.63	1.36	4.43	1.40	1.00	0.95	0.85	0.75	0.63	0.40	D	0.65
23.	0.63	1.21	2.90	1.60	1.00	0.93	0.85	0.75	0.63	0.40	R	0.93
24.	0.65	1.14	2.93	1.55	1.00	0.90	0.85	0.75	0.63	0.40	Y	0.78
25.	0.74	1.10	2.97	1.70	1.00	0.90	0.85	0.75	0.63	0.38		0.75
26.	1.80	1.02	2.33	1.73	1.00	0.90	0.85	0.75	0.63	0.38		2.17
27.	3.60	1.01	2.88	1.59	1.00	0.90	0.85	0.75	0.63	0.34		1.27
28.	2.05	1.02	2.30	1.48	1.00	0.90	0.85	0.75	0.63	0.35		0.85
29.	1.65		2.09	1.40	1.00	0.90	0.80	0.75	0.63	0.35		0.72
30.	1.05		2.75	1.60	1.00	0.90	0.80	0.75	0.63	0.34		0.60
31.	0.84		2.45		1.00		0.80	0.75		0.33		0.57
Mean.	1.30	1.12	2.90	1.55	1.00	0.91	0.84	0.75	0.63	0.37		0.63
Monthly Mean.	1.07	1.42	2.31	1.63	1.13	0.97	0.86	0.78	0.66	0.50		
Max.	3.80	3.60	4.90	2.25	1.80	1.00	0.90	0.80	0.70	0.60	0.45	2.20
Date.	27	15	22	1	1	16	10	15	8	13	8	26
Min.	0.60	0.65	0.93	1.40	1.00	0.90	0.80	0.75	0.63	0.33		
Date.	6	4	6	29	31	30	31	31	30	31		

RIVER: HUKUMI  
 STATION: IYAYI  
 STATION NO: IKA.23  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.49	0.40	1.93	2.00	1.15	0.83	0.75	0.70	0.60	0.50	0.40	0.60
2.	0.40	0.40	1.07	3.23	1.12	0.83	0.75	0.70	0.60	0.50	0.72	0.56
3.	0.40	0.57	0.98	3.29	1.10	0.83	0.75	0.70	0.60	0.50	0.62	0.55
4.	0.40	0.90	1.78	2.09	1.08	0.82	0.75	0.70	0.60	0.50	0.57	0.60
5.	0.56	0.73	1.33	1.75	1.05	0.82	0.73	0.70	0.60	0.50	0.53	0.60
6.	0.43	0.60	1.31	1.60	1.05	0.82	0.73	0.70	0.60	0.50	0.83	0.73
7.	0.65	0.57	1.10	1.51	1.05	0.80	0.72	0.70	0.60	0.50	0.72	0.65
8.	0.43	0.42	1.00	1.43	1.05	0.80	0.75	0.70	0.60	0.50	0.65	0.50
9.	0.40	0.40	1.29	1.40	1.05	0.80	0.75	0.70	0.60	0.50	0.58	0.50
10.	0.41	0.40	1.14	1.40	1.03	0.80	0.75	0.70	0.60	0.50	0.50	0.55
Mean.	0.46	0.54	1.29	1.97	1.07	0.82	0.74	0.70	0.60	0.50	0.61	0.58
11.	0.50	0.88	1.00	1.35	1.00	0.80	0.75	0.68	0.60	0.50	0.50	1.07
12.	0.42	0.62	1.73	1.35	1.00	0.80	0.75	0.68	0.60	0.50	0.50	1.30
13.	0.56	0.73	1.21	1.30	0.97	0.80	0.75	0.68	0.60	0.50	0.50	0.95
14.	0.64	0.72	1.09	1.30	0.95	0.80	0.75	0.67	0.60	0.50	0.48	0.90
15.	0.60	0.67	0.95	1.28	0.95	0.80	0.70	0.67	0.58	0.50	0.46	1.33
16.	0.70	0.60	0.92	1.25	0.95	0.80	0.70	0.65	0.58	0.50	0.39	0.84
17.	0.78	0.55	1.50	1.23	0.93	0.80	0.70	0.65	0.58	0.50	0.37	0.98
18.	0.79	1.00	1.30	1.22	0.93	0.80	0.70	0.65	0.58	0.50	0.36	0.80
19.	0.75	0.85	1.30	1.20	0.92	0.80	0.70	0.63	0.57	0.50	0.35	0.74
20.	0.70	0.70	2.27	1.20	0.90	0.80	0.70	0.62	0.57	0.50	0.33	0.69
Mean.	0.64	0.73	1.33	1.27	0.95	0.80	0.72	0.66	0.59	0.50	0.42	0.96
21.	0.60	1.53	1.97	1.17	0.90	0.80	0.70	0.60	0.57	0.50	0.30	0.60
22.	0.52	1.56	2.04	1.15	0.90	0.80	0.70	0.60	0.56	0.50	0.30	0.60
23.	0.50	1.12	2.73	1.15	0.88	0.80	0.70	0.60	0.55	0.50	0.40	0.59
24.	0.45	2.26	1.73	1.14	0.87	0.80	0.70	0.60	0.55	0.50	0.40	0.57
25.	0.40	1.75	3.34	1.10	0.85	0.80	0.70	0.60	0.55	0.48	0.40	0.55
26.	0.40	1.17	2.07	1.12	0.85	0.80	0.70	0.60	0.55	0.47	0.40	0.69
27.	0.45	0.93	5.61	1.10	0.85	0.78	0.70	0.60	0.53	0.45	0.40	0.58
28.	0.38	2.53	2.95	1.20	0.83	0.77	0.70	0.60	0.50	0.43	0.49	0.58
29.	0.38		2.03	1.16	0.83	0.75	0.70	0.60	0.50	0.42	0.52	0.58
30.	0.37		2.85	1.15	0.82	0.75	0.70	0.60	0.50	0.40	0.55	0.56
31.	0.37		2.57		0.82		0.70	0.60		0.40		0.55
Mean.	0.44	1.61	2.67	1.14	0.85	0.79	0.70	0.60	0.54	0.46	0.42	0.59
Monthly Mean.	0.51	0.91	1.71	1.46	0.96	0.80	0.72	0.65	0.57	0.49	0.48	0.71
Max.	0.80	2.90	9.00	5.85	1.15	0.82	0.75	0.70	0.60	0.50	0.90	2.20
Date.	18	28	27	2	1	6	14	10	14	24	6	15
Min.	0.37	0.40	0.90	1.10	0.83	0.75	0.70	0.60	0.50	0.40	0.30	0.50
Date.	31	10	1	27	31	30	31	31	30	31	22	9



RIVER: UMROBO  
 STATION: NEW ROAD  
 STATION NO: 1KA-24  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.50	0.52	0.50	1.53	1.10	0.62	0.52	0.60	0.50	0.53	0.53	0.52
2.	0.50	0.42	0.52	1.52	1.12	0.63	0.53	0.60	0.50	0.52	0.52	0.60
3.	0.50	0.52	0.63	1.43	1.10	0.62	0.52	0.52	0.50	0.43	0.53	0.53
4.	0.50	0.50	0.62	1.32	1.03	0.63	0.53	0.53	0.50	0.42	0.52	0.52
5.	0.52	0.42	0.73	1.30	1.02	0.62	0.52	0.52	0.50	0.50	0.53	0.53
6.	0.50	0.42	0.62	1.23	1.03	0.63	0.53	0.53	0.50	0.60	0.52	0.52
7.	0.50	0.42	0.63	1.20	1.00	0.62	0.52	0.60	0.50	0.63	0.50	0.53
8.	0.50	0.42	0.62	1.12	1.00	0.63	0.53	0.52	0.50	0.62	0.55	0.52
9.	0.52	0.42	0.63	1.10	0.92	0.62	0.55	0.53	0.50	0.63	0.60	0.53
10.	0.50	0.50	0.72	1.03	0.93	0.63	0.55	0.60	0.50	0.60	0.60	0.60
Mean.	0.50	0.46	0.62	1.28	1.03	0.63	0.53	0.56	0.50	0.55	0.54	0.54
11.	0.50	0.40	0.63	1.00	0.92	0.62	0.52	0.52	0.55	0.60	0.60	0.60
12.	0.50	0.50	0.62	1.00	0.90	0.53	0.60	0.53	0.55	0.55	0.53	0.60
13.	0.50	0.52	0.60	1.00	0.90	0.52	0.60	0.52	0.55	0.50	0.52	0.62
14.	0.50	0.50	0.60	0.92	0.90	0.43	0.63	0.53	0.42	0.50	0.53	0.83
15.	0.55	0.50	0.60	0.93	0.83	0.45	0.62	0.52	0.43	0.50	0.52	0.52
16.	0.50	0.42	0.63	0.92	0.82	0.45	0.63	0.60	0.42	0.50	0.53	0.53
17.	0.60	0.50	0.60	0.93	0.83	0.45	0.65	0.60	0.45	0.50	0.52	0.52
18.	0.50	0.62	0.62	0.92	0.80	0.50	0.62	0.60	0.50	0.50	0.53	0.53
19.	0.60	0.60	0.63	0.93	0.80	0.50	0.65	0.60	0.50	0.52	0.52	0.52
20.	0.50	0.52	0.60	0.90	0.72	0.50	0.65	0.60	0.50	0.53	0.50	0.53
Mean.	0.52	0.51	0.61	0.95	0.84	0.50	0.62	0.56	0.49	0.52	0.53	0.58
21.	0.50	0.52	0.62	0.90	0.73	0.50	0.60	0.60	0.55	0.52	0.50	0.52
22.	0.42	0.60	0.63	0.92	0.72	0.50	0.60	0.60	0.45	0.53	0.53	0.53
23.	0.42	0.60	0.72	0.93	0.73	0.50	0.60	0.53	0.45	0.52	0.52	0.52
24.	0.42	0.55	0.70	0.92	0.70	0.50	0.60	0.55	0.60	0.53	0.53	0.53
25.	0.40	0.55	0.73	0.92	0.70	0.42	0.60	0.55	0.60	0.52	0.52	0.52
26.	0.42	0.60	0.80	0.90	0.70	0.43	0.60	0.55	0.55	0.53	0.53	0.53
27.	0.42	0.52	1.62	0.95	0.70	0.42	0.60	0.55	0.55	0.52	0.60	0.52
28.	0.40	0.52	1.60	1.00	0.62	0.43	0.60	0.55	0.55	0.53	0.60	0.53
29.	0.60		1.70	1.13	0.63	0.52	0.53	0.50	0.55	0.50	0.60	0.52
30.	0.42		1.70	1.10	0.62	0.53	0.52	0.50	0.55	0.52	0.60	0.53
31.	0.50		1.60		0.63		0.53	0.50		0.50		0.52
Mean.	0.45	0.45	1.13	0.97	0.68	0.48	0.58	0.54	0.54	0.52	0.55	0.52
Monthly Mean.	0.49	0.50	0.80	1.06	0.84	0.53	0.58	0.55	0.51	0.53	0.54	0.55
Max.	0.60	0.62	1.70	1.52	1.25	0.62	0.65	0.60	0.60	0.62	0.60	0.82
Date.	29	18	30	2	2	11	20	22	25	9	30	14
Min.	0.40	0.40	0.50	0.90	0.62	0.42	0.52	0.50	0.42	0.42	0.50	0.52
Date.	28	11	1	26	31	28	31	31	16	4	21	31





RIVER: GREAT RUANA  
 STATION: KISILWA-MAGANZIPILE  
 STATION NO: IKA-26  
 YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.												
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
Mean.												
11.												
12.												
13.												
14.												
15.												
16.												1.20
17.												3.20
18.												3.20
19.												3.30
20.												3.40
Mean.												
21.												3.50
22.												3.75
23.												3.55
24.												3.70
25.												3.75
26.												3.90
27.												3.90
28.												4.10
29.												4.20
30.												4.00
31.												4.15
Mean.												
Monthly												
Mean.												

Gauge established  
16th December

RIVER: GREAT RUAHA  
 STATION: KISILWA RD.-CR.  
 STATION NO/ IKA.26  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.15	12.25	16.55	13.90	15.00	13.60	9.20	6.70	5.40	4.50	3.70	3.30
2.	4.20	11.80	16.70	13.90	15.00	13.50	9.10	6.70	5.30	4.50	3.70	3.30
3.	4.20	12.10	16.85	13.90	15.10	13.20	8.90	6.60	5.30	4.60	3.70	3.30
4.	4.15	12.85	16.90	13.90	15.10	12.95	8.85	6.60	5.30	4.50	3.70	3.30
5.	4.20	13.60	16.80	13.90	15.10	12.80	8.75	6.50	5.20	4.40	3.70	3.30
6.	4.20	13.65	16.60	13.90	15.10	12.70	8.55	6.50	5.20	4.40	3.60	3.30
7.	4.30	13.50	16.85	13.80	15.20	12.50	8.50	6.40	5.20	4.40	3.60	3.20
8.	4.35	14.05	16.45	13.95	15.50	12.30	8.50	6.40	5.20	4.40	3.60	3.20
9.	4.45	14.00	15.85	13.90	15.50	12.05	8.40	6.30	5.10	4.40	3.60	3.20
10.	4.85	14.20	15.65	13.90	15.50	12.00	8.30	6.30	5.10	4.30	3.60	3.20
Mean.	4.30	13.20	16.52	13.90	15.21	12.76	8.71	6.50	5.23	4.44	3.65	3.26
11.	5.10	13.70	15.65	13.90	15.50	11.80	8.25	6.20	5.10	4.30	3.60	3.20
12.	5.20	14.00	15.60	13.80	15.50	11.60	8.20	6.10	5.00	4.20	3.50	3.20
13.	5.25	14.10	15.70	13.80	15.50	11.50	8.05	6.10	5.00	4.20	3.50	3.20
14.	5.85	14.30	15.60	13.80	15.40	11.30	7.90	6.00	4.90	4.20	3.50	3.20
15.	6.50	14.30	15.55	14.05	15.30	11.10	7.80	6.00	4.90	4.20	3.50	3.20
16.	5.80	14.15	15.60	14.80	15.30	11.00	7.80	5.90	4.90	4.10	3.60	3.25
17.	5.70	14.20	15.60	14.90	15.40	11.45	7.70	5.90	4.80	4.20	3.60	3.45
18.	5.55	14.00	15.55	15.10	15.40	11.00	7.65	5.85	4.80	4.10	3.50	3.60
19.	5.60	13.90	15.50	15.35	15.40	10.95	7.50	5.80	4.80	4.10	3.50	3.60
20.	5.55	14.10	15.50	15.55	15.40	10.65	7.45	5.80	4.80	4.00	3.50	3.65
Mean.	5.61	14.08	15.59	14.51	15.41	11.24	7.83	5.97	4.90	4.16	3.53	3.36
21.	5.50	14.90	15.50	15.70	15.40	10.50	7.40	5.80	4.70	4.00	3.40	3.85
22.	5.50	15.00	15.45	15.70	15.30	10.40	7.40	5.70	4.70	3.90	3.40	4.00
23.	5.50	15.10	15.50	15.70	15.30	10.20	7.30	5.70	4.70	3.90	3.40	4.25
24.	5.60	15.30	15.45	15.70	15.30	9.90	7.20	5.70	4.60	3.90	3.40	4.20
25.	5.70	15.80	15.50	15.70	15.30	9.80	7.10	5.70	4.60	3.90	3.40	4.20
26.	6.20	15.90	15.25	15.65	14.80	9.70	7.10	5.60	4.60	3.90	3.40	4.30
27.	6.20	16.25	14.35	15.60	14.50	9.60	7.00	5.60	4.60	3.90	3.40	4.45
28.	5.90	16.70	14.00	15.60	14.40	9.45	7.00	5.50	4.50	3.80	3.40	4.65
29.	6.30		14.00	15.40	14.05	9.40	6.95	5.50	4.50	3.80	3.40	4.85
30.	6.85		13.90	15.15	13.85	9.30	6.85	5.50	4.60	3.80	3.30	4.80
31.	11.95		13.90		13.75		6.75	5.40		3.70		4.65
Mean.	6.47	15.62	14.80	15.59	14.72	9.83	7.09	5.61	4.61	3.86	3.39	4.38
Monthly												
Mean.	5.49	14.20	15.59	14.66	15.10	11.27	7.85	6.01	4.91	4.15	3.52	3.69
Max.	12.00	16.70	17.20	15.70	15.50	13.60	9.20	6.70	5.40	4.60	3.70	4.90
Date.	31	28	8	21-26	8-13	1	1	1-2	1	3	1-5	29
Min.	4.10	11.60	13.90	13.80	13.70	9.30	6.70	5.40	4.50	3.70	3.30	3.20
Date.	1,4,5	2	30-31	7.12. 14	31	30	31	31	28-29	31	30	7-16

RIVER: GREAT RUANA  
STATION: KISILWA-MAGANZIPILE  
STATION NO: IKA.26  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.80	5.25	7.95	13.38	13.15	10.25	7.10	5.00	4.20	3.60	3.00	2.70
2.	3.80	5.22	8.10	13.38	12.95	10.25	6.95	5.00	4.15	3.60	3.00	2.70
3.	3.84	5.15	8.20	13.38	12.85	10.15	6.90	5.00	4.15	3.60	3.00	2.70
4.	3.92	5.05	8.10	13.38	12.80	10.10	6.80	4.90	4.15	3.60	3.00	2.70
5.	4.00	5.05	8.15	13.38	12.70	10.00	6.75	4.90	4.05	3.50	3.00	2.70
6.	4.08	5.00	8.15	13.38	12.65	9.90	6.70	4.90	4.05	3.45	3.00	2.70
7.	4.25	5.00	8.30	13.38	12.60	9.80	6.65	4.85	4.05	3.45	3.00	2.70
8.	4.42	5.15	8.65	13.38	12.25	9.75	6.60	4.85	4.05	3.40	2.90	2.70
9.	4.50	5.55	8.35	13.38	12.15	9.60	6.50	4.80	4.00	3.40	2.90	2.70
10.	4.40	6.50	8.75	13.38	12.05	9.50	6.45	4.75	4.00	3.40	2.90	2.70
<b>Mean.</b>	<b>4.10</b>	<b>5.29</b>	<b>8.27</b>	<b>13.38</b>	<b>12.62</b>	<b>9.93</b>	<b>6.74</b>	<b>4.90</b>	<b>4.09</b>	<b>3.50</b>	<b>2.97</b>	<b>2.70</b>
11.	4.30	6.85	8.75	13.38	11.90	9.25	6.35	4.60	4.00	3.35	2.90	2.70
12.	4.30	6.75	8.45	13.38	11.80	9.15	6.25	4.55	4.00	3.35	2.90	2.73
13.	4.30	7.00	8.90	13.38	11.65	9.00	6.25	4.50	3.95	3.35	2.90	2.80
14.	4.25	7.30	9.25	13.38	11.50	8.90	6.20	4.50	3.95	3.40	2.90	2.83
15.	4.15	8.30	9.35	13.35	11.40	8.65	6.10	4.50	3.95	3.40	2.80	2.80
16.	4.15	9.75	9.50	13.38	11.30	8.45	6.00	4.50	3.90	3.35	2.80	2.80
17.	4.15	10.30	9.25	13.38	11.25	8.35	5.90	4.45	3.90	3.35	2.80	2.90
18.	4.15	8.60	9.10	13.38	11.20	8.25	5.85	4.45	3.90	3.35	2.80	3.00
19.	4.10	9.40	9.65	13.38	11.20	8.15	5.75	4.45	3.85	3.35	2.80	3.40
20.	4.05	9.85	10.25	13.38	11.10	7.95	5.75	4.45	3.85	3.30	2.80	3.60
<b>Mean.</b>	<b>4.20</b>	<b>8.41</b>	<b>9.25</b>	<b>13.38</b>	<b>11.43</b>	<b>8.61</b>	<b>6.04</b>	<b>4.50</b>	<b>3.93</b>	<b>3.36</b>	<b>2.84</b>	<b>2.96</b>
21.	4.05	9.10	11.00	13.38	10.95	7.90	5.70	4.35	3.85	3.20	2.80	3.70
22.	4.10	9.55	12.30	13.35	10.85	7.90	5.65	4.35	3.75	3.20	2.80	3.80
23.	4.15	9.90	12.80	13.25	10.85	7.75	5.60	4.35	3.75	3.20	2.70	4.70
24.	4.15	9.80	12.90	13.25	10.85	7.70	5.55	4.30	3.75	3.20	2.70	4.70
25.	4.20	9.90	12.95	13.20	10.75	7.60	5.55	4.25	3.70	3.15	2.70	5.40
26.	4.45	9.80	13.05	13.10	10.75	7.50	5.45	4.25	3.70	3.15	2.70	6.17
27.	4.65	8.90	13.05	13.05	10.70	7.45	5.35	4.25	3.70	3.15	2.70	6.80
28.	4.75	8.40	13.10	12.95	10.70	7.35	5.25	4.25	3.65	3.10	2.70	7.00
29.	6.10		13.15	13.15	10.55	7.20	5.25	4.20	3.65	3.10	2.70	6.33
30.	5.50		13.35	13.20	10.45	7.15	5.20	4.20	3.65	3.10	2.70	5.67
31.	5.35		13.35		10.40		5.10	4.20		3.10		5.03
<b>Mean.</b>	<b>4.68</b>	<b>9.42</b>	<b>12.80</b>	<b>13.19</b>	<b>10.70</b>	<b>7.55</b>	<b>5.42</b>	<b>4.27</b>	<b>3.72</b>	<b>3.15</b>	<b>2.72</b>	<b>5.34</b>
<b>Monthly Mean.</b>	<b>4.34</b>	<b>7.58</b>	<b>10.20</b>	<b>13.32</b>	<b>11.55</b>	<b>8.70</b>	<b>6.05</b>	<b>4.54</b>	<b>3.91</b>	<b>3.33</b>	<b>2.84</b>	<b>3.72</b>
<b>Max.</b>	<b>6.20</b>	<b>10.60</b>	<b>13.38</b>	<b>13.38</b>	<b>13.15</b>	<b>10.25</b>	<b>7.10</b>	<b>5.00</b>	<b>4.20</b>	<b>3.60</b>	<b>3.00</b>	<b>7.20</b>
<b>Date.</b>	<b>29</b>	<b>17</b>	<b>31</b>	<b>22</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>7</b>	<b>28</b>
<b>Min.</b>	<b>3.80</b>	<b>4.97</b>	<b>7.87</b>	<b>12.95</b>	<b>10.40</b>	<b>7.15</b>	<b>5.10</b>	<b>4.20</b>	<b>3.61</b>	<b>3.10</b>	<b>2.70</b>	<b>2.70</b>
<b>Date.</b>	<b>3</b>	<b>7</b>	<b>1</b>	<b>28</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>11</b>

RIVER: GREAT RUAHA  
STATION: KISILWA-MAGANZIPILE  
STATION NO: IKA-26  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.45	10.15	13.48	11.50	12.40	11.30	7.65	5.55	4.50	3.70	3.05	2.75
2.	3.50	9.80	13.48	11.50	12.40	11.20	7.55	5.55	4.40	3.70	3.05	2.75
3.	3.50	10.05	13.48	11.50	12.50	10.95	7.40	5.45	4.40	3.80	3.05	2.75
4.	3.45	10.65	13.48	11.50	12.50	10.75	7.35	5.45	4.40	3.70	3.05	2.75
5.	3.50	11.30	13.48	11.50	12.50	10.60	7.25	5.40	4.30	3.65	3.05	2.75
6.	3.50	11.30	13.48	11.50	12.50	10.55	7.10	5.40	4.30	3.65	3.00	2.75
7.	3.55	11.20	13.48	11.45	12.60	10.35	7.05	5.30	4.30	3.65	3.00	2.65
8.	3.60	11.65	13.00	11.55	12.85	10.20	7.05	5.30	4.30	3.65	3.00	2.65
9.	3.70	11.60	13.10	11.50	12.85	10.00	7.00	5.20	4.25	3.65	3.00	2.65
10.	4.00	11.75	12.95	11.50	12.85	9.95	6.90	5.20	4.25	3.55	3.00	2.65
Mean.	3.58	10.95	13.34	11.50	12.60	10.59	7.23	5.38	4.34	3.67	3.03	2.71
11.	4.25	11.35	12.95	11.50	12.85	9.80	6.85	5.15	4.25	3.55	3.00	2.65
12.	4.30	11.60	12.90	11.45	12.85	9.60	6.80	5.05	4.15	3.50	2.90	2.65
13.	4.35	11.70	13.00	11.45	12.85	9.55	6.70	5.05	4.15	3.50	2.90	2.65
14.	4.85	11.85	12.90	11.45	12.75	9.35	6.55	5.00	4.05	3.50	2.90	2.65
15.	5.40	11.85	12.85	11.65	12.65	9.20	6.50	5.00	4.05	3.50	2.90	2.65
16.	4.80	11.70	12.90	12.25	12.65	9.10	6.50	4.90	4.05	3.40	3.00	2.70
17.	4.75	11.75	12.90	12.35	12.75	9.10	6.40	4.90	4.00	3.50	3.00	2.85
18.	4.60	11.60	12.85	12.50	12.75	9.10	6.35	4.85	4.00	3.40	2.90	3.00
19.	4.65	11.50	12.85	12.70	9.10	6.25	4.80	4.85	4.00	3.40	2.90	3.00
20.	4.60	11.70	12.85	12.85	12.75	8.85	6.20	4.80	4.00	3.30	2.90	3.00
Mean.	4.66	11.66	12.90	12.02	12.76	9.28	6.51	4.95	4.07	3.46	2.93	2.78
21.	4.55	12.35	12.85	13.00	12.75	8.70	6.15	4.80	3.90	3.30	2.80	3.20
22.	4.55	12.40	12.80	13.00	12.65	8.65	6.15	4.70	3.90	3.20	2.80	3.30
23.	4.55	12.50	12.85	13.00	12.65	8.45	6.05	4.70	3.90	3.20	2.80	3.50
24.	4.65	12.70	12.80	13.00	12.65	8.20	5.95	4.70	3.80	3.20	2.80	3.50
25.	4.75	13.05	12.85	13.00	12.65	8.15	5.90	4.70	3.80	3.20	2.80	3.50
26.	5.15	13.15	12.65	12.95	12.25	8.05	5.90	4.65	3.80	3.20	2.80	3.55
27.	5.15	13.48	11.90	12.90	12.00	8.00	5.80	4.55	3.80	3.20	2.80	3.70
28.	4.90	13.48	11.60	12.90	11.90	7.85	5.80	4.55	3.70	3.15	2.80	3.85
29.	5.25		11.60	12.80	11.65	7.80	5.75	4.55	3.75	3.15	2.80	4.00
30.	5.70		11.50	12.55	11.50	7.75	5.70	4.55	3.80	3.15	2.75	4.00
31.	9.90		11.50		11.40		5.60	4.50		3.05		3.85
Mean.	5.37	12.89	12.26	12.91	12.19	8.16	5.89	4.63	3.82	3.18	2.80	3.63
Monthly Mean.	4.56	11.76	12.81	12.14	12.50	9.34	6.52	4.98	4.08	3.43	2.92	3.06
Max.	9.90	13.48	13.48	13.00	12.85	11.30	7.65	5.55	4.50	3.80	3.05	4.05
Date.	31	28	7	26	13	1	1	2	1	3	5	29
Min.	3.45	9.60	11.50	11.42	11.34	7.75	5.55	4.50	3.70	3.05	2.75	2.65
Date.	4	2	31	14	31	30	31	31	29	31	30	16



RIVER: GREAT RUAHA  
 STATION: KIKOPUIA  
 STATION NO: IKA-27  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.30	5.65	15.30	10.65	12.10	10.40	7.00	5.25	4.05	3.40	2.60	2.10
2.	2.35	5.15	15.20	10.70	12.10	10.25	7.00	5.20	4.00	3.35	2.60	2.10
3.	2.30	5.50	15.15	10.70	12.20	10.15	6.90	5.20	4.00	3.30	2.60	2.10
4.	2.35	6.60	15.05	10.65	12.25	9.95	6.80	5.20	4.00	3.30	2.60	2.10
5.	2.55	6.55	14.95	10.60	12.30	9.75	6.75	5.10	3.95	3.30	2.50	2.10
6.	3.40	6.40	14.85	10.60	12.45	9.65	6.70	5.10	3.90	3.30	2.50	2.10
7.	2.75	6.35	14.80	10.60	12.50	9.55	6.60	5.00	3.90	3.25	2.50	2.00
8.	2.95	7.40	14.65	10.50	12.50	9.40	6.55	5.00	3.90	3.20	2.50	2.00
9.	2.75	7.80	14.55	10.50	12.50	9.25	6.45	4.90	3.80	3.20	2.50	2.00
10.	2.70	7.85	14.40	10.60	12.50	9.15	6.40	4.90	3.80	3.20	2.40	2.00
Mean.	2.18	6.53	14.89	10.61	12.34	9.75	6.72	5.09	3.93	3.28	2.53	2.06
11.	2.75	9.75	14.30	10.60	12.50	9.05	6.35	4.80	3.80	3.20	2.40	2.00
12.	2.85	10.20	14.20	10.60	12.50	8.95	6.30	4.80	3.70	3.10	2.40	2.10
13.	3.25	10.80	14.10	10.75	12.40	8.65	6.20	4.70	3.70	3.10	2.40	2.10
14.	3.05	11.25	14.00	10.70	12.35	8.50	6.20	4.70	3.70	3.10	2.40	2.10
15.	2.90	12.85	13.90	10.70	12.25	8.35	6.10	4.65	3.70	3.10	2.30	2.65
16.	2.95	14.25	13.80	10.85	12.20	8.25	6.10	4.60	3.70	3.05	2.30	2.55
17.	3.00	14.65	13.65	11.35	12.15	8.15	6.00	4.60	3.60	3.00	2.30	2.40
18.	3.00	14.95	13.55	11.20	12.10	8.00	5.95	4.50	3.60	3.00	2.30	2.25
19.	3.00	15.20	13.40	11.20	11.90	7.90	5.90	4.50	3.60	3.00	2.30	2.20
20.	3.05	15.45	13.30	11.25	11.85	7.80	5.80	4.50	3.60	2.90	2.30	2.20
Mean.	2.98	12.94	13.82	10.82	12.22	8.36	6.09	4.64	3.67	3.06	2.34	2.26
21.	3.20	15.70	13.25	11.75	11.75	7.80	5.75	4.40	3.60	2.90	2.20	2.20
22.	3.20	15.50	12.15	11.50	11.70	7.75	5.70	4.40	3.60	2.90	2.20	2.25
23.	3.30	15.60	11.05	11.55	11.65	7.70	5.70	4.40	3.50	2.80	2.20	4.45
24.	3.55	15.55	11.00	11.60	11.40	7.60	5.60	4.30	3.50	2.80	2.20	2.45
25.	3.45	15.50	10.95	11.65	11.25	7.55	5.60	4.30	3.50	2.80	2.20	2.45
26.	3.50	15.40	10.90	11.75	11.15	7.55	5.50	4.30	3.50	2.80	2.20	2.55
27.	3.60	15.40	10.80	11.80	11.00	7.40	5.50	4.20	3.50	2.80	2.20	2.60
28.	3.70	15.40	10.80	11.90	10.95	7.25	5.45	4.20	3.50	2.70	2.20	2.50
29.	4.20		10.70	11.95	10.80	7.15	5.40	4.10	3.40	2.70	2.10	2.50
30.	5.30		10.70	12.05	10.65	7.10	5.40	4.10	3.40	2.70	2.10	2.60
31.	4.60		10.60		10.55		5.30	4.10		2.70		2.70
Mean.	3.78	15.51	11.17	11.75	11.17	7.49	5.54	4.26	3.50	2.79	2.18	2.66
Monthly Mean.	3.01	11.39	13.23	11.06	11.89	8.53	6.09	4.65	3.67	3.03	2.35	2.33
Max.	5.40	15.70	15.30	12.10	12.50	10.40	7.00	5.30	4.10	3.40	2.60	4.90
Date.	30	21	1	30	12	1	2	1	1	2	4	23
Min.	2.30	5.00	10.60	10.50	10.50	7.10	5.30	4.10	3.40	2.70	2.10	2.00
Date.	4	2	31	9	31	30	31	31	30	31	30	11

RIVER: GREAT RUAHA  
STATION: MKOPULE  
STATION NO: IKA.27  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.80	5.10	7.40	11.95	12.10	8.40	6.07	4.60	3.70	3.00	2.30	1.90
2.	3.00	5.20	7.45	12.15	12.00	8.30	6.00	4.50	3.70	3.00	2.30	1.90
3.	3.50	5.20	7.50	12.55	11.90	8.20	5.90	4.50	3.60	3.00	2.30	1.80
4.	3.10	5.30	7.70	13.85	11.73	8.10	5.80	4.50	3.60	2.90	2.30	1.90
5.	3.10	5.30	7.80	15.05	11.60	8.00	5.80	4.40	3.60	2.90	2.20	1.90
6.	3.10	5.70	7.85	15.30	11.50	7.87	5.80	4.40	3.60	2.80	2.20	1.90
7.	3.30	5.40	8.05	15.45	11.43	7.77	5.70	4.40	3.60	2.80	2.20	2.10
8.	3.30	5.45	8.05	15.55	11.27	7.67	5.70	4.37	3.50	2.80	2.20	2.00
9.	3.40	5.85	8.15	15.60	11.10	7.60	5.60	4.30	3.50	2.80	2.10	1.90
10.	3.50	5.70	8.15	15.60	11.00	7.47	5.60	4.30	3.50	2.80	2.10	1.90
Mean.	3.21	5.42	7.81	14.31	11.56	7.94	5.80	4.43	3.59	2.88	2.22	1.92
11.	3.50	5.70	8.20	15.70	10.90	7.40	5.50	4.30	3.50	2.80	2.10	1.90
12.	3.50	5.80	8.30	15.70	10.80	7.37	5.50	4.20	3.50	2.80	2.10	2.83
13.	3.60	5.80	8.30	15.60	10.70	7.27	5.47	4.20	3.40	2.70	2.00	2.50
14.	3.70	5.90	8.30	15.55	10.60	7.17	5.40	4.10	3.40	2.70	2.00	2.10
15.	3.70	6.35	8.40	15.50	10.47	7.07	5.40	4.10	3.40	2.70	1.90	2.10
16.	3.80	6.00	8.55	15.50	10.30	7.00	5.37	4.10	3.40	2.70	2.00	2.10
17.	3.90	6.00	8.75	15.40	10.30	7.00	5.30	4.00	3.30	2.70	2.00	2.10
18.	3.95	6.20	8.90	15.40	10.20	6.90	5.30	4.00	3.30	2.60	1.90	2.20
19.	4.00	6.20	9.15	15.30	10.06	6.87	5.30	4.00	3.30	2.60	1.90	2.93
20.	4.15	6.30	9.50	15.30	9.93	6.80	5.20	4.00	3.30	2.60	1.90	2.30
Mean.	3.78	6.03	8.64	15.50	10.43	7.09	5.37	4.10	3.38	2.69	1.98	2.31
21.	4.25	6.40	9.65	15.20	9.77	6.67	5.10	4.00	3.20	2.60	1.90	2.60
22.	4.30	6.55	10.00	15.10	9.70	6.60	5.07	3.90	3.20	2.60	1.97	2.70
23.	4.50	6.65	10.20	15.00	9.56	6.56	5.00	3.90	3.20	2.50	1.90	3.27
24.	4.55	6.85	10.45	15.00	9.40	6.50	5.00	3.90	3.20	2.50	1.90	3.37
25.	4.65	7.00	10.65	14.90	9.30	6.40	4.90	3.90	3.10	2.50	1.80	2.90
26.	4.90	7.10	10.90	13.85	9.20	6.36	4.90	3.80	3.10	2.40	1.80	3.37
27.	5.10	7.20	10.90	12.75	9.10	6.30	4.80	3.80	3.10	2.40	1.80	3.20
28.	5.00	7.20	11.25	12.55	8.93	6.27	4.80	3.80	3.00	2.40	1.80	3.30
29.	5.10		11.40	12.35	8.80	6.20	4.70	3.70	3.00	2.40	1.80	3.40
30.	5.10		11.50	12.20	8.70	6.10	4.70	3.70	3.00	2.30	1.90	3.40
31.	5.10		11.75		8.57		4.60	3.70		2.30		3.30
Mean.	4.78	6.87	10.79	13.89	9.18	6.40	4.87	3.83	3.11	2.45	1.86	3.16
Monthly Mean.	3.95	6.05	9.13	14.56	10.35	7.14	5.33	4.11	3.36	2.66	2.02	2.49
Max.	5.10	7.20	11.80	15.70	12.10	8.40	6.10	4.60	3.70	3.00	2.30	3.70
Date.	31	28	31	12	1	1	1	1	2	3	4	24
Min.	2.80	5.10	7.40	11.90	8.50	6.10	4.60	3.70	3.00	2.30	1.80	1.80
Date.	1	1	2	1	31	30	31	31	30	31	29	3

RIVER: GREAT RUAHA  
STATION: MKOPULE  
STATION NO: IKA.27  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.30	5.73	7.20	14.13	12.10	8.37	6.20	4.60	3.60	2.90		
2.	3.33	5.80	7.30	13.77	12.00	8.30	6.20	4.60	3.60	2.90		
3.	3.30	6.00	7.27	13.10	11.77	8.20	6.10	4.50	3.60	2.87		
4.	3.30	6.10	7.30	12.43	11.57	8.10	6.10	4.50	3.50	2.80		
5.	3.30	6.10	7.73	11.30	11.40	8.03	6.00	4.40	3.50	2.80		
6.	3.40	6.13	7.70	11.30	11.30	8.00	6.00	4.40	3.50	2.70		
7.	3.40	6.23	7.30	11.30	11.20	7.87	5.90	4.37	3.40	2.70		
8.	3.90	6.40	11.03	11.40	11.20	7.70	5.90	4.30	3.40	2.70		
9.	3.70	6.43	8.33	11.53	11.20	7.60	5.80	4.30	3.40	2.70		
10.	3.60	6.50	8.60	11.60	11.10	7.57	5.70	4.20	3.40	2.70		
Mean.	3.45	6.14	7.98	12.19	11.48	7.97	5.99	4.42	3.49	2.78		
11.	3.63	6.50	8.60	11.83	10.90	7.50	5.70	4.20	3.40	2.60		
12.	3.80	6.60	8.90	12.00	10.77	7.40	5.67	4.20	3.30	2.60		
13.	3.80	6.73	9.10	12.13	10.70	7.30	5.60	4.10	3.30	2.60		
14.	3.93	6.80	9.10	12.30	10.57	7.30	5.57	4.10	3.30	2.60		
15.	4.20	6.80	9.30	12.40	10.50	7.20	5.50	4.10	3.30	2.60		
16.	4.00	6.83	9.50	12.50	10.40	7.20	5.50	4.00	3.20	2.50		
17.	4.00	7.00	9.50	12.50	10.27	7.10	5.40	4.00	3.20	2.50		
18.	4.20	7.10	9.57	12.60	10.17	7.00	5.37	4.00	3.20	2.50		
19.	4.20	7.07	9.60	12.60	9.87	7.00	5.30	3.90	3.20	2.50		
20.	4.30	7.00	10.10	12.60	9.80	6.90	5.20	3.90	3.10	2.50		
Mean.	4.01	6.84	9.33	12.35	10.40	7.19	5.48	4.05	3.25	2.55		
21.	4.40	7.10	9.00	12.60	9.80	6.80	5.20	3.90	3.10	2.50		
22.	4.40	7.17	11.20	12.60	9.70	6.70	5.17	3.90	3.10	2.40		
23.	4.60	7.13	11.40	12.57	9.60	6.70	5.10	3.80	3.10	2.40		
24.	4.60	7.20	11.67	12.50	9.50	6.67	5.00	3.80	3.00	2.40		
25.	4.63	7.23	11.83	12.50	9.40	6.60	5.00	3.80	3.00	2.30		
26.	4.73	7.30	11.60	12.50	9.20	6.50	4.90	3.80	3.00	2.30		
27.	4.80	7.20	11.70	12.50	9.00	6.50	4.90	3.70	3.00	2.30		
28.	4.90	7.20	11.77	12.47	8.90	6.40	4.80	3.70	3.00	2.30		
29.	5.30		14.33	12.40	8.77	6.30	4.80	3.70	2.90	2.30		
30.	5.33		14.40	12.17	8.67	6.30	4.70	3.70	2.90	2.30		
31.	5.50		14.27		8.57		4.70	3.60		2.20		
Mean.	4.84	7.19	12.11	12.48	9.19	6.55	4.93	3.76	3.01	2.34		
Monthly Mean.	4.12	6.69	9.87	12.34	10.32	7.24	5.45	4.07	3.25	2.55		
Max.	5.50	7.30	14.40	14.20	12.10	8.40	6.20	4.60	3.60	2.90		
Date.	31	26	30	1	1	1	1	2	3	3		
Min.	3.30	5.70	7.20	11.30	8.50	6.30	4.70	3.60	2.90	2.20		
Date.	5	1	4	7	31	30	31	31	30	31		



RIVER: NJOMBE  
 STATION: IFUMBA  
 STATION NO: IKA.29  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		3.90	6.70	10.00	4.40	2.20	1.60	1.00	0.30			
2.		3.25	6.13	12.50	5.50	2.20	1.60	1.00	0.30			
3.		3.00	5.60	10.50	6.50	2.10	1.57	1.00	0.30			
4.		2.75	5.03	7.70	7.25	2.10	1.50	0.90	0.30			
5.	DRY	2.65	4.50	7.00	7.15	2.10	1.50	0.90	0.30		DRY	
6.		2.65	4.00	6.00	6.00	2.10	1.50	0.90	0.30			
7.		2.65	3.43	5.70	5.50	2.00	1.50	0.90	0.20			
8.		2.65	3.20	5.40	5.00	2.00	1.50	0.90	0.20			
9.		3.15	4.50	5.00	4.60	2.00	1.50	0.80	0.20			
10.		3.00	5.03	4.90	4.00	2.00	1.40	0.80	0.10			
Mean.		2.97	4.81	7.47	5.60	2.08	1.52	0.91	0.25			
11.	0.50	3.00	4.43	4.73	3.47	2.00	1.40	0.80	0.10			
12.	0.50	2.75	3.67	4.27	3.23	1.90	1.40	0.80				
13.	0.50	4.95	3.20	3.73	3.13	1.90	1.40	0.77				
14.	0.50	5.40	3.50	3.30	3.10	1.90	1.30	0.70				
15.	0.50	7.90	4.03	3.00	3.00	1.90	1.30	0.70			DRY	
16.	0.70	8.00	4.47	2.90	2.93	1.90	1.30	0.70				
17.	0.70	7.25	4.80	2.80	2.90	1.80	1.30	0.70				
18.	1.25	6.35	4.40	2.80	2.80	1.80	1.30	0.60				
19.	1.25	7.10	6.90	2.70	2.80	1.80	1.20	0.60				3.33
20.	1.25	8.15	6.43	2.70	2.73	1.80	1.20	0.60				3.13
Mean.	0.77	6.09	4.58	3.29	3.01	1.87	1.31	0.70				
21.	1.80	7.00	7.83	2.70	2.70	1.80	1.20	0.60				4.27
22.	1.80	5.70	10.70	2.63	2.60	1.70	1.20	0.60				3.70
23.	2.00	10.00	12.50	2.60	2.53	1.70	1.20	0.50				5.17
24.	3.00	8.85	12.10	2.50	2.50	1.70	1.20	0.50				6.20
25.	4.00	8.40	11.20	2.60	2.50	1.70	1.20	0.50		DRY		7.27
26.	5.00	7.35	10.40	2.60	2.40	1.60	1.10	0.50				8.73
27.	7.75	7.15	8.90	2.60	2.40	1.60	1.10	0.50				10.40
28.	7.25	6.75	8.35	2.80	2.33	1.60	1.10	0.40				9.50
29.	6.75		7.80	3.27	2.30	1.60	1.10	0.40				6.00
30.	5.75		6.70	3.80	2.27	1.60	1.00	0.40				4.77
31.	4.75		8.85		2.20		1.00	0.40				4.33
Mean.	4.53	7.65	9.58	2.81	2.43	1.66	1.13	0.48				6.39
Monthly Mean.		5.42	6.42	4.52	3.64	1.87	1.31	0.69				
Max.	7.75	10.00	12.80	12.50	7.25	2.20	1.60	1.00	0.30			10.90
Date.	27	23	23	2	5	2	3	3	6			27
Min.		2.65	3.00	2.50	2.20	1.60	1.00	0.40				
Date.		8	8	24	31	30	31	31				

RIVER: KISIGO  
 STATION: ILAZO  
 STATION NO: IKA.30  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	D	7.83	5.68	3.70	14.03							
2.	R	6.82	5.50	3.54	13.38							
3.	Y	7.70	5.44	3.50	13.33							
4.		7.57	5.15	3.45	13.08							
5.	1.97	7.43	4.91	3.38	12.61							
6.	2.70	7.03	4.80	5.23	12.09			R I V E R		D R Y		
7.	4.32	8.53	4.70	5.13	11.68							
8.	4.00	8.30	4.55	4.95	11.00							
9.	3.48	8.03	4.32	4.89	10.60							
10.	3.96	7.55	4.15	4.65	10.00							
Mean.	2.04	7.68	4.92	4.24	12.23							
11.	4.73	7.31	4.03	4.51	9.40							
12.	4.72	7.40	4.00	4.34	8.60							
13.	8.07	7.42	3.90	4.60	7.90							
14.	6.88	7.40	3.83	4.66	7.20			R I V E R		D R Y		
15.	9.04	7.54	4.00	4.70	6.60							
16.	5.64	8.10	4.03	5.07	6.00							
17.	8.62	7.68	4.22	5.01	5.35							
18.	5.77	7.40	4.10	5.21	4.76							
19.	5.03	7.12	4.05	5.10	4.25							
20.	5.33	6.84	4.00	5.41	4.20							
Mean.	6.38	7.42	4.02	4.86	6.43							
21.	5.03	6.78	4.00	6.47	4.15							
22.	4.97	6.71	4.10	6.91	4.13							
23.	4.70	6.74	4.52	7.83	4.10							
24.	4.41	6.60	4.58	8.33								
25.	4.20	6.57	4.33	9.17				R I V E R		D R Y		
26.	4.77	6.29	4.00	9.43								
27.	7.41	6.13	3.93	10.12								3.20
28.	6.62	5.80	3.90	11.75								3.97
29.	6.13		3.82	12.98								3.52
30.	5.92		3.70	14.70								5.65
31.	7.52		3.70									4.85
Mean.	5.61	6.45	4.05	9.77								
Monthly												
Mean.	4.71	7.24	4.32	6.29								
Max.	9.40	8.55	5.70	14.70	14.10							
Date.	17	7	1	30	1							
Min.	Dry	5.80	3.70	3.35								
Date.	1-4	28	31	5								

Gauge silted up from 24th May.





RIVER: LITTLE RUAHA  
 STATION: MAWANDE  
 STATION NO: IKA.31  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.40	5.80	4.00	5.35	6.36	4.00	3.11	2.70	2.17	1.77	1.10	0.70
2.	2.55	5.50	3.95	5.57	6.25	3.98	3.00	2.70	2.10	1.70	1.10	0.70
3.	2.65	6.80	4.50	5.85	6.10	3.91	3.00	2.70	2.10	1.70	1.10	0.70
4.	2.70	5.95	3.85	5.90	5.97	3.80	3.01	2.60	2.10	1.72	1.10	0.65
5.	2.75	9.15	3.60	6.45	5.85	3.80	2.90	2.60	2.10	1.60	1.07	0.61
6.	2.80	6.95	3.60	6.17	5.83	3.80	2.90	2.60	2.10	1.60	1.00	0.72
7.	3.05	6.80	3.85	5.90	5.97	3.78	2.90	2.60	2.10	1.57	1.00	0.72
8.	3.05	8.45	3.77	5.72	5.85	3.70	2.90	2.63	2.07	1.50	1.00	0.72
9.	3.20	7.15	3.72	5.65	5.70	3.70	2.88	2.50	2.00	1.50	1.00	0.60
10.	3.25	6.35	4.08	5.57	5.65	3.70	2.80	2.50	2.00	1.50	1.00	0.60
Mean.	2.84	6.89	3.89	5.81	5.95	3.82	2.94	2.61	2.08	1.62	1.05	0.67
11.	3.10	6.15	3.82	5.55	5.63	3.70	2.80	2.50	2.00	1.47	1.00	0.60
12.	3.20	5.70	3.57	5.63	5.50	3.60	2.80	2.50	2.00	1.40	0.97	0.63
13.	3.45	5.45	3.50	6.17	5.50	3.60	2.80	2.50	2.00	1.40	0.90	0.75
14.	3.60	5.30	3.55	5.77	5.51	3.60	2.80	2.50	2.02	1.40	0.90	0.95
15.	3.60	5.20	3.40	8.47	5.45	3.58	2.80	2.51	1.90	1.40	0.90	1.11
16.	3.70	5.15	3.37	9.43	5.33	3.50	2.80	2.40	1.90	1.40	0.87	1.05
17.	3.80	5.05	3.60	10.63	5.03	3.50	2.70	2.40	1.90	1.42	0.80	1.05
18.	3.65	4.80	3.70	10.27	5.07	3.50	2.70	2.41	1.90	1.30	0.80	1.20
19.	3.50	5.15	3.65	13.13	5.00	3.48	2.70	2.30	1.92	1.30	0.80	1.35
20.	3.50	5.00	3.62	10.58	5.00	3.40	2.70	2.30	1.87	1.30	0.80	1.95
Mean.	3.51	5.29	3.58	8.56	5.30	3.55	2.76	2.43	1.94	1.38	0.87	1.06
21.	3.30	5.05	3.82	9.83	4.77	3.40	2.70	2.30	1.80	1.30	0.80	1.77
22.	3.60	5.05	3.75	9.70	4.55	3.35	2.70	2.30	1.80	1.32	0.80	2.15
23.	3.55	5.00	3.82	9.21	4.40	3.30	2.70	2.30	1.82	1.20	0.80	2.20
24.	3.70	5.00	3.95	8.48	4.40	3.28	2.70	2.30	1.70	1.20	0.80	2.17
25.	3.60	4.90	3.92	8.03	4.30	3.20	2.70	2.30	1.70	1.20	0.80	2.18
26.	3.65	4.60	3.82	7.51	4.33	3.20	2.70	2.30	1.70	1.20	0.78	2.43
27.	3.60	4.30	4.02	7.18	4.23	3.20	2.70	2.22	1.70	1.20	0.70	2.55
28.	3.70	4.10	4.32	6.95	4.20	3.18	2.70	2.20	1.82	1.17	0.70	2.32
29.	3.85		5.05	6.67	4.17	3.10	2.70	2.20	1.92	1.10	0.70	2.15
30.	4.20		5.42	6.47	4.11	3.10	2.70	2.20	1.80	1.10	0.70	2.32
31.	4.25		5.30		4.01		2.70	2.20		1.10		2.35
Mean.	3.72	4.75	4.29	8.00	4.34	3.23	2.70	2.26	1.78	1.19	0.76	2.24
Monthly Mean.	3.37	5.71	3.93	7.46	5.13	3.53	2.80	2.43	1.93	1.39	0.89	1.35
Max.	4.30	10.50	5.45	13.50	6.40	4.05	3.15	2.75	2.25	1.85	1.15	2.65
Date.	31	5	30	19	1	2	1	3	1	1	5	27
Min.	2.40	4.00	3.30	5.30	4.00	3.10	2.70	2.20	1.70	1.10	0.70	0.60
Date.	1	28	16	1	31	29,30	17-31	28-31	24,27	29-31	27-30	4.5 9-12

RIVER: LITTLE RUAHASTATION: MAWANDE-STATION NO: IKA.31YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.32	2.67	3.80	7.45	5.58	3.50	2.80	2.10	1.80	1.15	0.70	0.50
2.	2.57	2.50	3.85	7.75	5.68	3.48	2.80	2.10	1.78	1.10	0.70	0.50
3.	2.65	2.25	3.67	9.23	5.61	3.40	2.82	2.10	1.70	1.10	0.62	0.50
4.	2.67	2.18	3.50	9.48	5.52	3.40	2.70	2.10	1.70	1.10	0.60	0.62
5.	2.73	2.10	3.45	8.30	5.41	3.40	2.70	2.03	1.70	1.10	0.60	0.60
6.	2.82	2.12	3.70	7.63	5.30	3.40	2.70	2.00	1.65	1.10	0.60	0.55
7.	2.82	2.03	5.15	7.38	5.28	3.35	2.70	2.00	1.60	1.05	0.60	0.48
8.	2.75	2.25	4.20	7.47	5.08	3.30	2.70	2.00	1.60	1.00	0.60	0.75
9.	2.83	2.38	4.27	7.08	4.92	3.30	2.72	2.00	1.60	1.00	0.52	0.60
10.	2.82	2.45	4.18	6.68	4.78	3.30	2.60	2.00	1.58	1.00	0.50	0.60
Mean.	2.70	2.29	3.98	7.85	5.32	3.38	2.72	2.04	1.67	1.07	0.60	0.57
11.	2.70	2.50	3.97	6.38	4.60	3.30	2.60	1.95	1.50	1.00	0.50	0.68
12.	2.68	3.32	3.80	6.22	4.47	3.32	2.60	1.90	1.50	1.00	0.50	0.60
13.	2.60	5.02	3.85	6.01	4.31	3.20	2.60	1.90	1.50	1.00	0.50	0.60
14.	2.62	4.45	4.08	5.88	4.20	3.20	2.55	1.98	1.50	1.00	0.50	0.62
15.	2.52	3.78	3.87	5.68	4.15	3.20	2.50	2.00	1.48	1.00	0.50	1.17
16.	2.40	2.53	3.70	5.62	4.08	3.12	2.48	2.00	1.40	1.00	0.50	1.20
17.	2.40	3.52	3.60	5.48	4.02	3.10	2.40	2.00	1.40	0.95	0.55	1.20
18.	2.40	4.12	3.78	5.38	3.90	3.10	2.40	1.95	1.40	0.90	0.57	1.32
19.	2.35	4.35	4.35	5.28	3.88	3.10	2.40	1.90	1.40	0.90	0.50	1.40
20.	2.30	4.25	4.58	5.20	3.80	3.11	2.40	1.90	1.40	0.90	0.50	1.80
Mean.	2.50	3.88	3.96	5.71	4.14	3.18	2.49	1.95	1.45	0.97	0.51	1.06
21.	2.32	4.32	6.70	5.38	3.82	3.00	2.35	1.90	1.40	0.90	0.50	1.77
22.	2.28	4.88	8.95	5.38	3.70	3.00	2.30	1.90	1.40	0.82	0.50	1.62
23.	2.63	3.75	9.33	5.40	3.70	3.00	2.32	1.90	1.35	0.80	0.45	1.72
24.	2.20	3.60	8.35	5.42	3.75	3.02	2.20	1.90	1.30	0.80	0.40	2.07
25.	2.20	3.65	7.87	5.50	3.70	2.90	2.20	1.88	1.30	0.80	0.45	2.10
26.	2.15	3.82	10.75	5.30	3.70	2.90	2.20	1.80	1.30	0.80	0.50	2.40
27.	2.53	3.90	9.77	5.30	3.72	2.90	2.20	1.80	1.25	0.72	0.50	2.33
28.	2.52	3.92	10.12	5.27	3.60	2.90	2.20	1.80	1.20	0.70	0.50	2.45
29.	2.58		10.22	5.28	3.60	2.85	2.18	1.80	1.20	0.70	0.50	2.30
30.	2.70		8.97	5.40	3.61	2.80	2.10	1.80	1.20	0.70	0.50	2.35
31.	2.55		8.15		3.50		2.10	1.80		0.70		2.33
Mean.	2.42	3.98	9.02	5.36	3.67	2.93	2.21	1.84	1.29	0.77	0.48	2.13
Monthly Mean.	2.54	3.34	5.76	6.31	4.35	3.16	2.47	1.94	1.47	0.93	0.53	1.28
Max.	3.00	5.10	13.20	9.80	5.75	3.55	2.85	2.10	1.80	1.20	0.70	2.50
Date.	6	21	26	4	2	2	3	4	2	1	2	28
Min.	2.10	2.00	3.40	5.20	3.50	2.80	2.10	1.80	1.20	0.70	0.40	0.45
Date.	26	7	5	27	31	30	31	31	30	31	24	7

RIVER: LITTLE RUAHA  
STATION: MAWANDE  
STATION NO: IKA.31  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.27	2.63	3.42	5.13	3.30	2.20	1.80	1.40	1.00	0.60		
2.	2.07	3.00	3.43	5.12	3.30	2.20	1.80	1.40	1.00	0.60		
3.	1.85	3.13	3.41	5.45	3.58	2.20	1.80	1.40	1.00	0.60		
4.	1.82	3.05	3.40	5.48	3.50	2.20	1.80	1.40	1.00	0.60		
5.	1.60	3.28	3.48	5.53	3.52	2.15	1.83	1.40	1.00	0.60		
6.	1.55	3.38	3.33	5.60	3.38	2.10	1.90	1.40	1.00	0.60		
7.	1.50	3.42	3.40	6.15	3.30	2.10	1.90	1.40	1.00	0.60		
8.	1.62	3.72	3.55	6.22	3.25	2.08	1.88	1.40	1.00	0.60		
9.	2.22	3.67	4.03	6.32	3.08	2.00	1.80	1.35	1.00	0.70		
10.	2.38	3.52	4.00	6.02	3.00	2.00	1.80	1.30	1.00	0.70		
Mean.	1.89	3.28	3.55	5.70	3.32	2.12	1.83	1.39	1.00	0.62		
11.	2.28	3.45	4.17	5.42	2.97	2.00	1.80	1.30	0.92	0.70		
12.	2.17	3.28	4.25	5.58	2.90	2.00	1.80	1.30	0.90	0.70		
13.	2.13	3.18	4.02	5.42	2.85	2.03	1.80	1.30	0.90	0.65		
14.	2.32	2.85	3.98	5.08	2.80	2.10	1.75	1.30	0.90	0.60		
15.	2.20	2.78	3.93	5.02	2.80	2.10	1.70	1.30	0.90	0.60		
16.	2.55	2.82	3.68	4.72	2.80	2.00	1.70	1.30	0.90	0.58		
17.	2.38	3.53	3.95	4.52	2.70	2.00	1.70	1.30	0.90	0.50		
18.	2.37	3.12	3.50	4.37	2.70	1.92	1.65	1.30	0.85	0.50		
19.	2.55	3.12	3.50	4.28	2.70	1.90	1.60	1.25	0.80	0.50		
20.	2.73	2.87	3.75	3.92	2.70	1.90	1.60	1.20	0.80	0.45		
Mean.	2.37	3.10	3.87	4.83	2.79	2.00	1.71	1.29	0.88	0.59		
21.	2.82	2.65	3.85	3.70	2.68	1.90	1.60	1.20	0.80	0.40		
22.	2.97	2.75	3.85	3.55	2.60	1.90	1.58	1.20	0.80	0.40		
23.	2.87	2.88	4.17	3.48	2.55	1.90	1.50	1.18	0.80	0.40		
24.	2.62	2.95	3.98	3.55	2.50	1.90	1.50	1.10	0.70	0.40		
25.	3.05	3.13	3.85	3.52	2.50	1.90	1.50	1.10	0.70	0.38		
26.	2.98	3.17	5.20	3.40	2.40	1.85	1.50	1.10	0.70	0.30		
27.	2.70	3.25	4.90	3.38	2.40	1.80	1.50	1.10	0.70	0.30		
28.	2.33	3.38	5.15	3.30	2.35	1.80	1.50	1.10	0.70	0.30		
29.	2.45		4.93	3.40	2.30	1.80	1.48	1.02	0.62	0.30		
30.	2.45		5.70	3.42	2.30	1.80	1.40	1.00	0.60	0.30		
31.	2.50		6.25		2.28		1.40	1.00		0.30		
Mean.	2.70	3.02	4.71	3.47	2.44	1.86	1.50	1.10	0.71	0.34		
Monthly Mean.	2.33	3.14	4.06	4.67	2.83	1.99	1.67	1.25	0.86	0.51		
Max.	3.15	4.05	6.80	6.50	3.65	2.25	1.95	1.45	1.05	0.75		
Date.	25	17	30	8	3	5	8	9	11	13		
Min.	1.50	2.60	3.30	3.30	2.30	1.80	1.40	1.00	0.60	0.30		
Date.	7	21	6	28	31	30	31	31	30	31		

RIVER: LITTLE RUMBA  
 STATION: S.H. CLUB  
 STATION NO: IKA.32  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.							9.03	8.33	7.54	6.83	6.13	5.73
2.							9.04	8.33	7.58	6.80	6.15	5.75
3.							9.02	8.36	7.47	6.80	6.15	5.76
4.							8.95	8.30	7.43	6.77	6.15	5.77
5.							8.94	8.23	7.46	6.74	6.10	6.03
6.							8.96	8.27	7.45	6.72	6.10	5.92
7.							8.98	8.17	7.40	6.70	6.10	5.90
8.							8.90	8.13	7.37	6.63	6.07	5.90
9.							8.83	8.13	7.33	6.68	6.04	5.83
10.							8.84	8.16	7.36	6.63	6.04	5.85
Mean.							8.95	8.24	7.44	6.73	6.10	5.84
11.							8.84	8.10	7.38	6.60	6.05	5.88
12.							8.80	8.03	7.33	6.53	6.00	5.85
13.							8.73	8.03	7.27	6.58	6.00	5.87
14.							8.77	8.03	7.23	6.53	6.00	6.03
15.							8.67	8.00	7.25	6.50	5.97	6.05
16.							8.65	7.93	7.23	6.43	5.93	6.10
17.							8.64	7.96	7.17	6.43	5.95	6.10
18.							8.57	7.93	7.14	6.45	5.95	6.18
19.							8.53	7.83	7.14	6.42	5.97	6.58
20.							8.55	7.83	7.10	6.40	5.95	7.15
Mean.							8.68	7.97	7.22	6.49	5.98	6.18
21.							8.55	7.86	7.07	6.37	5.90	7.08
22.							8.50	7.83	7.04	6.33	5.90	8.25
23.							8.43	7.81	7.02	6.35	5.90	8.19
24.							8.45	7.73	7.00	6.33	5.90	8.52
25.							8.51	7.76	6.95	6.30	5.88	8.43
26.						9.15	8.50	7.75	6.94	6.25	5.85	8.10
27.						9.16	8.50	7.67	6.92	6.23	5.83	7.87
28.						9.10	8.43	7.63	6.90	6.23	5.80	7.68
29.						9.10	8.43	7.64	6.88	6.25	5.80	7.57
30.						9.11	8.47	7.60	6.85	6.23	5.79	7.95
31.							8.40	7.55		6.20		7.20
Mean.							8.47	7.71	6.96	6.28	5.86	7.93
Monthly Mean.							8.70	7.96	7.21	6.50	5.98	6.70
Max.							9.05	8.38	7.58	6.85	6.18	8.60
Date.							3	3	2	1	4	24
Min.							8.40	7.53	6.85	6.20	5.78	5.73
Date.							31	31	30	31	30	1



RIVER: LITTLE RUANA  
 STATION: S.H. CLUB  
 STATION NO: IKA/32  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	7.76	7.57	8.70	12.20	10.87	9.14	8.34	7.60	7.06	6.38	5.88	5.73
2.	7.72	7.50	9.08	12.20	10.76	9.12	8.35	7.53	7.03	6.34	5.86	5.70
3.	7.87	7.52	9.24	12.18	10.67	9.07	8.30	7.52	7.00	6.36	5.85	5.70
4.	8.05	7.92	9.75	12.17	10.60	9.05	8.30	7.55	6.99	6.33	5.83	5.69
5.	8.06	7.91	9.90	12.10	10.52	9.02	8.30	7.55	6.95	6.30	5.81	5.68
6.	8.38	8.38	9.52	12.02	10.47	9.00	8.30	7.52	6.90	6.30	5.80	5.80
7.	9.08	8.22	9.25	11.90	10.42	9.00	8.23	7.50	6.89	6.28	5.80	5.82
8.	9.53	7.95	9.22	11.75	10.33	8.94	8.22	7.50	6.85	6.26	5.80	5.88
9.	9.50	8.13	9.03	11.60	10.25	8.93	8.22	7.43	6.80	6.25	5.77	5.88
10.	9.18	8.17	8.98	11.42	10.17	8.90	8.25	7.45	6.80	6.22	5.74	5.88
Mean.	8.51	7.93	9.27	11.95	10.51	9.02	8.28	7.52	6.93	6.30	5.81	5.78
11.	9.14	8.38	9.32	11.32	10.10	8.90	8.24	7.45	6.80	6.20	5.71	5.88
12.	9.30	9.23	10.25	11.17	10.02	8.90	8.20	7.45	6.79	6.20	5.70	5.87
13.	9.07	9.45	11.22	11.03	9.96	8.90	8.13	7.47	6.76	6.20	5.70	5.87
14.	8.86	9.73	11.33	10.95	9.92	8.85	8.15	7.40	6.75	6.20	5.70	5.87
15.	8.78	10.08	11.37	10.83	9.85	8.85	8.13	7.40	6.70	6.20	5.70	6.10
16.	8.60	10.28	11.35	10.80	9.77	8.82	8.10	7.35	6.69	6.19	5.70	6.28
17.	8.41	10.43	11.55	10.75	9.72	8.75	8.06	7.33	6.66	6.16	5.70	6.46
18.	8.25	10.55	11.38	10.70	9.68	8.75	8.03	7.35	6.63	6.15	5.70	6.41
19.	8.00	10.52	11.27	10.70	9.61	8.75	8.00	7.32	6.60	6.15	5.70	6.60
20.	7.82	10.35	11.37	10.70	9.57	8.70	7.94	7.30	6.60	6.11	5.70	6.81
Mean.	8.62	9.90	11.04	10.90	9.82	8.82	8.10	7.38	6.70	6.18	5.70	6.22
21.	7.65	10.10	12.40	10.62	9.55	8.63	7.92	7.30	6.60	6.10	5.70	6.98
22.	7.52	9.77	12.32	10.60	9.50	8.60	7.87	7.25	6.59	6.10	5.69	7.20
23.	7.66	9.47	12.20	10.60	9.46	8.57	7.85	7.25	6.55	6.04	5.68	7.28
24.	7.42	9.22	12.20	10.65	9.43	8.56	7.80	7.20	6.52	6.05	5.80	7.32
25.	7.30	8.95	12.00	10.70	9.40	8.50	7.77	7.20	6.50	6.02	5.80	7.33
26.	7.23	8.75	11.93	10.64	9.35	8.50	7.76	7.20	6.50	6.00	5.80	7.38
27.	7.35	8.70	12.17	10.68	9.35	8.43	7.70	7.17	6.46	6.00	5.78	7.38
28.	7.37	8.77	12.12	10.80	9.32	8.46	7.65	7.15	6.45	5.96	5.75	7.31
29.	8.12		12.01	10.87	9.27	8.40	7.63	7.12	6.40	5.94	5.75	7.28
30.	8.17		12.08	11.07	9.25	8.37	7.63	7.10	6.40	5.90	5.75	7.24
31.	7.70		12.13		9.20		7.60	7.10		5.90		7.26
Mean.	7.59	9.22	12.14	10.72	9.37	8.50	7.74	7.19	6.50	6.00	5.75	7.27
Monthly Mean.	8.22	9.00	10.86	11.19	9.88	8.78	8.03	7.36	6.71	6.15	5.76	6.45
Max.	9.55	10.55	12.40	12.20	10.95	9.15	8.35	7.60	7.08	6.38	5.90	7.40
Date.	8	19	21	4	1	2	2	1	1	1	1	26
Min.	7.23	7.50	8.65	10.60	9.20	8.33	7.60	7.10	6.40	5.90	5.68	5.68
Date.	26	3	1	23	31	30	31	30	31	31	23	5

RIVER: LITTLE RUAHA  
 STATION: S.H. CLUB  
 STATION NO: IKA.32  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	7.32	6.94	8.65	10.32	8.85	7.58	7.16	6.73	6.45	5.92	5.60	6.00
2.	7.27	7.03	8.74	10.57	8.90	7.53	7.15	6.70	6.45	5.90	5.65	6.06
3.	7.22	7.52	8.83	10.90	8.95	7.51	7.13	6.70	6.41	5.90	5.65	6.18
4.	7.10	7.77	9.08	11.02	8.95	7.48	7.13	6.70	6.38	5.89	5.65	6.17
5.	7.14	7.97	9.25	11.43	8.91	7.45	7.10	6.70	6.35	5.88	5.65	6.30
6.	7.59	8.00	9.61	11.49	8.83	7.43	7.10	6.70	6.35	5.85	5.63	6.22
7.	7.59	8.40	9.62	11.49	8.74	7.40	7.10	6.68	6.33	5.85	5.77	6.20
8.	7.48	8.32	9.43	11.18	8.65	7.40	7.10	6.65	6.30	5.85	5.83	6.20
9.	7.43	8.36	9.20	10.84	8.57	7.38	7.10	6.64	6.29	5.85	5.80	6.20
10.	7.35	8.35	9.14	10.58	8.49	7.36	7.10	6.63	6.27	5.85	5.76	6.74
Mean.	7.35	7.87	8.86	10.98	8.78	7.45	7.12	6.68	6.36	5.87	5.70	6.23
11.	7.26	8.30	9.05	10.46	8.43	7.35	7.10	6.63	6.25	5.85	5.72	6.82
12.	7.28	8.38	9.00	10.25	8.37	7.33	7.10	6.60	6.23	5.83	5.65	6.94
13.	7.25	8.47	9.18	10.09	8.31	7.32	7.08	6.60	6.20	5.82	5.60	7.10
14.	7.18	8.35	9.98	9.91	8.28	7.30	7.08	6.60	6.19	5.80	5.60	7.35
15.	7.16	8.13	9.39	9.76	8.24	7.30	7.06	6.60	6.17	5.80	5.77	7.35
16.	7.32	7.87	9.59	9.63	8.21	7.30	7.05	6.60	6.15	5.79	5.54	7.38
17.	7.58	7.68	9.67	9.50	8.18	7.29	7.01	6.58	6.13	5.77	5.51	7.40
18.	7.79	7.58	9.76	9.47	8.16	7.25	7.00	6.56	6.11	5.74	5.50	7.31
19.	8.18	7.53	9.45	9.40	8.11	7.25	6.98	6.55	6.10	5.70	5.48	7.27
20.	8.23	7.53	9.17	9.32	8.08	7.25	6.96	6.55	6.10	5.75	5.45	7.17
Mean.	7.52	7.98	9.42	9.78	8.24	7.29	7.04	6.59	6.16	5.79	5.58	7.21
21.	7.93	8.14	9.16	9.24	8.06	7.25	6.93	6.53	6.08	5.75	5.45	7.10
22.	7.79	8.24	8.95	9.18	8.02	7.25	6.88	6.58	6.05	5.75	5.44	7.10
23.	7.63	8.25	9.23	9.13	7.96	7.25	6.86	6.53	6.03	5.73	5.41	7.10
24.	7.52	8.59	9.49	9.08	7.93	7.23	6.83	6.50	6.02	5.71	5.47	7.10
25.	7.43	8.43	10.27	9.05	7.88	7.20	6.80	6.50	6.00	5.70	5.55	7.38
26.	7.34	8.32	10.74	9.00	7.83	7.20	6.80	6.50	6.00	5.69	5.60	7.52
27.	7.28	8.26	11.30	8.96	7.78	7.20	6.79	6.50	6.00	5.67	5.68	8.18
28.	7.12	8.52	11.22	8.91	7.75	7.20	6.78	6.50	5.96	5.65	5.71	8.10
29.	7.04		10.93	8.86	7.68	7.18	6.78	6.50	5.95	5.63	5.70	7.87
30.	6.97		10.78	8.85	7.66	7.18	6.75	6.50	5.94	5.60	5.83	7.73
31.	6.95		10.55		7.58		6.75	6.48		5.60		7.55
Mean.	7.36	8.34	10.24	9.03	7.83	7.21	6.81	6.51	6.00	5.68	5.58	7.52
Monthly Mean.	7.41	8.04	9.53	9.93	8.27	7.32	6.99	6.59	6.17	5.78	5.62	7.00
Max.	8.23	8.60	11.40	11.50	8.95	7.58	7.18	6.73	6.45	5.92	5.85	8.35
Date.	20	28	27	7	4	1	1	1	2	1	30	27
Min.	6.95	6.93	8.62	8.85	7.58	7.18	6.75	6.48	5.92	5.60	5.40	6.00
Date.	31	1	1	30	31	30	31	31	30	31	23	1

RIVER : NDEMBERA  
 STATION : MADIBIRA MISSION  
 NO : IKA.33  
 YEAR : 1956

Date	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
1.												
2.												
3.												3.70
4.												3.70
5.												3.61
6.												3.60
7.												3.63
8.												3.65
9.												3.57
10.												3.56
Mean												
11.												3.47
12.												3.42
13.												3.43
14.												3.43
15.												3.44
16.												3.53
17.												3.65
18.												3.82
19.												3.90
20.												3.77
Mean												
21.												3.74
22.												3.76
23.												3.85
24.												3.98
25.												4.01
26.												3.95
27.												4.03
28.												4.05
29.												4.00
30.												3.91
31.												4.20
Mean												
Monthly Mean												
3.95												

RIVER: NDEMBERA  
STATION: MADIBIRA  
STATION NO: IKA.33  
YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.30	4.99	4.83	5.12	4.70	4.16	3.87	3.64	3.50	3.64	3.48	3.46
2.	4.21	5.12	4.89	5.38	4.70	4.16	3.85	3.64	3.50	3.64	3.48	3.46
3.	4.27	5.48	4.91	5.43	4.79	4.15	3.84	3.62	3.50	3.66	3.48	3.46
4.	4.31	5.45	4.87	5.50	4.81	4.14	3.84	3.62	3.50	3.68	3.48	3.44
5.	4.72	7.43	4.85	5.76	4.86	4.13	3.83	3.62	3.48	3.68	3.48	3.44
6.	4.71	6.67	4.93	5.99	4.85	4.11	3.82	3.60	3.50	3.70	3.46	3.46
7.	4.71	6.22	5.01	6.16	4.83	4.09	3.81	3.60	3.52	3.68	3.46	3.54
8.	5.21	6.19	4.97	6.08	4.82	4.08	3.79	3.60	3.54	3.68	3.46	3.58
9.	4.96	6.00	4.91	6.07	4.73	4.07	3.76	3.60	3.56	3.68	3.46	3.52
10.	4.80	5.83	4.87	6.19	4.71	4.05	3.73	3.60	3.58	3.68	3.46	3.42
Mean.	4.62	5.94	4.90	5.77	4.78	4.11	3.81	3.61	3.52	3.67	3.47	3.48
11.	4.61	5.74	4.85	6.33	4.69	4.03	3.72	3.58	3.60	3.66	3.44	3.42
12.	4.66	5.62	4.86	6.32	4.62	4.02	3.71	3.58	3.60	3.64	3.44	3.42
13.	4.71	5.42	4.85	6.29	4.55	4.02	3.70	3.56	3.58	3.62	3.44	3.46
14.	4.62	5.33	4.94	5.73	4.47	4.02	3.70	3.56	3.56	3.60	3.44	3.78
15.	4.60	5.18	4.96	5.59	4.46	4.02	3.69	3.56	3.54	3.58	3.46	3.77
16.	4.60	5.01	4.86	5.56	4.46	4.01	3.68	3.54	3.52	3.56	3.44	3.82
17.	4.53	4.83	4.91	8.50	4.44	4.00	3.68	3.54	3.50	3.56	3.44	3.69
18.	4.73	4.70	4.89	8.40	4.41	4.00	3.68	3.54	3.50	3.56	3.44	3.59
19.	4.89	4.64	4.87	8.05	4.37	3.99	3.68	3.54	3.48	3.56	3.44	3.59
20.	4.87	4.63	4.85	7.81	4.35	3.98	3.68	3.52	3.48	3.54	3.44	3.98
Mean.	4.68	5.10	4.88	6.86	4.48	4.01	3.69	3.55	3.54	3.59	3.44	3.65
21.	4.76	4.58	4.85	7.54	4.33	3.97	3.66	3.52	3.48	3.54	3.44	3.79
22.	4.78	4.55	4.83	7.25	4.32	3.96	3.66	3.52	3.46	3.54	3.44	3.73
23.	4.84	4.53	4.84	6.81	4.31	3.96	3.66	3.52	3.44	3.52	3.44	3.84
24.	4.95	4.51	4.89	6.49	4.26	3.95	3.66	3.50	3.48	3.50	3.44	3.75
25.	4.99	4.48	4.85	6.23	4.23	3.94	3.66	3.50	3.48	3.50	3.44	3.94
26.	5.00	4.31	4.83	5.58	4.22	3.93	3.66	3.50	3.52	3.50	3.44	4.15
27.	4.91	4.42	4.84	5.20	4.21	3.92	3.66	3.50	3.56	3.50	3.44	4.03
28.	4.88	4.69	4.94	5.00	4.20	3.91	3.65	3.50	3.58	3.50	3.48	4.14
29.	4.98		4.92	4.91	4.19	3.90	3.64	3.50	3.60	3.50	3.48	3.86
30.	5.06		4.86	4.79	4.18	3.89	3.64	3.50	3.64	3.50	3.46	3.95
31.	5.13		4.84		4.17		3.64	3.50		3.50		3.99
Mean.	4.93	4.50	4.86	5.98	4.24	3.93	3.65	3.50	3.52	3.51	3.45	3.92
Monthly Mean.	4.69	5.23	4.88	6.20	4.49	4.02	3.72	3.55	3.52	3.59	3.45	3.69
Max.	5.42	7.44	5.02	8.50	4.92	4.16	3.88	3.64	3.60	3.70	3.48	4.22
Date.	8	5	7	17	5	3	1	2	12	6	29	28
Min.	4.20	4.30	4.82	4.74	4.16	3.88	3.64	3.50	3.44	3.50	3.44	3.42
Date.	2	26	31	30	31	30	31	31	23	31	27	12

RIVER: NDEMBERA  
 STATION: MAMBIRA  
 STATION NO: IKA.33  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.26	4.53	5.08	6.80	5.10	4.16	3.82	3.80	3.60	3.50	3.42	3.70
2.	4.80	4.33	4.90	7.10	5.10	4.16	3.82	3.80	3.60	3.50	3.42	3.70
3.	4.53	4.23	4.90	6.95	5.04	4.13	3.82	3.80	3.60	3.48	3.42	3.70
4.	3.97	4.15	4.94	7.20	4.97	4.13	3.82	3.78	3.59	3.48	3.42	3.75
5.	4.06	4.11	4.89	7.10	4.95	4.13	3.82	3.78	3.59	3.48	3.41	3.80
6.	4.80	4.53	4.78	7.15	4.93	4.12	3.82	3.78	3.58	3.48	3.41	3.75
7.	6.61	4.67	4.81	6.90	4.91	4.12	3.82	3.78	3.58	3.48	3.41	3.75
8.	5.18	4.65	4.73	6.90	4.88	4.11	3.82	3.78	3.58	3.48	3.58	3.80
9.	5.04	6.30	4.73	6.45	4.77	4.09	3.82	3.78	3.58	3.48	3.46	3.75
10.	4.90	5.75	4.70	6.40	4.66	4.05	3.82	3.77	3.58	3.48	3.46	3.80
Mean.	4.82	4.73	4.85	6.90	4.93	4.12	3.82	3.79	3.59	3.48	3.44	3.75
11.	4.70	5.93	5.98	6.35	4.52	4.03	3.82	3.77	3.58	3.48	3.46	3.85
12.	4.57	5.98	5.22	6.70	4.46	4.01	3.82	3.76	3.58	3.47	3.46	3.80
13.	4.33	5.65	4.83	6.60	4.40	3.99	3.82	3.76	3.57	3.47	3.46	3.75
14.	4.32	5.53	4.77	6.50	4.35	3.98	3.82	3.76	3.57	3.47	3.46	3.75
15.	4.11	6.02	4.83	6.20	4.33	3.98	3.82	3.74	3.56	3.46	3.46	3.80
16.	3.90	5.84	5.52	5.90	4.31	3.97	3.86	3.68	3.55	3.46	3.46	3.80
17.	4.38	5.76	5.70	6.30	4.30	3.96	3.86	3.68	3.54	3.46	3.48	3.80
18.	4.82	6.26	7.65	5.90	4.29	3.95	3.86	3.66	3.53	3.46	3.48	3.75
19.	4.23	6.10	6.80	5.70	4.27	3.93	3.86	3.66	3.53	3.46	3.58	3.75
20.	4.10	5.95	6.70	5.65	4.25	3.91	3.86	3.65	3.52	3.46	3.55	3.85
Mean.	4.35	5.90	5.80	6.18	4.35	3.97	3.84	3.71	3.55	3.47	3.49	3.79
21.	3.81	5.60	6.75	5.50	4.24	3.90	3.86	3.64	3.51	3.45	3.55	3.85
22.	4.17	5.48	6.40	5.40	4.27	3.89	3.86	3.64	3.51	3.45	3.81	3.95
23.	4.15	5.56	7.40	5.30	4.31	3.88	3.86	3.64	3.51	3.44	3.76	4.10
24.	4.17	5.40	7.35	5.25	4.29	3.88	3.86	3.62	3.50	3.44	3.63	4.10
25.	4.15	5.14	7.20	5.25	4.27	3.87	3.86	3.62	3.50	3.44	3.63	4.90
26.	4.13	5.02	7.20	5.20	4.24	3.86	3.85	3.62	3.50	3.44	3.64	5.30
27.	4.79	4.96	6.95	5.15	4.24	3.86	3.84	3.62	3.50	3.43	3.65	4.30
28.	4.43	4.92	6.72	5.10	4.20	3.84	3.83	3.62	3.50	3.43	3.69	4.90
29.	4.37		6.80	5.05	4.20	3.84	3.82	3.60	3.50	3.43	3.69	5.05
30.	4.21		7.15	5.05	4.18	3.83	3.81	3.60	3.50	3.43	3.71	4.90
31.	4.90		6.95		4.16		3.80	3.60		3.43		4.95
Mean.	4.30	5.26	6.99	5.23	4.24	3.87	3.84	3.62	3.50	3.44	3.68	4.57
Monthly Mean.	4.48	5.30	5.91	6.10	4.50	3.99	3.83	3.70	3.55	3.46	3.53	4.05
Max.	6.64	6.80	8.40	7.30	5.10	4.16	3.86	3.80	3.60	3.50	3.72	5.85
Date.	7	18	23	2	3	2	26	3	5	2	30	26
Min.	3.80	4.10	4.66	5.05	4.16	3.82	3.80	3.60	3.50	3.42	3.40	3.70
Date.	21	5	10	30	31	30	31	31	30	31	7	3

RIVER: NDEMBEERA  
 STATION: MADIBIRA  
 STATION NO: IKA.33  
 YEAR: 1959.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.00	4.75	5.30	6.30	5.05	4.15	3.90	3.70	3.58	3.40		3.90
2.	4.75	4.75	5.25	6.30	5.00	4.15	3.90	3.70	3.58	3.40		3.90
3.	4.70	4.75	5.20	6.10	5.00	4.15	3.90	3.70	3.58	3.40		3.85
4.	4.70	5.60	5.20	5.95	4.90	4.10	3.90	3.68	3.57	3.40		3.78
5.	4.45	5.90	5.10	5.95	4.90	4.10	3.90	3.68	3.56	3.40		3.76
6.	4.45	6.15	5.15	5.90	4.85	4.10	3.80	3.66	3.56	3.40		3.76
7.	4.40	6.05	5.15	6.45	4.80	4.10	3.80	3.66	3.56	3.40		4.00
8.	4.40	5.65	5.10	6.90	4.75	4.05	3.80	3.60	3.56	3.40		4.00
9.	4.35	5.50	5.05	6.90	4.70	4.05	3.80	3.60	3.56	3.40		4.00
10.	4.75	5.45	5.20	6.55	4.65	4.05	3.80	3.60	3.56	3.40		4.00
Mean.	4.60	5.46	5.17	6.33	4.86	4.10	3.85	3.66	3.57	3.40		3.90
11.	4.65	5.45	5.20	6.55	4.60	4.05	3.80	3.60	3.56	3.40		5.00
12.	4.65	5.40	5.10	6.30	4.55	4.05	3.80	3.60	3.56	3.40		5.00
13.	4.60	5.30	5.10	6.30	4.50	4.05	3.80	3.60	3.56	3.40		4.88
14.	4.55	5.30	5.10	6.30	4.50	4.00	3.80	3.60	3.56	3.40		4.82
15.	4.45	5.30	5.25	6.30	4.45	4.00	3.80	3.60	3.56	3.40		4.50
16.	4.75	5.30	5.25	5.70	4.45	4.00	3.80	3.60	3.50	3.40		4.50
17.	4.75	5.25	5.30	5.70	4.40	4.00	3.80	3.60	3.50	3.40		4.50
18.	4.75	5.20	5.30	5.65	4.40	4.00	3.80	3.60	3.50	3.40		4.30
19.	4.75	5.20	5.30	5.60	4.35	3.95	3.80	3.60	3.48	3.40		4.27
20.	5.70	5.10	5.30	5.55	4.35	3.95	3.80	3.60	3.48	3.40		4.28
Mean.	4.76	5.28	5.22	6.00	4.46	4.06	3.80	3.60	3.53	3.40		4.61
21.	5.60	5.15	5.25	5.55	4.30	3.95	3.80	3.60	3.48	3.40		4.24
22.	5.95	5.15	6.90	5.50	4.30	3.95	3.80	3.60	3.48	3.40		4.24
23.	5.95	5.10	7.00	5.45	4.25	3.95	3.78	3.60	3.48	3.40		4.00
24.	5.75	5.10	7.05	5.35	4.25	3.95	3.77	3.60	3.48	3.40		4.00
25.	5.75	5.20	7.00	5.30	4.25	3.95	3.76	3.60	3.48	3.40		4.00
26.	5.75	5.20	6.95	5.30	4.25	3.95	3.76	3.60	3.40	3.40		4.00
27.	5.70	5.10	6.90	5.30	4.20	3.95	3.76	3.60	3.40	3.40		4.00
28.	5.60	5.10	6.90	5.20	4.20	3.90	3.70	3.60	3.40	3.40		4.00
29.	5.60		6.90 +	5.15	4.20	3.90	3.70	3.60	3.40	3.40		4.20
30.	5.15		6.45	5.10	4.15	+3.90	3.70	3.60	3.40	3.40		4.23
31.	5.15		6.40		4.15		3.70	3.60		3.40		4.20
Mean.	5.63	5.14	6.70	5.32	4.23	3.94	3.75	3.60	3.44	3.40		4.10
Monthly Mean.	5.02	5.30	5.73	5.88	4.50	4.01	3.80	3.62	3.51	3.40		4.20
Levels between + have been corrected in analogy with previous years.												
Max.	5.60	6.20	7.10	6.95	5.05	4.15	3.90	3.70	3.58	3.40		5.00
Date.	23	6	24	8	1	3	5	3	4			12
Min.	4.30	4.70	5.05	5.10	4.15	3.90	3.70	3.60	3.40	3.40		3.76
Date.	9	3	9	30	31	30	31	31	30			6



RIVER: HALALI  
 STATION: TULDUSA  
 STATION NO: LKA.34  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-0.92	-1.03	0.73	0.62	-1.10	-1.95	-2.25	-2.70	-2.90	-3.12	-3.15	-3.20
2.	-1.00	-0.88	0.20	0.93	-1.15	-1.95	-2.28	-2.70	-2.90	-3.15	-3.10	-3.15
3.	-1.07	-0.28	1.02	3.35	-1.23	-1.95	-2.30	-2.70	-2.90	-3.15	-2.85	-3.15
4.	-1.10	+0.28	0.62	1.70	-1.28	-2.00	-2.30	-2.70	-2.95	-3.15	-2.93	-3.15
5.	-1.03	-0.22	0.50	0.80	-1.35	-2.00	-2.30	-2.72	-2.95	-3.15	-3.03	-3.10
6.	-1.03	-0.47	0.35	0.50	-1.35	-2.00	-2.30	-2.75	-2.95	-3.05	-3.10	-3.10
7.	-0.85	-0.05	0.63	0.35	-1.40	-2.00	-2.30	-2.75	-3.00	-3.00	-3.10	-3.05
8.	-0.65	-0.47	0.28	0.15	-1.40	-2.00	-2.30	-2.75	-3.00	-3.05	-3.10	-3.07
9.	-0.80	-0.70	0.28	0.10	-1.43	-2.00	-2.30	-2.80	-3.00	-3.05	-3.13	-3.08
10.	-0.83	-0.48	0.27	-0.10	-1.45	-2.00	-2.35	-2.80	-3.00	-3.05	-3.15	-2.35
Mean.	-0.93	0.43	0.49	0.84	-1.31	-1.99	-2.30	-2.74	-2.96	-3.09	-3.06	-3.04
11.	-0.93	-0.53	0.03	-0.10	-1.52	-2.05	-2.35	-2.80	-3.00	-3.05	-3.15	-0.19
12.	-0.85	-0.50	-0.17	-0.20	-1.55	-2.05	-2.35	-2.80	-3.00	-3.07	-3.15	-1.28
13.	-0.83	-0.20	0.52	-0.33	-1.55	-2.10	-2.35	-2.80	-3.00	-3.10	-3.15	-2.10
14.	-0.75	-0.03	0.00	-0.42	-1.58	-2.10	-2.35	-2.80	-3.00	-3.15	-3.20	-2.10
15.	-0.68	-0.10	-0.20	-0.48	-1.60	-2.10	-2.35	-2.80	-3.05	-3.15	-3.20	-2.10
16.	-0.42	-0.23	-0.15	-0.58	-1.60	-2.10	-2.37	-2.80	-3.05	-3.15	-3.20	-1.97
17.	-0.38	-0.22	0.55	-0.63	-1.65	-2.10	-2.40	-2.85	-3.05	-3.15	-3.23	-2.31
18.	-0.27	+0.05	0.48	-0.50	-1.65	-2.10	-2.40	-2.85	-3.05	-3.13	-3.25	-2.71
19.	-0.28	-0.18	0.80	-0.65	-1.65	-2.10	-2.45	-2.85	-3.05	-3.20	-3.25	-2.75
20.	-0.48	-0.32	0.47	-0.75	-1.70	-2.10	-2.45	-2.85	-3.05	-3.23	-3.25	-2.70
Mean.	-0.59	-0.23	0.23	-0.46	-1.61	-2.09	-2.38	-2.82	-3.03	-3.14	-3.20	-2.02
21.	-0.68	-0.17	0.58	-0.82	-1.70	-2.15	-2.50	-2.85	-3.05	-3.25	-3.25	-2.72
22.	-0.80	+0.70	0.72	-0.87	-1.75	-2.15	-2.50	-2.85	-3.05	-3.15	-3.25	-2.75
23.	-0.93	+0.62	1.82	-0.93	-1.75	-2.15	-2.65	-2.85	-3.05	-3.15	-3.25	-2.80
24.	-1.00	+0.58	0.80	-0.98	-1.78	-2.15	-2.60	-2.85	-3.07	-3.15	-3.25	-2.70
25.	-1.07	+0.92	1.53	-1.00	-1.80	-2.15	-2.60	-2.85	-3.10	-3.17	-3.25	-2.49
26.	-1.10	+0.58	0.73	-1.03	-1.85	-2.18	-2.65	-2.85	-3.10	-3.20	-2.85	-2.28
27.	-0.88	+0.07	4.17	-0.93	-1.85	-2.20	-2.65	-2.85	-3.10	-3.20	-3.03	-2.28
28.	-0.90	+1.78	1.45	-0.98	-1.90	-2.20	-2.70	-2.87	-3.10	-3.20	-3.10	-2.57
29.	-0.90		2.00	-1.03	-1.90	-2.20	-2.70	-2.90	-3.10	-3.20	-3.15	-2.65
30.	-0.95		1.78	-1.08	-1.90	-2.23	-2.70	-2.90	-3.10	-3.20	-3.20	-2.72
31.	-1.02		1.95		-1.95		-2.70	-2.90		-3.20		-2.62
Mean.	-0.93	0.63	1.59	-0.97	-1.83	-2.18	-2.63	-2.87	-3.08	-3.19	-3.16	-2.60
Monthly Mean	-0.82	-0.05	0.80	-0.20	-1.59	-2.08	-2.44	-2.81	-3.02	-3.14	-3.14	-2.55
Max.	-0.20	2.15	5.35	5.60	-1.10	-1.95	-2.25	-2.70	-2.90	-3.00	-2.85	-0.19
Date.	18	28	27	3	1	3	2	4	3	7	26	11
Min.	-1.15	-1.05	-0.25	-1.10	-1.95	-2.25	-2.70	-2.90	-3.10	-3.25	-3.25	-3.20
Date.	3	1	15	30	31	30	31	31	30	21	25	1





RIVER: HALALI  
STATION: MAJOJOLO  
STATION NO: IKA.36  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.47	1.40	3.73	4.03	2.35	1.65	1.20	0.90	0.60	0.30	0.18	1.35
2.	1.28	1.53	3.26	4.22	2.35	1.62	1.20	0.88	0.60	0.25	0.25	1.35
3.	1.07	1.98	3.60	5.55	2.30	1.60	1.20	0.85	0.55	0.22	0.58	1.35
4.	1.27	2.27	4.12	4.93	2.25	1.60	1.20	0.85	0.53	0.20	0.55	1.35
5.	1.67	2.70	3.55	4.58	2.25	1.55	1.20	0.85	0.50	0.20	0.32	1.35
6.	1.82	2.78	3.52	3.95	2.20	1.52	1.20	0.85	0.50	0.35	0.25	1.45
7.	1.85	2.45	3.67	3.67	2.20	1.50	1.20	0.83	0.45	0.52	0.25	1.35
8.	1.73	2.42	3.47	3.73	2.15	1.50	1.20	0.80	0.45	0.45	0.25	1.67
9.	2.42	2.32	3.73	3.53	2.12	1.50	1.15	0.80	0.45	0.37	0.20	1.92
10.	2.03	2.13	3.37	3.43	2.10	1.50	1.15	0.80	0.45	0.35	0.20	1.90
Mean.	1.66	2.20	3.60	4.16	2.23	1.55	1.19	0.84	0.51	0.32	0.30	1.50
11.	1.88	2.02	2.62	3.35	2.10	1.45	1.15	0.80	0.45	0.33	0.20	3.08
12.	1.78	2.02	2.55	3.32	2.03	1.45	1.15	0.80	0.45	0.30	0.20	3.10
13.	1.75	2.48	3.32	3.23	2.00	1.45	1.15	0.80	0.45	0.25	0.20	2.60
14.	1.75	2.42	3.33	3.20	2.00	1.42	1.13	0.80	0.40	0.23	0.15	2.40
15.	1.70	2.17	3.32	3.17	2.00	1.40	1.10	0.76	0.40	0.20	0.15	2.13
16.	1.75	2.02	2.98	3.13	1.95	1.40	1.10	0.75	0.40	0.18	0.13	2.13
17.	1.95	1.93	3.68	3.10	1.93	1.40	1.08	0.75	0.40	0.15	0.10	2.38
18.	2.10	2.03	3.50	3.03	1.90	1.40	1.05	0.75	0.38	0.10	0.10	2.32
19.	2.33	1.97	3.78	2.85	1.90	1.40	1.05	0.73	0.35	0.10	0.10	2.25
20.	2.82	1.88	3.65	2.68	1.88	1.35	1.03	0.70	0.35	0.10	0.05	1.73
Mean.	1.98	2.09	3.27	3.11	1.97	1.41	1.10	0.76	0.40	0.19	0.14	2.41
21.	2.52	2.55	3.65	2.62	1.85	1.35	1.00	0.70	0.35	0.10	0.05	1.70
22.	2.20	3.03	3.47	2.58	1.82	1.35	1.00	0.70	0.33	0.15	0.05	1.42
23.	2.26	2.83	4.00	2.53	1.80	1.35	0.98	0.65	0.30	0.18	0.05	1.35
24.	2.05	2.80	4.25	2.47	1.80	1.35	0.95	0.65	0.30	0.17	0.05	1.38
25.	1.80	3.62	3.88	2.45	1.75	1.35	0.95	0.65	0.30	0.13	0.05	1.58
26.	1.62	3.53	3.62	2.45	1.73	1.32	0.93	0.65	0.30	0.10	0.52	1.75
27.	1.75	3.40	5.72	2.50	1.70	1.30	0.90	0.65	0.30	0.10	1.03	1.80
28.	1.55	3.83	4.48	2.45	1.68	1.30	0.90	0.65	0.30	0.10	1.52	1.67
29.	1.50		4.62	2.40	1.65	1.25	0.90	0.65	0.30	0.10	1.40	1.57
30.	1.43		4.52	2.40	1.65	1.25	0.90	0.65	0.30	0.10	1.33	1.38
31.	1.35		4.40		1.65		0.90	0.63		0.10		1.32
Mean.	1.82	3.20	4.24	2.49	1.73	1.32	0.94	0.66	0.31	0.12	0.61	1.54
Monthly Mean.	1.82	2.45	3.72	3.25	1.97	1.43	1.07	0.75	0.41	0.21	0.35	1.81
Max.	2.90	3.95	5.95	5.90	2.35	1.65	1.20	0.90	0.60	0.55	1.60	3.35
Date.	20	28	27	3	2	1	8	2	2	7	27	12
Min.	1.05	1.40	2.50	2.40	1.65	1.25	0.90	0.60	0.30	0.10	0.05	1.30
Date.	3	1	12	30	31	30	31	31	30	31	25	31

RIVER: LUKOSI  
 STATION: MTANDIKA  
 STATION NO: IKA. 37  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.					6.37	5.77	5.00	4.73	4.42	4.28	4.24	3.71
2.					6.33	5.70	5.00	4.85	4.40	4.27	4.15	3.70
3.					6.33	5.70	4.95	4.91	4.39	4.23	4.06	3.68
4.					6.27	5.63	4.93	4.80	4.38	4.23	4.00	3.68
5.	Readings commenced				7.03	5.60	4.91	4.73	4.42	4.21	4.08	3.68
6.	April 14th.				6.87	6.33	4.90	4.70	4.39	4.18	4.09	3.73
7.					8.80	5.80	4.91	4.67	4.38	4.18	4.03	3.68
8.					9.37	5.60	4.91	4.76	4.36	4.16	3.99	3.67
9.					8.60	5.52	4.90	4.88	4.33	4.17	3.96	3.63
10.					8.10	5.48	4.85	4.77	4.32	4.15	3.90	3.60
Mean.					7.61	5.71	4.93	4.78	4.38	4.21	4.05	3.68
11.					7.67	5.45	4.88	4.70	4.32	4.10	3.89	4.14
12.					7.50	5.42	4.85	4.67	4.30	4.10	3.88	4.63
13.					7.10	5.35	4.85	4.63	4.27	4.14	3.88	4.25
14.				6.20	6.77	5.32	4.85	4.60	4.28	4.11	3.88	3.96
15.				10.10	6.83	5.30	4.83	4.58	4.24	4.10	3.89	4.23
16.				12.70	6.82	5.30	4.83	4.60	4.24	4.10	3.88	4.31
17.				11.17	6.87	5.28	4.80	4.73	4.23	4.08	3.84	4.53
18.				9.30	6.95	5.22	4.80	4.65	4.22	4.08	3.80	4.78
19.				8.43	6.82	5.20	4.80	4.63	4.22	4.07	3.83	4.93
20.				7.50	7.10	5.18	5.13	4.60	4.23	4.04	3.84	5.48
Mean.					7.04	5.30	4.86	4.64	4.26	4.09	3.86	4.52
21.				8.37	6.90	5.15	5.25	4.60	4.22	4.03	3.87	5.25
22.				10.00	6.67	5.18	5.03	4.55	4.20	4.00	3.90	4.79
23.				8.63	6.62	5.60	4.88	4.51	4.20	3.98	3.89	4.40
24.				7.90	6.45	5.35	4.80	4.50	4.18	3.97	3.81	4.88
25.				7.30	6.35	5.18	4.80	4.50	4.78	3.94	3.79	4.60
26.				6.93	6.18	5.13	4.83	4.48	5.80	3.92	3.75	4.50
27.				6.70	6.08	5.08	4.91	4.47	4.93	3.90	3.78	4.33
28.				6.57	5.95	5.05	4.83	.44	4.50	4.12	3.79	4.18
29.				6.40	5.85	5.02	4.78	4.42	4.36	4.29	3.74	4.05
30.				6.33	5.82	5.00	4.75	4.40	4.30	4.10	3.72	4.49
31.					5.80		4.75	4.40		4.10		4.87
Mean.				7.51	6.24	5.17	4.87	4.48	4.55	4.03	3.80	4.58
Monthly Mean.					6.94	5.39	4.89	4.63	4.39	4.11	3.90	4.27
Max.					9.60	6.40	5.30	4.95	6.00	4.34	4.26	5.80
Date.					8	6	21	3	26	29	1	20
Min.					5.80	5.00	4.75	4.40	4.18	3.90	3.72	3.60
Date.					30/31	29/30	30.31	30.31	24	27	30	10

RIVER: LUKOSI  
STATION: MPANDIKA  
STATION NO: IKA.37  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July,	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.17	3.76	4.61	11.72	9.27	5.55	5.08	4.84	4.66	4.40	4.17	4.71
2.	5.17	4.17	5.03	13.30	8.85	5.55	5.12	4.81	4.64	4.38	4.20	4.37
3.	4.93	4.09	5.23	10.17	9.23	5.55	5.08	4.80	4.61	4.38	4.22	4.19
4.	4.55	4.52	4.97	9.15	8.70	5.65	5.05	4.80	4.60	4.38	4.19	4.15
5.	4.35	4.70	4.65	8.40	8.05	5.60	5.05	4.78	4.59	4.36	4.15	4.31
6.	4.35	4.94	4.98	7.52	7.70	5.87	5.05	4.77	4.58	4.34	4.13	4.25
7.	4.97	5.51	4.65	6.81	7.41	5.87	5.00	4.76	4.58	4.32	4.11	4.20
8.	5.33	4.59	4.47	6.43	7.10	5.75	5.00	4.74	4.56	4.31	4.11	4.35
9.	4.63	4.55	4.71	6.13	6.83	5.55	5.00	4.74	4.55	4.33	4.10	4.18
10.	4.30	5.08	4.96	6.15	6.63	5.41	4.97	4.77	4.54	4.46	4.12	4.09
Mean.	4.88	4.59	4.83	8.58	7.98	5.64	5.04	4.78	4.59	4.37	4.15	4.28
11.	4.12	5.48	5.04	5.82	6.55	5.40	4.94	4.74	4.52	4.43	4.10	4.05
12.	4.02	5.83	5.18	5.65	6.48	5.40	4.95	4.76	4.52	4.33	4.11	4.06
13.	3.95	5.23	5.13	5.50	6.40	5.38	4.93	4.78	4.53	4.34	4.07	4.39
14.	3.88	6.18	5.01	5.35	6.32	5.30	4.95	4.75	4.54	4.35	4.04	5.70
15.	3.84	9.67	4.77	5.30	6.21	5.30	4.94	4.73	4.52	4.33	4.04	4.92
16.	3.79	6.78	5.08	5.22	6.17	5.23	4.96	4.72	4.51	4.33	4.03	4.74
17.	3.73	5.78	5.62	5.13	6.10	5.20	4.96	4.71	4.50	4.32	4.09	4.83
18.	3.70	5.63	6.55	5.58	6.08	5.20	4.92	4.70	4.50	4.30	4.13	4.81
19.	3.68	5.57	7.48	5.50	6.03	5.20	4.88	4.70	4.56	4.24	4.11	4.97
20.	3.65	4.96	6.83	7.05	5.98	5.20	4.84	4.69	4.71	4.21	4.17	4.94
Mean.	3.84	6.11	5.67	5.61	6.23	5.28	4.93	4.73	4.54	4.32	4.09	4.74
21.	3.64	5.60	8.38	7.12	6.08	5.15	4.82	4.74	4.69	4.20	4.17	4.87
22.	3.69	4.98	8.43	6.47	6.20	5.10	4.82	4.81	4.57	4.22	4.17	4.96
23.	4.18	5.14	7.07	6.73	6.10	5.10	4.81	4.79	4.50	4.23	4.09	6.75
24.	4.39	5.37	8.25	6.75	5.95	5.05	4.80	4.79	4.47	4.19	4.06	5.65
25.	4.09	5.78	7.37	9.30	5.82	5.05	4.79	4.76	4.44	4.18	4.09	6.48
26.	4.10	4.95	7.73	9.65	5.80	5.08	4.79	4.74	4.43	4.16	4.07	7.02
27.	4.07	4.57	8.57	10.75	5.73	5.03	4.78	4.74	4.42	4.17	4.07	6.77
28.	4.52	4.59	8.22	9.85	5.67	5.02	4.78	4.72	4.42	4.20	4.08	5.77
29.	4.12		8.80	10.39	5.62	5.00	4.78	4.69	4.40	4.16	4.19	5.28
30.	3.93		9.85	10.85	5.60	5.07	4.81	4.69	4.40	4.14	4.63	4.92
31.	3.83		12.04		5.60		4.83	4.67		4.16		4.66
Mean.	4.05	5.12	8.61	8.79	5.83	5.07	4.80	4.74	4.47	4.18	4.16	5.74
Monthly												
Mean.	4.25	5.29	6.44	7.66	6.65	5.33	4.92	4.75	4.53	4.29	4.13	4.95
Max.	6.60	10.50	12.20	14.54	9.45	5.90	5.15	4.86	4.72	4.46	4.90	7.45
Date.	1	15	31	2	3	7	2	1	21	11	30	23
Min.	3.60	3.74	4.40	5.10	5.60	5.00	4.76	4.66	4.40	4.14	4.04	4.04
Date.	21	1	8	17	31	29	28	31	30	30	16	12

RIVER: LUKOSI  
 STATION: BATAJKA  
 STATION NO: 2KA-37  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.47		5.84	5.80	6.48	4.41	4.20	4.23	3.81	3.50	3.42	3.91
2.	4.38		5.61	5.27	6.10	4.40	4.59	4.07	3.79	3.50	3.39	3.79
3.	4.31		5.69	4.99	5.73	4.37	4.85	4.03	3.76	3.49	3.37	4.04
4.	4.32		5.60	4.89	5.48	4.36	4.55	3.99	3.74	3.47	3.33	3.86
5.	4.55		5.70	4.74	5.30	4.35	4.36	3.98	3.77	3.46	3.30	4.03
6.	4.51		5.24	4.67	5.18	4.33	4.30	3.97	3.73	3.65	3.30	4.63
7.	4.33		5.61	4.58	5.08	4.30	4.30	3.99	3.72	3.63	3.43	4.30
8.	4.36		6.67	4.51	5.10	4.28	4.29	3.94	3.70	3.61	3.40	3.99
9.	4.92		6.04	4.47	5.10	4.34	4.23	3.95	3.70	3.74	3.43	4.06
10.	4.74		5.39	4.44	5.08	4.32	4.23	3.94	3.70	3.77	3.40	3.96
Mean.	4.49		5.74	4.84	5.46	4.35	4.39	4.01	3.74	3.58	3.38	4.06
11.	4.86		5.51	4.49	5.28	4.27	4.17	3.93	3.67	3.70	3.31	4.43
12.	5.05		4.99	6.97	5.07	4.25	4.14	3.90	3.65	3.63	3.30	5.62
13.	4.64		4.78	6.27	6.08	4.31	4.13	3.90	3.64	3.58	3.30	5.97
14.	4.60		4.85	5.25	5.58	4.28	4.09	3.90	3.63	3.53	3.30	4.98
15.	4.53		4.71	4.99	5.27	4.23	4.07	3.90	3.60	3.51	3.28	4.53
16.	4.96		4.89	6.18	5.03	4.21	4.04	3.87	3.60	3.47	3.27	4.43
17.	4.97		5.19	5.45	4.93	4.21	4.03	3.83	3.63	3.46	3.27	4.49
18.	4.89		5.09	5.30	4.85	4.23	4.01	3.81	3.57	3.43	3.24	4.39
19.	4.99	5.25	5.13	5.18	4.81	4.27	4.00	3.80	3.54	3.40	3.21	4.10
20.	4.73	4.86	5.01	5.07	4.78	4.24	3.98	3.79	3.54	3.40	3.20	3.91
Mean.	4.83		4.98	5.52	5.17	4.25	4.07	3.86	3.61	3.51	3.27	4.69
21.	4.50	4.70	5.61	5.73	4.74	4.25	3.98	3.78	3.50	3.40	3.20	3.81
22.	4.37	4.65	5.49	5.32	4.69	4.27	3.96	3.81	3.50	3.42	3.25	3.74
23.	4.29	4.83	5.41	5.35	4.63	4.26	3.94	4.27	3.69	3.42	3.30	3.74
24.	4.24	5.33	5.03	5.25	4.58	4.25	3.94	4.17	3.73	3.40	3.37	3.71
25.	4.20	5.53	5.13	5.87	4.53	4.20	3.94	4.08	3.70	3.38	4.08	4.05
26.	4.20	5.78	5.85	6.11	4.51	4.20	3.94	3.13	3.67	3.39	4.04	4.05
27.	4.33	5.69	5.83	6.00	4.53	4.20	3.95	3.98	3.60	3.40	4.74	3.85
28.	4.39	5.73	5.23	6.95	4.50	4.19	3.94	3.90	3.60	3.40	4.59	3.94
29.	4.39		5.24	7.70	4.49	4.17	3.94	3.90	3.61	3.40	4.11	4.13
30.	5.57		6.48	6.82	4.48	4.16	4.04	3.87	3.57	3.40	3.83	3.81
31.			6.91		4.46		4.25	3.85		3.44		3.70
Mean.		5.26	5.66	6.11	4.56	4.22	3.98	3.98	3.62	3.40	3.85	3.87
Monthly Mean.			5.47	5.49	5.05	4.27	4.13	3.95	3.66	3.50	3.50	4.19
Max.	5.70		7.02	8.10	6.60	4.42	4.90	4.34	3.82	3.90	4.88	6.10
Date.	30		31	29	1	1	2	23	1	6	27	13
Min.	4.20		4.68	4.40	4.44	4.14	3.94	3.78	3.54	3.38	3.20	3.66
Date.	26		15	11	31	30	29	21	30	26	21	31

RIVER: YONI  
 STATION: GT. RUHA CONFLUENCE  
 STATION NO: IKA.38  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.						2.12	1.80	1.60	1.50	1.35	1.35	1.35
2.						2.23	1.80	1.60	1.45	1.35	1.35	1.30
3.						2.18	1.80	1.60	1.45	1.35	1.35	1.30
4.						2.22	1.80	1.55	1.45	1.35	1.30	1.25
5.						2.27	1.80	1.55	1.45	1.35	1.25	1.25
6.						2.17	1.80	1.55	1.45	1.35	1.25	1.25
7.						2.12	1.80	1.55	1.45	1.35	1.25	1.25
8.						2.10	1.80	1.55	1.45	1.35	1.25	1.25
9.						2.07	1.75	1.55	1.45	1.35	1.25	1.25
10.						2.08	1.75	1.55	1.45	1.35	1.25	1.20
Mean.						2.16	1.79	1.57	1.46	1.35	1.29	1.27
11.						2.02	1.75	1.55	1.45	1.35	1.25	1.20
12.						1.97	1.75	1.55	1.45	1.35	1.25	1.15
13.					2.60	1.97	1.75	1.55	1.45	1.35	1.25	1.40
14.					2.55	1.92	1.75	1.55	1.40	1.35	1.25	1.35
15.					2.45	1.88	1.75	1.55	1.40	1.35	1.25	1.30
16.					2.52	1.85	1.75	1.55	1.40	1.35	1.25	1.25
17.					2.65	1.92	1.70	1.55	1.40	1.35	1.25	1.35
18.					2.88	1.95	1.70	1.55	1.40	1.35	1.25	1.30
19.					2.68	1.95	1.70	1.55	1.40	1.30	1.25	1.40
20.					2.72	1.90	1.70	1.55	1.45	1.30	1.25	1.35
Mean.						1.93	1.73	1.55	1.42	1.34	1.25	1.31
21.					2.57	1.88	1.70	1.55	1.40	1.30	1.25	1.35
22.					2.60	1.85	1.70	1.55	1.40	1.25	1.25	1.35
23.					2.53	1.85	1.70	1.55	1.40	1.25	1.20	1.65
24.					2.43	1.85	1.65	1.55	1.35	1.25	1.20	1.60
25.					2.33	1.85	1.65	1.55	1.35	1.25	1.20	1.55
26.					2.27	1.85	1.65	1.55	1.40	1.25	1.20	1.45
27.					2.27	1.85	1.65	1.53	1.35	1.25	1.20	1.45
28.					2.22	1.80	1.65	1.50	1.35	1.25	1.25	1.45
29.					2.15	1.80	1.60	1.50	1.35	1.25	1.25	1.45
30.					2.18	1.80	1.60	1.50	1.35	1.25	1.35	1.45
31.					2.18		1.60	1.50		1.25		1.35
Mean.						2.34	1.84	1.65	1.53	1.37	1.24	1.46
Monthly Mean.						1.98	1.72	1.55	1.42	1.31	1.26	1.35
Max.						2.25	1.80	1.60	1.50	1.35	1.36	1.65
Date.						5	8.	3	1	18	30	23
Min.						1.80	1.60	1.50	1.35	1.25	1.20	1.15
Date.						30	31	31	30	31	27	12.

RIVER: YONI  
 STATION: GT. RUAMA CONFLUENCE  
 STATION NO. IKA. 38  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.30	1.35	1.45	1.90	1.72	1.35	1.25	1.15	1.10	0.95	1.20	1.15
2.	1.85	1.82	1.45	1.63	1.65	1.35	1.25	1.15	1.05	0.95	1.20	1.15
3.	1.30	1.53	1.58	1.73	1.68	1.35	1.28	1.15	1.05	0.95	1.15	1.15
4.	1.25	1.58	1.67	1.65	1.65	1.35	1.25	1.15	1.05	0.95	1.15	1.05
5.	1.25	1.50	1.62	1.63	1.60	1.35	1.25	1.15	1.05	0.95	1.15	1.05
6.	1.20	1.52	1.52	1.50	1.58	1.30	1.25	1.15	1.05	0.95	1.30	1.05
7.	1.20	1.45	1.83	1.45	2.18	1.25	1.25	1.15	1.05	0.95	1.30	1.40
8.	1.20	1.45	2.48	1.38	1.77	1.35	1.25	1.15	1.05	1.00	1.30	1.15
9.	1.42	1.33	1.68	1.35	1.62	1.35	1.25	1.15	1.05	1.00	1.10	1.15
10.	1.25	1.40	2.25	1.30	1.78	1.35	1.25	1.15	1.05	1.00	1.10	1.25
Mean.	1.32	1.49	1.75	1.56	1.72	1.34	1.25	1.15	1.06	0.97	1.20	1.16
11.	1.35	1.33	1.93	2.17	1.63	1.35	1.25	1.15	1.05	1.00	1.05	1.25
12.	1.28	1.33	1.65	1.48	1.68	1.30	1.25	1.12	1.00	1.00	1.05	1.25
13.	1.25	2.33	1.65	1.88	1.92	1.30	1.25	1.10	1.00	1.00	1.05	1.25
14.	1.32	1.48	1.53	1.53	1.62	1.30	1.25	1.10	1.00	1.00	1.00	1.80
15.	1.58	1.42	1.72	2.70	1.60	1.28	1.25	1.10	1.00	1.00	1.00	2.65
16.	1.65	1.33	1.37	2.50	1.55	1.25	1.25	1.10	1.00	1.00	1.00	2.15
17.	1.47	1.60	1.38	1.82	1.55	1.25	1.25	1.10	1.00	1.00	0.95	2.15
18.	1.37	1.38	1.35	1.68	1.55	1.25	1.25	1.10	1.00	1.00	0.95	1.85
19.	1.43	1.35	1.40	1.63	1.50	1.25	1.25	1.10	1.00	1.00	0.95	1.85
20.	1.35	1.30	1.43	1.63	1.45	1.30	1.25	1.10	1.00	1.00	0.95	1.85
Mean.	1.41	1.49	1.54	1.90	1.61	1.28	1.25	1.11	1.01	1.00	1.00	1.81
21.	1.35	1.42	1.72	1.60	1.45	1.30	1.25	1.10	1.00	1.00	0.90	1.85
22.	1.30	1.32	1.45	1.83	1.45	1.25	1.25	1.10	1.00	1.00	0.90	1.45
23.	1.25	1.50	1.53	1.65	1.45	1.25	1.25	1.10	1.00	1.00	0.90	1.45
24.	1.20	1.83	1.52	1.62	1.40	1.25	1.25	1.10	0.95	1.00	0.90	1.45
25.	1.20	1.50	2.02	1.52	1.40	1.25	1.15	1.10	0.95	1.00	0.90	1.45
26.	1.27	1.38	2.13	1.45	1.40	1.25	1.15	1.10	0.95	1.05	0.95	1.45
27.	1.38	1.43	1.77	1.62	1.40	1.25	1.15	1.15	1.00	1.05	0.95	1.45
28.	1.35	1.35	1.63	2.23	1.40	1.25	1.15	1.15	1.00	1.05	1.25	1.25
29.	1.28		2.25	1.92	1.38	1.25	1.15	1.15	0.95	1.20	1.10	1.25
30.	1.30		2.60	1.75	1.35	1.25	1.15	1.15	0.95	1.20	1.10	1.20
31.	1.45		1.77		1.35		1.15	1.15		1.20		1.15
Mean.	1.30	1.47	1.85	1.72	1.40	1.26	1.19	1.12	0.98	1.07	0.99	1.40
Monthly Mean.	1.34	1.48	1.72	1.73	1.57	1.29	1.23	1.13	1.01	1.01	1.06	1.45
Max.	2.35	3.15	3.15	3.55	2.35	1.35	1.35	1.15	1.10	1.20	1.30	2.65
Date.	2	13	30	15	7	11	3	11	1	31	7	15
Min.	1.20	1.25	1.35	1.30	1.35	1.25	1.15	1.10	0.95	0.95	0.90	1.05
Date.	26	22	19	10	31	30	31	26	30	7	24	6

RIVER: LITTLE RUAHA  
 STATION : IWAWA  
 STATION NO: IKA.39  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.					10.31	8.55	7.50	7.10	6.40	5.90	5.40	5.00
2.					10.25	8.55	7.50	7.00	6.40	5.90	5.40	5.00
3.					10.15	8.45	7.50	7.00	6.30	5.80	5.40	5.10
4.					10.05	8.45	7.50	7.00	6.30	5.80	5.40	5.10
5.					9.98	8.35	7.40	6.90	6.30	5.80	5.30	5.06
6.					9.95	8.35	7.40	6.90	6.30	5.80	5.30	5.00
7.					9.95	8.35	7.40	6.90	6.30	5.80	5.30	5.00
8.					9.85	8.31	7.40	6.90	6.30	5.70	5.30	4.95
9.					9.85	8.25	7.40	6.80	6.20	5.70	5.20	4.91
10.					9.75	8.25	7.40	6.80	6.20	5.70	5.20	4.90
Mean.					10.01	8.39	7.44	6.93	6.30	5.79	5.32	5.00
11.					9.66	8.15	7.30	6.80	6.20	5.70	5.20	4.90
12.				9.45	9.65	8.15	7.30	6.80	6.20	5.70	5.20	5.00
13.				9.45	9.58	8.05	7.30	6.80	6.20	5.70	5.20	5.00
14.				10.25	9.48	8.05	7.30	6.80	6.20	5.70	5.10	4.90
15.				10.38	9.38	7.95	7.30	6.70	6.10	5.60	5.10	5.07
16.				12.35	9.35	7.95	7.30	6.70	6.10	5.60	5.10	5.20
17.				12.65	9.26	7.95	7.30	6.70	6.10	5.60	5.10	5.26
18.				12.35	9.22	7.85	7.20	6.70	6.10	5.60	5.05	5.28
19.				12.18	9.16	7.85	7.20	6.70	6.10	5.60	5.05	6.41
20.				12.68	9.15	7.85	7.20	6.60	6.10	5.60	5.05	6.30
Mean.				11.30	9.39	7.98	7.27	6.73	6.14	5.64	5.12	5.33
21.				12.55	9.15	7.75	7.20	6.60	6.00	5.50	5.10	6.10
22.				12.28	9.06	7.75	7.20	6.60	6.00	5.50	5.08	6.15
23.				12.01	9.05	7.75	7.20	6.60	6.00	5.50	5.10	6.38
24.				11.81	8.98	7.75	7.10	6.50	6.00	5.50	5.10	6.40
25.				11.58	8.95	7.70	7.10	6.50	6.00	5.50	5.00	6.68
26.				11.35	8.85	7.65	7.10	6.50	5.90	5.50	5.00	6.40
27.				11.05	8.78	7.65	7.10	6.50	5.90	5.40	5.05	6.58
28.				10.85	8.75	7.65	7.10	6.50	5.90	5.40	5.05	6.60
29.				10.65	8.65	7.55	7.10	6.40	5.90	5.40	5.05	6.73
30.				10.48	8.65	7.55	7.10	6.40	5.90	5.40	5.05	6.83
31.					8.55		7.00	6.40		5.40		7.38
Mean.				11.46	8.86	7.68	7.12	6.50	5.95	5.45	5.06	6.57
Monthly Mean.				11.39	9.40	8.01	7.27	6.71	6.13	5.62	5.16	5.66
Max.				12.75	10.35	8.55	7.50	7.05	6.40	5.90	5.40	7.40
Date.				17.20	1	1,2	1-3	1	1	1	1-4	31
Min.				11.39	9.40	8.01	7.27	6.71	6.13	5.62	5.16	5.66
Date.				12.13	31	29	30,31	31	29,30	29-31	25,26	10,11,12



RIVER: LITTLE RUANA  
 STATION: IWAWA  
 STATION NO: IKA.39  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	7.30	6.72	7.72	11.80	9.10	7.73	7.30	6.80	6.40	5.70	5.00	4.80
2.	7.27	6.60	7.73	11.72	9.00	7.70	7.30	6.80	6.40	5.70	5.00	4.80
3.	7.17	6.58	7.83	11.80	8.95	7.70	7.30	6.80	6.35	5.70	5.00	4.80
4.	7.02	6.60	7.80	11.50	8.90	7.70	7.25	6.80	6.30	5.65	5.00	4.75
5.	6.90	6.57	7.70	11.57	9.00	7.70	7.25	6.77	6.30	5.60	5.00	4.75
6.	6.82	6.65	7.62	11.30	8.90	7.65	7.20	6.75	6.30	5.60	5.00	4.75
7.	6.83	6.83	7.72	11.17	8.85	7.65	7.20	6.70	6.30	5.60	4.98	4.80
8.	7.05	7.10	7.80	11.00	8.75	7.62	7.20	6.70	6.25	5.60	4.96	4.87
9.	7.12	7.27	7.85	10.80	8.63	7.60	7.20	6.70	6.20	5.55	4.94	5.00
10.	7.27	7.52	8.10	10.60	8.53	7.60	7.20	6.70	6.20	5.50	4.92	5.00
Mean.	7.08	6.84	7.79	11.33	8.86	7.67	7.24	6.75	6.30	5.62	4.98	4.83
11.	7.18	7.75	8.10	10.47	8.43	7.60	7.15	6.70	6.17	5.50	4.90	4.97
12.	7.05	7.93	8.05	10.23	8.40	7.60	7.15	6.70	6.12	5.50	4.88	5.18
13.	7.13	7.95	8.23	10.10	8.40	7.55	7.10	6.70	6.10	5.50	4.86	5.73
14.	7.27	8.08	8.82	9.92	8.33	7.50	7.10	6.67	6.10	5.50	4.84	5.87
15.	7.30	8.92	10.05	9.70	8.30	7.50	7.10	6.65	6.10	5.50	4.82	6.03
16.	7.30	8.70	9.33	9.57	8.23	7.50	7.10	6.60	6.10	5.45	4.80	6.00
17.	7.30	8.28	10.07	9.50	8.20	7.50	7.10	6.60	6.05	5.40	4.80	6.15
18.	7.18	7.98	11.92	9.40	8.17	7.50	7.10	6.60	6.00	5.40	4.80	6.25
19.	7.05	7.80	11.60	9.40	8.10	7.45	7.05	6.60	6.00	5.40	4.80	5.95
20.	6.90	7.83	11.65	9.32	8.10	7.45	7.02	6.60	6.00	5.35	4.80	5.90
Mean.	7.17	8.12	9.78	9.76	8.27	7.52	7.10	6.64	6.07	5.45	4.83	5.80
21.	6.80	8.28	11.47	9.40	8.10	7.40	7.00	6.55	6.00	5.30	4.80	5.95
22.	6.78	8.95	11.65	9.20	8.00	7.40	7.00	6.55	5.97	5.30	4.90	6.10
23.	6.75	9.30	11.55	9.10	8.00	7.40	6.97	6.55	5.90	5.25	4.90	6.25
24.	6.72	9.00	11.70	9.20	7.97	7.40	6.90	6.50	5.87	5.20	4.90	6.60
25.	6.70	8.80	11.73	9.30	7.92	7.40	6.90	6.50	5.80	5.20	4.90	6.52
26.	6.70	8.50	12.08	9.40	7.90	7.35	6.90	6.50	5.80	5.20	4.90	6.60
27.	6.75	8.08	11.75	9.30	7.82	7.35	6.90	6.50	5.80	5.15	4.85	6.82
28.	7.05	7.78	11.70	9.22	7.80	7.30	6.90	6.50	5.75	5.10	4.85	7.00
29.	7.35		11.60	9.20	7.80	7.30	6.85	6.50	5.70	5.10	4.80	7.10
30.	7.50		11.67	9.22	7.78	7.30	6.85	6.45	5.70	5.10	4.80	6.95
31.	6.97		11.90		7.73		6.80	6.42		5.05		6.63
Mean.	6.92	8.59	11.71	9.25	7.89	7.36	6.91	6.50	5.83	5.18	4.86	6.59
Monthly Mean.	7.05	7.80	9.82	10.11	8.33	7.51	7.08	6.63	6.07	5.41	4.89	5.77
Max.	7.50	9.40	12.40	12.00	9.10	7.75	7.30	6.80	6.40	5.70	5.00	7.10
Date.	30	23	26	3	1	1	3	4	2	3	6	30
Min.	6.70	6.55	7.60	9.10	7.70	7.30	6.80	6.40	5.70	5.05	4.80	4.75
Date.	27	5	6	23	31	30	31	31	30	31	30	6

RIVER: LITTLE RUAHA  
STATION: IWAWA  
STATION NO: IKA.39  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.77	6.80	7.60	10.37	7.98	7.05	6.65	6.30	5.90	5.35	4.80	5.12
2.	6.53	7.07	7.58	10.92	7.90	7.03	6.65	6.30	5.85	5.35	4.95	5.00
3.	6.42	7.77	7.58	11.50	7.82	7.00	6.65	6.25	5.83	5.30	4.95	5.20
4.	6.32	8.43	7.73	11.50	7.75	7.00	6.65	6.23	5.80	5.30	4.98	5.62
5.	6.37	8.08	7.95	11.68	7.70	7.00	6.65	6.20	5.80	5.30	5.00	5.87
6.	6.47	7.43	8.50	11.47	7.67	6.95	6.60	6.20	5.80	5.30	5.02	6.10
7.	6.73	7.30	9.18	11.22	7.60	6.95	6.60	6.20	5.75	5.40	5.20	6.08
8.	7.00	7.20	8.90	11.28	7.60	6.92	6.60	6.20	5.70	5.35	5.30	6.22
9.	7.13	7.10	8.50	11.08	7.60	6.90	6.60	6.15	5.70	5.30	5.30	6.33
10.	7.07	7.10	8.00	10.07	7.60	6.90	6.60	6.13	5.65	5.30	5.25	6.47
Mean.	6.68	7.43	8.15	11.11	7.72	6.97	6.63	6.22	5.78	5.33	5.08	5.80
11.	6.88	7.00	7.90	9.93	7.55	6.88	6.60	6.10	5.65	5.27	5.12	6.58
12.	6.90	6.90	7.83	9.77	7.55	6.85	6.60	6.10	5.60	5.25	4.97	7.12
13.	6.50	6.90	7.80	9.65	7.50	6.85	6.60	6.10	5.60	5.20	4.92	7.60
14.	6.40	6.90	7.92	9.40	7.50	6.85	6.60	6.10	5.60	5.20	4.90	7.58
15.	6.47	6.90	8.18	8.97	7.50	6.83	6.60	6.10	5.60	5.13	4.90	7.13
16.	6.67	6.90	8.28	8.83	7.50	6.80	6.60	6.10	5.55	5.10	4.87	6.90
17.	7.27	6.80	8.03	8.67	7.45	6.80	6.55	6.05	5.55	5.00	4.80	6.90
18.	7.60	6.80	7.93	8.57	7.45	6.78	6.55	6.00	5.50	5.00	4.73	6.93
19.	7.62	6.90	7.83	8.40	7.40	6.72	6.55	6.00	5.50	5.00	4.68	7.10
20.	7.70	6.97	7.90	8.37	7.40	6.70	6.55	6.00	5.50	5.00	4.65	7.10
Mean.	7.00	6.90	7.96	9.06	7.48	6.81	6.58	6.07	5.57	5.12	4.85	7.09
21.	8.07	7.10	8.00	8.27	7.40	6.70	6.50	6.00	5.45	5.00	4.60	7.20
22.	8.12	7.20	8.13	8.20	7.40	6.70	6.50	6.00	5.45	4.95	4.60	7.00
23.	7.70	7.30	8.28	8.12	7.33	6.70	6.45	6.00	5.40	4.95	4.60	6.85
24.	7.22	7.25	8.43	8.10	7.28	6.70	6.40	6.00	5.40	4.90	4.70	6.80
25.	6.97	7.40	8.57	8.03	7.20	6.70	6.40	5.98	5.40	4.90	4.80	6.70
26.	6.90	7.52	8.65	8.00	7.15	6.70	6.40	5.95	5.40	4.90	4.88	6.83
27.	6.90	7.50	9.05	8.07	7.10	6.70	6.35	5.90	5.35	4.90	4.90	6.73
28.	6.80	7.60	9.47	8.08	7.10	6.67	6.35	5.90	5.35	4.85	5.08	6.78
29.	6.83		9.63	8.07	7.12	6.65	6.30	5.90	5.35	4.85	5.07	6.98
30.	6.90		9.83	8.00	7.05	6.65	6.30	5.90	5.35	4.80	5.18	6.70
31.	6.80		10.07		7.03		6.30	5.90		4.80		6.70
Mean.	7.92	7.36	8.92	8.09	7.20	6.69	6.39	5.95	5.39	4.89	4.84	6.84
Monthly Mean.	6.97	7.22	8.36	9.42	7.46	6.82	5.53	6.07	5.58	5.10	4.92	6.59
Max.	8.30	8.60	10.10	11.80	8.00	7.05	6.65	6.30	5.90	5.50	5.30	7.60
Date.	22	4	31	5	1	2	5	2	1	7	9	13
Min.	6.30	6.80	7.50	8.00	7.00	6.65	6.30	5.90	5.35	4.80	4.60	5.00
Date.	5	18	3	30	31	30	31	31	30	31	24	3



RIVER: CHOSI FURROW  
 STATION: CHIMALA  
 STATION NO: IKA-40  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.35	1.10	1.32	1.52	1.40	0.93	0.93	0.93	0.90	1.03	1.00	1.03
2.	1.28	1.10	1.30	1.52	1.42	0.92	0.92	0.93	0.95	1.03	1.10	1.00
3.	1.22	1.10	1.28	1.48	1.45	0.90	0.93	0.93	0.95	1.05	1.03	1.03
4.	1.15	1.12	1.25	1.48	1.43	0.90	0.92	0.93	0.95	1.00	1.03	1.28
5.	1.38	1.08	1.27	1.55	1.40	0.90	0.93	0.93	0.95	1.00	1.00	1.08
6.	1.37	1.20	1.30	1.42	1.40	0.90	0.90	0.92	0.95	1.00	1.00	1.03
7.	1.53	1.20	1.43	1.40	1.40	0.90	0.90	0.92	1.07	1.00	1.00	1.30
8.	1.40	1.18	1.40	1.40	1.38	0.90	0.90	0.92	1.07	1.00	0.98	1.18
9.	1.32	1.15	1.40	1.40	1.35	0.90	0.90	0.92	1.08	1.00	0.98	1.13
10.	1.30	1.22	1.37	1.38	1.32	0.88	0.95	0.92	1.05	0.95	0.98	1.03
Mean.	1.33	1.15	1.33	1.46	1.40	0.90	0.92	0.93	0.99	1.01	1.01	1.11
11.	1.25	1.20	1.38	1.38	1.30	0.88	0.95	0.93	1.05	0.93	1.00	1.00
12.	1.28	1.25	1.32	1.35	1.30	0.87	0.98	0.93	1.03	0.93	0.98	1.00
13.	1.20	1.30	1.40	1.35	1.12	0.87	0.98	0.93	1.05	0.90	1.00	1.10
14.	1.17	1.28	1.37	1.35	1.10	0.85	0.98	0.93	1.05	0.90	0.93	1.20
15.	1.13	1.60	1.38	1.32	1.10	0.85	0.97	0.92	1.05	0.98	0.90	1.13
16.	1.12	1.45	1.42	1.33	1.10	0.85	0.97	0.92	1.05	0.98	0.88	1.13
17.	1.18	1.40	1.63	1.30	1.08	0.85	0.95	0.92	1.05	0.95	0.93	1.10
18.	1.18	1.40	2.05	1.30	1.05	0.85	0.95	0.92	1.02	1.08	0.93	1.20
19.	1.10	1.37	1.67	1.27	1.05	0.83	0.95	0.90	1.05	1.08	0.90	1.10
20.	1.10	1.35	1.63	1.28	1.02	0.83	0.95	0.90	1.05	1.08	1.25	1.10
Mean.	1.17	1.36	1.53	1.32	1.12	0.85	0.96	0.92	1.05	0.98	0.97	1.11
21.	1.20	1.38	1.57	1.25	1.03	0.83	0.93	0.90	1.05	1.05	1.30	1.23
22.	1.12	1.40	1.65	1.25	1.00	0.82	0.93	0.90	1.03	1.03	1.28	1.33
23.	1.13	1.35	1.55	1.30	1.00	0.82	0.93	0.90	1.10	1.03	1.20	1.48
24.	1.25	1.35	1.53	1.40	0.98	0.82	0.93	0.90	1.10	1.03	1.25	1.40
25.	1.22	1.35	1.55	1.37	0.97	0.80	0.93	0.90	1.03	1.03	1.25	1.38
26.	1.30	1.28	1.62	1.35	0.98	0.80	0.93	0.90	1.03	1.00	1.20	1.50
27.	1.33	1.25	1.58	1.33	0.97	0.80	0.92	0.90	1.03	1.00	1.10	1.48
28.	1.25	1.25	1.57	1.40	0.95	0.92	0.92	0.90	1.02	1.00	1.08	1.35
29.	1.23		1.65	1.40	0.95	0.93	0.92	0.90	1.02	1.00	1.17	1.33
30.	1.18		1.68	1.40	0.95	0.92	0.92	0.90	1.02	1.00	1.10	1.30
31.	1.12		1.62		0.95		0.92	0.90		1.00		1.30
Mean.	1.21	1.32	1.60	1.35	0.98	0.85	0.93	0.90	1.04	1.02	1.19	1.37
Monthly Mean.	1.24	1.27	1.49	1.37	1.16	0.87	0.94	0.91	1.03	1.00	1.06	1.20
Max.	1.53	1.60	2.05	1.55	1.45	0.93	0.98	0.93	1.10	1.08	1.30	1.50
Date.	7	15	18	5	3	2	16	18	24	20	21	26
Min.	1.10	1.10	1.25	1.25	0.93	0.80	0.90	0.90	0.90	0.90	0.88	1.00
Date.	20	3	4	22	31	27	9	31	1	14	16	12

RIVER: GHOSI FURROW  
 STATION: CHIMALA  
 STATION NO: LKA-40  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.27	1.65	1.50	2.78	2.02	1.60	1.50	1.58	1.55	1.50	1.60	1.65
2.	1.27	1.60	1.50	2.70	2.05	1.60	1.50	1.58	1.55	1.48	1.70	1.70
3.	1.22	1.72	1.50	2.62	2.00	1.60	1.50	1.58	1.55	1.48	1.75	1.75
4.	1.20	1.60	1.50	2.55	2.00	1.60	1.50	1.57	1.55	1.47	1.68	1.75
5.	1.22	1.52	1.58	2.50	1.98	1.60	1.50	1.57	1.55	1.47	1.70	1.75
6.	1.20	1.52	1.52	2.43	1.97	1.60	1.50	1.60	1.55	1.80	1.70	1.82
7.	1.20	1.45	1.60	2.35	1.93	1.60	1.50	1.60	1.50	1.70	1.65	1.73
8.	1.20	1.45	1.63	2.17	1.90	1.58	1.48	1.58	1.50	1.80	1.70	1.75
9.	1.20	1.42	1.70	2.03	1.90	1.57	1.48	1.57	1.50	1.70	1.80	1.70
10.	1.17	1.40	1.88	2.00	1.87	1.55	1.48	1.60	1.50	1.68	1.60	1.70
Mean.	1.21	1.53	1.59	2.41	1.96	1.59	1.49	1.58	1.53	1.61	1.69	1.73
11.	1.30	1.40	1.80	1.90	1.88	1.55	1.47	1.60	1.50	1.65	1.60	1.70
12.	1.20	1.42	1.80	1.88	1.85	1.55	1.47	1.60	1.50	1.60	1.55	1.80
13.	1.20	1.42	1.80	1.77	1.80	1.55	1.47	1.60	1.50	1.60	1.52	2.20
14.	1.20	1.37	1.72	1.78	1.80	1.55	1.45	1.60	1.50	1.60	1.50	2.10
15.	1.32	1.37	1.70	2.17	1.80	1.58	1.45	1.60	1.50	1.58	1.50	2.17
16.	1.47	1.37	1.70	2.20	1.80	1.57	1.45	1.60	1.50	1.58	1.50	2.08
17.	1.30	1.37	1.63	2.25	1.80	1.58	1.45	1.60	1.50	1.57	1.50	1.97
18.	1.30	1.55	1.62	2.25	1.75	1.55	1.45	1.80	1.50	1.57	1.50	1.90
19.	1.27	1.50	1.63	2.25	1.70	1.55	1.45	1.60	1.55	1.57	1.50	1.83
20.	1.30	1.45	1.60	2.23	1.70	1.55	1.45	1.58	1.55	1.73	1.50	1.80
Mean.	1.28	1.42	1.70	2.07	1.79	1.56	1.46	1.62	1.51	1.61	1.52	1.96
21.	1.22	1.40	1.60	2.22	1.70	1.55	1.43	1.57	1.55	1.67	1.70	1.80
22.	1.22	1.40	1.65	2.28	1.70	1.55	1.42	1.58	1.55	1.65	1.55	1.77
23.	1.20	1.40	1.60	2.20	1.70	1.53	1.40	1.60	1.60	1.63	1.55	1.88
24.	1.20	1.37	1.60	2.20	1.67	1.52	1.40	1.60	1.62	1.65	1.53	1.90
25.	1.20	1.50	1.80	2.23	1.68	1.50	1.40	1.60	1.58	1.60	1.50	1.85
26.	1.22	1.50	1.82	2.22	1.65	1.50	1.58	1.60	1.55	1.60	1.50	1.85
27.	1.20	1.47	2.98	2.18	1.65	1.50	1.58	1.60	1.55	1.65	1.90	1.85
28.	1.20	1.50	2.92	2.07	1.63	1.50	1.58	1.57	1.55	1.63	1.70	1.82
29.	1.55		2.90	2.08	1.60	1.50	1.57	1.58	1.55	1.63	1.72	1.80
30.	1.30		2.85	2.05	1.60	1.50	1.57	1.57	1.50	1.62	1.65	1.80
31.	1.30		2.80		1.60		1.57	1.55		1.67		1.80
Mean.	1.25	1.44	2.23	2.17	1.65	1.52	1.50	1.58	1.56	1.61	1.63	1.83
Monthly Mean.	1.25	1.47	1.85	2.22	1.80	1.55	1.48	1.59	1.53	1.62	1.61	1.84
Max.	1.55	1.65	2.98	2.78	2.05	1.60	1.58	1.80	1.62	1.80	1.90	2.20
Date.	29	1	27	1	1	7	31	18	24	8	27	13
Min.	1.20	1.37	1.50	1.77	1.60	1.50	1.40	1.55	1.50	1.47	1.50	1.65
Date.	27	24	3	14	31	30	25	31	30	5	20	1

RIVER: NISIGO  
 STATION: ILANGALI  
 STATION NO: IKA.41  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.												R
2.												I
3.												V
4.												E
5.												R
6.												
7.												D
8.												R
9.									Gauge Established			Y
10.									13th November			
Mean.												
11.											R	R
12.											I	I
13.											V	V
14.											E	E
15.											R	R
16.												
17.											D	
18.											R	D
19.											Y	R
20.												Y
Mean.												
21.											R	
22.											I	
23.											V	
24.											E	
25.											R	7.20
26.												6.40
27.											D	5.40
28.											R	4.60
29.											Y	3.60
30.												3.30
31.												3.00
Mean.												
Monthly Mean.												

RIVER: KISIGO  
 STATION: ILANGALI  
 STATION NO: IKA.41  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.50	2.30	5.10	8.00	1.50	2.00						
2.	2.10	1.80	4.40	5.10	1.60	1.00						
3.	1.55	1.60	3.43	4.40	1.70	0.80						
4.	1.20	1.40	2.83	3.70	1.83							
5.	1.10	1.30	3.00	3.07	1.90							
6.	1.00	1.30	4.30	2.57	1.70			River	Dry.			
7.	1.00	1.30	3.60	3.07	1.60							
8.	0.90	1.30	2.77	2.77	1.50							
9.	0.90	1.70	1.93	2.63	1.40							
10.	0.90	1.63	1.70	2.37	1.30							
Mean.	1.32	1.56	3.31	3.77	1.60							
11.	0.80	1.60	1.60	2.20	1.40							
12.	0.80	1.43	1.50	2.03	1.47							
13.	0.80	3.13	1.57	1.97	1.33							
14.	0.80	3.53	1.60	1.93	1.30							
15.	0.80	5.53	1.77	1.83	1.30			River	Dry.			
16.	0.80	5.60	1.53	1.70	1.30							
17.	0.80	4.97	1.43	1.80	1.20							
18.	0.80	4.28	1.47	1.70	1.20							
19.	0.80	4.87	2.50	1.70	1.20							8.50
20.	0.80	5.77	4.40	1.60	1.20							4.03
Mean.	0.80	4.07	1.94	1.85	1.29							
21.	0.80	4.83	7.90	1.60	1.20							5.70
22.	0.80	3.73	9.13	1.60	1.30							8.00
23.	0.80	7.27	8.47	1.50	1.30							6.97
24.	0.80	6.30	8.10	1.50	1.30							6.50
25.	0.80	5.97	7.70	1.50	1.30			River	Dry.			7.40
26.	0.80	5.10	8.30	1.50	1.30							9.67
27.	5.40	4.93	9.67	1.50	1.30							9.90
28.	5.00	4.60	8.93	1.50	1.30							6.77
29.	4.60		9.90	1.40	1.30							4.77
30.	3.80		9.27	1.50	1.30							3.73
31.	3.00		8.33		1.30							2.80
Mean.	2.42	5.34	8.70	1.51	1.29							6.56
Monthly Mean.	1.54	3.54	4.78	2.37	1.39							
Max.	5.40	7.40	10.20	8.20	2.10							
Date.	27	23	29	1	5							
Min.	0.80	1.30	1.50	1.40	1.20							
Date.	25	8	12	29	21							





RIVER: KISICO  
 STATION: KIKUNGURU  
 STATION NO: IKA.42  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.95	3.46	4.30	6.48	1.25	0.73						
2.	2.50	2.93	4.23	6.48	1.20	0.70						
3.	6.78	2.55	3.88	5.78	2.20	0.60						
4.	6.58	2.33	3.63	4.90	4.75	0.57						
5.	4.18	2.15	4.40	4.25	5.15	0.50		D R Y				
6.	3.63	1.93	3.33	3.83	4.80	0.50						
7.	3.05	1.73	3.43	3.43	4.50	0.50						
8.	2.68	2.63	3.15	3.10	4.25	0.50						
9.	2.50	2.65	2.95	2.83	4.00	0.43						
10.	2.40	2.53	4.33	2.48	3.28	0.30						
Mean.	3.73	2.49	3.76	4.36	3.54	0.53						
11.	2.88	2.98	3.63	2.45	2.83	0.33						
12.	2.85	4.25	4.03	2.13	2.73	0.32						
13.	2.55	4.35	3.43	2.13	2.40	0.30						
14.	2.10	4.75	3.20	1.85	2.23	0.30						
15.	2.00	7.00	3.20	2.05	2.05	0.30		D R Y				
16.	1.85	9.25	3.13	2.03	1.88	0.28						
17.	1.63	7.38	2.73	2.10	1.65	0.23						
18.	1.48	7.35	3.48	1.95	1.43	0.20						
19.	1.33	7.50	2.90	1.75	1.33	0.20						
20.	1.23	7.38	6.15	1.73	1.23	0.20						4.25
Mean.	1.99	6.22	3.59	2.02	1.98	0.26						
21.	1.20	6.50	4.90	1.60	1.20	0.20						4.68
22.	1.30	9.63	10.10	1.58	1.20	0.20						4.77
23.	1.35	8.28	9.83	1.50	1.20	0.10						4.78
24.	1.35	7.60	9.20	1.40	1.20	0.10						5.30
25.	1.30	6.58	8.50	1.30	1.20	0.10		D R Y				5.60
26.	1.33	6.03	8.33	1.33	1.20							5.55
27.	2.35	5.53	8.58	1.30	1.20							6.20
28.	3.25	4.65	8.78	1.30	1.20							5.15
29.	6.50		7.85	1.30	1.15							4.97
30.	6.03		7.18	1.30	0.98							4.85
31.	4.80		7.23		0.88							4.33
Mean.	3.04	6.75	8.22	1.26	1.15							5.11
Monthly Mean.	2.92	5.07	5.29	2.65	2.19							
Max.	6.80	9.80	10.10	6.60	5.20	0.75						6.55
Date.	3	22	22	2	5	1						27
Min.	1.10	1.60	2.50	1.30	0.85							
Date.	21	7	17	31	31							

RIVER: NJOMBE  
 STATION: ISANGA  
 STATION NO: IKA.43  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.			1.05	7.65	2.55	1.00						
2.			1.10	4.85	4.30	1.00						
3.			1.30	4.10	4.65	1.00						
4.			1.20	3.45	3.35	1.00						
5.	DRY		1.20	3.25	2.70	0.95				DRY		
6.			1.05	3.05	2.30	0.90						
7.			0.95	2.85	1.95	0.90						
8.			3.05	2.55	1.80	0.90						
9.			1.70	2.35	1.70	0.90						
10.			1.55	2.20	1.60	0.90						
Mean.			1.42	3.63	2.69	0.95						
11.			4.25	2.05	1.50	0.80						
12.			3.60	1.95	1.40	0.80						
13.			2.05	1.85	1.35	0.80						
14.			1.70	1.80	1.30	0.70						
15.	DRY		1.45	1.70	1.30	0.70				DRY		
16.			5.60	1.65	1.20							
17.			4.45	1.60	1.20							
18.			5.30	1.60	1.20							
19.			7.65	1.50	1.10							
20.			7.40	1.50	1.10							
Mean.			4.35	1.72	1.27							
21.		0.95	7.05	1.45	1.10							
22.		1.20	6.95	1.40	1.10							
23.		1.40	7.65	1.40	1.10							
24.		1.25	7.70	1.50	1.10							
25.	DRY	6.05	7.65	1.55	1.00					DRY		
26.		2.80	6.85	2.05	1.00							3.85
27.		1.70	6.25	2.05	1.00							2.35
28.		1.25	5.55	1.95	1.00							1.70
29.			5.05	1.80	1.00							1.15
30.			4.25	2.05	1.00							0.95
31.			7.70		1.00							0.85
Mean.		2.75	6.60	1.72	1.04							
Monthly Mean.			4.20	2.36	1.64							
Max.		6.70	7.80	7.70	5.00	1.00						4.20
Date.		25	31	1	3	5						26
Min.			0.90	1.40	1.00							
Date.			7	25	31							

RIVER: NJOMBE  
 STATION: ISANGA  
 STATION NO: 1KA.43  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.85	1.70	6.00	7.15	1.85							
2.	0.80	2.00	3.85	6.10	1.80							
3.	0.70	1.60	3.50	4.55	1.70							
4.	0.70	1.50	4.70	4.10	1.60							
5.	0.60	1.75	5.95	3.75	1.60							
6.	0.45	2.05	5.70	3.50	1.50							
7.	0.30	1.60	6.20	3.35	1.55							
8.	0.20	1.35	6.70	3.15	1.40							
9.	0.10	1.25	7.90	2.95	1.35							
10.	0.00	3.70	7.70	2.80	1.30							
Mean.	0.47	1.85	5.82	4.15	1.57							
11.	0.00	4.30	7.50	2.65	1.30							
12.	0.00	2.55	4.80	2.55	1.20							
13.	0.00	2.40	3.75	2.50	1.20							
14.	0.00	1.55	3.20	2.45	1.10							
15.	0.00	1.35	2.80	2.30	1.10							
16.	0.00	1.30	2.65	2.25	1.10							
17.	0.00	1.15	2.55	2.25	1.10							
18.	0.00	1.35	3.70	2.30	1.00							
19.	0.00	1.30	2.85	2.20	1.00							
20.	2.90	1.10	5.20	2.20	1.00							
Mean.	0.29	1.84	3.90	2.37	1.10							
21.	2.45	1.00	3.90	2.50	1.00							
22.	1.85	0.90	3.60	2.25	0.95							
23.	1.25	2.35	5.30	2.15	0.90							
24.	1.00	1.45	6.45	2.35	0.90							
25.	1.00	1.30	6.40	2.30	0.90							
26.	0.90	2.95	7.50	2.20	0.90							
27.	0.90	3.30	7.85	2.10	0.80							
28.	0.85	1.00	8.15	2.00	0.80							
29.	2.55		7.90	2.00	0.80							
30.	2.50		7.80	1.95	0.70							
31.	2.70		7.65		0.65							
Mean.	1.63	1.78	6.58	2.18	0.85							
Monthly Mean.		1.66	5.47	2.90	1.16							
Max.	3.70	4.40	8.40	7.30	1.90							
Date.	31	6	28	1	1							
Min.	Dry	0.90	2.50	1.90	0.60							
Date.	19	23	17	30	31							

RIVER: BUBU  
 STATION: CHANGWALE  
 STATION NO: IKA-44  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		DRY.	0.03	3.70	1.95	0.50						
2.			0.21	3.58	3.90	0.45						
3.		0.07	0.55	3.50	1.85	0.40						
4.		0.18	0.35	3.42	1.80	0.35						
5.	DRY	0.45	0.20	3.35	1.78	0.30	DRY	No Measurements from				
6.		1.63	0.07	3.28	1.72	0.25		August onwards as a				
7.		0.22	0.08	3.20	1.70	0.25		Dam has been built.				
8.		0.32		3.15	1.62	0.20						
9.		6.57	DRY	3.08	1.58	0.17						
10.		0.73		3.00	1.55	0.13						
Mean.				3.33	1.75	0.30						
11.		2.63		2.95	1.50	0.70						
12.		1.17		2.88	1.43							
13.		1.87		2.83	1.40							
14.		2.70		2.77	1.33							
15.	DRY	2.40	DRY	2.70	1.30		DRY					
16.		0.75		2.65	1.25							
17.		0.62	0.48	2.60	1.20							
18.		4.57	0.63	2.55	1.15							
19.		1.47	0.34	2.48	1.10							
20.		0.62	0.22	2.43	1.05							
Mean.		1.88		2.68	1.27							
21.		0.35	0.22	2.40	1.00							
22.		0.62	1.70	2.35	0.95							
23.	0.01	0.25	1.17	2.30	0.90							
24.	0.00	0.48	0.95	2.25	0.85							
25.	2.00	0.55	0.88	2.20	0.80		DRY					
26.		0.25	1.53	2.15	0.75							
27.	DRY	0.25	3.52	2.10	0.70							
28.		0.13	3.97	2.05	0.65							
29.			3.92	2.00	0.60							
30.			3.83	2.00	0.55							
31.			3.73		0.50							
Mean.		0.36	2.31	2.18	0.75							
Monthly Mean.				2.73	1.24							
Max.	2.70	8.00	4.00	3.70	1.95	0.50						
Date.	25	9	28	1	1	1						
Min.				2.00	0.50							
Date.				30	31							



RIVER: IPATAGWA  
 STATION: NEW ROAD  
 STATION NO: LKA.45  
 YEAR 1959.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.42	0.92	1.12	2.10	1.80	1.02	0.73	0.60	0.70	0.63	0.75	0.70
2.	0.42	0.90	1.10	2.02	1.83	1.00	0.73	0.62	0.70	0.63	0.75	0.72
3.	0.40	1.02	1.13	2.00	1.82	1.00	0.72	0.60	0.70	0.63	0.80	0.70
4.	0.40	1.00	1.12	1.90	1.73	1.00	0.72	0.60	0.70	0.62	0.75	0.70
5.	0.50	0.92	1.20	1.80	1.70	0.93	0.70	0.60	0.70	0.62	0.75	0.80
6.	0.42	0.92	1.13	1.73	1.70	0.93	0.70	0.60	0.70	0.80	0.75	0.73
7.	0.42	0.92	1.20	1.62	1.62	0.93	0.70	0.60	0.70	0.70	0.75	0.72
8.	0.60	0.92	1.10	1.60	1.60	0.92	0.70	0.52	0.70	0.85	0.75	0.80
9.	0.42	0.92	1.20	1.53	1.60	0.92	0.70	0.52	0.70	0.70	0.80	0.80
10.	0.42	1.00	1.30	1.50	1.53	0.92	0.70	0.60	0.70	0.70	0.75	0.73
Mean.	0.44	0.94	1.16	1.88	1.69	0.96	0.71	0.59	0.70	0.69	0.76	0.74
11.	0.42	0.90	1.20	1.42	1.50	0.90	0.70	0.60	0.70	0.70	0.70	0.72
12.	0.42	1.00	1.22	1.50	1.42	0.90	0.70	0.52	0.70	0.70	0.70	0.73
13.	0.55	1.10	1.20	1.40	1.43	0.90	0.70	0.52	0.70	0.70	0.70	0.60
14.	0.50	0.92	1.20	1.43	1.40	0.83	0.63	0.53	0.70	0.70	0.70	1.12
15.	0.75	0.90	1.20	1.40	1.32	0.83	0.63	0.73	0.63	0.70	0.63	0.53
16.	0.52	0.90	1.23	1.40	1.32	0.83	0.63	0.73	0.62	0.65	0.63	0.60
17.	0.90	0.92	1.20	1.40	1.30	0.83	0.63	0.73	0.70	0.80	0.62	0.60
18.	0.82	1.20	1.32	1.40	1.30	0.82	0.63	0.73	0.70	0.80	0.62	0.60
19.	0.80	1.00	1.30	1.42	1.23	0.82	0.65	0.75	0.70	0.82	0.65	0.60
20.	0.60	1.00	1.20	1.40	1.22	0.82	0.65	0.75	0.70	0.83	0.65	0.60
Mean.	0.63	0.98	1.23	1.42	1.34	0.85	0.66	0.66	0.69	0.74	0.66	0.67
21.	0.72	0.92	1.23	1.43	1.20	0.80	0.65	0.75	0.70	0.90	0.80	0.60
22.	0.70	1.10	1.30	1.43	1.20	0.80	0.65	0.75	0.70	0.83	0.70	0.60
23.	0.72	1.20	1.42	1.52	1.13	0.73	0.65	0.75	1.00	0.83	0.70	0.53
24.	0.80	1.12	1.40	1.52	1.12	0.73	0.63	0.75	0.93	0.83	0.70	0.53
25.	0.70	1.20	1.40	1.52	1.13	0.73	0.62	0.75	0.70	0.83	0.70	0.53
26.	0.70	1.20	1.50	1.60	1.10	0.73	0.62	0.75	0.70	0.83	0.70	0.60
27.	0.92	1.12	2.50	1.60	1.10	0.72	0.62	0.75	0.70	0.82	0.85	0.52
28.	0.72	1.12	2.30	1.80	1.02	0.72	0.62	0.75	0.70	0.82	0.85	0.52
29.	1.10		2.33	1.82	1.03	0.72	0.60	0.73	0.65	0.82	0.80	0.52
30.	0.82		2.30	1.83	1.03	0.72	0.62	0.72	0.65	0.82	0.70	0.52
31.	0.92		2.20		1.02		0.62	0.70			0.72	0.52
Mean.	0.80	1.12	1.81	1.61	1.10	0.74	0.63	0.74	0.74	0.82	0.75	0.54
Monthly Mean.	0.63	1.10	1.41	1.63	1.37	0.85	0.66	0.65	0.71	0.75	0.72	0.65
Max.	1.10	1.20	2.50	2.10	1.83	1.02	0.72	0.75	1.00	0.90	0.85	1.12
Date.	29	26	27	1	4	1	4	30	23	21	28	14
Min.	0.40	0.90	1.10	1.40	1.02	0.72	0.60	0.52	0.62	0.62	0.62	0.52
Date.	4	16	8	20	31	30	29	14	16	5	18	31

RIVER: HALALI  
 STATION: IYAI  
 STATION NO: IKA.46  
 YEAR:1958

Upstream Gauge

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	Gauge		3.25	5.50	3.96	2.18	1.70	1.50	1.48	1.43	1.30	1.30
2.	Installed		3.10	4.66	3.49	2.10	1.70	1.50	1.47	1.43	1.35	1.30
3.	7. 2. 58.		3.04	4.58	3.20	2.10	1.70	1.50	1.45	1.41	1.46	1.30
4.			2.95	4.63	3.13	2.10	1.70	1.50	1.45	1.40	1.38	1.30
5.			2.95	4.40	3.00	2.08	1.70	1.50	1.45	1.40	1.35	1.30
6.			3.33	4.30	3.00	2.08	1.70	1.50	1.45	1.40	1.32	1.30
7.		3.04	6.33	4.20	2.95	2.08	1.68	1.50	1.45	1.40	1.31	1.30
8.		2.60	5.13	4.10	2.79	2.05	1.66	1.50	1.45	1.40	1.37	1.30
9.		4.37	4.60	4.00	2.70	2.03	1.65	1.50	1.45	1.40	1.40	1.30
10.		3.86	4.04	3.97	2.70	2.00	1.65	1.50	1.45	1.43	1.40	1.30
Mean.			3.87	4.43	3.09	2.08	1.68	1.50	1.46	1.41	1.36	1.30
11.		3.97	4.13	3.90	2.70	1.98	1.63	1.50	1.45	1.43	1.40	1.30
12.		3.97	4.47	3.88	2.70	1.95	1.60	1.50	1.45	1.43	1.40	1.30
13.		4.17	3.94	3.80	2.68	1.95	1.60	1.50	1.45	1.42	1.40	1.32
14.		4.50	3.75	3.70	2.60	1.93	1.60	1.50	1.45	1.42	1.40	1.48
15.		4.40	3.65	3.66	2.60	1.90	1.60	1.50	1.45	1.40	1.40	1.50
16.		3.80	3.89	3.60	2.57	1.90	1.63	1.50	1.45	1.40	1.40	1.50
17.		4.33	5.47	3.58	2.51	1.90	1.61	1.48	1.48	1.40	1.40	1.50
18.		3.70	4.50	3.58	2.50	1.88	1.60	1.46	1.48	1.38	1.39	1.54
19.		3.36	4.13	3.53	2.50	1.87	1.58	1.45	1.48	1.35	1.36	1.60
20.		3.34	6.00	3.83	2.40	1.85	1.57	1.45	1.48	1.35	1.30	1.58
Mean.		3.95	4.39	3.71	2.58	1.91	1.60	1.48	1.46	1.40	1.39	1.46
21.		3.12	6.50	3.54	2.40	1.85	1.55	1.45	1.48	1.35	1.30	1.60
22.		3.81	7.73	3.40	2.40	1.85	1.53	1.45	1.45	1.33	1.30	1.84
23.		3.52	6.03	3.60	2.38	1.80	1.50	1.45	1.45	1.32	1.30	2.07
24.		3.28	6.50	3.54	2.35	1.78	1.50	1.45	1.45	1.30	1.30	2.12
25.		3.20	6.37	3.60	2.30	1.73	1.50	1.42	1.45	1.30	1.30	2.17
26.		3.11	7.77	3.60	2.28	1.73	1.50	1.40	1.45	1.30	1.28	1.99
27.		3.08	7.75	3.48	2.25	1.73	1.50	1.40	1.45	1.30	1.27	2.84
28.		3.10	6.30	3.30	2.23	1.72	1.50	1.40	1.45	1.30	1.30	2.06
29.			5.87	3.20	2.22	1.72	1.50	1.40	1.45	1.30	1.30	1.76
30.			6.20	3.67	2.20	1.70	1.50	1.40	1.45	1.30	1.30	1.60
31.			6.10		2.20		1.50	1.48		1.30		1.56
Mean.		3.28	6.65	3.49	2.29	1.76	1.51	1.43	1.45	1.31	1.30	1.96
Monthly Mean.			5.02	3.88	2.64	1.92	1.59	1.47	1.46	1.37	1.35	1.59
Max.		4.90	8.90	5.80	4.20	2.20	1.70	1.50	1.48	1.45	1.50	3.10
Date.		13	22	1	1	1	6	17	21	1	3	27
Min.			2.90	3.20	2.20	1.70	1.50	1.40	1.45	1.30	1.28	1.30
Date.			5	29	31	30	31	31	30	31	27	13

RIVER: HALALI  
 STATION: IYAYI  
 STATION NO: IKA.46  
 YEAR: 1959

Upstream Gauge

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.49	1.74	3.83	5.57	3.35	2.00	1.58	1.32	1.30	1.10	1.05	0.95
2.	1.41	2.63	4.13	7.80	3.28	1.98	1.57	1.33	1.28	1.10	1.77	1.01
3.	1.40	3.50	4.77	7.20	3.23	1.95	1.56	1.32	1.27	1.10	1.22	1.12
4.	1.40	3.40	4.40	5.89	3.10	1.91	1.55	1.33	1.26	1.10	1.10	1.06
5.	1.50	2.42	4.13	5.38	3.05	1.87	1.52	1.32	1.25	1.10	1.10	1.01
6.	1.43	2.07	3.87	5.03	3.05	1.85	1.53	1.33	1.25	1.35	1.10	1.10
7.	1.54	2.67	4.57	4.80	2.98	1.83	1.53	1.32	1.25	1.31	1.57	1.10
8.	1.82	2.03	4.10	4.70	2.90	1.83	1.53	1.33	1.25	1.20	1.43	1.01
9.	1.88	2.57	3.97	4.55	2.86	1.82	1.52	1.32	1.23	1.20	1.32	1.87
10.	1.63	2.67	3.83	4.43	2.83	1.82	1.52	1.33	1.22	1.20	1.18	1.48
Mean.	1.55	2.57	4.16	5.54	3.06	1.89	1.54	1.33	1.26	1.18	1.28	1.17
11.	1.63	2.20	3.73	4.30	2.80	1.78	1.52	1.32	1.20	1.17	1.08	4.17
12.	1.77	3.48	4.06	4.30	2.75	1.77	1.50	1.33	1.20	1.12	1.07	2.33
13.	1.79	3.17	4.40	4.20	2.66	1.75	1.48	1.32	1.20	1.09	1.05	2.57
14.	1.65	3.16	3.88	4.09	2.62	1.73	1.47	1.33	1.20	1.08	1.05	2.32
15.	2.43	2.72	3.67	4.00	2.58	1.73	1.44	1.32	1.20	1.05	1.03	2.07
16.	2.08	2.60	4.97	3.99	2.53	1.73	1.40	1.30	1.20	1.05	1.01	1.83
17.	2.40	2.90	4.15	4.00	2.48	1.72	1.40	1.30	1.20	1.05	0.98	1.57
18.	2.40	3.29	4.83	3.95	2.45	1.72	1.40	1.30	1.20	1.05	0.97	1.40
19.	2.39	3.73	4.87	3.90	2.43	1.70	1.40	1.30	1.20	1.05	0.96	1.37
20.	1.99	2.40	4.43	3.80	2.38	1.70	1.40	1.30	1.20	1.05	0.95	1.27
Mean.	2.05	2.97	4.30	4.05	2.47	1.73	1.44	1.31	1.20	1.08	1.02	2.09
21.	1.79	2.99	4.47	3.70	2.38	1.65	1.40	1.30	1.20	1.05	0.95	1.17
22.	1.70	4.27	4.55	3.60	2.32	1.68	1.40	1.30	1.20	1.05	0.93	1.13
23.	1.70	3.47	5.43	3.60	2.28	1.67	1.40	1.30	1.20	1.05	0.90	1.10
24.	1.62	3.43	4.63	3.51	2.26	1.70	1.40	1.30	1.20	1.05	0.90	1.08
25.	1.60	3.57	5.53	3.50	2.21	1.65	1.38	1.30	1.20	1.05	0.90	1.05
26.	1.56	3.40	5.36	3.50	2.15	1.63	1.35	1.30	1.20	1.05	0.90	2.07
27.	1.63	3.20	9.50	3.50	2.08	1.62	1.35	1.30	1.20	1.05	0.90	1.77
28.	1.68	5.16	6.34	3.50	2.05	1.60	1.35	1.30	1.18	1.05	0.90	1.51
29.	1.68		7.00	3.43	2.03	1.56	1.35	1.30	1.17	1.05	0.90	1.40
30.	1.68		7.30	3.40	2.01	1.55	1.34	1.30	1.13	1.05	0.95	1.40
31.	1.69		6.20		2.00		1.33	1.30		1.05		1.20
Mean.	1.67	3.69	5.76	3.52	2.16	1.63	1.37	1.30	1.19	1.05	0.91	1.35
Monthly Mean.	1.75	3.03	4.77	4.37	2.55	1.75	1.45	1.31	1.21	1.10	1.07	1.53
Max.	2.60	5.70	11.80	10.80	3.35	2.00	1.57	1.35	1.30	1.35	2.00	4.60
Date.	15	28	27	2	1	1	3	15	1	7	2	11
Min.	1.40	1.73	3.40	3.40	2.00	1.55	1.32	1.30	1.10	1.05	0.90	0.95
Date.	6	1	2	30	31	30	31	31	30	31	29	1



RIVER: LUNWA (LIOSI)  
STATION: NEW MBEYA ROAD  
STATION NO: IKA.48  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.										0.40	0.10	0.20
2.										0.40	0.10	0.20
3.										0.40	0.20	0.20
4.										0.40	0.10	0.20
5.										0.40	0.10	4.13
6.										0.40	0.20	1.60
7.										0.40	0.20	0.50
8.										0.40	0.20	0.50
9.										0.40	0.20	0.30
10.										0.40	0.20	0.30
<b>Mean.</b>										0.40	0.16	0.81
11.										0.40	0.20	0.30
12.										0.40	0.23	0.50
13.										0.40	0.23	0.40
14.										0.40	0.23	0.40
15.										0.40	0.23	4.10
16.										0.33	0.21	0.40
17.										0.33	0.21	0.40
18.										0.25	0.21	0.40
19.										0.30	0.23	0.40
20.										0.35	0.23	0.40
<b>Mean.</b>										0.36	0.22	0.77
21.										0.33	0.20	0.70
22.										0.23	0.33	0.40
23.										0.23	0.23	1.10
24.										0.33	0.23	1.10
25.										0.43	0.20	1.10
26.										0.40	0.20	1.10
27.										0.43	0.20	1.70
28.										0.23	0.20	1.70
29.										0.20	0.20	1.60
30.										0.20	0.20	1.60
31.										0.30		1.50
<b>Mean.</b>										0.30	0.22	1.24
<b>Monthly Mean.</b>										0.35	0.20	0.95
<b>Max.</b>										0.43	0.33	4.13
<b>Date.</b>										27	22	5
<b>Min.</b>										0.20	0.10	0.20
<b>Date.</b>										30	5	4

RIVER: LIOSI (LUNWA)STATION: NEW ROADSTATION NO: IKA.48YEAR: 1959

Levels on mid stream gauge

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.80	1.10	2.00	3.60	1.80	1.10	0.90	0.60	0.60	0.60	0.20	0.40
2.	0.80	1.20	2.00	3.50	1.80	1.00	0.90	0.63	0.60	0.60	0.20	0.50
3.	0.80	2.10	2.00	3.30	1.90	0.90	0.90	0.60	0.60	0.60	0.20	0.50
4.	0.80	2.10	2.10	3.10	1.90	1.10	0.90	0.60	0.60	0.60	0.20	0.40
5.	0.50	2.10	2.00	2.30	1.70	1.10	0.90	0.50	0.60	0.60	0.30	0.50
6.	0.50	2.10	2.00	2.10	1.70	1.00	0.90	0.50	0.60	0.60	0.30	0.50
7.	0.50	2.10	3.00	2.20	1.70	1.00	0.90	0.60	0.60	0.40	0.50	0.40
8.	0.40	2.00	3.00	2.10	1.70	1.00	0.90	0.60	0.50	0.40	2.00	0.40
9.	0.50	2.10	2.70	2.00	1.70	1.00	0.90	0.60	0.50	0.45	1.00	0.40
10.	0.50	2.00	2.70	1.90	1.70	1.00	0.90	0.60	0.50	0.50	0.80	0.40
Mean.	0.61	1.89	2.35	2.61	1.76	1.02	0.90	0.58	0.57	0.54	0.57	0.44
11.	0.50	2.10	3.20	1.90	1.70	1.00	0.90	0.60	0.50	0.50	0.70	0.50
12.	4.10	2.10	3.20	1.70	1.70	1.00	0.90	0.60	0.50	0.50	0.60	0.80
13.	0.70	2.10	3.10	1.90	1.70	0.90	0.90	0.60	0.50	0.50	0.70	1.30
14.	0.70	2.10	3.10	1.90	1.40	0.90	0.90	0.60	0.50	0.50	0.50	0.80
15.	0.70	2.10	3.20	2.10	1.40	0.90	0.90	0.60	0.50	0.50	0.40	0.80
16.	0.90	1.60	2.60	2.10	1.40	0.90	0.90	0.60	0.50	0.50	0.50	0.70
17.	3.90	1.60	2.60	2.00	1.40	0.90	0.90	0.60	0.50	0.50	0.50	0.70
18.	1.70	2.00	2.30	2.00	1.30	0.90	0.90	0.60	0.50	0.50	0.50	0.60
19.	1.60	2.00	2.10	2.00	1.30	0.90	0.90	0.60	0.50	0.50	0.50	0.50
20.	0.70	2.00	2.20	2.10	1.10	0.90	0.90	0.60	0.50	0.50	0.50	0.50
Mean.	1.55	1.97	2.76	1.97	1.44	0.92	0.90	0.60	0.50	0.50	0.54	0.72
21.	0.80	2.00	2.20	1.90	1.00	0.90	0.90	0.60	0.50	0.50	0.50	0.40
22.	1.30	1.70	2.20	1.90	1.20	0.90	0.90	0.60	0.60	0.50	0.50	0.40
23.	1.30	1.70	2.20	1.90	1.20	0.95	0.90	0.60	0.60	0.40	0.40	0.40
24.	1.30	1.70	2.20	1.90	1.20	0.95	0.90	0.50	0.60	0.40	0.40	0.50
25.	1.10	1.70	2.30	1.90	1.20	0.95	0.70	0.50	0.60	0.40	0.40	0.40
26.	1.40	1.70	2.90	1.90	1.20	0.95	1.70	0.60	0.60	0.40	0.40	0.40
27.	1.30	1.70	4.90	1.90	1.20	0.90	0.70	0.60	0.60	0.30	0.40	0.60
28.	1.10	1.70	5.70	1.80	1.20	0.90	0.70	0.60	0.60	0.30	0.70	0.60
29.	1.20		4.70	1.80	1.20	0.90	0.65	0.60	0.60	0.30	0.90	0.40
30.	1.70		4.00	1.80	1.10	0.90	0.60	0.60	0.60	0.20	0.70	1.00
31.	1.20		3.90		1.10		0.60	0.60		0.20		1.00
Mean.	1.25	1.74	3.39	1.87	1.16	0.92	0.75	0.58	0.59	0.35	0.53	0.55
Monthly Mean.	1.14	1.88	2.85	2.15	1.45	0.95	0.85	0.59	0.55	0.44	0.55	0.57
Max.	4.10	2.10	5.70	3.60	1.90	1.10	0.90	0.60	0.60	0.60	2.00	1.30
Date.	12	15	28	1	4	5	4	31	30	6	8	13
Min.	0.40	1.10	2.00	1.70	1.00	0.90	0.60	0.50	0.50	0.20	0.20	0.40
Date.	8	1	6	12	21	30	31	25	21	31	4	29

RIVER: MAMBI  
STATION: NEW MBEYA ROAD  
STATION NO: IKA.49  
YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.										0.30	0.30	0.30
2.										0.30	0.43	0.30
3.										0.30	0.40	0.30
4.										0.30	0.43	0.30
5.										0.33	0.33	1.30
6.										0.33	0.33	0.50
7.										0.43	0.33	0.30
8.										0.30	0.33	0.30
9.										0.23	0.30	0.30
10.										0.33	0.30	0.30
Mean.										0.32	0.35	0.42
11.										0.30	0.33	0.30
12.										0.43	0.33	0.40
13.										0.53	0.30	0.30
14.										0.30	0.30	3.10
15.										0.40	0.30	0.70
16.										0.30	0.30	0.70
17.										0.30	0.35	0.60
18.										0.30	0.30	0.40
19.										0.30	0.30	0.40
20.										0.33	0.30	0.70
Mean.										0.35	0.31	0.76
21.										0.33	0.30	0.40
22.										0.33	0.30	0.30
23.										0.43	0.40	1.00
24.										0.43	0.30	1.00
25.										0.43	0.30	1.00
26.										0.33	0.30	0.70
27.										0.33	0.30	0.70
28.										0.33	0.30	1.00
29.										0.33	0.30	0.80
30.										0.33	0.30	0.80
31.										0.33		0.70
Mean.										0.36	0.31	0.76
Monthly Mean.										0.34	0.32	0.65
Max.										0.53	0.43	3.10
Date.										13	4	14
Min.										0.30	0.30	0.30
Date.										19	31	22

RIVER: MAMBI  
 STATION: NEW ROAD  
 STATION NO: IKA.49  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.60	0.70	1.30	3.20	1.70	0.90	0.70	0.60	0.55	0.40	0.30	0.31
2.	0.60	0.80	1.20	2.10	1.70	0.90	0.70	0.60	0.55	0.40	0.30	0.31
3.	0.62	1.30	1.30	2.80	1.70	0.90	0.70	0.60	0.55	0.40	0.30	0.41
4.	0.60	1.30	1.30	2.10	1.70	0.90	0.70	0.60	0.55	0.40	0.30	0.43
5.	0.50	1.30	1.20	2.00	1.70	0.90	0.70	0.60	0.50	0.40	0.30	0.81
6.	0.50	1.30	1.20	2.30	1.70	0.90	0.70	0.60	0.50	0.40	0.33	0.80
7.	0.50	1.20	1.90	2.30	1.60	0.90	0.70	0.60	0.50	0.40	0.30	0.70
8.	0.50	1.20	2.00	2.30	1.60	0.90	0.70	0.60	0.50	0.40	1.80	0.70
9.	0.50	1.10	1.80	2.20	1.50	0.90	0.70	0.60	0.50	0.40	0.33	0.60
10.	0.60	1.20	1.80	2.20	1.50	0.90	0.70	0.60	0.50	0.40	0.33	0.60
Mean.	0.55	1.14	1.50	2.35	1.64	0.90	0.70	0.60	0.52	0.40	0.46	0.57
11.	0.50	1.20	1.80	2.20	1.40	0.90	0.70	0.60	0.50	0.40	0.30	0.30
12.	3.00	1.20	1.80	1.60	1.20	0.90	0.70	0.60	0.50	0.40	0.33	0.80
13.	0.60	1.20	1.70	1.60	1.20	0.90	0.65	0.60	0.50	0.40	0.33	2.40
14.	0.60	1.20	1.30	1.60	1.20	0.90	0.65	0.60	0.50	0.40	0.30	1.30
15.	0.75	1.20	1.30	1.60	1.20	0.90	0.65	0.60	0.50	0.40	0.33	0.80
16.	0.70	1.15	1.30	1.50	1.20	0.90	0.65	0.60	0.50	0.40	0.30	0.80
17.	3.90	1.10	1.50	1.50	1.20	0.90	0.65	0.60	0.50	0.40	0.25	0.80
18.	3.80	1.30	1.50	1.60	1.00	0.85	0.65	0.60	0.45	0.40	0.25	0.60
19.	1.10	1.30	1.40	1.50	1.00	0.85	0.65	0.60	0.45	0.40	0.25	0.60
20.	1.00	1.30	1.30	1.40	1.00	0.85	0.65	0.60	0.40	0.40	0.25	0.60
Mean.	1.60	1.22	1.49	1.61	1.16	0.89	0.66	0.60	0.48	0.40	0.29	0.95
21.	1.00	1.30	1.30	1.50	1.00	0.80	0.65	0.60	0.40	0.40	0.25	0.60
22.	1.00	1.20	1.30	1.40	1.00	0.80	0.60	0.63	0.40	0.40	0.25	0.50
23.	0.80	1.20	1.30	1.70	1.00	0.80	0.60	0.63	0.40	0.33	0.25	0.50
24.	0.80	1.10	1.30	1.60	1.00	0.80	0.60	0.53	0.40	0.33	0.35	0.70
25.	0.80	1.20	1.40	1.50	1.00	0.80	0.60	0.52	0.40	0.33	0.30	0.60
26.	0.80	1.20	1.80	1.70	1.00	0.80	0.60	0.52	0.40	0.33	0.30	0.60
27.	0.80	1.20	4.90	1.70	0.90	0.80	0.60	0.52	0.40	0.30	0.33	0.50
28.	0.70	1.30	3.00	1.70	0.90	0.80	0.60	0.50	0.40	0.30	0.30	0.50
29.	0.80		4.90	1.50	0.90	0.70	0.60	0.50	0.40	0.30	1.20	0.50
30.	0.80		3.90	1.70	0.90	0.70	0.60	0.50	0.40	0.30	0.33	0.51
31.	0.80		3.90		0.90		0.60	0.50		0.30		0.53
Mean.	0.83	1.21	3.82	1.60	0.95	0.78	0.60	0.55	0.40	0.33	0.39	0.55
Monthly Mean.	0.99	1.19	2.06	1.95	1.24	0.86	0.65	0.58	0.46	0.37	0.38	0.68
Max.	3.90	1.30	8.00	3.20	1.70	0.90	0.70	0.63	0.55	0.40	1.80	2.40
Date.	17	21	27	1	6	17	12	30	4	22	8	13
Min.	0.50	0.70	1.20	1.40	0.90	0.70	0.60	0.50	0.40	0.30	0.25	0.31
Date.	11	1	6	22	31	30	31	31	30	31	23	2

RIVER: MSWISWI  
STATION: NEW MBEYA ROAD  
STATION NO: IKA.50  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.										0.23	0.23	0.20
2.										0.23	0.33	0.23
3.										0.23	0.33	0.23
4.										0.23	0.23	0.23
5.										0.33	0.20	1.83
6.										0.33	0.23	1.23
7.										0.35	0.20	0.23
8.										0.35	0.23	0.33
9.										0.33	0.20	0.23
10.										0.33	0.20	0.23
Mean.										0.29	0.24	0.50
11.										0.27	0.23	0.23
12.										0.23	0.23	0.33
13.										0.13	0.23	0.33
14.										0.23	0.23	0.30
15.										0.33	0.23	0.33
16.										0.23	0.20	0.20
17.										0.23	0.23	0.30
18.										0.21	0.23	0.30
19.										0.23	0.23	0.30
20.										0.23	0.23	0.60
Mean.										0.23	0.23	0.32
21.										0.23	0.23	0.60
22.										0.23	0.23	0.30
23.										0.23	0.23	0.60
24.										0.23	0.23	0.60
25.										0.25	0.33	0.60
26.										0.25	0.33	0.50
27.										0.23	0.33	0.30
28.										0.23	0.33	0.60
29.										0.23	0.33	0.33
30.										0.23	0.33	0.33
31.										0.23		0.33
Mean.										0.23	0.29	0.46
Monthly Mean.										0.25	0.25	0.43
Max.										0.35	0.33	1.83
Date.										8	30	5
Min.										0.13	0.20	0.20
Date.										13	16	16

RIVER: MSWISWI  
 STATION: NEW ROAD  
 STATION NO: IKA.50  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.30	1.60	1.80			1.30	1.10	0.92	0.95	0.93	1.00	0.92
2.	1.20	1.30	1.70			1.30	1.10	0.92	0.93	0.90	0.80	0.90
3.	1.20	1.80	1.80			1.30	1.10	0.93	0.92	0.90	0.90	0.90
4.	1.20	1.60	1.70			1.30	1.10	0.93	0.90	0.90	0.90	0.98
5.	1.20	1.80	1.70			1.30	1.10	0.93	0.90	0.90	0.90	1.06
6.	1.20	1.60	1.70			1.20	1.10	1.00	0.90	0.90	0.90	0.98
7.	1.20	1.60	3.00			1.20	1.10	1.00	0.90	0.80	0.90	0.96
8.	1.20	1.60	3.00			1.20	1.00	1.00	0.90	0.80	2.20	0.94
9.	1.20	1.80	1.80			1.20	1.00	1.00	0.90	0.90	0.93	0.90
10.	1.20	1.60				1.20	1.00	1.00	0.90	1.00	0.93	0.84
Mean.	1.21	1.63				1.25	1.07	0.96	0.91	0.89	1.04	0.94
11.	1.20	1.80				1.30	1.00	1.00	0.90	0.80	0.90	0.84
12.	2.90	1.70				1.30	1.00	0.95	0.90	0.80	0.90	1.00
13.	1.30	1.60				1.30	1.00	0.95	0.90	0.80	0.90	3.80
14.	1.30	1.60				1.30	1.00	0.95	0.90	0.80	0.90	1.30
15.	1.70	1.60				1.30	1.00	0.90	0.90	0.90	0.90	1.08
16.	1.60	1.80				1.30	1.00	0.90	0.90	0.90	0.85	1.00
17.	4.10	1.70				1.30	1.00	0.90	0.90	0.80	0.83	1.04
18.	3.00	1.80				1.30	1.00	0.90	0.90	0.80	0.83	0.94
19.	2.30	1.80				1.20	1.00	0.90	0.90	0.80	0.83	0.90
20.	1.30	1.80				1.20	1.00	0.90	0.90	0.80	0.82	0.90
Mean.	2.07	1.72				1.28	1.00	0.93	0.90	0.82	0.87	1.28
21.	1.30	1.80				1.20	1.00	0.90	0.90	0.80	0.82	0.90
22.	1.30	1.80				1.20	1.00	0.90	0.90	0.80	0.82	0.90
23.	1.20	1.70				1.13	1.00	0.90	0.90	0.80	0.85	0.94
24.	1.30	1.70				1.15	1.00	0.90	0.90	0.80	0.95	1.00
25.	1.30	1.80				1.15	1.00	0.90	0.90	0.80	0.95	0.90
26.	1.40	1.80			1.35	1.15	1.00	0.90	0.90	0.80	0.95	0.90
27.	1.40	1.70			1.35	1.15	1.00	0.90	0.90	0.80	0.90	0.90
28.	1.40	1.70			1.30	1.10	1.00	0.90	0.90	0.80	1.10	0.90
29.	1.30				1.30	1.10	1.00	0.90	0.90	0.80	1.30	0.98
30.	1.60				1.30	1.10	0.90	0.90	0.90	1.00	0.90	0.98
31.	1.60				1.30		0.90	0.90		1.00		1.00
Mean.	1.37	1.75				1.14	0.98	0.90	0.90	0.84	0.95	0.94
Monthly Mean.	1.55	1.70				1.22	1.01	0.93	0.90	0.85	0.95	1.05
Max.	4.10	1.80				1.30	1.10	1.00	0.95	1.00	2.20	3.80
Date.	17	26				18	7	11	1	31	8	13
Min.	1.20	1.30				1.10	0.90	0.90	0.90	0.80	0.80	0.84
Date.	23	2				30	31	31	30	14	2	11

RIVER: MSOLWA  
STATION : MSOLWA EST.  
STATION NO: IKB.1  
YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.									0.40	0.30	0.15	0.15
2.									0.40	0.30	0.15	0.15
3.									0.45	0.30	0.30	0.10
4.									0.45	0.30	0.35	-
5.									0.45	0.30	1.20	-
6.									0.40	0.40	0.40	0.05
7.								0.70	0.40	0.35	0.22	-
8.								0.60	0.40	0.30	0.20	-
9.								0.57	0.40	0.25	0.20	-
10.								0.57	0.30	0.20	0.10	0.05
Mean.								0.61	0.41	0.30	0.33	0.10
11.								0.55	0.30	0.20	0.10	0.05
12.								0.55	0.30	0.20	0.10	-
13.								0.60	0.30	0.20	0.10	-
14.								0.60	0.30	0.20	0.15	-
15.								0.65	0.30	0.25	0.15	-
16.								0.60	0.30	0.25	0.42	0.82
17.								0.62	0.40	0.25	0.47	0.20
18.								0.62	0.40	0.20	0.25	0.10
19.								0.50	0.30	0.20	0.10	0.35
20.								0.52	0.30	0.20	0.32	0.32
Mean.								0.58	0.32	0.22	0.22	0.31
21.								0.50	0.30	0.20	0.25	0.20
22.								0.50	0.35	0.10	0.20	0.32
23.								0.55	0.35	0.10	0.20	0.20
24.								0.50	0.35	0.10	0.20	0.10
25.								0.40	0.30	-	0.25	0.10
26.								0.40	0.30	-	0.25	0.20
27.								0.40	0.35	-	0.22	0.17
28.								0.40	0.30	-	0.15	0.10
29.								0.40	0.30	-	0.10	0.10
30.								0.40	0.30	-	0.10	0.27
31.								0.40	-	-	-	0.15
Mean.								0.44	0.32		0.19	0.17
Monthly Mean.									0.35		0.21	
Max.									0.45		1.20	
Date.									3-6		20	
Min.									0.30		0.10	
Date.									30		30	

RIVER: MSOLWA  
 STATION: MSOLWA EST  
 STATION NO: IKB.1  
 YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.10	0.72	0.60	0.90	1.87	1.25	0.72	0.30	0.12			
2.	0.40	0.60	0.60	0.95	1.67	1.22	0.72	0.55	0.10			
3.	0.22	0.50	0.77	0.92	1.52	1.15	0.65	0.55	0.10			
4.	0.22	0.60	0.92	0.90	1.50	1.20	0.62	0.47	0.12			
5.	0.25	0.62	0.82	0.80	1.55	1.20	0.62	0.40	0.10			
6.	0.35	0.62	0.80	1.62	1.42	1.22	0.62	0.50	0.10			
7.	0.32	0.85	0.85	1.22	1.30	1.22	0.60	0.50	0.10	No Records		
8.	0.40	0.62	1.05	1.20	1.35	1.10	0.60	0.37	0.10			
9.	0.32	0.55	1.57	1.25	1.22	1.15	0.57	0.27	0.10			
10.	0.25	0.55	1.47	1.47	1.20	1.10	0.52	0.22	0.10			
Mean.	0.28	0.62	0.95	1.12	1.46	1.18	0.62	0.41	0.10			
11.	0.22	0.52	1.52	1.22	1.20	1.47	0.50	0.22	0.10			
12.	0.15	0.49	1.38	1.42	1.17	1.32	0.32	0.20	0.10			
13.	0.22	0.92	1.32	1.27	1.10	1.30	0.50	0.20	0.10			
14.	0.32	0.55	1.20	1.22	1.10	1.22	0.50	0.20	0.10	No Records		
15.	0.42	0.50	1.60	1.15	1.10	1.15	0.50	0.20				
16.	0.62	0.50	1.37	1.10	1.10	1.12	0.45	0.20				
17.	0.80	0.70	1.25	1.00	1.12	1.10	0.40	0.20				
18.	0.82	0.62	1.12	1.82	1.00	1.12	0.40	0.20				
19.	0.62	0.62	1.10	2.27	1.02	1.02	0.40	0.20				
20.	0.52	0.55	1.37	1.72	1.00	1.00	0.40	0.20				
Mean.	0.47	0.60	1.32	1.42	1.09	1.18	0.44	0.20				
21.	0.62	0.82	1.22	1.52	1.00	0.90	0.40	0.20				
22.	0.52	0.75	1.05	1.62	1.00	0.92	0.40	0.17				
23.	1.42	0.65	1.90	1.60	1.22	0.90	0.40	0.15				
24.	1.12	0.57	1.42	1.40	1.60	0.87	0.40	0.15		No Records.		
25.	1.02	0.50	1.22	2.65	1.32	0.80	0.40	0.10				
26.	0.95	0.62	1.10	2.62	1.20	0.82	0.40	0.10	0.27			
27.	0.70	0.55	1.00	2.30	1.22	0.80	0.37	0.10				
28.	0.72	0.50	1.12	2.27	1.30	0.70	0.32	0.10				
29.	0.62	0.60	1.00	2.52	1.42	0.70	0.30	0.10				
30.	0.60		1.00	2.15	1.30	0.72	0.30	0.10				
31.	0.50		0.90		1.32		0.30	0.10		0.20		
Mean.	0.80	0.62	1.17	2.07	1.26	0.81	0.36	0.12				
Monthly												
Mean.	0.53	0.61	1.15	1.54	1.27	1.06	0.47	0.24				
Max.	1.50	0.95	2.00	2.70	1.95	1.50	0.75	0.70				
Date.	23	20	23	25	1	11	2	3				
Min.	0.10	0.14	0.60	0.80	1.00	0.70	0.30	0.10				
Date.	1	12	2	5	22	30	31	31				





RIVER: KILOMBORO  
 STATION: IREKABA  
 STATION NO: IKB-2  
 YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.50	3.42	7.19	10.11	18.25	15.70	9.98	6.00	4.90	4.05	(3.07)	2.00
2.	1.45	3.65	7.19	10.25	18.37	15.71	9.81	5.95	4.85	4.05	(2.28)	1.95
3.	1.40	3.72	7.20	10.33	18.50	15.48	9.80	5.90	4.80	4.02	(2.20)	1.95
4.	1.35	3.90	7.52	10.72	18.57	15.28	9.42	5.80	4.77	4.00	(2.82)	1.90
5.	1.20	3.90	7.61	11.37	18.77	15.07	9.20	5.75	4.75	3.95	(2.73)	1.90
6.	1.20	4.00	7.71	12.01	18.95	14.87	8.97	5.70	4.75	3.95	(2.65)	1.85
7.	1.10	4.12	7.90	12.20	19.05	14.55	8.76	5.70	4.70	3.92	(2.57)	1.85
8.	1.02	4.30	7.94	12.37	19.02	14.30	8.56	5.65	4.70	3.90	(2.48)	1.85
9.	1.00	4.50	7.95	12.63	18.93	14.07	8.37	5.65	4.65	3.85	2.40	1.80
10.	0.90	4.62	7.98	12.95	18.83	13.89	8.17	5.61	4.65	3.82	2.40	1.80
Mean.	1.21	4.01	7.62	11.49	18.72	14.89	9.10	5.77	4.75	3.95	2.70	1.88
11.	0.90	4.85	8.00	13.10	18.71	13.62	8.02	5.55	4.60	3.75	2.40	1.75
12.	0.90	5.20	8.02	13.48	18.60	13.33	7.88	5.44	4.60	3.72	2.37	1.70
13.	0.90	5.25	8.21	14.26	18.50	13.09	7.76	5.40	4.55	3.70	2.32	1.75
14.	0.95	5.35	8.15	14.67	18.37	12.89	7.59	5.35	4.50	3.67	2.30	1.90
15.	0.95	5.50	8.15	15.00	18.23	12.78	7.48	5.30	4.45	3.62	2.25	1.90
16.	1.00	5.70	8.17	15.74	18.11	12.65	7.39	5.18	4.45	3.60	2.20	2.00
17.	1.30	5.80	8.20	16.44	17.92	12.49	7.28	5.10	4.40	3.55	2.15	2.45
18.	1.50	5.95	8.21	16.74	17.72	12.29	7.18	5.05	4.40	3.50	2.22	2.60
19.	1.70	6.10	8.30	16.97	17.46	12.08	7.08	5.00	4.35	3.45	2.12	2.80
20.	1.82	6.12	8.55	17.07	17.27	11.88	6.98	5.00	4.35	3.42	2.10	3.05
Mean.	1.19	5.58	8.20	15.35	18.09	12.71	7.46	5.24	4.46	3.60	2.24	2.19
21.	1.90	6.30	8.60	17.19	17.13	11.71	6.91	5.00	4.30	3.40	2.10	3.17
22.	2.00	6.40	8.66	17.28	16.95	11.52	6.80	5.00	4.30	3.35	2.10	3.22
23.	2.00	6.50	8.70	17.39	16.79	11.33	6.72	5.00	4.25	3.30	2.10	3.32
24.	2.00	6.50	8.75	17.52	16.65	11.15	6.62	5.00	4.25	3.25	2.10	3.47
25.	2.07	6.60	8.75	17.69	16.60	10.95	6.52	5.00	4.20	3.20	2.05	3.57
26.	2.00	6.70	8.96	17.82	16.48	10.78	6.43	5.00	4.17	3.20	2.05	3.67
27.	2.22	6.72	9.13	17.92	16.34	10.58	6.35	5.00	4.15	3.17	2.05	3.75
28.	2.35	6.90	9.51	18.05	16.30	10.44	6.29	5.00	4.10	3.15	2.10	3.80
29.	2.77		9.80	18.15	16.23	10.26	6.20	5.00	4.10	3.15	2.10	3.80
30.	2.95		9.75	18.20	16.14	10.13	6.15	5.00	4.05	3.10	2.05	3.85
31.	3.15		9.90		16.00		6.05	4.95		3.15		3.82
Mean.	2.31	6.58	9.14	17.72	16.51	10.88	6.46	4.99	4.19	3.22	2.08	3.59
Monthly Mean.	1.60	5.31	8.34	14.85	17.73	12.83	7.64	5.32	4.47	3.58	2.34	2.59
Max.	3.20	6.90	9.95	18.20	19.05	15.90	10.00	6.00	4.90	4.05	3.07	3.90
Date.	31	28	31	30	7	1	1	1	1	3	1	31
Min.	0.90	3.40	7.10	10.10	16.00	10.10	6.05	4.95	4.05	3.10	2.05	1.70
Date.	13	1	1	1	31	30	31	31	30	30	30	12

RIVER: KILOMBERO  
 STATION: IFAKARA  
 STATION NO: LKB.2  
 YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.52	10.40	16.68	16.40	20.50	18.43	11.42	8.16	6.50	5.38	4.20	3.30
2.	3.42	10.75	16.60	16.46	20.55	18.16	11.29	8.10	6.42	5.30	4.20	3.35
3.	3.40	11.07	16.65	16.77	20.60	18.02	11.15	8.01	6.40	5.35	4.10	3.30
4.	3.40	11.47	16.65	17.22	20.65	17.78	11.01	8.00	6.34	5.28	4.10	3.30
5.	3.42	11.65	16.60	17.45	20.73	17.43	10.88	7.92	6.28	5.25	4.15	3.20
6.	3.65	11.95	16.45	17.78	20.74	17.19	10.72	7.90	6.25	5.10	4.10	3.40
7.	3.92	12.23	16.25	17.77	20.84	16.96	10.57	7.86	6.20	5.14	4.10	3.45
8.	4.07	12.43	16.13	17.62	20.85	16.71	10.42	7.83	6.10	5.00	4.10	3.40
9.	4.30	12.72	16.02	17.46	20.80	16.46	10.28	7.80	6.15	5.05	4.00	3.53
10.	4.47	13.12	16.02	17.52	20.70	16.19	10.11	7.76	6.08	4.92	4.05	3.61
Mean.	3.76	11.78	16.41	17.25	20.70	17.33	10.78	7.93	6.27	5.15	4.10	3.38
11.	4.65	13.33	16.00	17.62	20.70	15.91	10.04	7.74	6.05	4.86	4.00	3.70
12.	4.85	13.63	15.95	17.70	20.75	15.62	10.00	7.70	6.00	4.85	3.90	3.75
13.	4.97	13.74	15.90	17.60	20.60	15.35	9.92	7.60	5.90	4.76	3.95	3.70
14.	5.25	14.05	15.85	17.53	20.63	14.89	9.82	7.63	5.95	4.75	3.90	3.80
15.	5.45	14.28	15.80	17.62	20.52	14.63	9.68	7.60	5.90	4.70	3.80	3.85
16.	5.70	14.43	15.80	17.72	20.43	14.36	9.58	7.52	5.80	4.60	3.85	3.93
17.	6.02	14.62	15.80	17.82	20.31	14.12	9.48	7.50	5.85	4.64	3.80	4.00
18.	6.42	14.80	15.75	18.10	20.29	13.83	9.38	7.41	5.80	4.60	3.80	3.92
19.	6.42	14.91	15.70	18.37	20.20	13.56	9.28	7.40	5.72	4.50	3.70	3.93
20.	6.52	15.42	15.76	18.60	20.05	13.35	9.18	7.34	5.65	4.55	3.75	4.00
Mean.	5.63	14.30	15.83	17.87	20.45	14.56	9.64	7.54	5.86	4.61	3.84	3.85
21.	6.82	15.79	15.80	18.64	20.00	13.15	9.08	7.40	5.60	4.50	3.70	4.00
22.	6.92	15.98	15.70	18.76	19.94	12.96	8.98	7.20	5.50	4.40	3.60	4.05
23.	7.40	16.10	15.72	19.08	19.85	12.75	8.90	7.12	5.55	4.45	3.65	4.00
24.	7.70	16.15	15.70	19.29	19.70	12.59	8.80	7.10	5.50	4.40	3.60	4.00
25.	8.05	16.20	15.60	19.67	19.60	12.39	8.72	7.00	5.42	4.40	3.50	4.12
26.	8.40	16.20	15.40	19.92	19.43	12.25	8.62	6.92	5.55	4.30	3.55	4.20
27.	8.72	16.59	15.30	20.00	19.33	12.07	8.53	6.88	5.40	4.35	3.50	4.31
28.	9.07	16.70	15.36	20.02	19.05	11.90	8.45	6.80	5.48	4.30	3.40	4.41
29.	9.42	16.72	15.55	20.13	18.98	11.72	8.40	6.70	5.45	4.30	3.45	4.33
30.	9.82		15.76	20.33	18.73	11.62	8.30	6.65	5.40	4.20	3.40	4.34
31.	10.05		15.96		18.53		8.22	6.60		4.25		4.43
Mean.	8.40	16.27	15.62	19.58	19.37	12.34	8.64	6.93	5.49	4.35	3.53	4.20
Monthly Mean.	6.01	14.05	15.94	18.23	20.15	14.74	9.67	7.45	5.87	4.72	3.83	3.82
Max.	10.10	16.75	16.70	20.35	20.85	18.45	11.45	8.20	6.50	5.40	4.20	4.45
Date.	31	29	1	30	8	1	1	1	1	1	2	31
Min.	3.40	10.30	15.30	16.35	18.50	11.60	8.20	6.60	5.40	4.20	3.40	3.20
Date.	5	1	27	1	31	30	31	31	30	30	30	5

RIVER: KILOMBERO  
STATION: IFAKARA  
STATION NO: IKD.2  
YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.63	7.51	9.33	9.35	21.31	19.35	10.01	7.51	6.07	5.12	4.13	3.20
2.	4.72	7.40	9.39	9.90	21.23	19.00	10.01	7.51	6.03	5.03	4.03	3.12
3.	4.81	7.44	9.42	10.08	21.15	18.70	9.91	7.50	5.90	5.00	4.00	3.10
4.	4.82	7.52	9.50	10.28	21.01	18.50	9.69	7.44	5.95	4.93	4.03	3.10
5.	4.94	7.71	9.55	10.51	20.98	18.16	9.57	7.43	5.90	4.82	4.00	3.00
6.	5.23	7.72	9.50	10.81	21.13	17.95	9.43	7.37	5.80	4.73	3.95	3.00
7.	5.40	7.80	9.60	11.26	21.01	17.66	9.34	7.41	5.83	4.70	3.87	3.00
8.	5.53	7.85	9.61	11.75	20.91	17.30	9.26	7.43	5.70	4.62	3.82	3.05
9.	5.54	7.80	9.65	11.83	20.81	17.00	9.16	7.31	5.73	4.62	3.82	3.17
10.	5.74	7.92	9.60	12.06	20.71	16.56	9.06	7.30	5.60	4.57	3.70	3.25
Mean.	5.14	7.67	9.51	10.78	21.02	18.02	9.54	7.42	5.85	4.81	3.94	3.10
11.	5.90	8.03	9.50	12.25	20.61	16.19	8.95	7.21	5.63	4.53	3.75	3.30
12.	5.95	8.13	9.55	12.45	20.51	15.98	8.87	7.21	5.50	4.50	3.75	3.30
13.	6.07	8.32	9.45	12.96	20.46	14.66	8.76	7.25	5.55	4.50	3.75	3.32
14.	6.22	8.32	9.33	13.56	20.36	14.33	8.67	7.15	5.47	4.40	3.60	3.45
15.	6.30	8.42	9.29	14.05	20.31	14.05	8.56	7.05	5.41	4.40	3.60	3.53
16.	6.34	8.40	9.21	14.55	20.20	13.68	8.45	7.01	5.40	4.45	3.65	3.63
17.	6.51	8.50	9.12	15.05	20.05	13.39	8.39	6.93	5.45	4.40	3.60	3.80
18.	6.62	8.55	9.03	15.43	20.00	13.08	8.27	6.80	5.27	4.30	3.50	3.85
19.	6.72	8.56	8.95	15.75	19.76	12.79	8.27	6.80	5.22	4.30	3.55	3.85
20.	6.77	8.62	8.88	16.11	19.52	12.48	8.19	6.73	5.23	4.35	3.50	3.93
Mean.	6.34	8.39	9.23	14.22	20.18	14.06	8.54	7.01	5.41	4.41	3.63	3.60
21.	6.98	8.72	8.83	16.81	19.28	12.18	8.16	6.70	5.17	4.32	3.55	3.98
22.	7.04	8.82	8.72	17.20	19.04	11.95	8.05	6.63	5.11	4.20	3.50	4.03
23.	7.22	8.92	8.60	17.48	18.80	11.69	7.99	6.50	5.13	4.20	3.48	4.08
24.	7.43	9.02	8.50	17.85	18.55	11.46	7.94	6.55	5.02	4.20	3.43	4.13
25.	7.30	9.09	8.55	18.51	18.38	11.19	7.88	6.40	5.25	4.10	3.40	4.27
26.	7.35	9.16	8.54	18.85	18.25	11.01	7.84	6.43	5.31	4.10	3.33	4.50
27.	7.30	9.25	8.63	19.41	18.16	10.79	7.79	6.30	5.20	4.14	3.35	4.53
28.	7.32	9.29	8.74	19.95	18.00	10.58	7.74	6.33	5.24	4.13	3.30	4.62
29.	7.42		8.91	20.75	17.88	10.44	7.69	6.21	5.20	4.10	3.20	4.72
30.	7.40		8.94	21.21	17.82	10.23	7.67	6.18	5.13	4.00	3.25	4.85
31.	7.55		9.12		18.05		7.57	6.13		4.13		5.01
Mean.	7.29	9.03	8.23	18.80	18.47	11.15	7.85	6.40	5.18	4.15	3.38	4.43
Monthly Mean	6.29	8.31	9.14	14.60	19.84	14.41	8.62	6.93	5.48	4.45	3.65	3.73
Max.	7.55	9.35	9.65	21.30	21.34	19.50	10.05	7.55	6.10	5.12	4.13	5.01
Date.	31	28	9	30	1	1	1	2	1	1	1	31
Min.	4.60	7.40	8.50	9.30	17.80	10.20	7.54	6.10	5.00	4.00	3.20	3.00
Date	1	2	24	1	30	30	31	30:31	24	30	29	5-7

RIVER: KILOMBERO  
STATION: IFAKARA  
STATION NO: IKB.2  
YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.20	5.00	8.05	15.95	19.75	16.25	8.45	6.30	5.20	4.55	3.65	3.20
2.	5.40	5.00	8.15	16.70	19.82	15.90)	8.45	8.25	5.13	4.50	3.65	3.20
3.	5.55	5.01	8.30	16.76	19.80	14.80	8.35	6.20	5.10	4.45	3.65	3.20
4.	5.71	5.08	8.31	17.05	19.85	14.55	8.20	6.10	5.06	4.40	3.65	3.25
5.	5.87	5.05	8.43	17.16	19.85	14.20	8.15	6.05	5.05	4.40	3.65	3.25
6.	5.95	5.18	8.63	17.63	19.80	13.90	7.97	6.00	5.00	4.35	3.60	3.22
7.	6.05	5.10	8.90	17.96	19.70	13.60	7.95	5.97	5.00	4.30	3.60	3.28
8.	6.13	5.11	9.10	18.25	19.60	13.30	7.80	5.93	5.00	4.30	3.60	3.35
9.	6.17	5.15	9.25	18.40	19.60	13.02	7.75	5.90	5.00	4.30	3.55	3.35
10.	6.21	5.21	9.40	18.45	19.50	12.72	7.68	5.83	5.00	4.25	3.55	3.35
Mean.	5.82	5.09	8.65	17.43	19.73	14.22	8.08	6.05	5.06	4.38	3.62	3.27
11.	6.30	5.45	9.65	18.48	19.50	12.38	7.63	5.83	5.00	4.25	3.50	3.30
12.	6.37	5.73	9.91	18.48	19.40	11.83	7.55	5.80	5.00	4.20	3.45	3.30
13.	6.41	6.15	10.15	18.50	19.30	11.52	7.45	5.72	5.00	4.20	3.40	3.30
14.	6.48	6.40	10.50	18.35	19.20	11.23	7.43	5.75	5.00	4.20	3.40	3.30
15.	6.51	6.58	10.58	18.27	19.10	10.93	7.35	5.72	5.00	4.20	3.35	3.35
16.	6.58	6.80	10.65	18.22	19.00	10.80	7.33	5.63	5.00	4.20	3.35	3.42
17.	6.60	6.95	10.80	18.06	18.90	10.60	7.25	5.50	4.95	4.20	3.35	3.55
18.	6.65	7.15	10.95	18.00	18.25	10.45	7.22	5.50	4.95	4.15	3.30	3.68
19.	6.65	7.41	11.15	17.96	18.80	10.25	7.13	5.53	4.93	4.15	3.30	3.80
20.	6.65	7.67	11.23	17.86	18.75	10.08	7.05	5.40	4.90	4.10	3.30	3.90
Mean.	6.52	6.63	10.56	18.22	19.08	11.01	7.34	5.64	4.97	4.19	3.37	3.49
21.	6.58	7.80	11.35	17.76	18.70	9.88	7.03	5.42	4.90	4.10	3.30	4.25
22.	6.48	7.91	11.45	17.87	18.70	9.68	6.93	5.45	4.85	4.10	3.30	4.35
23.	6.35	8.00	11.61	17.90	18.60	9.53	6.83	5.35	4.85	4.00	3.30	4.55
24.	6.12	8.05	11.83	18.13	18.40	9.40	6.73	5.33	4.80	3.95	3.30	4.85
25.	5.88	8.10	11.95	18.45	18.30	9.25	6.63	5.30	4.80	3.90	3.25	4.90
26.	5.60	8.13	11.95	18.75	18.10	9.15	6.55	5.30	4.80	3.85	3.20	4.92
27.	5.35	8.03	12.02	19.08	17.80	8.92	6.55	5.30	4.73	3.80	3.20	5.00
28.	5.18	8.00	12.37	19.23	17.50	8.65	6.45	5.25	4.70	3.75	3.20	5.07
29.	5.07		12.87	19.52	17.20	8.55	6.42	5.25	4.60	3.70	3.20	5.12
30.	5.00		14.05	19.70	16.40	8.45	6.37	5.20	4.60	3.70	3.20	5.27
31.	5.00		15.33		16.60		6.30	5.20		3.70		5.33
Mean.	5.69	8.00	12.43	18.64	17.89	9.15	6.62	5.30	4.76	3.87	3.25	4.87
Monthly Mean.	6.00	6.47	10.61	18.10	18.87	11.46	7.32	5.65	4.93	4.14	3.41	3.91
Max.	6.65	8.15	15.60	19.70	19.85	16.25	8.45	6.30	5.20	4.55	3.65	5.40
Date.	20	26	31	30	5	1	2	1	1	1	5	31
Min.	5.00	5.00	8.05	15.95	16.60	8.45	6.30	5.20	4.60	3.70	3.20	3.20
Date.	31	2	1	1	31	30	31	31	30	31	30	3

RIVER: KILOMBERO  
STATION: IFAKARA  
STATION NO: LKB.2  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.45	7.45	8.10	12.40	14.55	9.70	5.20	4.70	3.55	2.75	2.27	2.87
2.	5.55	7.57	8.50	12.45	14.65	8.90	5.30	4.70	3.50	2.75	2.25	3.00
3.	5.65	7.67	8.75	12.55	14.55	8.70	5.35	4.60	3.50	2.70	2.25	3.10
4.	5.80	8.13	8.85	12.63	14.45	7.93	5.20	4.60	3.50	2.70	2.25	3.20
5.	5.95	8.35	9.10	12.73	14.40	7.60	5.20	4.50	3.50	2.70	2.20	3.23
6.	6.07	8.40	9.10	12.85	14.30	7.40	5.20	4.50	3.45	2.70	2.20	3.20
7.	6.15	8.40	9.28	12.85	14.20	7.13	5.15	4.50	3.40	2.65	2.20	3.20
8.	6.20	8.40	9.87	12.80	14.10	6.90	5.15	4.40	3.35	2.65	2.20	3.20
9.	6.23	8.40	9.90	12.85	14.00	6.70	5.15	4.40	3.35	2.60	2.20	3.20
10.	6.10	8.40	9.95	12.70	13.90	6.50	5.10	4.30	3.20	2.60	2.15	3.25
Mean.	5.92	8.12	9.14	12.68	14.31	7.75	5.20	4.52	3.43	2.68	2.22	3.15
11.	5.90	8.40	9.83	12.65	13.78	6.50	5.00	4.30	3.20	2.85	2.15	3.20
12.	5.70	8.30	9.75	12.60	13.70	6.20	5.00	4.20	3.20	2.85	2.10	3.28
13.	5.42	8.75	9.63	12.65	13.65	6.15	5.00	4.20	3.15	2.90	2.10	3.45
14.	5.30	8.85	9.60	12.50	13.60	6.00	5.00	4.20	3.15	2.95	2.05	3.50
15.	5.20	8.62	9.73	12.55	13.55	5.95	5.00	4.10	3.15	2.95	2.05	3.65
16.	5.12	8.52	9.93	12.40	13.50	5.85	5.00	4.10	3.10	2.90	2.00	3.82
17.	5.60	8.48	10.20	12.40	13.40	5.80	5.00	4.10	3.00	2.90	2.00	3.90
18.	5.00	8.30	10.40	12.52	13.27	5.70	5.00	4.00	3.00	2.80	1.95	4.03
19.	4.93	8.18	10.67	12.60	13.13	5.65	5.00	4.00	3.00	2.70	1.90	4.20
20.	5.02	8.10	10.93	12.60	12.98	5.60	5.00	4.00	2.90	2.60	1.83	4.32
Mean.	5.26	8.45	10.07	12.55	13.46	5.94	5.00	4.12	3.09	2.84	2.01	3.74
21.	5.15	7.95	11.57	12.60	12.83	5.53	5.00	3.90	2.90	2.55	1.80	4.40
22.	5.27	8.00	11.93	12.67	12.50	5.50	5.00	3.90	2.90	2.50	1.80	4.50
23.	5.50	7.90	12.32	12.70	12.30	5.42	4.95	3.80	2.85	2.50	1.75	4.60
24.	5.75	7.85	12.35	12.80	12.10	5.40	4.95	3.80	2.85	2.50	1.80	4.70
25.	5.95	7.93	12.43	13.00	11.80	5.40	4.90	3.80	2.80	2.45	1.80	4.70
26.	6.10	7.93	12.42	13.29	11.55	5.35	4.90	3.80	2.80	2.45	1.90	4.60
27.	6.42	7.92	12.30	13.55	11.10	5.30	4.90	3.80	2.80	2.40	2.15	4.60
28.	6.72	8.02	12.20	14.23	10.75	5.28	4.80	3.80	2.80	2.40	2.35	4.45
29.	7.00		12.15	14.30	10.30	5.25	4.80	3.70	2.75	2.35	2.58	4.30
30.	7.15		12.33	14.40	10.12	5.20	4.75	3.70	2.75	2.30	2.70	4.18
31.	7.28		12.40		9.97		4.75	3.60		2.30		3.92
Mean.	6.21	7.94	12.22	13.35	11.39	5.36	4.88	3.78	2.82	2.43	2.06	4.45
Monthly Mean.	5.81	8.18	10.53	12.86	13.00	6.35	5.02	4.13	3.11	2.64	2.10	3.80
Max.	7.30	8.85	12.45	14.40	14.65	9.70	5.35	4.70	3.55	2.95	2.70	4.70
Date.	31	14	26	30	2	1	3	2	1	15	30	25
Min.	4.90	7.40	8.10	12.40	9.95	5.20	4.75	3.60	2.75	2.30	1.75	2.85
Date.	19	1	1	19	31	30	31	31	30	31	23	1

RIVER: LUMENO  
STATION: IFAKARA  
STATION NO: IKB.3  
YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.									3.00	2.65	2.28	2.05
2.									3.00	2.65	2.25	2.05
3.									3.00	2.65	2.25	2.05
4.									2.95	2.65	2.27	2.05
5.									2.95	2.65	2.43	2.05
6.									2.95	2.60	2.60	2.05
7.									2.92	2.60	2.58	2.00
8.									2.90	2.60	2.37	2.00
9.									2.85	2.55	2.30	2.00
10.									2.85	2.55	2.25	1.97
Mean.									2.94	2.62	2.36	2.03
11.									2.85	2.55	2.25	1.95
12.								3.37	2.85	2.55	2.25	1.93
13.								3.35	2.83	2.50	2.20	2.25
14.								3.30	2.80	2.50	2.20	2.45
15.								3.25	2.80	2.50	2.20	2.27
16.								3.25	2.77	2.47	2.20	2.30
17.								3.25	2.75	2.45	2.75	2.98
18.								3.25	2.75	2.45	2.60	2.50
19.								3.25	2.75	2.40	2.30	2.42
20.								3.20	2.75	2.40	2.25	2.48
Mean.								3.27	2.79	2.48	2.42	2.35
21.								3.15	2.75	2.35	2.25	2.45
22.								3.15	2.70	2.35	2.25	2.35
23.								3.15	2.70	2.35	2.22	2.25
24.								3.10	2.70	2.35	2.18	2.12
25.								3.10	2.70	2.35	2.15	2.10
26.								3.10	2.70	2.35	2.12	2.15
27.								3.08	2.70	2.30	2.10	2.20
28.								3.05	2.70	2.30	2.08	2.10
29.								3.05	2.70	2.30	2.05	2.05
30.								3.05	2.65	2.30	2.05	2.25
31.								3.02		2.30		3.03
Mean.								3.09	2.70	2.33	2.14	2.50
Monthly Mean.									2.81	2.47	2.31	2.22
Max.									3.00	2.65	2.85	3.35
Date.									3	5	18	31
Min.									2.65	2.30	2.05	1.90
Date.									30	31	30	12

RIVER: LUMENO  
STATION: IPAKARA  
STATION NO: IKB.3  
YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.37	3.82	(6.36)	8.22	10.46	6.02	4.33	3.50	2.90	2.54	2.12	1.90
2.	2.30	3.48	(6.45)	5.48	9.29	6.47	4.28	3.50	2.90	2.50	2.10	1.90
3.	2.63	3.42	(6.53)	11.36	8.58	6.54	4.40	3.62	2.85	2.48	2.10	1.90
4.	2.97	4.23	(6.61)	10.56	8.27	5.95	4.30	3.70	2.85	2.45	2.10	1.90
5.	2.58	3.53	6.70	7.30	8.51	5.63	4.20	3.59	2.85	2.40	2.10	1.90
6.	3.22	3.49	8.22	10.46	7.77	5.92	4.20	3.41	2.85	2.40	2.23.	2.16
7.	2.73	3.49	(8.78)	8.00	7.41	5.68	4.10	3.40	2.83	2.40	2.21	2.39
8.	2.67	3.96	(9.34)	7.27	7.12	5.50	4.10	3.33	2.80	2.40	2.20	2.05
9.	2.45	3.55	9.90	7.00	7.00	5.30	4.10	3.30	2.80	2.35	2.10	1.98
10.	2.28	4.58	7.31	12.00	7.46	5.27	4.02	3.30	2.88	2.35	2.10	1.90
Mean.	2.62	3.76	7.62	8.77	8.19	5.83	4.20	3.47	2.85	2.43	2.14	2.00
11.	2.27	5.69	10.36	11.16	7.21	5.39	3.99	3.30	2.80	2.30	2.10	1.90
12.	2.20	4.94	6.81	10.52	7.16	5.51	3.95	3.30	2.73	2.30	2.10	1.85
13.	2.23	3.98	6.63	8.34	6.50	5.35	3.90	3.25	2.71	2.30	2.05	1.80
14.	2.85	3.89	5.69	8.68	6.40	5.15	3.90	3.25	2.70	2.30	2.05	1.90
15.	3.35	3.64	6.29	9.04	6.40	5.29	3.90	3.25	2.70	2.30	2.05	2.00
16.	3.87	3.44	5.16	8.47	6.40	5.05	3.85	3.20	2.65	2.25	2.05	2.77
17.	5.10	4.96	(5.11)	11.58	6.66	4.90	3.85	3.10	2.65	2.25	2.05	2.60
18.	4.85	5.57	(5.07)	11.38	6.32	4.90	3.82	3.10	2.63	2.21	2.00	1.90
19.	4.15	6.67	(5.03)	11.70	6.26	4.89	3.76	3.10	2.60	2.20	2.00	1.90
20.	3.32	12.88	(4.99)	11.52	6.20	4.80	3.70	3.10	2.60	2.20	2.00	1.90
Mean.	3.42	5.57	6.11	10.24	6.55	5.12	3.86	3.20	2.68	2.26	2.05	2.05
21.	3.88	8.71	(4.95)	10.48	6.15	4.70	3.70	3.10	2.60	2.20	1.95	1.90
22.	3.25	6.80	(4.91)	9.10	6.09	4.60	3.70	3.05	2.52	2.20	1.95	1.90
23.	8.74	5.36	(4.87)	8.45	5.91	4.60	3.70	3.00	2.50	2.20	1.95	1.90
24.	7.87	(6.25)	4.83	8.37	5.94	4.50	3.68	3.00	2.50	2.20	1.95	1.90
25.	8.40	(7.14)	4.43	12.32	5.83	4.50	3.64	3.00	2.50	2.20	1.90	2.23
26.	5.84	(8.03)	4.26	13.18	5.76	4.60	3.60	3.00	2.60	2.20	1.90	2.57
27.	4.96	8.91	4.11	13.30	5.66	4.45	3.60	2.95	3.04	2.20	1.90	3.65
28.	3.76	6.20	4.30	11.84	5.60	4.40	3.60	2.95	2.64	2.20	1.90	3.90
29.	3.38	(6.28)	5.08	12.08	5.51	4.40	3.55	2.95	2.60	2.17	1.90	3.41
30.	3.87		4.41	12.84	5.62	4.35	3.50	2.95	2.60	2.15	1.90	2.74
31.	3.41		4.81		5.84		3.50	2.90		2.26		4.64
Mean.	5.21	7.08	4.63	11.20	5.81	4.51	3.61	2.98	2.61	2.20	1.92	2.79
Monthly Mean.	3.80	5.41	6.08	10.07	6.81	5.15	3.88	3.21	2.71	2.29	2.03	2.29
Max.	9.70			14.80	10.80	6.80	4.35	3.70	3.20	2.55	2.25	5.10
Date.	23			25	1	3	1	4	27	1	6	31
Min.	2.15	3.35	4.10	5.20	5.50	4.35	3.50	2.90	2.50	2.15	1.90	1.80
Date.	13	3	27	2	29	30	31	31	25	30	30	13.



RIVER: LUMEN  
 STATION: IEAKARA  
 STATION NO: IKB.3  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.06	4.80	2.30	3.60	6.50	5.40	3.73	3.10	2.50	2.22	2.40	1.70
2.	2.60	3.62	3.85	10.34	6.54	5.38	3.70	3.10	2.50	2.20	2.20	1.70
3.	2.50	3.40	3.16	5.74	6.36	5.34	3.70	3.10	2.50	2.20	2.20	1.70
4.	2.43	4.42	2.58	4.78	8.10	5.20	3.70	3.00	2.50	2.20	2.20	1.70
5.	2.61	6.31	2.59	5.24	13.48	5.20	3.70	3.00	2.45	2.20	2.00	1.70
6.	3.91	3.64	2.44	6.06	10.15	5.00	3.70	3.00	2.42	2.20	1.93	1.70
7.	4.38	5.03	2.34	6.98	12.20	4.92	3.61	3.00	2.40	2.20	1.90	1.70
8.	3.78	3.85	2.28	11.30	11.88	4.90	3.60	3.90	2.37	2.20	1.85	1.65
9.	3.21	3.64	2.25	7.10	10.78	4.85	3.50	3.20	2.35	2.20	1.85	1.65
10.	5.38	3.26	2.25	6.52	9.06	4.82	3.50	3.00	2.30	2.15	1.80	1.83
Mean.	3.39	4.20	2.60	6.77	9.50	5.10	3.64	3.14	2.43	2.20	2.03	1.70
11.	4.25	3.31	2.37	6.00	8.70	4.71	3.50	3.00	2.30	2.13	1.80	1.90
12.	3.00	3.33	2.32	6.70	8.48	4.70	3.50	3.00	2.30	2.10	1.80	1.90
13.	2.87	3.46	2.36	8.78	8.06	4.60	3.50	2.90	2.30	2.10	1.80	1.90
14.	3.47	3.00	2.69	6.24	7.52	4.53	3.50	2.90	2.30	2.10	1.80	1.80
15.	2.74	2.80	2.52	8.32	7.10	4.50	3.50	2.90	2.30	2.10	1.80	1.85
16.	2.54	2.73	4.85	14.71	7.26	4.50	3.50	2.85	2.30	2.20	1.80	2.20
17.	2.40	2.70	3.99	12.02	6.91	4.42	3.40	2.80	2.25	2.10	1.80	2.30
18.	2.30	2.70	3.72	10.67	7.10	4.31	3.30	2.80	2.25	2.10	1.80	2.20
19.	2.22	2.70	4.10	8.70	7.60	4.30	3.73	2.80	2.20	2.10	1.82	2.30
20.	2.19	2.56	4.94	10.02	7.52	4.23	3.63	2.75	2.20	2.00	1.90	2.30
Mean.	2.80	2.93	3.39	9.22	7.63	4.48	3.51	2.87	2.27	2.10	1.81	2.07
21.	3.37	2.46	3.75	12.02	6.96	4.20	3.30	2.70	2.20	2.00	1.90	2.10
22.	2.62	2.40	3.46	13.64	7.18	4.20	3.30	2.70	2.20	2.00	1.90	2.10
23.	4.29	2.40	3.36	10.10	6.86	4.20	3.23	2.70	2.20	1.90	1.90	2.10
24.	6.43	2.40	3.12	9.94	6.70	4.10	3.20	2.70	2.22	1.90	1.80	1.90
25.	3.76	2.36	2.91	9.62	6.48	4.10	3.20	2.65	2.69	1.90	1.80	1.90
26.	2.84	2.30	4.85	8.98	6.20	4.00	3.20	2.60	3.15	1.90	1.80	2.00
27.	3.03	2.30	3.96	7.60	6.10	3.92	3.20	2.60	2.53	1.90	1.80	2.00
28.	3.54	2.25	4.84	7.00	5.82	3.87	3.20	2.60	2.40	1.90	1.70	2.00
29.	3.73		4.32	7.28	5.72	3.83	3.20	2.53	2.30	2.00	1.70	2.00
30.	5.92		4.03	6.86	5.70	3.80	3.20	2.50	2.30	4.33	1.70	3.17
31.	8.18		4.44		5.50		3.20	2.50		3.01		3.70
Mean.	4.34	2.36	3.91	9.30	6.29	4.02	3.22	2.62	2.15	2.25	1.80	2.27
Monthly Mean.	3.53	3.22	3.32	8.43	7.76	4.53	3.45	2.87	2.36	2.19	1.88	2.02
Max.	8.18	6.31	4.94	14.71	13.48	5.40	3.73	3.90	3.15	4.33	2.40	3.70
Date.	31.	5	20	16	5	1	1	8	26	30	1	31
Min.	2.19	2.25	2.25	3.60	5.50	3.80	3.20	2.50	2.20	1.90	1.70	1.65
Date.	20	28	9-10	1	31	30	24-31	30-31	19-23	23-28	28-30	8-19

RIVER: KIJOMBERO  
 STATION: IFWEMA  
 STATION NO: IKB.4  
 YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	-	3.95	8.55	9.20	7.50	6.20	3.15	2.55	1.40	1.00	0.20	0.10
2.	0.10	3.85	9.80	9.90	6.90	6.00	3.10	2.65	1.40	1.00	0.30	0.10
3.	0.05	4.00	10.10	10.65	6.55	5.70	3.10	2.55	1.40	0.90	0.30	0.25
4.	-0.05	3.80	10.35	10.70	6.25	5.35	3.00	2.35	1.40	0.90	0.30	0.40
5.	-0.15	3.10	10.75	10.95	5.85	5.05	2.95	2.15	1.40	0.90	0.30	0.50
6.	-0.25	3.05	10.10	11.20	5.95	4.75	2.90	1.95	1.40	0.90	0.30	0.65
7.	-0.30	3.60	10.20	11.15	5.20	4.45	2.85	1.75	1.30	0.90	0.40	0.85
8.	-0.40	3.75	10.60	10.50	5.75	4.05	2.80	1.80	1.30	0.90	0.40	1.00
9.	-0.30	3.75	8.80	10.60	6.95	3.90	2.80	1.80	1.30	0.80	0.40	1.25
10.	-0.35	4.10	7.40	10.85	8.30	3.90	2.80	1.80	1.30	0.80	0.35	1.50
Mean.	-0.15	3.70	9.67	10.57	6.52	4.94	2.95	2.14	1.36	0.90	0.32	0.66
11.	-0.40	5.80	6.65	11.05	8.70	3.90	2.80	1.80	1.30	0.80	0.25	1.75
12.	-0.35	6.30	5.20	11.20	9.05	3.90	2.80	1.80	1.30	0.80	0.20	1.95
13.	0.25	6.70	6.25	11.05	8.50	3.95	2.80	1.80	1.30	0.75	0.20	2.30
14.	0.55	6.25	6.10	11.15	8.00	4.25	2.80	1.80	1.30	0.70	0.15	2.85
15.	1.15	6.10	5.60	11.20	6.20	4.45	2.80	1.70	1.30	0.60	0.10	3.20
16.	1.70	6.00	5.40	11.25	6.45	4.70	2.80	1.70	1.30	0.55	0.10	2.85
17.	1.80	6.20	4.40	11.15	6.65	4.85	2.70	1.70	1.30	0.50	0.10	2.60
18.	1.70	5.85	4.75	11.20	6.85	4.55	2.65	1.70	1.30	0.50	0.10	2.95
19.	1.55	5.80	3.95	11.40	5.30	4.35	2.55	1.70	1.30	0.50	0.10	2.85
20.	1.35	6.10	5.35	11.55	5.25	4.10	2.40	1.70	1.30	0.45	0.10	2.90
Mean.	0.93	6.11	5.37	11.22	7.10	4.30	2.71	1.74	1.30	0.62	0.14	2.62
21.	1.10	6.00	5.25	11.55	5.45	3.95	2.30	1.70	1.20	0.40	0.10	3.15
22.	1.10	6.20	4.55	11.35	5.90	3.90	2.30	1.70	1.20	0.40	0.10	3.35
23.	0.95	6.70	4.60	11.35	5.95	3.95	2.30	1.60	1.20	0.30	0.10	3.30
24.	0.80	6.95	4.85	11.25	5.95	3.90	2.20	1.60	1.20	0.30	0.05	3.55
25.	1.30	7.45	4.20	10.80	5.65	3.80	2.20	1.50	1.20	0.30	0.25	3.35
26.	2.85	7.10	4.85	10.45	5.95	3.80	2.20	1.50	1.20	0.30	0.35	3.05
27.	3.40	6.70	6.35	9.15	5.95	3.55	2.20	1.50	1.10	0.30	0.30	2.80
28.	4.05	6.80	6.80	8.50	5.90	3.40	2.20	1.50	1.10	0.30	0.20	2.45
29.	3.95		6.70	8.60	6.00	3.45	2.35	1.45	1.10	0.50	0.15	2.40
30.	4.20		7.15	8.00	6.80	3.45	2.45	1.40	1.00	0.45	0.10	2.05
31.	4.00		8.40		6.65		2.50	1.40		0.35		1.80
Mean.	2.52	6.74	5.79	10.10	6.01	3.72	2.29	1.53	1.15	0.35	0.17	2.84
Monthly Mean.	1.18	5.43	6.90	10.63	6.53	4.32	2.64	1.79	1.27	0.61	0.21	2.07
Max.	4.20	7.60	10.90	11.60	9.10	6.30	3.20	2.70	1.40	1.00	0.40	3.60
Date.	30	25	5	21	12	1	1	2	6	2	26	24
Min.	-0.40	3.00	4.10	7.90	5.10	3.40	2.20	1.40	1.00	0.30	0.10	0.10
Date.	12	6	25	30	19	30	28	31	30	31	30	2

January 2nd to September 30th water levels have been reduced by 1.90 (from graph)

RIVER: KILOMBERO  
 STATION: IFWEFA  
 STATION NO: IKB.4  
 YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.40	13.00	10.80	10.60	12.25	7.70	5.25	3.70	2.85	2.10	1.60	1.15
2.	1.20	11.75	10.85	10.75	12.30	7.35	5.20	3.70	2.80	2.10	1.60	1.10
3.	1.45	11.80	10.05	10.95	12.20	7.25	5.00	3.70	2.80	2.10	1.60	1.10
4.	2.60	11.80	9.55	11.00	12.20	6.85	4.90	3.70	2.80	2.00	1.50	1.00
5.	5.75	11.80	9.15	11.25	11.95	6.65	4.85	3.75	2.80	2.00	1.50	1.30
6.	5.95	11.80	8.75	11.55	11.75	6.55	4.80	3.80	2.80	2.00	1.50	2.05
7.	6.45	11.85	8.15	11.95	11.55	6.50	4.80	3.90	2.80	2.00	1.50	2.35
8.	6.10	12.05	7.65	12.20	11.25	6.35	4.70	3.90	2.80	2.00	1.50	2.45
9.	5.80	11.45	7.25	12.05	11.00	6.45	4.65	3.90	2.80	2.00	1.50	2.10
10.	5.35	10.85	7.45	11.95	10.70	6.50	4.60	3.90	2.80	1.90	1.50	1.75
Mean.	4.21	11.82	8.96	11.42	11.71	6.81	4.87	3.79	2.81	2.02	1.53	1.63
11.	4.80	10.80	8.20	11.85	10.60	6.50	4.60	3.80	2.80	1.90	1.50	1.50
12.	4.45	10.30	8.90	11.80	10.65	6.50	4.50	3.80	2.80	1.90	1.40	1.30
13.	4.05	10.05	9.70	11.65	10.45	6.50	4.55	3.70	2.80	1.90	1.40	1.30
14.	3.75	10.20	10.40	11.60	10.30	6.50	4.55	3.70	2.70	1.90	1.40	1.30
15.	3.50	10.30	11.05	11.60	10.15	6.40	4.50	3.70	2.65	1.90	1.30	1.35
16.	3.50	10.00	11.30	11.60	10.10	6.30	4.40	3.70	2.50	1.90	1.25	1.70
17.	5.25	9.25	11.45	11.60	10.10	6.20	4.30	3.60	2.50	1.90	1.20	1.90
18.	5.70	9.10	10.60	11.60	10.30	6.05	4.20	3.40	2.50	1.90	1.20	2.40
19.	6.75	9.35	9.65	11.60	10.35	5.90	4.15	3.40	2.40	1.90	1.20	2.00
20.	8.15	9.95	9.35	11.70	10.15	5.75	3.95	3.30	2.40	1.90	1.15	1.90
Mean.	4.99	9.93	10.06	11.66	10.31	6.26	4.37	3.61	2.61	1.90	1.30	1.66
21.	8.10	10.15	9.70	12.10	9.40	5.60	3.95	3.25	2.40	1.80	1.10	1.90
22.	8.10	10.45	10.75	12.40	8.95	5.60	4.00	3.20	2.40	1.80	1.10	1.90
23.	8.40	10.90	10.40	12.80	8.75	5.50	3.95	3.10	2.40	1.80	1.00	1.90
24.	9.35	11.20	9.90	12.65	8.45	5.50	3.90	3.10	2.30	1.80	1.00	1.75
25.	9.90	10.70	9.90	12.35	8.40	5.50	3.90	3.00	2.30	1.80	0.95	1.80
26.	11.50	10.30	10.30	12.10	8.40	5.50	3.85	2.95	2.30	1.70	0.90	1.70
27.	12.60	9.95	10.30	12.10	8.25	5.50	3.80	2.90	2.30	1.70	0.90	2.30
28.	12.70	9.80	10.65	12.00	8.15	5.45	3.80	2.90	2.30	1.65	0.95	4.00
29.	12.45	9.90	10.70	12.00	8.10	5.40	3.80	2.90	2.20	1.60	1.20	4.50
30.	12.60		10.35	12.05	8.05	5.30	3.80	2.90	2.20	1.60	1.20	4.05
31.	12.60		10.60		8.00		3.80	2.90		1.60		3.65
Mean.	10.75	10.37	10.32	12.25	8.44	5.48	3.78	3.01	2.31	1.71	1.03	2.67
Monthly Mean.	6.78	10.71	9.80	11.73	10.10	6.19	4.35	3.46	2.57	1.87	1.28	2.01
Max.	13.00	14.40	11.60	12.80	12.30	7.80	5.30	3.90	2.90	2.10	1.60	4.60
Date.	31	1	17	23	2	1	1	10	1	3	3	29
Min.	1.20	9.10	7.10	10.60	8.00	5.30	3.80	2.90	2.20	1.60	0.90	1.00
Date.	2	18	9	1	31	30	31	31	30	31	27	4

RIVER: KILOMBERO  
 STATION: IFEMA  
 STATION NO: IKB.4  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		8.75	5.45	10.85	10.50	7.10	5.30	3.80	2.90	2.20	1.50	0.90
2.		9.40	5.30	10.85	10.50	7.00	5.20	3.80	2.90	2.20	1.50	0.95
3.		9.80	5.35	10.85	10.50	6.90	5.20	3.80	2.90	2.20	1.50	1.55
4.		9.75	5.70	10.90	10.45	6.80	4.95	3.80	2.90	2.10	1.50	2.55
5.		10.30	6.20	11.10	10.25	6.75	4.90	3.80	2.85	2.10	1.50	3.35
6.		10.40	6.25	11.05	10.35	6.60	4.90	3.80	2.80	2.10	1.50	2.60
7.		9.95	6.00	11.15	10.45	6.60	5.10	3.80	2.80	2.10	1.45	1.85
8.		9.40	5.85	11.10	10.55	6.60	5.25	3.70	2.80	2.00	1.40	1.35
9.		9.05	5.75	11.10	10.60	6.50	5.15	3.85	2.80	2.00	1.40	1.35
10.		8.75	5.55	10.95	10.50	6.45	5.40	3.90	2.60	2.00	1.40	1.75
Mean.		9.56	5.74	10.99	10.46	6.73	5.14	3.81	2.83	2.10	1.47	1.82
11.		8.65	5.35	10.80	10.40	6.20	5.40	3.50	2.60	2.00	1.40	2.95
12.		8.60	5.15	10.65	10.35	6.20	5.15	3.40	2.60	2.00	1.40	2.35
13.		8.70	4.70	10.55	10.25	6.20	4.95	3.35	2.60	1.90	1.40	1.90
14.		8.60	4.55	11.20	10.05	5.90	4.80	3.30	2.60	1.90	1.40	1.80
15.		8.30	4.95	11.45	9.65	5.80	4.70	3.30	2.50	1.90	1.40	1.80
16.	5.40	7.00	5.00	11.90	9.45	5.80	4.60	3.30	2.50	1.90	1.40	1.90
17.	5.50	6.65	5.66	12.45	9.60	5.80	4.50	3.30	2.50	1.85	1.35	2.55
18.	3.65	6.85	6.50	13.20	9.55	5.80	4.40	3.30	2.40	1.80	1.30	3.30
19.	3.60	7.15	7.05	13.65	9.45	5.70	4.33	3.30	2.40	1.75	1.30	3.35
20.	3.40	7.60	7.45	13.80	9.25	5.70	4.25	3.30	2.40	1.70	1.30	4.50
Mean.		7.81	5.63	11.96	9.80	5.91	4.71	3.34	2.51	1.87	1.37	2.64
21.	3.85	8.20	7.60	13.75	9.00	5.70	4.18	3.30	2.40	1.70	1.25	4.75
22.	4.20	8.55	8.25	13.45	9.05	5.70	4.12	3.30	2.40	1.60	1.20	5.25
23.	4.20	8.05	9.05	13.05	9.10	5.70	4.08	3.20	2.40	1.60	1.15	5.40
24.	5.00	7.75	9.30	12.85	8.60	5.75	4.02	3.20	2.40	1.60	1.10	4.90
25.	5.70	6.55	9.45	12.55	8.50	5.65	3.98	3.20	2.40	1.60	1.05	6.00
26.	5.90	6.50	9.15	12.05	8.45	5.60	3.94	3.20	2.55	1.60	1.00	5.95
27.	5.45	6.10	9.20	11.65	8.15	5.60	3.90	3.10	2.70	1.50	1.00	5.25
28.	5.10	5.75	9.65	11.55	7.60	5.60	3.87	3.10	2.50	1.50	1.00	5.35
29.	5.75		10.45	11.50	7.35	5.50	3.84	3.10	2.40	1.50	1.00	5.25
30.	7.05		10.85	11.50	7.15	5.50	3.82	3.00	2.20	1.50	0.90	5.85
31.	8.05		10.90		7.10		3.81	2.95		1.50		6.05
Mean.	5.47	7.13	9.44	12.39	8.19	5.63	3.96	3.15	2.44	1.56	1.07	5.45
Monthly Mean.		8.24	7.09	11.78	9.44	6.09	4.58	3.42	2.59	1.84	1.30	3.37
Max.		10.40	10.90	13.80	10.60	7.10	5.40	3.90	2.90	2.20	1.50	6.10
Date.		6	30,31	20,21	7,8	1	10,11	9,10	1-5	1-3	1-6	25,31
Min.		5.70	4.50	10.50	7.10	5.50	3.81	2.90	2.20	1.50	0.90	0.90
Date.		28	14	13	30,31	29,30	31	31	30	27-31	30	1

RIVER: KILOMBERO  
 STATION: IFWEMA  
 STATION NO: IKB.4  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	6.55	3.25	5.30	11.60	12.20	5.70	3.90	2.70	2.20	1.70	1.20	1.10
2.	7.70	3.05	4.85	11.85	12.21	5.60	3.90	2.70	2.20	1.70	1.40	1.10
3.	8.70	3.20	5.70	11.95	12.37	5.50	3.90	2.70	2.20	1.70	1.50	1.00
4.	9.65	3.90	5.55	12.10	12.37	5.50	3.80	2.70	2.10	1.70	1.40	1.60
5.	9.20	4.50	5.50	12.20	12.20	5.47	3.80	2.70	2.10	1.60	1.33	1.83
6.	8.70	3.90	5.45	12.10	11.97	5.53	3.70	2.70	2.10	1.60	1.27	1.60
7.	8.05	4.40	5.80	11.95	11.60	5.60	3.70	2.70	2.10	1.60	1.20	1.37
8.	7.35	5.20	6.65	11.70	11.20	5.50	3.70	2.60	2.10	1.60	1.07	1.30
9.	6.85	4.85	7.50	11.30	10.80	5.43	3.60	2.60	2.10	1.57	1.00	1.20
10.	6.35	4.90	8.75	10.95	10.23	5.30	3.50	2.60	2.10	1.67	0.90	1.00
Mean.	7.91	4.10	6.11	11.77	11.72	5.51	3.75	2.67	2.13	1.64	1.23	1.31
11.	5.75	5.20	9.20	10.55	9.53	5.20	3.40	2.60	2.00	1.83	0.90	0.90
12.	5.40	5.60	9.55	10.00	8.97	5.20	3.40	2.60	2.00	1.87	0.90	1.00
13.	4.95	6.30	9.75	9.30	8.37	5.10	3.40	2.50	2.00	1.80	0.90	1.70
14.	4.30	6.80	9.80	8.50	8.13	5.03	3.30	2.50	2.00	1.80	0.90	2.20
15.	3.80	7.70	9.80	8.50	8.07	4.87	3.30	2.50	2.00	1.73	0.90	2.10
16.	3.55	8.55	9.90	8.27	7.67	4.80	3.30	2.50	1.90	1.70	0.90	2.30
17.	3.15	8.50	9.90	7.57	7.47	4.70	3.20	2.40	1.90	1.70	1.10	2.30
18.	2.80	8.15	10.10	7.40	7.33	4.70	3.20	2.40	1.90	1.60	1.20	3.00
19.	2.40	8.05	10.25	7.50	7.20	4.60	3.20	2.40	1.90	1.57	1.00	4.20
20.	2.15	7.55	10.35	8.00	6.93	4.60	3.10	2.40	1.80	1.50	1.00	4.07
Mean.	3.83	7.24	9.86	8.56	7.97	4.88	3.28	2.48	1.94	1.71	0.97	2.38
21.	2.35	6.95	10.55	8.77	6.87	4.50	3.10	2.40	1.80	1.40	1.00	4.40
22.	2.40	7.15	10.75	8.87	6.90	4.47	3.10	2.30	1.80	1.40	1.00	5.17
23.	2.70	7.15	11.25	8.90	6.80	4.30	3.00	2.30	1.80	1.40	0.90	4.93
24.	3.30	6.70	11.30	9.67	6.67	4.30	3.00	2.30	1.80	1.40	0.97	6.00
25.	3.60	5.95	11.20	10.53	6.47	4.27	3.00	2.30	1.80	1.40	1.10	7.00
26.	3.60	5.75	11.10	11.30	6.37	4.20	3.00	2.30	1.80	1.30	1.10	7.47
27.	3.85	5.90	11.10	11.63	6.23	4.20	2.90	2.30	1.80	1.30	1.00	7.60
28.	4.00	5.55	11.20	12.30	6.17	4.10	2.90	2.30	1.70	1.30	0.90	7.33
29.	4.05		11.35	12.19	6.07	4.10	2.90	2.20	1.70	1.23	0.90	6.33
30.	3.85		11.65	13.21	6.00	4.00	2.80	2.20	1.70	1.20	0.97	4.90
31.	3.65		11.70		5.87		2.80	2.20		1.20		3.30
Mean.	3.40	6.39	11.20	10.74	6.40	4.24	2.95	2.28	1.77	1.32	0.98	5.86
Monthly Mean.	4.99	5.87	9.12	10.36	8.62	4.88	3.32	2.47	1.95	1.55	1.06	3.27
Max.	9.80	8.60	11.70	12.20	12.40	5.80	3.90	2.70	2.20	1.70	1.50	7.90
Date.	4	17	31	5	4	1	3	7	3	4	3	27
Min.	2.10	3.00	4.80	7.30	5.80	4.00	2.80	2.20	1.70	1.20	0.90	0.90
Date.	20	2	2	17	31	30	31	31	30	31	30	12

RIVER: KILOMBORO  
 STATION: IFNEHA  
 STATION NO: IKB.4  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.33	4.70	8.93	10.46	9.40	4.20	3.00	2.30	1.80	1.20	1.00	3.23
2.	2.70	4.70	9.26	11.00	9.20	4.10	3.00	2.20	1.80	1.20	1.00	3.20
3.	2.50	5.13	9.30	11.20	8.47	4.00	2.90	2.20	1.80	1.20	0.90	2.80
4.	2.43	6.03	9.30	11.00	8.20	4.00	2.90	2.20	1.70	1.33	0.90	2.23
5.	2.20	6.46	9.20	10.70	7.90	3.90	2.90	2.10	1.70	1.40	0.90	1.83
6.	1.96	6.20	8.70	9.80	7.27	3.90	2.90	2.10	1.70	1.40	0.90	1.80
7.	1.76	5.76	8.16	8.96	6.83	3.80	2.90	2.10	1.70	1.40	0.90	2.13
8.	1.70	5.36	8.00	8.50	6.63	3.80	2.80	2.10	1.70	1.30	1.30	2.00
9.	1.83	4.80	8.26	7.73	6.40	3.80	2.80	2.10	1.60	1.30	1.30	1.83
10.	2.46	5.16	8.30	7.53	6.10	3.80	2.80	2.10	1.60	1.30	1.20	1.90
Mean.	2.28	5.43	8.74	9.69	7.64	3.93	2.89	2.15	1.71	1.30	1.03	2.30
11.	3.46	5.16	8.26	7.60	5.90	3.70	2.70	2.10	1.50	1.30	1.07	2.03
12.	4.06	4.90	7.90	7.50	5.77	3.70	2.70	2.10	1.50	1.30	0.90	2.97
13.	4.26	5.46	7.33	7.46	5.67	3.60	2.70	2.10	1.50	1.27	0.80	4.27
14.	4.40	5.50	7.16	7.60	5.67	3.60	2.70	2.10	1.40	1.20	0.80	4.70
15.	4.53	4.80	7.10	7.73	5.40	3.60	2.60	2.00	1.37	1.20	0.78	5.13
16.	5.83	4.26	7.50	7.70	5.17	3.50	2.60	2.00	1.30	1.20	0.70	4.90
17.	7.66	5.00	7.73	7.63	5.10	3.50	2.60	2.00	1.30	1.23	0.60	4.97
18.	9.20	5.96	8.36	7.56	5.07	3.50	2.60	2.00	1.37	1.30	0.60	4.73
19.	9.70	5.76	8.30	7.46	5.00	3.40	2.60	2.00	1.30	1.20	0.50	3.93
20.	9.46	4.93	8.30	7.40	5.00	3.40	2.60	1.94	1.30	1.20	0.50	3.27
Mean.	6.25	5.17	7.79	7.54	5.38	3.55	2.64	2.03	1.38	1.24	0.73	4.09
21.	9.40	4.53	8.66	7.40	4.90	3.30	2.50	1.90	1.30	1.10	0.50	3.03
22.	4.93	5.30	9.03	7.33	4.90	3.30	2.50	1.90	1.30	1.10	0.53	3.70
23.	4.16	6.76	9.43	6.96	4.70	3.30	2.50	1.90	1.30	1.10	0.90	3.23
24.	3.80	7.00	9.66	6.50	4.70	3.30	2.50	1.90	1.30	1.10	1.47	2.53
25.	3.73	7.16	8.90	6.60	4.60	3.20	2.50	1.90	1.30	1.00	2.03	2.13
26.	4.40	7.33	8.56	7.46	4.60	3.20	2.40	1.80	1.30	1.00	2.10	2.27
27.	4.36	7.66	9.16	8.20	4.40	3.10	2.40	1.80	1.30	1.00	3.60	2.30
28.	4.20	8.56	9.20	8.80	4.40	3.10	2.30	1.80	1.30	1.00	4.17	2.30
29.	4.90		9.30	9.16	4.30	3.00	2.30	1.80	1.20	1.00	3.90	2.30
30.	5.13		9.86	9.30	4.30	3.00	2.30	1.80	1.20	1.00	3.63	2.40
31.	5.26		10.06		4.20		2.30	1.80		1.00		2.33
Mean.	5.43	6.79	9.26	7.77	4.55	3.18	2.41	1.85	1.28	1.04	2.28	2.59
Monthly Mean.	4.51	5.72	8.62	8.33	5.81	3.55	2.64	2.00	1.46	1.19	1.35	2.98
Max.	9.70	8.80	10.40	11.20	9.40	4.20	3.00	2.30	1.80	1.40	4.30	5.30
Date.	19	28	31	3	1	1	2	1	3	7	27	15
Min.	1.70	4.70	7.10	6.40	4.20	3.10	2.30	1.80	1.20	1.10	0.50	1.80
Date.	8	2	15	25	31	30	31	31	30	31	22	9

NOTE: From May 20th until August 19th figures have been interpolated as gauge was washed away.

RIVER: LUHOMBERO  
 STATION: ILONGA  
 STATION NO: IKB.5  
 YEAR: 1955

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.		6.30	4.50	7.85	6.95	6.90			1.00	0.90	0.70	0.60
2.		11.25		8.10	6.15	6.40			1.00	0.90	0.70	0.60
3.		5.25		8.90	9.65	6.15			1.00	0.80	0.70	0.50
4.		8.65		8.50	8.85	4.50			1.00	0.80	0.70	0.50
5.		6.95		6.70	8.20	4.65			1.00	0.80	0.80	0.50
6.		4.30		7.85	7.45	8.30			1.00	0.80	0.90	0.50
7.		3.65		10.50	6.35	7.60			1.00	0.80	0.90	0.50
8.		3.85		9.60	4.20	7.00			1.00	0.80	0.90	0.50
9.		6.05		7.80	3.15	6.30			1.00	0.80	0.90	0.50
10.		9.80		5.80	5.50	10.20			1.00	0.80	0.90	0.50
Mean.		6.59		8.16	6.65	6.80			1.00	0.82	0.81	0.52
11.		11.05		4.25	4.85	9.20			1.00	0.80	0.90	0.50
12.		8.25		6.65	3.70	8.60			1.00	0.80	0.80	0.60
13.	1.10	9.90		7.55	4.10	7.75			1.00	0.80	0.80	0.80
14.	1.20	5.25		6.50	3.75	7.05			1.00	0.75	0.80	1.10
15.	1.25	8.35		7.65	3.55	6.40			0.90	0.70	0.80	1.30
16.	3.75	9.75		9.05	3.60	5.60			0.90	0.70	0.80	1.15
17.	3.30	9.60		8.20	3.40	5.00			0.90	0.70	0.75	1.00
18.	2.60	13.05		6.05	4.10	4.40			0.90	0.70	0.70	1.35
19.	2.25	8.50		7.70	3.90	4.00			0.90	0.70	0.70	1.50
20.	2.05	12.80		9.50	3.70	8.95			0.90	0.70	0.70	1.45
Mean.		9.65		7.31	3.87	6.70			0.94	0.74	0.78	1.08
21.	1.80	7.30		8.80	3.75	8.60			0.90	0.70	0.70	1.30
22.	1.60	6.40		6.25	4.10	8.45			0.90	0.70	0.70	1.25
23.	1.50	4.60		5.45	5.60	8.50			0.90	0.70	0.70	1.20
24.	1.30	3.75		7.50	5.30	7.55			0.90	0.70	0.65	1.10
25.	1.30	3.15		5.45	5.15	7.00			0.90	0.70	0.60	1.05
26.	1.40	11.70		4.55	5.50	6.50			0.90	0.70	0.60	0.90
27.	1.95	9.55		7.25	5.85	6.20			0.90	0.70	0.60	0.90
28.	2.10	7.60		6.35	7.05	5.95			0.90	0.70	0.60	0.90
29.	9.05			10.60	6.40	5.35			0.90	0.70	0.60	0.90
30.	4.80			9.05	6.00	4.80			0.90	0.70	0.60	0.80
31.	2.90				5.85					0.70		0.75
Mean.	2.70	6.76		7.13	5.50	6.89			0.90	0.70	0.64	1.00
Monthly Mean.		7.73		7.53	5.34	6.80			0.95	0.75	0.74	0.87
Max.		13.60		10.60	9.65	10.20			1.00	0.90	0.90	1.50
Date.		26		29	3	10			12	2	11	20
Min.		2.70		4.25	3.15	4.00			0.90	0.70	0.60	0.50
Date.		25		11	9	19			30	31	30	12

RIVER: LUHOMBERO  
STATION: ILONGA  
STATION NO: IKB.5  
YEAR: 1956.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.95	10.40		9.30	8.05	4.80	3.80	3.30	2.90	2.50	2.20	2.20
2.	1.20	8.00		9.05	7.55	4.70	3.70	3.30	2.90	2.50	2.20	2.30
3.	1.55	6.60		10.25	7.50	4.70	3.70	3.30	2.90	2.50	2.20	2.30
4.	1.65	10.75		11.50	7.50	4.70	3.70	3.30	2.90	2.50	2.20	2.30
5.	2.65	13.75		13.50	7.10	4.70	3.70	3.30	2.80	2.50	2.40	2.30
6.	3.85	7.15		13.00	7.10	4.60	3.70	3.30	2.80	2.50	2.40	2.30
7.	4.20	10.50		9.35	7.0 <sup>u</sup>	4.60	3.70	3.20	2.80	2.50	2.30	2.30
8.	4.70	12.75		10.45	6.90	4.60	3.70	3.20	2.80	2.45	2.30	2.30
9.	3.35	11.45		9.00	6.90.	4.60	3.70	3.20	2.80	2.40	2.30	2.20
10.	2.35	9.60		7.85	6.70	4.60	3.70	3.20	2.70	2.40	2.30	2.20
Mean.	2.65	10.10		10.33	7.23	4.66	3.71	3.26	2.82	2.48	2.28	2.27
11.	1.65	10.95		9.65	6.70	4.60	3.65	3.20	2.70	2.40	2.30	2.20
12.	2.60	8.95		8.80	6.50	4.60	3.60	3.20	2.70	2.40	2.30	2.25
13.	2.65	7.65		9.90	6.50	4.50	3.60	3.20	2.70	2.40	2.30	2.30
14.	3.55	6.85		9.80	6.45	4.50	3.60	3.10	2.60	2.40	2.30	2.30
15.	3.05	5.90		9.30	6.40	4.50	3.60	3.10	2.60	2.40	2.30	2.30
16.	2.05	10.45		10.45	6.40	4.50	3.55	3.10	2.60	2.40	2.30	2.45
17.	2.35	5.60		11.45	6.40	4.50	3.50	3.10	2.60	2.40	2.30	2.50
18.	3.10	5.20		13.00	6.20	4.40	3.50	3.10	2.60	2.40	2.30	2.45
19.	2.65	11.95		12.00	6.20	4.40	3.50	3.10	2.50	2.30	2.30	2.40
20.	3.65	9.25		12.00	6.20	4.30	3.50	3.05	2.50	2.30	2.25	2.40
Mean.	2.73	8.28		10.64	6.40	4.48	3.56	3.13	2.61	2.38	2.30	2.36
21.	3.25	7.70		12.25	6.05	4.30	3.50	3.00	2.50	2.30	2.20	2.35
22.	3.75	5.95		12.50	5.90	4.20	3.50	3.00	2.50	2.30	2.20	2.30
23.	4.50	5.10		13.50	5.90	4.20	3.50	3.00	2.45	2.30	2.20	2.30
24.	5.70	4.70		11.52	5.75	4.10	3.50	3.00	2.40	2.30	2.20	2.65
25.	7.15	4.50		13.50	5.60	4.00	3.40	3.00	2.40	2.30	2.20	2.80
26.	6.75			13.75	5.60	3.90	3.40	3.00	2.40	2.30	2.20	2.95
27.	12.60			13.50	5.40	3.90	3.40	3.00	2.30	2.30	2.20	3.05
28.	10.40			13.50	5.20	3.90	3.40	3.00	2.30	2.30	2.20	3.05
29.	10.00			10.45	5.20	3.85	3.40	2.90	2.30	2.20	2.20	2.90
30.	11.40			9.20	4.80	3.80	3.30	2.90	2.20	2.20	2.20	2.80
31.	7.45				4.80		3.30	2.90		2.20		2.75
Mean.	7.54			12.37	5.47	4.02	3.42	2.79	2.38	2.27	2.20	2.72
Monthly Mean.	4.41			11.11	6.34	4.38	3.56	3.05	2.62	2.37	2.26	2.46
Max.	12.90			14.00	8.50	4.80	3.80	3.30	2.90	2.50	2.40	3.10
Date.	30			28.	1	1	1	6	4	8	6	28
Min.	0.90			8.40	4.80	3.80	3.30	2.90	2.20	2.20	2.20	2.20
Date.	1			12	31	30	31	31	30	31	30	12



RIVER: LUHOMBERO  
 STATION: ILONGA  
 STATION NO: IKB.5  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.70	2.70	3.50	4.00	8.60	4.70	3.30	3.00	2.80	2.50	2.40	2.40
2.	2.70	2.70	3.50	5.50	8.65	4.60	3.30	3.00	2.77	2.50	2.40	2.40
3.	3.50	2.75	3.30	5.60	8.85	4.60	3.30	3.00	2.70	2.50	2.30	2.30
4.	3.50	3.60	3.10	5.50	9.80	4.50	3.20	3.00	2.70	2.50	2.30	2.40
5.	3.30	3.90	3.10	5.50	9.60	4.50	3.20	3.00	2.70	2.50	2.30	2.40
6.	3.15	4.10	3.10	5.05	10.25	4.50	3.20	3.00	2.70	2.50	2.30	2.40
7.	2.90	3.85	2.90	4.80	9.50	4.40	3.20	3.00	2.70	2.50	2.30	2.40
8.	2.70	4.75	2.40	4.85	8.65	4.40	3.20	3.00	2.70	2.47	2.30	2.50
9.	2.60	3.85	2.40	6.00	7.95	4.35	3.20	3.00	2.70	2.40	2.30	2.60
10.	2.80	4.75	2.40	6.00	7.55	4.30	3.20	2.90	2.70	2.40	2.60	2.60
Mean.	2.99	3.70	2.97	5.28	8.94	4.49	3.23	2.99	2.72	2.48	2.35	2.44
11.	2.75	10.25	2.40	5.60	8.40	4.20	3.20	2.90	2.70	2.40	2.60	2.60
12.	2.70	8.40	2.40	5.60	7.80	4.20	3.20	2.90	2.67	2.40	2.60	2.55
13.	2.70	7.50	2.40	6.15	7.50	4.20	3.20	2.90	2.60	2.40	2.50	2.50
14.	2.70	7.10	2.30	6.50	7.25	4.10	3.15	2.90	2.60	2.40	2.50	2.43
15.	2.70	6.15	2.30	6.25	7.10	4.10	3.10	2.90	2.60	2.40	2.50	2.43
16.	2.70	6.05	2.30	7.25	8.40	4.00	3.10	2.90	2.60	2.40	2.50	2.80
17.	2.70	5.35	2.30	7.50	7.50	4.00	3.10	2.90	2.60	2.40	2.50	2.90
18.	2.60	4.30	4.55	9.25	7.40	3.90	3.10	2.90	2.60	2.40	2.50	2.90
19.	2.80	8.25	6.25	10.25	6.50	3.90	3.10	2.90	2.60	2.40	2.50	3.10
20.	2.75	8.10	5.60	11.25	5.45	3.80	3.10	2.90	2.60	2.40	2.40	3.20
Mean.	2.71	7.15	3.28	7.56	7.33	4.04	3.14	2.90	2.62	2.40	2.51	2.74
21.	2.70	7.35	5.30	11.25	5.40	3.70	3.10	2.80	2.60	2.40	2.40	3.00
22.	2.70	4.65	4.70	10.50	5.20	3.70	3.05	2.80	2.60	2.40	2.40	2.90
23.	2.80	3.10	4.50	10.75	5.20	3.60	3.00	2.80	2.60	2.40	2.40	2.80
24.	2.90	3.05	4.30	9.00	4.80	3.60	3.00	2.80	2.60	2.40	2.40	3.80
25.	2.80	3.00	4.30	10.75	4.80	3.50	3.00	2.80	2.60	2.40	2.40	4.40
26.	2.90	3.50	4.20	12.25	4.70	3.50	3.00	2.80	2.50	2.40	2.40	4.80
27.	2.80	3.50	4.10	10.25	4.70	3.40	3.00	2.80	2.50	2.40	2.40	4.20
28.	2.80	3.50	4.10	12.25	4.70	3.40	3.00	2.80	2.50	2.40	2.40	3.10
29.	2.70		4.10	12.50	4.70	3.40	3.00	2.80	2.50	2.40	2.40	2.90
30.	2.70		4.00	12.50	4.70	3.30	3.00	2.80	2.50	2.40	2.40	2.90
31.	2.70		4.00		4.70		3.00	2.80		2.40		2.90
Mean.	2.77	3.95	4.33	11.20	4.87	3.51	3.01	2.80	2.55	2.40	2.40	3.40
Monthly Mean.	2.82	5.00	3.56	8.01	6.98	4.01	3.12	2.89	2.63	2.42	2.42	2.89
Max.	3.50	11.00	6.50	13.50	11.00	4.70	3.30	3.00	2.80	2.50	2.70	4.90
Date.	3,4	11	19	26	6	1	1-3	1-9	1	1-7	10,11	26,27
Min.	2.60	2.70	2.30	4.00	4.70	3.30	3.00	2.80	2.50	2.40	2.30	2.30
Date.	9,18	1,2	14-17	1	26-31	30	23-31	21-31	26-30	9-31	3-9	3

RIVER: IJHOGBERO  
 STATION: ILONGA  
 STATION NO. IHB-5  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.90	2.70	6.50	13.57	8.30	4.90	4.20	3.90	3.70	3.40	3.20	3.10
2.	2.87	2.70	5.93	10.73	12.43	4.90	4.20	3.90	3.70	3.40	3.20	3.10
3.	2.80	2.70	4.80	12.77	12.07	4.87	4.20	3.90	3.67	3.40	3.20	3.16
4.	2.90	3.47	5.80	10.27	9.40	4.80	4.20	3.80	3.60	3.40	3.20	3.20
5.	3.10	3.40	4.93	8.30	8.93	4.90	4.20	3.80	3.60	3.40	3.17	3.46
6.	3.37	3.10	7.73	5.57	8.50	4.80	4.15	3.80	3.60	3.40	3.17	3.20
7.	4.03	4.23	6.43	7.30	8.07	4.80	4.15	3.80	3.60	3.40	3.17	3.20
8.	5.00	4.00	4.40	6.20	7.67	4.73	4.15	3.80	3.60	3.40	3.20	3.20
9.	3.27	3.83	5.80	5.83	7.20	4.70	4.15	3.80	3.60	3.40	3.23	3.20
10.	3.10	3.80	4.93	5.60	6.93	4.70	4.15	3.80	3.60	3.40	3.23	3.10
Mean.	3.33	3.39	5.73	8.91	8.95	4.81	4.16	3.83	3.63	3.40	3.20	3.19
11.	2.90	3.70	5.17	5.53	6.77	4.67	4.15	3.80	3.60	3.37	3.20	3.10
12.	2.83	3.70	5.07	5.47	6.63	4.60	4.10	3.80	3.60	3.30	3.20	3.10
13.	2.80	3.70	5.40	5.23	6.43	4.60	4.10	3.70	3.57	3.30	3.20	3.10
14.	2.73	7.33	5.00	5.07	6.27	4.60	4.10	3.80	3.50	3.30	3.20	3.20
15.	2.70	4.77	4.77	4.93	6.17	4.60	4.10	3.80	3.50	3.30	3.20	3.20
16.	2.70	3.80	5.60	4.80	6.00	4.60	4.10	3.80	3.50	3.30	3.20	3.20
17.	2.70	3.67	4.10	5.10	5.90	4.50	4.10	3.70	3.50	3.30	3.20	3.36
18.	2.70	8.20	4.27	5.63	5.80	4.50	4.05	3.70	3.50	3.30	3.20	3.20
19.	2.67	6.40	5.97	8.77	5.73	4.50	4.05	3.70	3.50	3.30	3.20	3.53
20.	2.60	4.73	5.17	6.80	5.70	4.40	4.05	3.70	3.50	3.30	3.23	3.60
Mean.	2.73	5.00	5.05	5.73	6.14	4.56	4.09	3.76	3.53	3.31	3.20	3.26
21.	2.60	6.60	7.20	7.00	5.63	4.40	4.05	3.70	3.50	3.30	3.23	5.13
22.	2.60	10.20	5.63	7.00	5.50	4.40	4.05	3.70	3.47	3.30	3.26	6.56
23.	2.60	8.43	6.90	7.53	5.40	4.37	4.00	3.70	3.40	3.50	3.26	4.46
24.	2.90	5.83	5.77	11.10	5.30	4.30	4.00	3.70	3.40	3.30	3.26	4.73
25.	2.90	6.67	4.97	9.30	5.27	4.30	4.00	3.70	3.40	3.30	3.20	5.43
26.	3.10	5.37	5.93	8.10	5.20	4.30	4.00	3.70	3.40	3.30	3.20	5.70
27.	3.20	5.20	4.70	8.13	5.13	4.30	4.00	3.70	3.40	3.30	3.20	4.96
28.	3.13	5.20	10.04	10.33	5.10	4.30	3.95	3.70	3.40	3.30	3.20	4.90
29.	3.10		7.53	9.50	5.03	4.30	3.95	3.70	3.40	3.30	3.20	4.46
30.	2.97		4.83	8.70	5.00	4.30	3.95	3.70	3.40	3.20	3.20	4.46
31.	2.84		9.15		4.97		3.95	3.70		3.20		4.20
Mean.	2.90	6.69	6.60	8.67	5.23	4.33	3.99	3.70	3.42	3.28	3.22	5.50
Monthly Mean.	2.99	5.09	5.82	7.77	6.72	4.56	4.08	3.76	3.53	3.33	3.20	3.85
Max.	5.60	11.20	10.70	14.30	14.20	4.90	4.20	3.90	3.70	3.40	3.30	8.30
Date.	8	22	28	3	2	25	5	2	3	11	24	25
Min.	2.60	2.70	3.70	4.80	4.90	4.30	3.95	3.70	3.40	3.20	3.10	3.10
Date.	23	4	18	16	31	30	31	30	30	31	7	13

RIVER: LUHOMBEERO  
 STATION: ILONGA  
 STATION NO: 1KB.5  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.97	7.37	4.80	5.53	5.63	4.30	4.00	3.80	3.63	3.40	3.30	3.30
2.	4.87	6.80	5.67	5.90	5.30	4.30	4.00	3.80	3.60	3.40	3.30	3.30
3.	4.77	6.67	5.33	5.87	5.17	4.30	4.00	3.80	3.60	3.40	3.30	3.50
4.	4.67	6.27	7.03	5.63	5.27	4.30	4.00	3.80	3.60	3.40	3.30	3.40
5.	4.60	6.07	12.50	5.37	5.20	4.30	4.00	3.80	3.60	3.40	3.30	3.40
6.	3.50	5.87	8.20	5.13	5.10	4.30	4.00	3.80	3.60	3.40	3.30	3.50
7.	3.50	5.40	8.67	5.00	5.03	4.30	4.00	3.80	3.60	3.40	3.30	3.40
8.	3.20	4.67	7.30	4.90	4.90	4.20	3.95	3.80	3.60	3.40	3.30	3.30
9.	3.30	4.47	7.87	4.70	4.80	4.20	3.95	3.80	3.60	3.40	3.30	3.30
10.	3.43	4.40	6.20	4.60	4.80	4.20	3.95	3.80	3.50	3.40	3.30	3.40
Mean.	3.98	5.80	7.36	5.26	5.11	4.27	3.99	3.80	3.59	3.40	3.30	3.38
11.	4.03	4.50	7.20	4.47	4.73	4.20	3.95	3.80	3.50	3.40	3.30	3.90
12.	4.27	6.53	7.00	4.33	4.70	4.20	3.95	3.80	3.50	3.40	3.20	9.23
13.	5.07	6.07	6.67	4.23	4.70	4.20	3.95	3.73	3.50	3.40	3.20	6.00
14.	10.17	4.90	5.90	4.17	4.70	4.20	3.95	3.70	3.50	3.40	3.20	5.17
15.	12.03	4.50	5.60	4.10	4.60	4.13	3.90	3.70	3.50	3.40	3.20	4.33
16.	7.03	4.43	5.50	3.93	4.60	4.10	3.90	3.70	3.50	3.40	3.20	4.07
17.	7.10	5.10	5.57	3.77	4.60	4.10	3.90	3.70	3.40	3.37	3.20	3.87
18.	6.27	4.70	5.53	4.53	4.50	4.10	3.90	3.70	3.40	3.30	3.20	3.77
19.	5.13	4.33	5.37	4.87	4.50	4.10	3.90	3.70	3.40	3.30	3.20	3.63
20.	4.83	4.27	5.20	4.83	4.50	4.10	3.90	3.70	3.40	3.30	3.20	3.60
Mean.	6.59	4.93	5.95	4.32	4.62	4.14	3.92	3.72	3.46	3.37	3.21	4.76
21.	4.63	4.30	5.10	4.83	4.50	4.10	3.90	3.70	3.40	3.30	3.20	3.50
22.	4.27	4.27	5.23	4.60	4.50	4.10	3.90	3.70	3.40	3.30	3.20	3.50
23.	4.43	4.90	5.37	4.47	4.50	4.10	3.90	3.70	3.40	3.30	3.20	3.43
24.	4.20	7.63	5.13	4.53	4.40	4.10	3.90	3.70	3.40	3.30	3.20	3.40
25.	4.23	5.90	4.93	5.37	4.40	4.10	3.85	3.70	3.40	3.30	3.27	3.40
26.	4.80	4.90	4.80	5.10	4.40	4.00	3.85	3.70	3.40	3.30	3.30	3.33
27.	4.50	5.30	5.23	5.40	4.40	4.00	3.85	3.70	3.40	3.33	3.33	3.30
28.	4.30	5.00	7.63	7.97	4.40	4.00	3.85	3.70	3.40	3.40	3.40	3.30
29.	4.97		7.30	6.50	4.40	4.00	3.85	3.70	3.40	3.40	3.40	3.40
30.	4.77		5.37	5.30	4.40	4.00	3.85	3.70	3.40	3.30	3.37	3.57
31.	4.60		5.50		4.40		3.83	3.70		3.30		3.40
Mean.	4.52	5.28	5.60	5.41	4.43	4.05	3.87	3.70	3.40	3.32	3.29	3.41
Monthly Mean.	5.01	5.34	6.31	4.99	4.71	4.15	3.92	3.74	3.48	3.36	3.27	3.84
Max.	13.30	8.90	13.50	9.10	5.70	4.30	4.00	3.80	3.70	3.40	3.40	10.60
Date.	15	1	5	28	1	1	1	1	1	17	30	12
Min.	3.20	4.10	4.70	3.70	4.40	4.00	3.80	3.70	3.40	3.30	3.20	3.30
Date.	8	21	2	15	31	30	31	31	30	31	25	28

RIVER: KIGOGO-RUANA  
STATION: FRICK'S BRIDGE  
STATION NO: IKB.6  
YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.			19.81	18.90	17.83	12.25	10.65	9.43	8.50	7.70	7.40	7.60
2.			19.72	19.13	16.77	12.03	10.60	9.40	8.50	7.70	7.40	7.60
3.			19.10	19.80	16.33	12.33	10.56	9.38	8.50	7.67	7.34	7.84
4.			18.59	19.87	16.20	12.28	10.65	9.30	8.47	7.65	7.30	7.90
5.			18.20	19.10	14.98	12.51	10.61	9.30	8.45	7.65	7.30	7.90
6.			17.88	19.41	14.55	12.32	10.60	9.30	8.45	7.62	7.30	7.97
7.			17.40	19.88	15.02	12.05	10.51	9.30	8.40	7.60	7.30	8.01
8.			17.70	19.76	14.73	12.76	10.00	9.25	8.40	7.60	7.20	8.18
9.			17.68	19.42	14.67	12.55	10.00	9.20	8.40	7.60	7.20	8.27
10.			17.57	19.62	14.45	12.22	10.00	9.15	8.36	7.60	7.12	8.15
Mean.			18.37	19.49	15.55	12.33	10.42	9.30	8.44	7.64	7.29	7.94
11.			17.86	18.99	14.57	11.85	10.00	9.12	8.35	7.57	7.00	8.10
12.			18.32	18.75	14.38	11.56	10.51	9.02	8.35	7.55	7.00	8.00
13.			18.10	18.65	14.55	11.40	10.39	8.97	8.20	7.50	7.00	8.00
14.			17.88	18.40	14.55	11.67	10.26	8.91	8.20	7.50	6.95	8.00
15.			17.65	18.65	14.53	11.52	10.12	8.90	8.15	7.50	6.95	8.00
16.			18.50	(18.60)	14.65	11.37	10.00	8.85	8.15	7.50	6.90	7.91
17.			18.44	(18.55)	14.34	11.21	10.00	8.85	8.10	7.50	6.90	7.90
18.			18.85	(18.49)	14.26	11.49	(9.90)	8.84	8.10	7.50	6.90	7.90
19.			18.73	(18.44)	14.13	11.36	(9.80)	8.80	8.10	7.50	6.80	7.90
20.		18.20	18.48	(18.38)	14.16	11.32	(9.70)	8.80	8.00	7.50	6.80	7.90
Mean.			18.28	18.59	14.41	11.48	10.07	8.91	8.17	7.51	6.92	7.96
21.		18.32	18.18	(18.33)	14.65	11.27	9.60	8.77	8.00	7.50	6.80	7.90
22.		18.29	18.40	(18.28)	14.26	11.46	9.61	8.75	8.00	7.50	6.75	7.90
23.		19.06	19.65	(18.23)	13.90	11.22	9.50	8.73	7.95	7.50	6.70	7.93
24.		19.57	19.84	(18.18)	13.60	11.08	9.41	8.70	7.95	7.50	6.70	7.99
25.		19.50	19.72	(18.12)	13.14	11.18	9.40	8.70	7.95	7.44	6.61	7.92
26.		19.17	19.58	(18.07)	13.17	11.31	9.53	8.65	7.80	7.41	6.60	7.99
27.		18.87	19.02	(18.02)	12.92	10.93	9.47	8.61	7.80	7.40	6.53	8.04
28.		19.08	19.74	(17.98)	12.75	10.41	9.40	8.60	7.80	7.40	6.70	8.15
29.		19.74	19.32	(17.94)	12.85	10.66	9.33	8.50	7.77	7.40	6.70	8.19
30.			18.94	(17.88)	12.58	10.87	9.29	8.50	7.71	7.40	6.70	8.22
31.			18.93		12.48		9.20	8.50		7.40		(8.25)
Mean.		19.07	19.21	18.10	13.30	11.04	9.43	8.64	7.87	7.42	6.68	8.04
Monthly Mean.			18.64	18.73	14.39	11.61	9.95	8.74	8.16	7.52	6.96	7.98
Figures in brackets interpolated.												
Max.			19.90	19.90	17.90	12.35	10.70	9.45	8.50	7.70	7.40	8.30
Date.			28	8	1	1	1	1	4	3	3	9
Min.			17.30	17.88	12.40	10.00	9.20	8.50	7.70	7.40	6.50	7.60
Date.			7	30	31	28	31	31	30	31	27	2

RIVER: KIGOGO-KUANA  
 STATION: FRICK'S BRIDGE  
 STATION NO : IKB.6  
 YEAR : 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	8.28	15.70	13.38	16.48		12.60	10.00	8.20	9.05	8.45	7.80	7.00
2.	8.32	16.45	13.00	16.75		12.60	10.00	8.25	9.05	8.45	7.80	7.00
3.	8.42	16.15	12.45	16.58		12.58	10.30	8.20	9.00	8.45	7.80	7.00
4.	8.32	15.75	12.38	16.28		12.95	10.30	8.20	9.00	8.40	7.65	7.00
5.	8.25	15.55	12.08	15.85		13.33	10.30	8.20	9.00	8.40	7.60	6.95
6.	8.37	15.25	12.43	15.48		12.35	10.28	8.90	8.97	8.40	7.60	6.95
7.	8.47	14.75	13.45	15.83		12.20	10.20	9.90	8.95	8.40	7.60	6.80
8.	8.55	14.20	14.38	16.43		12.03	10.20	9.90	8.90	8.40	7.55	6.80
9.	8.63	14.60	14.73			12.00	10.20	9.85	8.90	8.40	7.55	6.80
10.	8.62	14.48	14.45			12.00	10.20	9.80	8.75	8.45	7.55	6.80
Mean.	8.42	15.29	13.27	16.21		12.46	10.20	8.94	8.96	8.42	7.65	6.91
11.	8.70	14.30	13.98			11.90	10.10	9.80	8.75	8.40	7.50	6.80
12.	8.66	14.08	13.68			11.90	10.10	9.80	8.73	8.35	7.40	6.75
13.	8.78	13.88	13.33			11.88	10.10	9.70	8.70	8.32	7.40	6.75
14.	8.82	13.88	13.10			11.80	10.00	9.70	8.70	8.30	7.40	6.75
15.	8.74	14.03	12.93			11.50	10.00	9.70	8.70	8.20	7.40	6.80
16.	10.03	14.40	12.83			11.40	10.00	9.65	8.65	8.20	7.35	6.85
17.	10.17	14.53	12.60			11.40	10.00	9.65	8.65	8.20	7.35	6.85
18.	12.52	14.75	12.88			11.40	10.00	9.65	8.65	8.15	7.35	6.90
19.	13.22	15.03	13.03			11.40	10.00	9.60	8.60	8.15	7.30	6.90
20.	13.35	15.13	13.38			11.35	10.00	9.50	8.60	8.10	7.20	6.93
Mean.	10.30	14.40	13.17			11.59	10.03	9.68	8.67	8.24	7.37	6.83
21.	13.50	15.43	13.83			10.30	10.00	9.45	8.55	8.10	7.20	6.95
22.	13.78	15.63	14.10			10.30	9.95	9.40	8.55	8.10	7.20	6.97
23.	14.40	15.25	14.33		14.25	10.30	9.90	9.40	8.50	8.05	7.20	7.00
24.	14.70	14.85	14.18		14.10	10.20	9.90	9.40	8.50	8.05	7.20	7.03
25.	13.05	14.95	13.95		14.00	10.13	9.75	9.40	8.52	8.00	7.15	7.10
26.	13.30	14.55	14.28		14.00	10.10	9.75	9.35	8.60	7.97	7.15	7.15
27.	13.65	14.23	14.58		14.00	10.10	9.70	9.35	8.55	7.95	7.10	7.25
28.	13.75	13.78	14.83		13.95	10.10	9.70	9.30	8.50	7.90	7.05	7.20
29.	14.75		15.23		13.85	10.00	9.70	9.20	8.50	7.90	7.05	7.27
30.	14.95		15.70		13.75	10.00	9.70	9.20	8.50	7.90	7.00	7.75
31.	15.35		16.10		13.60		9.70	9.15		7.85		7.80
Mean.	14.11	14.73	14.65		13.94	10.15	10.78	9.33	8.53	7.98	7.13	7.22
Monthly Mean.	11.05	14.84	13.73			11.40	10.00	9.31	8.72	8.20	7.38	6.99
Max.	15.40	16.50	16.20			13.40	10.30	9.90	9.05	8.45	7.80	7.80
Date	31	2	31			4-5	3-5	6-8	1-12	1-3	1-3	31
Min.	8.25	13.70	12.00			10.00	9.70	8.00	8.50	7.85	7.00	6.70
Date	1-5	28	5			29-30	27-31	6	23-25 28-30	31	30	14

RIVER: KIGOCO-RUANA  
 STATION: FRICK'S BRIDGE  
 STATION NO: I.B. 6  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	7.80	12.60	13.38	16.00	16.40	13.40	11.30	10.30	9.40	8.50	7.70	7.30
2.	7.80	12.65	13.40	16.00	16.40	13.30	11.20	10.27	9.40	8.50	7.70	7.30
3.	7.80	12.70	14.23	16.00	16.30	13.20	11.20	10.20	9.40	8.50	7.70	7.30
4.	7.85	12.70	14.30	16.00	16.30	13.00	11.10	10.20	9.37	8.50	7.70	7.30
5.	7.90	12.77	14.20	16.38	16.25	12.90	11.10	10.20	9.30	8.50	7.70	7.30
6.	7.90	12.83	14.27	16.67	16.20	12.90	11.00	10.17	9.30	8.43	7.70	7.30
7.	7.93	13.40	14.30	16.67	16.18	12.80	11.00	10.07	9.30	8.37	7.60	7.30
8.	8.00	13.15	14.33	16.92	16.10	12.70	11.00	10.00	9.30	8.30	7.60	7.30
9.	8.05	13.10	14.53	16.92	16.00	12.60	11.00	10.00	9.50	8.30	7.60	7.30
10.	8.13	13.15	14.60	17.00	15.95	12.50	10.90	10.00	9.43	8.30	7.50	7.30
Mean.	7.92	12.90	14.15	16.46	16.21	12.93	11.08	10.14	9.37	8.42	7.65	7.30
11.	8.17	14.17	15.42	17.17	15.80	12.50	10.90	9.93	9.10	8.30	7.50	7.30
12.	8.60	15.34	15.58	17.17	15.70	12.40	10.90	9.90	9.10	8.30	7.50	7.27
13.	9.05	16.50	15.67	17.17	15.60	12.40	10.90	9.90	9.10	8.30	7.50	7.07
14.	13.77	15.67	15.58	17.17	15.50	12.30	10.80	9.90	9.03	8.30	7.43	7.80
15.	13.70	15.33	15.58	17.17	15.40	12.20	10.80	9.80	9.00	8.30	7.40	8.30
16.	13.67	15.00	15.58	16.96	15.30	12.10	10.80	9.80	9.00	8.30	7.50	9.20
17.	13.60	14.83	15.67	16.92	15.20	12.00	10.80	9.80	9.00	8.30	7.50	9.53
18.	13.80	14.80	15.62	16.88	15.00	11.90	10.70	9.77	8.90	8.23	7.50	10.67
19.	13.77	14.75	15.58	16.83	14.90	11.75	10.70	9.73	8.90	8.13	7.50	11.57
20.	13.67	14.70	15.67	16.92	14.80	11.75	10.70	9.60	8.90	8.10	7.50	11.33
Mean.	12.18	15.11	15.60	17.04	15.32	12.13	10.80	9.81	9.00	8.26	7.48	9.00
21.	13.50	14.67	15.67	16.92	14.70	11.70	10.70	9.60	8.90	8.10	7.40	10.43
22.	13.43	14.53	15.67	16.92	14.50	11.70	10.60	9.60	8.90	8.03	7.40	10.13
23.	13.40	14.50	15.62	16.83	14.40	11.70	10.60	9.50	8.83	8.00	7.40	11.60
24.	13.28	14.53	15.67	16.75	14.30	11.60	10.60	9.50	8.80	8.00	7.40	11.73
25.	13.20	14.93	15.67	16.67	14.20	11.60	10.60	9.50	8.73	8.00	7.40	10.90
26.	13.20	14.90	15.62	16.50	14.10	11.50	10.53	9.50	8.70	7.93	7.40	10.87
27.	13.17	13.33	15.58	16.46	14.00	11.50	10.50	9.50	8.63	7.83	7.40	11.00
28.	11.35	13.33	15.58	16.42	13.90	11.40	10.50	9.50	8.60	7.80	7.30	12.27
29.	9.60		15.58	16.41	13.80	11.40	10.43	9.50	8.60	7.80	7.30	12.70
30.	9.57		15.75	16.38	13.70	11.30	10.40	9.50	8.57	7.80	7.30	12.57
31.	9.53		15.83		13.50		10.30	9.43		7.70		12.43
Mean.	12.11	14.34	15.73	16.63	14.10	11.54	10.52	9.51	8.73	7.91	7.37	11.51
Monthly Mean.	10.78	14.10	14.67	16.71	15.17	12.20	10.79	9.81	9.03	8.19	7.50	9.34
Max.	13.80	16.50	15.83	17.17	16.40	13.40	11.30	10.30	9.50	8.50	7.70	12.80
Date.	18	13	31	15	2	1	1	2	10	6	6	29
Min.	7.80	12.60	13.35	16.00	13.50	11.30	10.30	9.40	8.50	7.70	7.30	7.00
Date.	3	1	1	4	31	30	31	31	30	31	31	13

RIVER: KIGOGO-RUAHA  
 STATION: FRICK'S BRIDGE  
 STATION NO: 1KB.16  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	11.30	9.20	15.30	17.07	15.20	9.77	9.10	8.50	8.00	7.40		
2.	10.47	9.23	15.60	17.13	14.93	9.70	9.20	8.43	8.00	7.40		
3.	9.87	10.63	15.60	16.80	14.67	9.70	9.20	8.40	7.93	7.33		
4.	9.40	11.37	15.47	16.73	14.17	9.70	9.20	8.40	7.90	7.30		
5.	9.17	11.53	14.93	17.17	13.53	9.70	9.20	8.40	7.90	7.30		
6.	9.10	11.30	14.73	16.77	13.07	9.70	9.10	8.40	7.83	7.30		
7.	9.10	11.00	14.33	16.17	12.53	9.63	9.10	8.33	7.80	7.37		
8.	9.67	10.70	14.27	15.87	12.20	9.53	9.10	8.30	7.80	7.53		
9.	10.67	10.53	14.00	15.53	12.03	9.47	9.10	8.30	7.80	7.67		
10.	11.30	11.23	13.80	15.00	11.90	9.43	9.10	8.30	7.73	7.63		
Mean.	10.01	10.67	14.80	16.42	13.42	9.63	9.14	8.38	7.87	7.42		
11.	10.80	11.10	13.80	14.83	11.87	9.50	9.00	8.30	7.70	7.60		
12.	10.67	10.97	13.77	14.70	11.80	9.50	9.00	8.30	7.70	7.53		
13.	10.10	11.03	13.70	14.60	11.80	9.50	8.93	8.37	7.63	7.43		
14.	9.80	10.70	13.97	14.57	11.70	9.40	8.83	8.40	7.60	7.33		
15.	9.70	10.60	14.13	14.20	11.47	9.40	8.80	8.33	7.60	7.30		
16.	9.77	10.50	14.67	14.37	11.33	9.40	8.73	8.30	7.60	7.20		
17.	10.10	10.33	14.53	14.23	11.20	9.40	8.70	8.30	7.60	7.20		
18.	10.43	10.87	14.33	14.47	11.00	9.30	8.63	8.20	7.60	7.13		
19.	10.50	10.97	14.17	14.63	10.93	9.30	8.60	8.20	7.60	7.10		
20.	10.40	10.73	13.80	14.30	10.80	9.30	8.60	8.13	7.60	7.00		
Mean.	10.23	10.78	14.09	14.49	11.39	9.40	8.78	8.28	7.62	7.28		
21.	10.33	10.70	13.60	14.17	10.77	9.30	8.60	8.10	7.60	7.00		
22.	10.20	11.27	13.67	14.30	10.70	9.30	8.60	8.10	7.60	7.07		
23.	9.80	12.23	13.93	14.27	10.63	9.30	8.60	8.17	7.53	7.10		
24.	9.60	14.03	14.50	13.83	10.57	9.30	8.53	8.27	7.50	7.03		
25.	9.43	15.13	15.47	13.87	10.33	9.27	8.50	8.30	7.50	7.00		
26.	9.13	15.23	15.60	14.10	10.27	9.20	8.50	8.23	7.50	6.93		
27.	9.10	15.20	15.67	14.30	10.13	9.20	8.50	8.13	7.50	6.90		
28.	9.30	15.10	16.13	15.00	10.10	9.20	8.50	8.10	7.50	6.90		
29.	9.23		16.30	15.30	9.97	9.20	8.50	8.10	7.50	6.90		
30.	9.20		16.47	15.30	9.87	9.10	8.50	8.10	7.43	6.90		
31.	9.27		16.67		9.80		8.50	8.03		6.90		
Mean.	9.51	13.61	15.27	14.44	10.29	9.24	8.53	8.15	7.52	6.97		
Monthly												
Mean.	9.90	11.55	14.74	15.12	11.65	9.42	8.80	8.20	7.67	7.22		
Max.	12.30	15.40	16.70	17.20	15.20	9.80	9.20	8.50	8.00	7.70		
Date.	1	25	31	5	1	1	5	1	3	10		
Min.	9.00	9.10	13.50	13.70	9.80	9.10	8.50	8.00	7.40	6.90		
Date.	27	2	22	24	31	30	31	31	30	31		

RIVER: FUJIGI  
 STATION: IDEGE  
 STATION NO: IKB.7  
 YEAR: 1956

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1.			3.57	3.22	4.07	3.05	2.80	2.70	2.45	2.60	2.40		
2.			3.22	3.40	3.75	3.05	2.95	2.70	2.45	2.60	2.40		
3.		Gauge Established	3.12	3.85	3.52	3.05	2.95	2.75	2.45	2.52	2.30		
4.			3.10	3.85	3.42	3.05	2.95	2.77	2.45	2.50	2.30		
5.			3.10	3.77	3.32	3.05	2.90	2.72	2.67	2.45	2.42		
6.			3.35	3.57	3.30	3.05	2.90	2.70	2.90	2.42	2.60		
7.			3.12	4.27	3.25	3.05	2.90	2.70	2.85	2.40	2.60		
8.			3.10	3.62	3.22	3.05	2.90	2.67	2.85	2.40	2.60		
9.			3.05	3.32	3.20	3.05	2.85	2.65	2.85	2.40	2.57		
10.			3.00	3.22	3.20	3.05	2.85	2.62	2.82	2.40	2.57		
Mean.				3.17	3.61	3.42	3.05	2.89	2.70	2.67	2.47	2.48	
11.			Gauge re-erected	3.00	3.15	3.20	3.05	2.80	2.60	2.80	2.52	2.55	
12.		3.12		3.15	3.17	3.05	2.80	2.60	2.75	2.50	2.55		
13.		3.07		3.10	3.15	3.05	2.80	2.60	2.70	2.72	2.55		
14.		2.97		3.15	3.10	3.05	2.80	2.60	2.70	2.72	2.52		
15.		3.00		3.10	3.22	3.05	2.80	2.60	2.70	2.70	2.50		
16.		3.12		3.05	3.20	3.05	2.75	2.57	2.67	2.70	2.50	2.80	
17.		3.20		3.05	3.15	3.05	2.72	2.55	2.60	2.60	2.45	2.83	
18.		3.20		3.10	3.12	3.05	2.72	2.55	2.60	2.60	2.40	2.90	
19.		3.12		3.37	3.10	3.05	2.70	2.55	2.75	2.60	2.35	2.68	
20.		3.62		3.35	3.10	3.05	2.70	2.55	2.72	2.60	2.35	2.73	
Mean.			3.14	3.16	3.15	3.05	2.76	2.58	2.70	2.63	2.47		
21.			3.75	3.20	3.10	3.05	2.70	2.52	2.70	2.60	2.30	2.93	
22.			3.50	3.15	3.05	3.05	2.70	2.50	2.65	2.60	2.30	3.60	
23.			3.90	3.07	3.05	2.95	2.70	2.50	2.62	2.60	2.20	3.15	
24.		3.60	4.20	3.10	3.05	2.90	2.70	2.50	2.62	2.55	2.30	2.90	
25.		3.58	3.80	3.47	3.05	2.85	2.70	2.50	2.70	2.52	2.47	2.90	
26.		3.35	3.30	3.55	3.05	2.85	2.70	2.50	2.80	2.50	2.50	2.95	
27.		3.32	3.32	4.50	3.05	2.82	2.70	2.50	2.77	2.50	2.52	3.00	
28.		3.88	3.25	4.70	3.05	2.80	2.70	2.50	2.70	2.45	2.57	3.10	
29.		3.80	3.40	4.75	3.05	2.80	2.70	2.47	2.67	2.40	2.70	3.10	
30.			3.67	4.60	3.05	2.80	2.70	2.45	2.60	2.40	2.60	2.95	
31.			3.42		3.05		2.70	2.45		2.40		2.83	
Mean.			3.61	3.81	3.05	2.88	2.70	2.50	2.68	2.50	2.45	3.04	
Monthly Mean.			3.32	3.52	3.20	2.99	2.78	2.59	2.68	2.53	2.47		
Max.			4.30	4.80	4.15	3.05	2.95	2.80	2.90	2.75	2.70		
Date.			24	28	1	22	4	4	13	4	29		
Min.			2.95	3.05	3.05	2.80	2.70	2.45	2.45	2.40	2.20		
Date.			14	23	31	30	31	31	5	31	24		



RIVER: FUAGI  
 STATION: IDEGE  
 STATION NO: IKB.7  
 YEAR: 1957

## Water levels on U/S (top) Gauge

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.80	4.20			3.00	2.95	2.90	2.82	2.50	2.40	2.75	2.40
2.	3.12	4.02			3.05	2.95	2.90	2.80	2.50	2.45	2.68	2.40
3.	3.05	3.73			3.00	2.95	2.95	2.83	2.50	2.45	2.63	2.40
4.	2.95	3.47			3.05	2.95	2.95	2.70	2.50	2.55	2.50	2.40
5.	2.70	3.22			3.35	2.95	2.95	2.70	2.50	2.40	2.55	2.55
6.	3.05	3.15			3.30	2.95	2.90	2.70	2.50	2.40	2.40	2.55
7.	3.15	3.10			3.37	2.95	2.90	2.73	2.50	2.40	2.45	2.40
8.	3.15	3.12			3.38	2.95	2.90	2.92	2.50	2.50	2.30	2.20
9.	3.08	3.18			3.40	2.95	2.90	2.83	2.50	2.40	2.30	2.20
10.	2.92	3.27			3.45	2.95	2.90	2.78	2.55	2.40	2.30	2.20
Mean.	3.00	3.45			3.24	2.95	2.92	2.78	2.51	2.44	2.49	2.37
11.	2.67	3.35			3.35	2.88	2.90	2.68	2.40	2.45	2.30	2.75
12.	2.75	3.15			3.22	2.80	2.90	2.60	2.40	2.45	2.30	2.60
13.	2.78	3.20			3.12	2.80	2.90	2.60	2.40	2.45	2.35	2.60
14.	3.20	3.20			3.15	2.80	2.90	2.60	2.40	2.30	2.35	2.60
15.	3.35	3.18			3.15	2.87	2.95	2.68	2.40	2.30	2.35	2.70
16.	3.55	3.15			3.10	2.80	2.95	2.67	2.40	2.30	2.27	2.80
17.	3.15	3.10			3.15	2.80	2.95	2.60	2.40	2.30	2.20	2.80
18.	2.87	3.07			3.17	2.80	2.95	2.60	2.40	2.40	2.40	3.00
19.	3.03	3.05			3.32	2.80	2.95	2.60	2.40	2.55	2.60	3.50
20.	3.35	3.23			3.25	2.80	2.90	2.60	2.40	2.40	2.68	3.28
Mean.	3.07	3.17			3.20	2.82	2.93	2.62	2.40	2.39	2.38	2.86
21.	3.57	3.22			3.25	2.80	2.90	2.65	2.40	2.45	2.50	3.20
22.	3.43	3.25			3.10	2.95	2.95	2.65	2.40	2.45	2.50	3.03
23.	3.33	3.25			3.13	3.05	2.95	2.65	2.40	2.45	2.47	2.90
24.	3.65	3.20			3.12	2.90	2.80	2.65	2.50	2.30	2.43	2.88
25.	3.45	3.15			3.00	2.90	2.80	2.65	2.92	2.30	2.35	2.80
26.	3.92	3.15			3.02	2.90	2.95	2.50	2.60	2.25	2.35	2.85
27.	3.83	3.12			2.98	2.90	2.95	2.60	2.50	2.25	2.20	2.70
28.	3.52	3.03			2.90	2.90	2.80	2.60	2.50	2.70	2.20	2.75
29.	3.30				2.95	2.90	2.82	2.58	2.53	2.75	2.20	2.70
30.	3.73				2.95	2.90	2.85	2.50	2.40	2.75	2.40	3.05
31.	3.80				2.95		2.85	2.50		2.75		3.15
Mean.	3.59	3.17			3.03	2.91	2.87	2.59	2.52	2.49	2.36	2.91
Monthly Mean.	3.23	3.27			3.15	2.89	2.90	2.66	2.47	2.44	2.41	2.72
During the dry months this river is being dammed continuously for irrigation purposes.												
Max.	3.95	4.25			3.45	3.05	2.95	2.95	3.05	2.75	2.75	3.60
Date.	27	1			10	23	3/27	8	25	31	2	19
Min.	2.65	2.95			2.90	2.80	2.80	2.50	2.40	2.20	2.20	2.20
Date.	13	28			28	21	29	31	30	26	30	10

RIVER: FUAGI  
 STATION: IDEGE  
 STATION NO: IKB.7  
 YEAR: 1957

Down Stream (Bottom) Gauge.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.96	2.06			1.33	1.21	1.11	1.05	0.91	0.87	0.68	0.58
2.	1.26	1.97			1.35	1.20	1.11	1.04	0.91	0.85	0.67	0.57
3.	1.24	1.75			1.32	1.20	1.10	1.04	0.91	0.81	0.66	0.56
4.	0.97	1.61			1.32	1.20	1.09	1.03	0.91	0.80	0.66	0.55
5.	0.92	1.46			1.54	1.20	1.09	1.02	0.91	0.80	0.66	0.50
6.	1.12	1.41			1.53	1.20	1.09	1.02	0.91	0.79	0.65	0.50
7.	1.21	1.39			1.57	1.20	1.09	1.03	0.91	0.79	0.64	0.58
8.	1.23	1.48			1.57	1.20	1.09	1.07	0.90	0.80	0.64	0.58
9.	1.26	1.53			1.56	1.20	1.09	1.06	0.90	0.80	0.60	0.58
10.	1.14	1.57			1.55	1.20	1.08	1.03	0.89	0.79	0.63	0.55
Mean.	1.13	1.62			1.46	1.20	1.09	1.04	0.91	0.81	0.65	0.58
11.	0.99	1.48			1.49	1.19	1.08	1.02	0.88	0.79	0.62	0.58
12.	0.96	1.49			1.46	1.19	1.08	1.01	0.88	0.79	0.62	0.58
13.	1.20	1.36			1.42	1.17	1.08	0.99	0.88	0.79	0.61	0.55
14.	1.31	1.33			1.39	1.16	1.08	0.98	0.87	0.78	0.61	0.54
15.	1.20	1.30			1.37	1.15	1.08	0.99	0.87	0.78	0.61	0.60
16.	1.85	1.38			1.36	1.15	1.07	1.00	0.87	0.77	0.60	0.68
17.	1.68	1.38			1.35	1.19	1.07	1.00	0.87	0.76	0.60	0.69
18.	1.52	1.36			1.33	1.14	1.07	0.99	0.86	0.74	0.60	0.81
19.	1.61	1.40			1.56	1.14	1.07	0.99	0.86	0.74	0.60	1.14
20.	1.73	1.38			1.48	1.13	1.08	0.98	0.86	0.74	0.60	1.11
Mean.	1.41	1.39			1.42	1.16	1.08	1.00	0.87	0.77	0.61	0.73
21.	1.92	1.40			1.37	1.13	1.08	0.97	0.86	0.73	0.60	1.08
22.	1.64	1.46			1.36	1.14	1.07	0.97	0.86	0.72	0.60	0.94
23.	1.81	1.38			1.35	1.16	1.07	0.96	0.86	0.71	0.60	0.90
24.	1.97	1.40			1.36	1.13	1.06	0.96	0.98	0.71	0.60	0.82
25.	1.95	1.36			1.35	1.13	1.06	0.96	1.14	0.71	0.60	0.80
26.	1.54	1.35			1.34	1.13	1.07	0.95	1.13	0.70	0.60	0.79
27.	1.70	1.36			1.32	1.12	1.07	0.97	0.97	0.70	0.59	0.71
28.	1.72	1.32			1.27	1.12	1.06	0.94	0.97	0.69	0.59	0.64
29.	1.60				1.24	1.12	1.05	0.93	0.94	0.69	0.58	0.80
30.	1.72				1.22	1.11	1.05	0.92	0.89	0.68	0.58	1.02
31.	1.85				1.21		1.04	0.91		0.68		1.14
Mean.	1.77	1.38			1.31	1.13	1.06	0.95	0.96	0.70	0.59	0.88
Monthly Mean.	1.44	1.47			1.39	1.16	1.08	0.99	0.91	0.76	0.62	0.72
Max.	1.97	2.06			1.57	1.21	1.11	1.07	1.14	0.87	0.68	1.15
Date.	24	1			8	1	1	8	25	1	1	19
Min.	0.92	1.30			1.21	1.11	1.04	0.91	0.86	0.68	0.58	0.50
Date.	5	15			31	30	31	31	23	31	30	6

RIVER: FUAGI  
 STATION: IDEGE  
 STATION NO: IKB.7  
 YEAR: 1958

Down Stream Gauge

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.21	0.81	1.26	2.63	1.57	1.18	1.17	0.94	0.89	0.70	0.55	0.54
2.	1.25	0.74	1.22	2.45	1.65	1.15	1.16	0.93	0.89	0.70	0.54	0.53
3.	1.26	0.75	1.16	2.12	1.61	1.25	1.15	0.93	0.89	0.70	0.53	0.53
4.	0.98	0.76	1.08	1.96	1.56	1.21	1.15	0.98	0.88	0.70	0.51	0.52
5.	0.92	0.67	0.99	1.93	1.57	1.26	1.14	0.98	0.88	0.70	0.50	0.52
6.	1.18	1.23	0.93	1.78	1.54	1.31	1.13	0.99	0.88	0.70	0.50	0.56
7.	1.25	1.19	1.17	1.64	1.47	1.30	1.14	0.97	0.87	0.69	0.50	0.59
8.	1.21	1.13	1.13	1.56	1.44	1.27	1.12	0.98	0.84	0.69	0.49	0.58
9.	1.06	1.97	1.13	1.51	1.39	1.23	1.10	0.98	0.83	0.72	0.48	0.56
10.	1.03	1.92	1.14	1.47	1.35	1.21	1.09	0.96	0.80	0.71	0.48	0.56
Mean.	1.14	1.02	1.12	1.91	1.52	1.24	1.14	0.96	0.87	0.70	0.51	0.55
11.	0.86	1.91	1.11	1.42	1.33	1.18	1.09	0.95	0.80	0.71	0.47	0.58
12.	0.83	1.86	1.08	1.40	1.30	1.18	1.08	0.94	0.80	0.70	0.47	0.68
13.	0.81	1.85	1.03	1.35	1.30	1.14	1.08	0.93	0.79	0.70	0.46	0.66
14.	0.77	1.52	0.97	1.32	1.26	1.13	1.06	0.92	0.79	0.70	0.45	0.67
15.	0.71	1.80	0.92	1.28	1.24	1.11	1.06	0.91	0.80	0.70	0.45	0.87
16.	0.66	1.67	1.16	1.22	1.19	1.12	1.06	0.91	0.80	0.69	0.60	1.26
17.	0.63	1.45	1.29	1.19	1.16	1.15	1.06	0.91	0.79	0.69	0.60	1.68
18.	0.61	1.37	1.37	1.15	1.15	1.14	1.05	0.90	0.79	0.69	0.58	1.55
19.	0.54	1.10	1.32	1.25	1.12	1.12	1.03	0.90	0.79	0.67	0.57	1.19
20.	0.56	1.01	1.28	1.50	1.22	1.11	1.01	0.92	0.79	0.65	0.57	1.08
Mean.	0.78	1.55	1.15	1.31	1.23	1.14	1.06	0.92	0.79	0.69	0.52	1.02
21.	0.62	1.16	1.39	1.47	1.20	1.11	0.99	0.92	0.78	0.64	0.56	1.05
22.	0.87	1.07	1.46	1.40	1.38	1.11	0.99	0.92	0.78	0.63	0.58	1.06
23.	0.81	1.06	1.43	1.47	1.40	1.11	0.98	0.93	0.77	0.62	0.57	1.08
24.	0.80	1.02	1.77	2.36	1.36	1.10	0.97	0.93	0.77	0.61	0.57	1.15
25.	0.79	0.96	1.81	2.30	1.29	1.10	0.96	0.92	0.77	0.60	0.56	1.33
26.	0.89	0.95	1.83	2.25	1.24	1.11	0.99	0.91	0.76	0.60	0.56	1.69
27.	0.92	0.95	1.88	2.24	1.22	1.10	0.97	0.91	0.74	0.59	0.55	1.62
28.	0.82	1.33	2.12	1.95	1.17	1.12	0.97	0.90	0.73	0.59	0.55	1.44
29.	0.91		1.97	1.77	1.21	1.11	0.96	0.90	0.72	0.59	0.54	1.02
30.	0.97		3.00	1.63	1.21	1.11	0.94	0.89	0.70	0.58	0.54	0.93
31.	0.84		2.67		1.19		0.94	0.89		0.56		0.83
Mean.	0.84	1.06	1.94	1.88	1.26	1.11	0.97	0.91	0.75	0.60	0.56	1.20
Monthly Mean.	0.91	1.22	1.42	1.70	1.33	1.16	1.05	0.93	0.80	0.66	0.53	0.93
Max.	1.28	1.98	3.10	2.64	1.66	1.31	1.18	0.99	0.89	0.72	0.60	1.70
Date.	1	9	30	1	2	6	1	6	3	9	17	26
Min.	0.50	0.60	0.91	1.14	1.11	1.10	0.94	0.89	0.70	0.56	0.45	0.52
Date.	19	5	15	18	19	27	31	31	30	31	15	6

RIVER: FUAGI  
 STATION: LIVALONGA BRIDGE  
 STATION NO: 1KB.7  
 YEAR: 1959

Down Stream Gauge

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.77	0.67	1.63	1.55	1.31	0.95	1.03	0.83	0.76	0.58	0.57	0.84
2.	0.71	0.96	1.65	1.67	1.24	0.91	1.04	0.82	0.74	0.57	0.57	0.81
3.	0.67	1.58	1.58	1.61	1.19	0.92	1.02	0.81	0.75	0.57	0.57	0.77
4.	0.83	1.94	1.38	1.55	1.21	0.89	1.01	0.72	0.74	0.56	0.57	1.01
5.	0.77	1.52	1.24	1.48	1.20	0.86	1.01	0.79	0.73	0.55	0.56	1.01
6.	0.73	0.96	1.25	1.39	1.15	0.88	0.98	0.81	0.72	0.56	0.56	1.01
7.	0.82	0.92	1.24	1.32	1.10	0.86	1.03	0.80	0.72	0.56	0.56	0.97
8.	1.51	1.00	1.28	1.22	1.12	0.84	1.02	0.80	0.67	0.56	0.55	0.95
9.	1.36	1.37	1.38	1.20	1.08	0.97	1.00	0.80	0.65	0.55	0.55	0.85
10.	1.02	1.25	1.24	1.14	1.03	0.94	0.99	0.84	0.65	0.58	0.55	0.72
Mean.	0.91	1.22	1.39	1.41	1.16	0.90	1.01	0.80	0.71	0.56	0.56	0.89
11.	0.93	0.92	1.37	1.04	0.99	0.96	0.99	0.85	0.65	0.58	0.54	0.82
12.	0.82	1.06	1.34	0.94	1.12	0.93	0.97	0.80	0.64	0.58	0.54	0.89
13.	0.74	0.95	1.39	1.03	1.13	0.91	0.96	0.80	0.64	0.58	0.53	0.92
14.	0.76	0.94	1.37	1.10	1.12	0.91	0.94	0.79	0.64	0.57	0.53	1.01
15.	0.81	0.86	1.32	1.44	1.11	0.89	0.92	0.79	0.64	0.56	0.53	1.14
16.	0.93	0.87	1.30	1.34	1.11	0.87	0.90	0.79	0.63	0.60	0.53	1.12
17.	1.03	1.12	1.41	1.37	1.09	0.83	0.89	0.79	0.63	0.60	0.53	1.13
18.	0.99	1.23	1.27	1.39	1.05	0.95	0.89	0.78	0.62	0.60	0.53	1.12
19.	0.88	1.05	1.19	1.36	1.03	0.94	0.88	0.78	0.62	0.59	0.53	1.14
20.	0.78	0.95	1.13	1.31	1.00	0.98	0.88	0.78	0.62	0.58	0.54	1.14
Mean.	0.86	1.00	1.31	1.23	1.08	0.92	0.92	0.80	0.63	0.58	0.53	1.04
21.	0.75	1.28	1.47	1.29	0.98	0.97	0.88	0.79	0.60	0.58	0.54	1.12
22.	0.72	1.53	1.47	1.27	0.96	0.97	0.88	0.79	0.60	0.58	0.55	1.11
23.	0.69	1.50	1.49	1.25	0.98	0.96	0.87	0.78	0.60	0.59	0.55	0.95
24.	0.66	1.54	1.50	1.21	1.05	0.93	0.86	0.78	0.60	0.59	0.55	0.88
25.	0.70	1.37	1.59	1.18	1.02	0.98	0.86	0.78	0.60	0.58	0.56	0.80
26.	0.68	1.16	1.61	1.43	0.97	0.96	0.86	0.78	0.59	0.58	0.58	0.74
27.	0.67	1.40	1.69	1.44	0.94	0.98	0.85	0.77	0.59	0.57	0.58	0.73
28.	0.71	1.36	1.58	1.36	0.92	0.94	0.84	0.77	0.59	0.57	0.78	0.87
29.	0.73		1.53	1.44	1.04	0.97	0.84	0.76	0.58	0.56	0.80	0.97
30.	0.81		1.67	1.43	1.02	0.94	0.84	0.76	0.58	0.56	0.83	0.85
31.	0.73		1.60		0.98		0.82	0.76		0.56		0.85
Mean.	0.71	1.39	1.56	1.33	0.99	0.96	0.85	0.77	0.59	0.57	0.63	0.90
Monthly Mean.	0.83	1.19	1.42	1.33	1.07	0.93	0.93	0.79	0.65	0.57	0.58	0.94
Max.	1.51	2.00	1.70	1.68	1.32	0.98	1.05	0.86	0.76	0.60	0.84	1.16
Date.	8	3	27	2	1	29	2	11	1	18	30	15
Min.	0.66	0.66	1.12	0.92	0.91	0.83	0.82	0.76	0.58	0.54	0.52	0.70
Date.	24	1	20	12	28	17	31	31	30	9	16	10



RIVER: MPANGA  
 STATION: MPANGA  
 STATION NO: IKD-8  
 YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.93	5.47	2.53	5.50	5.43	3.74	2.90	2.52	1.90	1.60	1.20	1.08
2.	3.47	6.29	2.81	4.14	7.47	3.78	2.90	2.80	1.85	1.60	1.18	1.08
3.	4.24	5.33	2.84	5.33	6.53	3.64	2.81	2.65	1.84	1.55	1.16	1.08
4.	3.83	5.13	3.37	4.87	5.73	3.61	2.90	2.47	1.82	1.52	1.16	1.09
5.	2.97	5.02	3.90	5.03	6.87	3.74	2.90	2.40	1.84	1.51	1.14	1.09
6.	5.30	4.13	3.37	4.17	7.13	3.84	2.81	2.30	1.86	1.50	1.12	1.10
7.	3.23	4.43	3.20	7.30	9.13	3.74	2.80	2.37	1.90	1.50	1.12	1.10
8.	4.20	3.60	3.23	7.03	8.81	3.60	2.75	2.57	1.87	1.50	1.10	1.09
9.	5.70	4.20	2.77	5.70	7.63	3.51	2.70	2.63	1.86	1.48	1.10	1.08
10.	4.90	4.27	2.42	4.87	6.74	3.52	2.72	2.47	1.83	1.47	1.06	1.09
Mean.	4.08	4.79	3.04	5.39	7.15	3.67	2.82	2.52	1.86	1.52	1.13	1.09
11.	5.03	4.30	2.24	4.37	6.30	3.81	2.72	2.34	1.80	1.41	1.04	1.40
12.	4.97	3.69	2.15	4.40	6.00	3.45	2.70	2.27	1.80	1.40	1.03	1.35
13.	4.70	4.30	2.12	6.23	5.64	3.40	2.60	2.20	1.76	1.40	1.06	1.17
14.	4.00	4.13	2.63	4.80	5.53	3.31	2.67	2.15	1.72	1.42	1.06	1.00
15.	3.30	3.50	3.17	6.10	5.40	3.30	2.60	2.10	1.70	1.40	1.05	1.03
16.	3.50	3.53	2.61	8.01	5.38	3.22	2.52	2.12	1.70	1.40	1.02	2.17
17.	3.70	3.20	2.60	9.50	5.27	3.21	2.50	2.11	1.74	1.40	1.07	2.07
18.	3.03	3.31	3.27	10.51	4.94	3.20	2.51	2.11	1.65	1.40	1.10	2.00
19.	2.70	3.63	3.47	9.87	4.74	3.12	2.54	2.11	1.64	1.34	1.09	3.10
20.	2.53	4.07	2.87	9.53	5.27	3.11	2.70	2.10	1.62	1.32	1.09	3.30
Mean.	3.75	3.77	2.71	7.33	5.45	3.31	2.61	2.16	1.71	1.39	1.06	1.86
21.	3.43	4.03	2.67	10.27	5.50	3.12	2.81	2.10	1.68	1.30	1.09	2.80
22.	3.45	4.10	2.70	10.03	4.97	3.47	2.67	2.09	1.68	1.30	1.00	2.54
23.	3.30	3.60	2.87	8.60	5.17	3.80	2.60	2.02	1.61	1.24	1.09	2.37
24.	4.30	3.20	3.17	7.47	5.00	3.40	2.50	2.00	1.60	1.22	1.09	2.70
25.	4.80	2.94	3.90	6.60	4.70	3.23	2.54	2.00	2.01	1.20	1.09	2.70
26.	3.87	2.77	3.17	6.23	4.44	3.10	2.70	1.95	2.83	1.20	1.09	2.83
27.	3.00	2.64	9.80	6.48	4.27	3.00	2.65	1.97	2.03	1.17	1.09	2.17
28.	3.13	2.53	5.65	6.00	4.07	3.02	2.58	1.94	1.75	1.20	1.09	2.00
29.	4.88		5.50	5.28	4.00	2.91	2.50	1.90	1.67	1.20	1.08	1.77
30.	6.33		4.33	5.60	3.93	2.90	2.52	1.90	1.60	1.14	1.08	1.70
31.	7.13		4.47		3.83		2.41	1.90		1.17		3.18
Mean.	4.33	3.23	4.38	7.26	4.53	3.20	2.59	1.98	1.85	1.21	1.08	2.44
Monthly												
Mean.	4.06	3.98	3.41	6.66	5.67	3.39	2.67	2.21	1.80	1.37	1.09	1.81
Max.	8.00	6.38	10.20	10.70	9.80	3.90	2.92	2.90	2.90	1.60	1.20	3.70
Date.	31	2	27	18	7	6.7.23	1.4.5	2	26	1-2	1-2	31
Min.	2.40	2.50	2.10	4.00	3.80	2.9 <sup>U</sup>	2.40	1.90	1.60	1.14	1.02	1.00
Date.	20	28	12.13	6	31	29,30	31	29-31	24-30	30	16.17	14.15

RIVER: LPANGA  
 STATION: MPANGA MISSION  
 STATION NO: IKB.8  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.60	1.63	2.97	10.61	10.07	3.34	2.55	2.07	1.97	1.56	1.27	0.93
2.	4.80	1.51	3.53	10.75	8.87	3.28	2.55	2.05	1.88	1.53	1.23	0.92
3.	3.43	1.70	4.21	10.33	8.23	3.22	2.53	2.03	1.84	1.52	1.21	1.83
4.	2.67	3.47	3.77	8.90	7.05	3.23	2.49	2.03	1.86	1.42	1.20	1.78
5.	2.61	2.61	4.54	7.66	6.40	3.37	2.49	2.02	1.86	1.46	1.10	1.30
6.	2.78	2.73	4.43	6.48	6.05	3.91	2.45	2.00	1.75	1.45	1.10	1.20
7.	3.93	3.73	3.13	5.87	5.75	3.65	2.40	2.02	1.71	1.40	1.10	1.10
8.	3.61	2.84	5.17	5.40	5.35	3.35	2.37	1.98	1.71	1.61	1.00	1.67
9.	2.63	3.43	5.40	5.00	5.00	3.26	2.37	2.05	1.70	1.61	1.00	1.22
10.	3.11	3.43	3.73	4.71	4.75	3.19	2.35	2.14	1.68	1.60	1.00	1.03
Mean.	3.52	2.71	4.09	7.57	6.75	3.38	2.46	2.04	1.80	1.52	1.12	1.30
11.	2.65	3.20	5.21	4.43	4.62	3.12	2.33	2.11	1.65	1.54	1.00	0.97
12.	2.20	3.61	5.33	4.18	4.49	3.37	2.30	2.18	1.64	1.53	1.00	1.43
13.	2.04	3.68	4.53	4.12	4.37	3.29	2.28	2.11	1.64	1.52	1.00	2.53
14.	1.74	3.81	4.18	4.01	4.31	3.09	2.28	1.98	1.72	1.47	0.90	2.73
15.	1.77	3.94	3.94	3.91	4.21	3.03	2.25	1.94	1.69	1.47	0.90	1.97
16.	1.55	4.44	3.73	3.78	4.11	3.29	2.25	1.83	1.63	1.47	0.96	2.33
17.	1.41	3.23	3.87	3.94	4.06	2.92	2.23	1.90	1.63	1.42	0.96	3.20
18.	1.35	2.97	5.10	4.51	4.01	2.87	2.21	1.90	1.65	1.38	1.00	3.57
19.	1.41	3.11	6.33	5.07	3.93	2.87	2.21	1.95	1.68	1.31	1.00	3.60
20.	1.40	3.00	5.03	5.50	3.87	2.85	2.21	1.94	1.75	1.38	1.00	2.50
Mean.	1.75	3.50	4.73	4.35	4.20	3.07	2.26	1.98	1.67	1.45	0.97	2.48
21.	1.21	3.25	4.97	4.73	4.10	2.81	2.20	2.03	1.71	1.31	1.00	2.30
22.	1.19	4.90	6.15	4.47	4.03	2.75	2.18	2.12	1.65	1.30	0.90	2.83
23.	1.34	3.20	6.33	6.31	3.85	2.69	2.18	2.12	1.66	1.27	1.03	2.53
24.	1.73	3.40	4.80	10.13	3.73	2.63	2.15	2.00	1.65	1.33	0.90	5.53
25.	2.20	2.73	4.41	10.43	3.65	2.63	2.15	1.92	1.58	1.30	0.90	5.77
26.	2.23	2.67	4.07	10.13	3.61	2.63	2.14	1.85	1.52	1.22	0.90	8.37
27.	2.14	2.53	4.87	9.83	3.58	2.63	2.13	1.84	1.58	1.17	0.90	6.17
28.	2.21	2.57	6.80	9.84	3.51	2.63	2.11	1.92	1.58	1.13	0.95	4.20
29.	2.23		8.64	8.53	3.42	2.62	2.10	1.91	1.52	1.22	1.00	3.00
30.	2.23		9.87	10.10	3.38	2.61	2.07	1.95	1.51	1.17	1.00	2.50
31.	2.31		11.27		3.37		2.07	1.97		1.15		2.27
Mean.	1.91	3.16	6.56	8.45	3.66	2.66	2.13	1.96	1.60	1.23	0.95	4.13
Monthly Mean.	2.38	3.12	5.17	6.79	4.83	3.04	2.28	2.00	1.69	1.39	1.01	2.69
Max.	6.10	4.90	11.32	11.10	10.30	3.91	2.55	2.18	1.97	1.61	1.27	9.00
Date.	1	16	31	2	1	6	2	12	1	9	1	26
Min.	1.16	1.42	2.90	3.72	3.34	2.60	2.07	1.83	1.51	1.13	0.90	0.90
Date.	24	2	1	17	30	26	31	16	30	28	27	11

RIVER: MPANGA  
 STATION: MPANGA MISSION  
 STATION NO: LKB.8  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.25	3.23	5.88	5.68	4.97	2.33	1.93	1.67	1.35	1.17	0.80	1.86
2.	2.03	3.30	5.27	6.00	4.40	2.31	2.41	1.60	1.29	1.13	0.77	1.61
3.	2.00	3.60	5.93	5.63	4.30	2.29	2.31	1.61	1.25	1.10	0.79	1.31
4.	3.03	4.26	6.33	4.47	3.90	2.21	2.13	1.57	1.28	1.11	0.75	1.12
5.	2.33	4.16	5.83	3.97	3.70	2.19	1.99	1.55	1.30	1.12	0.73	1.15
6.	1.93	3.46	4.27	4.10	3.57	2.15	1.94	1.53	1.29	1.17	0.75	2.43
7.	1.73	2.76	5.70	3.77	3.95	2.10	1.93	1.47	1.30	1.13	0.83	1.61
8.	1.83	2.83	4.80	3.37	3.67	2.06	1.93	1.45	1.30	1.72	0.89	1.47
9.	2.23	2.66	4.97	3.13	3.41	2.13	1.92	1.41	1.30	1.59	0.87	1.15
10.	2.43	2.70	4.10	2.97	3.41	2.14	1.88	1.43	1.30	1.45	0.83	1.14
Mean.	2.18	3.29	5.23	4.31	3.93	2.19	2.04	1.53	1.30	1.27	0.80	1.49
11.	2.60	3.00	4.27	2.90	3.50	2.06	1.82	1.41	1.30	1.37	0.74	1.32
12.	2.23	2.73	3.90	4.13	3.23	2.09	1.75	1.41	1.30	1.15	0.62	2.63
13.	2.90	2.53	5.03	3.67	4.20	2.04	1.77	1.41	1.27	1.04	0.60	2.77
14.	2.53	2.23	3.77	3.50	3.67	2.13	1.71	1.57	1.21	1.04	0.58	2.48
15.	2.73	2.23	3.72	3.23	3.33	2.09	1.71	1.57	1.17	1.01	0.56	2.95
16.	3.50	2.06	3.70	3.83	3.13	2.03	1.61	1.61	1.17	1.05	0.56	3.05
17.	5.50	2.36	3.57	3.93	3.01	2.09	1.61	1.50	1.17	0.94	0.56	2.65
18.	3.90	3.06	5.40	4.43	2.91	2.02	1.57	1.51	1.17	0.91	0.52	2.47
19.	4.90	2.46	3.97	4.67	2.78	2.01	1.53	1.50	1.15	0.86	0.54	1.80
20.	3.03	2.13	3.27	4.42	2.77	1.99	1.60	1.50	1.16	0.82	0.56	1.73
Mean.	3.38	2.48	4.06	3.87	3.25	2.06	1.67	1.50	1.21	1.02	0.58	2.39
21.	2.56	2.30	3.37	4.20	2.71	2.02	1.61	1.50	1.17	0.80	0.48	1.67
22.	2.33	4.20	3.90	3.80	2.62	2.06	1.64	1.57	1.17	0.83	0.52	1.50
23.	2.16	3.50	4.03	3.53	2.58	2.00	1.63	1.85	1.15	0.83	0.81	1.28
24.	2.03	4.13	3.73	3.47	2.54	1.97	1.60	1.73	1.12	0.80	0.74	1.19
25.	2.13	4.16	3.57	5.08	2.47	1.95	1.61	1.57	1.12	0.80	1.67	1.27
26.	2.83	4.33	3.77	6.82	2.41	1.93	1.60	1.50	1.17	0.80	2.19	2.06
27.	2.23	4.00	3.87	7.50	2.36	1.93	1.62	1.41	1.20	0.80	2.10	1.55
28.	2.43	4.60	4.40	6.87	2.33	1.90	1.63	1.40	1.38	0.79	2.53	1.70
29.	2.63		4.53	6.80	2.32	1.89	1.61	1.50	1.15	0.79	1.55	1.84
30.	2.43		5.80	5.60	2.35	1.88	1.60	1.41	1.13	0.89	1.32	2.12
31.	2.86		4.60		2.32		1.65	1.38		0.82		1.87
Mean.	2.42	3.90	4.14	5.37	2.46	1.95	1.62	1.53	1.18	0.81	1.39	1.64
Monthly Mean.	2.65	3.18	4.47	4.51	3.19	2.07	1.77	1.52	1.23	1.03	0.93	1.83
Max.	5.50	4.60	6.50	8.40	5.10	2.34	2.48	1.92	1.80	1.76	3.06	3.14
Date.	17	28	4	26	1	1	2	23	28	8	28	12
Min.	1.73	2.06	3.20	2.90	2.32	1.86	1.50	1.34	1.12	0.76	0.46	1.08
Date.	17	16	20	11	31	30	18	31	30	29	21	5







RIVER: MNYERA  
 STATION: TAVETA.  
 STATION NO: IKB.9  
 YEAR: 1957

Readings on the D/S slope gauge transferred to vertical heights												
Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.02	11.36	5.93	12.42	10.06	7.13	5.90	5.51	4.80	4.32	3.90	3.44
2.	5.83	10.96	5.99	11.27	9.95	7.58	5.90	5.60	4.76	4.29	3.88	3.47
3.	6.42	10.30	5.68	12.07	9.86	6.54	5.90	5.51	4.68	4.26	3.85	3.45
4.	6.29	11.53	7.03	13.39	9.68	6.69	5.90	5.48	4.61	4.07	3.84	3.62
5.	6.15	11.43	7.34	12.72	10.15	6.93	5.90	5.42	4.57	4.38	3.83	3.86
6.	7.75	9.94	10.94	10.51	10.69	6.80	5.90	5.34	4.57	4.36	3.81	3.79
7.	6.93	9.61	11.12	11.41	10.67	6.78	5.86	5.41	4.57	4.30	3.78	3.74
8.	6.47	8.23	11.66	11.02	10.13	6.64	5.79	5.34	4.57	4.24	3.86	3.72
9.	7.18	8.09	8.77	10.78	9.61	6.58	5.77	5.31	4.57	4.24	3.73	3.79
10.	7.35	7.99	7.87	10.24	9.32	6.54	5.74	5.54	4.57	4.22	3.71	3.86
Mean.	6.54	9.94	8.23	11.58	10.01	6.82	5.86	5.45	4.63	4.27	3.82	3.67
11.	7.23	7.71	7.39	9.32	9.72	6.48	5.70	5.74	4.57	4.18	3.68	5.71
12.	6.42	7.52	7.39	9.09	9.74	6.09	5.64	5.71	4.57	4.16	3.66	5.74
13.	6.80	8.20	7.04	10.48	9.37	6.39	5.64	5.47	4.57	4.13	3.63	5.29
14.	6.18	8.94	6.91	12.09	8.66	6.39	5.87	5.23	4.57	4.11	3.73	4.02
15.	6.00	8.36	7.34	15.01	8.23	6.33	5.77	5.11	4.57	4.09	3.79	3.88
16.	6.22	8.27	7.45	15.33	8.90	6.26	5.68	5.12	4.57	4.05	3.87	3.92
17.	5.99	8.25	6.54	14.94	8.90	6.24	5.73	5.14	4.53	4.09	3.79	4.11
18.	5.74	8.40	7.74	15.37	9.44	6.24	5.67	5.17	4.50	4.11	3.70	4.57
19.	5.29	8.34	9.36	15.68	9.12	6.33	5.57	4.93	4.62	4.05	3.64	4.82
20.	5.14	8.52	9.18	15.90	8.61	6.11	5.77	5.18	4.77	4.00	3.61	4.95
Mean.	6.10	8.25	7.63	13.32	9.07	6.29	5.70	5.28	4.58	4.10	3.71	4.70
21.	5.53	9.05	8.29	16.11	8.14	5.86	5.93	5.41	4.76	3.98	3.59	5.02
22.	6.03	8.94	8.04	16.18	8.12	6.27	5.91	5.57	4.71	3.96	3.57	5.36
23.	6.82	8.42	8.12	15.90	8.10	6.52	5.77	5.34	4.57	3.93	3.55	6.18
24.	7.78	8.10	7.71	14.98	7.91	6.22	5.68	5.12	4.55	3.91	3.54	6.19
25.	8.25	7.97	7.76	13.17	8.31	6.06	5.64	5.17	4.54	3.89	3.52	6.12
26.	7.93	7.65	11.16	11.27	8.68	6.25	5.84	5.33	4.73	3.86	3.50	6.19
27.	6.90	7.28	10.40	10.85	9.07	6.49	6.06	5.30	4.71	3.85	3.50	6.47
28.	6.90	6.89	8.02	10.53	8.88	6.67	5.98	5.03	4.58	3.83	3.59	6.61
29.	8.44		11.34	10.26	8.49	6.93	5.80	4.92	4.50	3.92	3.46	6.72
30.	10.58		12.17	10.16	8.16	5.99	5.74	4.87	4.42	3.92	3.45	7.14
31.	11.21		12.24		7.78		5.64	4.84		3.90		7.34
Mean.	7.85	8.04	9.57	12.94	8.33	6.33	5.82	5.17	4.61	3.90	3.53	6.30
Monthly Mean.	6.86	8.79	8.51	12.62	9.11	6.48	5.79	5.30	4.61	4.08	3.69	4.94
Max.	11.70	11.75	13.03	16.45	11.07	7.19	6.13	5.82	4.85	4.40	3.90	7.19
Date.	31	5	27	23	7	1	27	11	26	5	1	30
Min.	4.85	6.80	5.54	8.94	7.65	5.78	5.55	4.83	4.35	3.83	3.44	3.44
Date.	1	5	3	12	31	21	19	31	30	28	30	3

RIVER: MNYERA  
 STATION TAVETA  
 STATION NO: IKB.9  
 YEAR: 1957

Readings on the U/S slope gauge transferred to vertical heights

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.70	11.42	6.43	12.25	10.06	7.03	5.44	5.11	4.30	3.82	3.22	2.83
2.	5.41	11.15	6.44	11.45	9.90	6.68	5.42	5.21	4.24	3.77	3.22	2.83
3.	6.22	10.45	6.39	11.89	9.89	6.50	5.40	5.13	4.16	3.72	3.22	2.83
4.	6.10	11.53	6.89	13.18	9.72	6.44	5.40	5.05	4.05	3.72	3.22	3.40
5.	5.90	11.45	7.20	12.38	10.10	6.39	5.40	4.96	3.97	3.72	3.16	3.33
6.	7.53	10.00	7.16	10.51	10.82	6.39	5.40	4.91	3.99	3.78	3.09	3.22
7.	6.78	9.82	7.64	11.49	10.52	6.39	5.37	4.96	4.00	3.72	3.09	3.16
8.	6.23	8.13	8.26	11.32	9.97	6.32	5.34	4.91	4.01	3.72	3.16	3.16
9.	8.02	7.86	8.40	10.57	9.46	6.26	5.33	4.87	4.02	3.72	3.09	3.22
10.	7.10	7.90	7.59	10.04	9.35	6.15	5.30	5.11	4.03	3.69	3.09	3.22
Mean.	6.30	9.97	7.24	11.51	9.98	6.46	5.38	5.02	4.08	3.74	3.16	3.12
11.	7.01	7.44	7.29	8.99	9.75	6.09	5.27	5.29	4.05	3.66	3.09	3.40
12.	6.22	7.33	7.27	9.09	9.59	6.02	5.23	5.24	4.07	3.62	3.03	4.32
13.	6.62	8.05	6.90	10.24	9.12	5.96	5.19	5.09	4.08	3.59	3.03	3.86
14.	5.93	8.82	6.88	11.66	8.79	5.93	5.44	4.77	4.09	3.53	3.09	3.81
15.	5.76	8.22	6.88	14.64	8.53	5.89	5.29	4.65	4.09	3.46	3.16	3.99
16.	5.98	8.14	7.05	14.96	8.20	5.82	5.18	4.66	4.11	3.53	3.24	4.64
17.	5.75	8.21	6.47	14.86	8.91	5.76	5.15	4.67	4.04	3.57	3.11	4.76
18.	5.36	8.27	7.49	15.48	9.42	5.83	5.13	4.66	3.97	3.51	3.03	4.84
19.	5.02	8.20	8.76	15.81	9.07	5.82	5.08	4.43	4.08	3.45	3.03	4.90
20.	4.83	8.50	8.84	16.00	8.53	5.70	5.34	4.70	4.19	3.40	2.96	4.98
Mean.	5.85	8.12	7.38	13.17	8.99	5.88	5.23	4.82	4.08	3.53	3.08	4.35
21.	5.26	8.99	8.14	15.97	8.11	5.42	5.63	4.98	4.05	3.38	2.96	5.03
22.	5.75	8.79	8.02	15.42	7.95	5.73	5.53	5.16	3.99	3.37	2.96	5.61
23.	6.66	8.90	7.69	14.72	7.91	6.03	5.28	4.91	3.92	3.34	2.96	5.88
24.	7.62	7.96	7.55	14.34	7.62	5.81	5.21	4.63	3.91	3.31	2.96	5.68
25.	8.23	7.73	8.02	13.29	8.17	5.63	5.14	4.71	3.91	3.29	2.90	5.60
26.	7.81	7.44	7.47	11.15	8.72	5.88	5.45	4.89	4.20	3.20	2.83	5.63
27.	6.68	7.11	7.55	10.84	9.12	6.15	5.68	4.84	4.22	3.11	2.83	6.17
28.	6.74	6.77	7.28	10.50	8.81	6.34	5.54	4.59	4.07	3.33	2.83	6.69
29.	8.36		10.72	10.25	8.40	6.45	5.29	4.40	3.92	3.22	2.83	7.10
30.	10.66		11.55	10.16	7.79	5.57	5.24	4.35	3.89	3.34	2.83	7.34
31.	11.31		11.38		7.40		5.14	4.32		3.29		8.28
Mean.	7.73	7.96	8.67	12.66	8.18	5.90	5.38	4.71	4.01	3.29	2.89	6.26
Monthly Mean	6.66	8.74	7.79	12.45	9.02	6.08	5.33	4.84	4.05	3.51	3.04	4.64
Max.	11.66	11.72	11.66	16.10	11.15	7.21	5.73	5.27	4.33	3.86	3.29	8.46
Date.	31	5	30	21	6	1	27	11	26	1	16	31
Min.	4.47	6.64	6.29	8.88	7.26	5.34	5.01	4.30	3.88	3.09	2.83	2.83
Date.	1	28	17	11	31	21	19	31	30	27	30	3

RIVER: MNYERA  
 STATION: TAVETA  
 STATION NO: IKB.9  
 YEAR: 1958.

Readings on D/S slope gauge  
 transferred to vertical heights

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	8.08	5.98	9.92	12.75	16.27	6.95	6.02	5.11	4.95	4.53	4.08	3.71
2.	8.62	5.81	9.69	12.05	14.77)	6.87	6.03	5.19	4.90	4.51	4.10	3.67
3.	8.92	5.56	8.75	11.05	10.89	6.87	6.03	5.27	4.90	4.45	4.12	4.40
4.	9.33	5.43	8.06	11.25	10.69	6.80	6.01	5.33	4.90	4.43	4.16	4.61
5.	9.88	5.42	7.89	10.88	10.51	6.91	6.00	5.31	4.89	4.39	4.10	4.41
6.	9.46	5.59	7.65	10.49	10.19	6.93	5.99	5.29	4.88	4.38	4.09	4.38
7.	9.01	5.74	8.27	10.10	9.92	7.02	5.97	5.28	4.87	4.36	4.03	4.17
8.	8.57	6.28	6.82	9.71)	9.46	6.93	5.96	5.26	4.85	4.31	4.00	3.83
9.	7.69	5.98	6.85	9.16	9.27	6.84	5.94	5.22	4.84	4.79	3.90	3.78
10.	7.11	6.65	6.56	8.75	8.83	6.78	5.82	5.20	4.82	4.85	3.89	3.70
Mean.	8.67	5.84	8.05	10.62	11.08	6.89	5.98	5.25	4.88	4.50	4.05	4.07
11.	6.74	7.09	6.59	8.51	8.55	6.72	5.79	5.37	4.82	4.57	3.86	3.67
12.	6.34	6.64	6.62	8.29	8.42	6.61	5.76	5.40	4.81	4.56	3.85	3.80
13.	6.01	7.04	6.66	8.18	8.36	6.61	5.74	5.34	4.79	4.51	3.85	4.60
14.	5.72	6.70	7.93	8.10	8.21	6.54	5.72	5.22	4.78	4.45	3.84	4.81
15.	5.41	6.75	8.81	7.84	8.04	6.54	5.67	5.16	4.77	4.43	3.83	5.27
16.	5.14	6.63	9.38	7.69	7.95	6.48	5.65	5.14	4.75	4.39	3.82	6.06
17.	5.71	6.67	9.61	7.69	7.91	6.46	5.62	5.10	4.74	4.38	3.81	6.17
18.	6.16	6.42	10.01	8.04	7.82	6.40	5.59	5.09	4.72	4.36	4.08	5.72
19.	6.63	6.65	11.48	10.73	7.71	6.38	5.55	5.02	4.71	4.29	3.97	4.87
20.	6.91	6.50	11.39	10.53	7.67	6.36	5.53	5.01	4.71	4.19	3.93	5.76
Mean.	6.08	6.71	8.85	8.56	8.06	6.51	5.66	5.19	4.76	4.41	3.88	5.07
21.	6.54	7.65	12.00	10.69	7.80	6.35	5.48	4.99	4.69	4.12	3.92	6.50
22.	5.48	7.65	12.91	13.75	7.80	6.33	5.45	5.09	4.68	4.10	3.90	6.63
23.	4.72	8.75	(16.25	(16.07	7.63	6.27	5.42	5.16	4.66	4.06	3.89	7.60
24.	4.81	9.72	20.54	14.26	7.54	6.20	5.39	5.15	4.64	4.02	3.90	8.04
25.	5.09	9.73	20.60	13.36	7.43	6.17	5.35	5.14	4.63	3.99	3.91	8.77
26.	5.34	9.77	18.18	12.56	7.34	6.14	5.30	5.09	4.62	3.98	3.73	8.94
27.	5.67	10.26	17.15	12.85	7.26	6.13	5.27	5.07	4.60	3.96	3.73	9.22
28.	6.06	10.60	16.15	11.15	7.19	6.11	5.23	5.03	4.58	4.04	3.73	8.66
29.	5.86		14.87	19.60	7.19	6.09	5.19	5.01	4.57	4.03	3.75	8.21
30.	5.54		14.15	17.75	7.06	6.04	5.14	4.99	4.55	3.99	3.73	7.97
31.	5.55		13.46		7.00		5.03	4.96		3.98		7.77
Mean.	5.51	9.27	16.02	14.20	7.39	6.18	5.30	5.06	4.62	4.02	3.82	8.03
Monthly Mean.	6.71	7.13	11.14	11.13	8.80	6.53	5.63	5.16	4.75	4.30	3.92	5.80
Max.	10.06	10.67	20.60	19.60	16.27	7.06	6.03	5.42	4.95	4.53	4.16	9.33
Date.	5	28	25	29	1	7	3	11	1	1	4	27
Min.	4.56	5.38	6.54	7.65	7.00	6.03	5.00	4.95	4.55	3.96	3.72	3.65
Date.	23	5	9	17	31	30	31	31	30	27	29	11

RIVER: MNYERA  
STATION: TAVETA  
STATION NO: KCB.9  
YEAR: 1958

Readings on the U/S slope gauge transferred to vertical heights

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	8.74	5.02	9.93			6.67	5.67		4.59	4.10	3.56	3.28
2.	9.05	5.18	9.70			6.62	5.70		4.57	4.07	3.60	3.28
3.	9.00	5.18	8.51		13.30	6.59	5.68	4.96	4.52	4.05	3.62	4.09
4.	9.12	5.77	7.67		12.00	6.55	5.68	5.04	4.51	4.03	3.66	4.23
5.	9.60	5.68	7.69		11.21	6.61	5.67	4.97	4.49	3.99	3.60	4.05
6.	10.21	5.79	7.36		10.44	6.69	5.67	4.96	4.45	3.99	3.57	3.79
7.	8.50	7.92	8.32		10.08	6.74	5.63	4.97	4.45	3.97	3.52	3.53
8.	7.36	7.85	6.57		9.59	6.69	5.61	4.95	4.44	3.93	3.47	3.44
9.	7.03	7.88	6.87	9.18	9.07		5.58	4.91	4.43	4.49	3.34	3.37
10.	6.82	8.44	7.08	8.94	8.73		5.55	4.89	4.43	4.46	3.33	3.32
Mean.	8.54	6.47	7.97		11.53	6.64	5.64	4.94	4.49	4.11	3.53	3.64
11.	6.31	8.99	7.34	8.54	8.52		5.49	5.06	4.40	4.26	3.30	3.28
12.	5.61	6.39	7.53	8.28	8.33	6.47	5.48	5.06	4.39	4.18	3.28	3.39
13.	5.13	6.34	7.68	8.05	8.20	6.39	5.43	4.91	4.38	4.13	3.28	4.25
14.	4.71	6.35	7.82	7.79	8.06	6.28	5.41	4.84	4.36	4.08	3.27	4.37
15.	5.70	5.45	8.58	7.66	7.94	6.24	5.37	4.82	4.35	4.05	3.26	4.76
16.	6.63	6.32	8.55	7.51	7.74	6.22	5.31	4.72	4.33	4.03	3.24	4.87
17.	6.14	6.16	8.68	7.77	7.62	6.15	5.29	4.71	4.32	3.99	3.23	5.05
18.	5.12	6.18	9.98	7.89	7.58	6.08	5.28	4.69	4.32	3.93	3.56	6.92
19.	4.78	6.40	11.08	11.10	7.51	6.07	5.24	4.65	4.30	3.92	3.44	6.02
20.	4.46	6.40	11.89	9.70	7.42	6.02	5.22	4.64	4.30	3.85	3.39	5.76
Mean.	5.46	6.50	8.91	8.43	7.89	6.25	5.35	4.81	4.35	4.04	3.33	4.87
21.	5.28	7.34	12.04	9.37	7.52	6.01	5.16	4.63	4.26	3.74	3.37	6.35
22.	4.45	7.33	14.19	13.69	7.50	5.96	5.14	4.78	4.25	3.72	3.35	6.38
23.	4.19	8.42			7.39	5.93	5.11	4.84	4.24	3.67	3.33	7.58
24.	4.38	9.41			7.26	5.88	5.09	4.77	4.22	3.65	3.34	7.85
25.	4.60	9.43			7.19	5.81	5.05	4.74	4.20	3.61	3.35	8.33
26.	4.92	9.71			7.08	5.75	5.02	4.71	4.19	3.59	3.33	8.48
27.	5.11	10.25			7.01	5.75	4.97	4.71	4.17	3.57	3.30	9.25
28.	5.22	10.51			6.99	5.74	4.93	4.68	4.17	3.53	3.30	8.00
29.	5.65				6.94	5.73	4.89	4.64	4.13	3.51	3.33	7.47
30.	5.54				6.85	5.69	4.85	4.63	4.12	3.46	3.31	6.64
31.	5.22				6.77		4.83	4.62		3.44		5.92
Mean.	4.96	9.05	15.96	13.92	7.14	5.83	5.00	4.70	4.20	3.59	3.33	7.48
Monthly Mean.	6.28	7.22	11.11	10.99	8.80	6.24	5.32	4.82	4.34	3.90	3.39	5.40
Max.	10.38	10.64	20.50	19.50	16.20	6.75	5.70	5.10	4.60	4.51	3.67	9.32
Date.	6	28	24	29	1	7	2	12	1	9	4	27
Min.	4.02	5.01	6.45	7.41	6.71	5.68	4.81	4.61	4.10	3.43	3.30	3.28
Date.	20	1	8	16	31	30	31	31	30	31	30	11

RIVER: MNYERA  
 STATION: TAVETA  
 STATION NO: 1KB.9  
 YEAR: 1959

Readings on U/S slope gauge  
 transferred to vertical heights.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	5.18	8.09	11.76	13.10	9.05	4.92	4.92	4.16	3.87	3.40	3.16	4.18
2.	4.72	8.34	10.55	12.88	8.33	4.92	4.91	4.13	3.86	3.37	3.18	4.04
3.	4.63	8.88	10.05	12.69	8.13	4.90	4.88	4.12	3.85	3.33	3.33	3.84
4.	4.50	9.41	10.80	11.38	7.99	4.86	4.84	4.11	3.84	3.32	3.28	3.79
5.	4.38	9.57	10.30	10.89	7.88	4.84	4.83	4.09	3.80	3.31	3.18	3.51
6.	4.30		8.81	10.62	7.81	4.81	4.79	4.07	3.80	3.30	3.14	3.99
7.	3.92		9.55	10.13	7.58		4.78	4.06	3.79	3.37	3.84	3.76
8.	4.49		9.27	9.20	7.16			4.05	3.78	3.49	3.52	3.78
9.	5.06		9.25	8.76	6.60			4.03	3.77	3.69	3.38	3.22
10.	5.63		9.38	8.11	6.52			4.02	3.74	4.53	3.25	
Mean.	4.68		9.97	10.78	7.71			4.08	3.81	3.51	3.33	
11.	5.69		8.60	7.84	6.63			3.99	3.73	4.40	3.16	
12.			7.73	7.77	6.46			4.00	3.72	4.35	3.09	
13.		6.44	7.54	7.77	6.31			4.05	3.71	3.61	3.09	
14.		6.86	7.48	8.10	6.20			4.19	3.69	3.54	3.03	
15.		6.13	7.34	8.40	6.08			4.17	3.65	3.50	2.98	
16.		5.56	7.71	8.15	5.95	4.78	4.45	4.22	3.59	3.44	2.96	7.51
17.		6.37	9.31	8.04	5.85	4.86	4.44	4.26	3.55	3.38	2.90	6.90
18.		6.83	10.03	7.91	5.77	4.89	4.43	4.23	3.53	3.33	2.90	6.50
19.		7.11	8.54	7.77	5.74	4.85	4.40	4.20	3.51	3.22	2.83	5.84
20.		6.73	8.51	7.75	5.69	4.82	4.39	4.19	3.50	3.16	2.83	5.54
Mean.			8.28	7.95	6.07			4.15	3.62	3.59	2.98	
21.		6.27	9.49	7.62	5.61	4.79	4.36	4.18	3.54	3.16	2.76	5.65
22.		6.77	9.82	7.48	5.56	4.78	4.32	4.17	3.53	3.22	2.83	4.88
23.		6.76	10.40	7.22	5.51	4.77	4.32	4.13	3.52	3.16	3.39	4.42
24.		6.90	11.66	7.09	5.38	4.76	4.30	4.12	3.51	3.16	3.76	4.56
25.		6.85	10.15	8.28	5.30	4.74	4.29	4.10	3.50	3.09	3.49	4.79
26.		6.92	10.32	7.88	5.24	4.72	4.26	4.09	3.51	3.17	4.07	4.99
27.		6.93	11.04	10.01	5.18	4.68	4.26	4.07	3.46	3.16	5.22	4.85
28.		8.70	12.47	10.49	5.15	4.65	4.23	4.05	3.52	3.03	4.72	4.59
29.			11.59	10.30	5.02	4.63	4.19	4.03	3.57	3.16	4.30	4.42
30.			12.19	9.98	5.04	4.62	4.18	3.99	3.46	3.09	4.00	4.32
31.			13.00		4.97		4.17	3.96		3.16		4.34
Mean.		7.01	11.10	8.64	5.28	4.71	4.26	4.08	3.51	3.14	3.85	
Monthly Mean.			9.83	9.12	6.31			4.10	3.65	3.41	3.39	
Max.			12.55	13.25	9.30	4.95	4.93	4.27	3.87	4.55	5.39	
Date.			28	3	1	1	1	7	2	10	27	
Min.			7.29	7.03	4.96	4.61	4.15	3.95	3.45	3.03	2.76	
Date.			15	24	31	30	31	31	30	28	21	

Note: No water level readings available during blank periods owing to illness of gauge reader.





RIVER: RUKHJI  
 STATION: MKASU  
 STATION NO: IKB-10  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	7.73	12.93	9.73	15.30	17.03	11.50	9.70	8.80	8.03	7.40	6.90	6.40
2.	9.67	13.07	9.70	15.63	16.77	11.40	9.70	8.83	8.00	7.40	6.90	6.40
3.	9.40	15.37	9.80	15.60	16.67	11.40	9.63	8.93	8.00	7.40	6.80	6.40
4.	8.93	15.40	10.30	15.80	16.90	11.30	9.60	8.87	8.00	7.30	6.83	6.40
5.	8.80	13.33	10.63	15.53	17.10	11.20	9.60	8.80	8.00	7.30	6.97	6.50
6.	11.17	12.40	10.13	15.37	17.07	11.10	9.50	8.73	8.00	7.30	6.87	7.73
7.	11.43	13.73	9.80	14.63	17.10	11.00	9.50	8.70	7.90	7.30	6.80	7.40
8.	10.47	12.93	9.60	15.40	17.10	10.93	9.50	8.60	7.90	7.30	6.80	7.30
9.	11.10	13.47	9.43	14.83	17.00	10.87	9.40	8.67	7.90	7.30	6.80	7.30
10.	9.80	12.97	9.20	14.77	16.80	10.77	9.40	8.60	7.83	7.30	6.87	6.90
Mean.	9.85	13.56	9.83	15.29	16.95	11.15	9.55	8.75	7.96	7.33	6.85	6.87
11.	10.03	12.27	9.00	14.87	16.37	10.67	9.30	8.60	7.80	7.20	6.80	7.57
12.	9.93	12.53	8.83	16.40	15.63	10.60	9.30	8.60	7.80	7.20	6.80	8.27
13.	10.20	12.70	8.70	16.87	15.13	10.60	9.27	8.50	7.80	7.20	6.80	7.60
14.	11.17	11.63	9.03	16.80	14.60	10.50	9.20	8.50	7.80	7.20	6.80	7.37
15.	10.30	11.33	9.17	17.40	14.23	10.50	9.20	8.50	7.70	7.20	6.80	7.10
16.	9.83	10.97	9.40	17.30	14.03	10.40	9.20	8.40	7.70	7.20	6.97	7.17
17.	9.53	11.20	12.30	17.43	14.27	10.30	9.20	8.40	7.70	7.13	6.90	7.60
18.	9.10	11.60	12.50	17.50	13.90	10.27	9.10	8.40	7.70	7.10	6.73	7.80
19.	8.93	12.33	12.00	17.50	13.53	10.20	9.07	8.40	7.63	7.10	6.70	8.53
20.	8.53	14.70	13.50	17.43	13.57	10.20	9.13	8.40	7.60	7.10	6.70	11.30
Mean.	9.76	12.13	10.44	16.95	14.53	10.42	9.20	8.47	7.72	7.16	6.80	8.03
21.	9.03	12.33	14.90	17.40	13.27	10.13	9.30	8.40	7.60	7.00	6.60	10.83
22.	8.93	11.70	14.03	17.33	13.03	10.20	9.20	8.33	7.60	7.00	6.60	11.20
23.	8.90	11.30	15.50	17.20	12.93	10.27	9.10	8.30	7.60	7.00	6.60	10.50
24.	9.00	10.93	14.53	17.10	12.73	10.10	9.07	8.30	7.60	7.00	6.60	9.87
25.	9.90	10.83	13.73	16.93	12.53	10.00	9.00	8.30	7.60	7.00	6.60	11.50
26.	9.90	10.67	13.67	16.93	12.33	10.00	9.00	8.20	7.60	6.90	6.50	10.67
27.	9.43	10.20	15.33	17.03	12.13	9.90	9.00	8.20	7.70	6.90	6.50	9.90
28.	10.03	9.97	15.53	17.13	11.97	9.80	9.00	8.20	7.60	6.90	6.43	10.37
29.	11.47		15.07	17.13	11.80	9.70	8.93	8.20	7.50	6.87	6.40	9.60
30.	12.60		14.50	17.13	11.67	9.70	8.94	8.10	7.43	6.83	6.40	10.43
31.	14.37		15.83		11.57		8.80	8.10		6.90		10.50
Mean.	10.32	10.99	14.78	17.13	12.36	9.98	9.03	8.24	7.58	6.94	6.52	10.49
Monthly Mean.	9.99	12.31	11.79	16.46	14.54	10.52	9.25	8.48	7.75	7.14	6.73	8.53
Max.	14.80	16.60	16.20	17.60	17.10	11.50	9.700	9.00	8.10	7.40	7.00	12.60
Date.	31	3	27	18	8	1	3	3	1	3	16	21
Min.	7.70	9.90	8.70	14.40	11.50	9.70	8.80	8.10	7.40	6.80	6.40	6.40
Date.	1	28	13	7	31	30	31	31	30	30	30	4

RIVER: RUHUJI  
STATION: MKASU  
STATION NO: IKB.10  
YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	13.00	8.37	10.07	17.12	17.15	9.95	8.95	8.00	7.50	7.00	6.50	6.70
2.	16.80	8.30	9.77	17.12	17.25	9.95	8.95	7.90	7.50	6.90	6.60	6.60
3.	15.30	8.57	10.13	17.05	17.08	9.95	8.95	7.90	7.50	6.90	6.70	6.60
4.	12.33	9.23	10.07	17.02	16.92	9.95	8.95	7.90	7.50	6.90	6.70	6.67
5.	11.10	9.03	10.13	16.72	16.45	9.92	8.85	7.90	7.43	6.90	6.60	7.30
6.	10.57	9.10	10.80	16.15	15.20	9.78	8.75	7.90	7.40	6.90	6.60	7.03
7.	10.33	9.83	12.63	15.18	14.20	9.75	8.75	7.90	7.40	6.90	6.50	6.83
8.	10.50	9.67	12.87	14.17	13.43	9.65	8.75	7.90	7.33	6.90	6.50	6.70
9.	10.37	9.37	14.57	13.67	12.93	9.65	8.75	7.90	7.30	6.90	6.50	6.60
10.	10.30	9.53	14.17	13.17	12.50	9.65	8.75	7.80	7.30	6.90	6.40	6.50
Mean.	12.06	9.10	11.52	15.74	15.31	9.82	8.84	7.90	7.42	6.91	6.56	6.75
11.	10.00	9.53	14.83	12.70	12.23	9.65	8.65	7.80	7.20	6.90	6.40	6.50
12.	9.67	10.57	13.67	12.50	11.93	9.55	8.55	7.80	7.20	6.90	6.40	6.67
13.	9.30	10.57	13.57	12.13	11.73	9.55	8.55	7.80	7.20	6.90	6.40	7.93
14.	8.93	12.33	14.33	11.83	11.53	9.55	8.55	7.80	7.20	6.90	6.40	7.17
15.	8.70	14.40	14.70	11.63	11.37	9.52	8.55	7.70	7.20	6.90	6.40	7.07
16.	8.37	13.07	16.38	11.33	11.20	9.45	8.55	7.70	7.20	6.90	6.40	7.33
17.	8.30	12.80	16.72	11.20	11.10	9.45	8.40	7.70	7.20	6.90	6.40	7.20
18.	8.20	12.80	14.58	11.43	10.97	9.35	8.30	7.70	7.20	6.90	6.50	8.27
19.	8.07	12.03	13.60	11.33	10.83	9.35	8.30	7.60	7.20	6.90	6.50	8.87
20.	7.97	11.23	16.30	11.97	10.80	9.25	8.20	7.60	7.20	6.80	6.50	10.33
Mean.	8.75	11.93	14.87	11.81	11.37	9.47	8.46	7.72	7.20	6.89	6.43	7.73
21.	7.90	11.30	16.83	12.67	10.80	9.25	8.20	7.60	7.20	6.80	6.50	10.53
22.	7.80	11.67	17.02	12.13	10.87	9.25	8.10	7.60	7.20	6.80	6.50	10.47
23.	7.80	11.53	16.75	12.50	10.67	9.15	8.10	7.60	7.20	6.70	6.50	10.33
24.	8.00	10.70	16.58	16.12	10.60	9.12	8.10	7.60	7.13	6.70	6.50	13.40
25.	8.50	10.43	16.08	16.72	10.43	9.05	8.10	7.60	7.10	6.70	6.90	10.23
26.	8.67	11.83	15.62	16.55	10.37	9.05	8.10	7.60	7.03	6.70	6.73	12.53
27.	9.07	10.73	17.08	15.88	10.30	9.05	8.10	7.60	7.00	6.60	6.60	10.87
28.	9.53	10.30	17.02	16.35	10.23	9.00	8.10	7.60	7.00	6.60	6.60	10.20
29.	9.23		16.58	16.25	10.10	8.95	8.10	7.53	7.00	6.60	6.60	9.67
30.	8.93		16.68	17.08	10.07	8.95	8.00	7.50	7.00	6.60	6.70	9.00
31.	8.57		17.08		10.07		8.00	7.50		6.50		8.47
Mean.	8.55	11.06	16.67	15.23	10.41	9.08	8.09	7.58	7.09	6.66	6.61	10.52
Monthly Mean.	9.75	10.67	14.42	14.26	12.30	9.46	8.45	7.73	7.23	6.82	6.53	8.41
Max.	16.80	14.90	17.05	17.15	17.25	9.95	8.95	8.00	7.50	7.00	6.90	13.50
Date.	2	15	31	30	2	5	4	1	5	1	25	24
Min.	7.80	8.30	9.70	11.20	10.00	8.95	8.00	7.50	7.00	6.50	6.40	6.50
Date.	23	3	2	17	30	30	31	31	30	31	17	11

RIVER: RUMUJI  
 STATION: MKASU  
 STATION NO: 1KB.10  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	8.13	7.90	12.87	16.48	12.00	8.50	8.00	7.40	7.15	6.75	6.75	8.38
2.	7.96	9.90	11.63	15.55	11.37	8.50	7.90	7.40	7.15	6.75	6.75	8.05
3.	7.70	9.86	12.47	14.63	11.43	8.50	8.00	7.40	7.05	6.75	6.75	8.25
4.	7.50	10.66	12.47	13.67	11.40	8.40	8.00	7.40	7.05	6.75	6.85	7.85
5.	7.40	10.16	11.80	12.90	11.17	8.40	7.90	7.40	7.05	6.75	6.83	7.85
6.	7.26	9.83	11.37	12.30	10.70	8.40	7.90	7.40	7.05	6.75	6.85	7.95
7.	7.20	9.46	11.10	12.63	10.53	8.30	7.80	7.40	7.05	6.85	6.85	8.18
8.	7.20	9.83	12.53	12.03	10.67	8.30	7.80	7.40	7.05	7.18	6.88	8.05
9.	7.20	9.60	12.17	12.17	10.67	8.30	7.80	7.40	7.05	8.18	7.10	7.95
10.	7.96	8.93	12.40	11.57	10.07	8.30	7.80	7.40	7.05	7.78	7.05	7.75
Mean.	7.55	9.61	12.08	13.39	11.00	8.39	7.89	7.40	7.07	7.05	6.87	8.03
11.	8.50	8.80	11.47	11.80	9.90	8.30	7.80	7.60	7.05	7.58	6.92	8.55
12.	9.86	11.40	10.83	11.60	9.80	8.30	7.80	7.50	7.05	7.45	6.75	10.97
13.	8.66	9.86	11.80	11.33	9.67	8.30	7.70	7.50	6.98	7.32	6.75	10.20
14.	10.03	10.23	12.27	11.20	9.70	8.20	7.70	7.60	6.95	7.22	6.65	10.80
15.	11.00	9.80	11.80	12.07	9.60	8.10	7.70	7.60	6.95	7.12	6.63	10.12
16.	17.01	9.50	13.13	11.80	9.60	8.10	7.60	7.50	6.95	7.02	6.55	9.81
17.	16.21	12.73	13.70	11.40	9.40	8.10	7.60	7.40	6.95	6.95	6.55	9.72
18.	15.75	9.73	13.07	11.03	9.37	8.10	7.60	7.33	6.95	6.85	6.55	9.28
19.	12.60	9.90	12.50	11.47	9.27	8.10	7.50	7.30	6.95	6.82	6.45	8.85
20.	11.23	9.90	12.97	11.00	9.20	8.10	7.50	7.30	6.95	6.75	6.45	8.45
Mean.	12.08	10.18	12.35	11.47	9.55	8.17	7.65	7.46	6.97	7.11	6.63	9.68
21.	10.43	9.80	15.30	10.93	9.20	8.10	7.50	7.26	6.95	6.75	6.45	8.28
22.	9.80	10.00	15.40	11.50	9.10	8.10	7.50	7.15	6.95	6.75	6.45	8.32
23.	9.36	11.20	13.23	10.90	9.00	8.10	7.50	7.15	6.95	6.82	6.63	8.08
24.	9.13	11.13	12.47	10.70	8.90	8.10	7.50	7.15	6.95	6.82	7.02	7.85
25.	9.10	11.20	11.73	10.73	8.90	8.10	7.50	7.15	6.85	6.75	8.02	7.75
26.	10.36	11.20	14.18	10.67	8.80	8.10	7.50	7.15	6.85	6.75	11.18	7.85
27.	9.43	11.40	14.30	10.97	8.70	8.10	7.40	7.15	6.85	6.75	9.32	7.95
28.	9.30	13.20	12.50	11.83	8.70	8.00	7.40	7.15	6.85	6.75	9.35	7.85
29.	11.30		12.30	13.17	8.60	8.00	7.40	7.15	6.85	6.75	9.20	7.85
30.	10.30		15.20	12.70	8.57	8.00	7.40	7.15	6.85	6.75	8.95	7.85
31.	9.83		16.05		8.50		7.40	7.15		6.75		7.95
Mean.	9.85	11.14	13.88	11.41	8.82	8.07	7.45	7.16	6.89	6.76	8.26	7.96
Monthly Mean.	9.83	10.25	12.81	12.09	9.76	8.21	7.66	7.34	6.98	6.97	7.25	8.54
Max.	17.01	13.20	16.45	16.75	12.00	8.50	8.00	7.60	7.15	8.25	11.55	11.10
Date.	16	28	31	1	1	3	4	15	2	9	26	14
Min.	7.20	7.90	10.80	10.60	8.50	8.00	7.40	7.15	6.85	6.65	6.45	7.65
Date.	9	1	12	26	31	30	31	31	30	27	22	11

RIVER : SOFI  
STATION: SOFI MISSION  
NO : ICB.11  
YEAR: 1956

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Date. Jan. Feb. Mar. Apr. May. June. July. Aug. Sept. Oct. Nov. Dec.

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Mean.

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RIVER: SOFI  
 STATION: SOFI MISSION  
 STATION NO: IKB.11  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.70	1.69	0.55	2.24	2.04	1.26	0.89	0.77	0.47	0.32	0.22	0.15
2.	0.95	1.04	0.64	2.61	2.16	1.14	0.84	0.79	0.49	0.33	0.26	0.12
3.	0.94	1.33	0.56	5.19	2.45	1.06	0.85	0.74	0.49	0.31	0.23	0.12
4.	1.39	3.85	0.65	2.29	2.39	0.99	0.83	0.70	0.50	0.32	0.22	0.15
5.	1.20	1.61	0.89	2.21	2.67	1.25	0.76	0.66	0.46	0.33	0.22	0.14
6.	1.73	1.02	0.57	1.91	2.81	1.16	0.75	0.64	0.43	0.34	0.25	0.13
7.	0.79	1.01	0.85	2.37	5.05	1.09	0.71	0.59	0.42	0.36	0.21	0.14
8.	1.55	0.97	0.72	3.04	4.01	0.97	0.64	0.69	0.46	0.30	0.23	0.16
9.	0.62	1.25	0.66	2.28	2.47	0.87	0.83	0.65	0.41	0.23	0.21	0.12
10.	0.61	0.81	0.51	2.56	2.34	1.26	0.84	0.64	0.46	0.33	0.22	0.12
Mean.	1.05	1.46	0.66	2.67	2.84	1.11	0.80	0.69	0.46	0.32	0.23	0.14
11.	0.62	0.83	0.64	2.49	2.26	1.19	0.85	0.63	0.41	0.31	0.21	0.17
12.	0.54	1.19	0.84	3.17	2.45	1.06	0.83	0.61	0.46	0.32	0.24	0.35
13.	0.71	2.22	0.52	3.46	3.09	0.99	0.85	0.58	0.41	0.32	0.18	0.33
14.	0.59	1.68	0.61	3.53	2.82	0.91	0.82	0.55	0.39	0.26	0.15	0.26
15.	0.56	0.79	0.45	3.65	2.31	0.84	0.76	0.55	0.41	0.31	0.24	0.24
16.	0.57	0.74	1.79	3.16	2.05	0.95	0.96	0.52	0.39	0.35	0.14	0.23
17.	0.53	0.65	5.65	3.94	1.93	0.91	0.83	0.56	0.41	0.32	0.15	0.46
18.	0.54	0.70	4.94	4.67	1.81	0.93	0.86	0.53	0.38	0.31	0.15	0.36
19.	0.49	0.99	2.21	5.17	2.09	0.96	0.83	0.55	0.40	0.31	0.16	0.46
20.	0.65	1.25	2.99	3.85	2.02	0.93	0.79	0.52	0.37	0.36	0.11	0.42
Mean.	0.58	1.10	2.06	3.71	2.28	0.97	0.84	0.56	0.40	0.32	0.17	0.33
21.	0.77	0.99	2.36	4.09	1.88	1.06	0.73	0.53	0.33	0.34	0.14	0.36
22.	0.40	0.75	1.82	3.41	1.79	0.99	0.71	0.51	0.35	0.33	0.12	0.34
23.	0.31	0.64	1.76	2.91	1.66	0.95	0.66	0.53	0.34	0.31	0.14	0.54
24.	0.88	0.58	2.29	2.47	1.59	0.94	0.76	0.51	0.46	0.34	0.12	0.52
25.	0.62	0.59	2.71	2.68	1.53	0.86	0.74	0.52	0.43	0.32	0.13	0.66
26.	0.55	0.64	2.36	2.49	1.46	0.85	0.75	0.51	0.41	0.31	0.12	0.56
27.	0.55	0.55	2.71	2.04	1.52	0.96	0.72	0.53	0.34	0.33	0.12	0.74
28.	0.58	0.54	2.38	1.75	1.48	0.86	0.72	0.52	0.31	0.33	0.12	0.66
29.	1.30		2.24	1.92	1.36	0.92	0.71	0.48	0.32	0.32	0.18	0.56
30.	1.04		3.86	2.11	1.29	0.93	0.68	0.48	0.32	0.27	0.13	2.57
31.	3.35		4.45		1.21		0.69	0.50		0.25		2.37
Mean.	0.94	0.66	1.72	2.59	1.52	0.93	0.72	0.51	0.36	0.31	0.13	0.90
Monthly												
Mean.	0.86	1.10	1.81	2.96	2.19	1.00	0.78	0.58	0.41	0.32	0.18	0.47
Max.	4.12	4.12	7.94	5.98	5.08	1.28	0.94	0.82	0.52	0.38	0.28	2.71
Date.	31	4	17	18	7	1	1	2	4	5,7,20	2	30
Min.	0.28	0.50	0.42	1.44	1.18	0.82	0.62	0.48	0.30	0.20	0.10	0.12
Date.	23	27	15	28	31	15,26,29	8	29-31	21,28,30.	9	16,20,22.	1,7,9,10

RIVER: SOFI  
 STATION: SOFI MISSION  
 STATION NO: IKB.11  
 YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.79	0.51	0.77	3.05	4.95	1.25	0.77	0.37	0.12	0.16	0.00	-0.34
2.	1.41	0.46	1.46	4.46	7.29	1.23	0.74	0.35	0.12	0.14	0.00	-0.32
3.	1.14	0.43	1.24	3.94	5.84	1.22	0.66	0.33	0.16	0.14	-0.12	-0.32
4.	0.86	0.59	1.06	5.56	2.75	1.16	0.64	0.35	0.34	0.12	-0.12	-0.32
5.	0.52	0.64	0.84	4.24	2.55	1.31	0.76	0.37	0.34	0.12	-0.15	-0.32
6.	0.67	0.76	0.66	2.73	1.59	1.25	0.66	0.34	0.32	0.12	-0.17	-0.32
7.	0.76	0.95	3.18	1.95	1.39	1.20	0.65	0.33	0.28	0.12	-0.20	-0.32
8.	0.69	0.85	3.32	1.04	1.18	1.14	0.61	0.30	0.22	0.12	-0.22	-0.32
9.	0.66	0.69	2.96	1.66	1.04	1.26	0.64	0.27	0.24	0.12	-0.22	-0.32
10.	0.62	0.85	0.94	1.24	2.06	1.16	0.60	0.24	0.22	0.12	-0.22	-0.32
Mean.	0.91	0.67	1.64	3.00	3.06	1.22	0.67	0.33	0.24	0.13	-0.14	-0.32
11.	0.56	0.66	4.06	1.06	1.99	1.15	0.57	0.25	0.18	0.12	-0.22	-0.32
12.	0.39	0.56	3.84	1.34	1.85	1.12	0.54	0.23	0.16	0.12	-0.22	-0.27
13.	0.33	0.69	1.96	1.73	1.64	1.08	0.57	0.25	0.14	0.12	-0.22	-0.16
14.	0.33	0.71	1.63	1.66	1.46	1.04	0.55	0.24	0.12	0.12	-0.22	-0.28
15.	0.33	0.64	1.46	1.55	1.32	0.96	0.51	0.23	0.12	0.12	-0.22	-0.27
16.	0.46	0.98	2.05	1.55	1.18	1.03	0.47	0.24	0.12	0.12	-0.22	-0.25
17.	0.42	1.15	1.96	1.67	1.76	0.97	0.57	0.23	0.12	0.12	-0.26	-0.29
18.	0.36	1.18	2.44	1.93	1.62	0.94	0.47	0.22	0.12	0.12	-0.30	-0.32
19.	0.27	0.99	2.02	2.36	1.63	0.86	0.45	0.18	0.12	0.12	-0.34	0.14
20.	0.23	1.26	2.35	2.51	1.61	0.84	0.44	0.18	0.12	0.12	-0.34	0.55
Mean.	0.37	0.88	2.33	1.74	1.61	1.00	0.51	0.23	0.13	0.12	-0.26	-0.15
21.	0.23	1.05	4.56	2.29	1.54	0.86	0.43	0.18	0.12	0.12	-0.34	0.73
22.	0.22	1.71	3.94	1.98	1.26	0.84	0.37	0.18	0.12	0.12	-0.34	2.30
23.	0.24	1.64	2.11	2.05	1.29	0.77	0.35	0.16	0.12	0.12	-0.34	2.09
24.	0.57	1.53	1.98	4.23	1.55	0.86	0.33	0.16	0.12	0.12	-0.34	1.66
25.	1.77	1.25	1.84	3.19	1.48	0.85	0.33	0.15	0.12	0.00	-0.32	3.07
26.	0.89	1.09	1.45	3.32	1.45	0.86	0.33	0.14	0.12	0.00	-0.32	2.94
27.	0.96	0.91	1.24	3.14	1.44	0.83	0.47	0.16	0.12	0.00	-0.32	2.90
28.	0.79	0.84	1.66	1.64	1.39	0.86	0.45	0.16	0.12	0.00	-0.22	0.79
29.	0.73		1.34	3.04	1.33	0.84	0.43	0.14	0.12	0.00	-0.28	0.59
30.	0.65		3.78	5.09	1.33	0.86	0.44	0.12	0.12	0.00	-0.34	0.48
31.	0.59		4.09		1.29		0.44	0.12		0.00		0.43
Mean.	0.69	1.25	2.73	3.22	1.42	0.84	0.40	0.15	0.12	0.05	-0.32	1.63
Monthly Mean.	0.66	0.91	2.26	2.65	2.01	1.02	0.52	0.23	0.16	0.10	-0.24	0.43
Max.	1.98	2.18	6.78	5.58	7.58	1.32	0.78	0.38	0.34	0.16	0.00	3.08
Date.	25	22	30	4	2	5	1	5	5	1	2	25
Min.	0.22	0.42	0.64	1.02	1.02	0.74	0.32	0.12	0.12	0.00	-0.34	-0.34
Date.	22	3	6	8	9	23	31	30	31	31	24	1

RIVER: SOFI  
 STATION: SOFI MISSION  
 STATION NO: 1KB.11  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	0.37	0.59	1.55	1.52	1.47	0.56	0.46	0.28	0.14	-0.00	-0.26	-0.26
2.	0.25	0.61	3.36	1.46	1.35	0.50	0.36	0.27	0.12	-0.00	-0.26	-0.24
3.	0.14	1.72	2.11	1.36	1.26	0.44	0.52	0.25	0.14	-0.00	-0.24	-0.24
4.	0.12	2.26	1.66	1.24	1.26	0.67	0.46	0.27	0.12	-0.16	-0.24	-0.22
5.	0.27	1.67	1.24	1.06	1.20	0.56	0.43	0.26	0.15	-0.18	-0.24	-0.26
6.	0.33	1.17	1.60	0.85	1.11	0.67	0.46	0.26	0.14	-0.16	-0.24	-0.28
7.	0.27	0.91	1.47	0.76	1.00	0.56	0.44	0.25	0.14	-0.16	-0.24	-0.28
8.	0.23	1.19	1.28	0.65	0.90	0.64	0.26	0.24	0.14	-0.16	-0.24	-0.18
9.	2.11	0.27	1.44	1.16	0.79	0.64	0.44	0.25	0.14	-0.00	-0.24	-0.18
10.	1.64	0.82	1.94	1.10	0.70	0.61	0.43	0.25	0.14	-0.00	-0.22	-0.18
Mean.	0.57	1.19	1.84	1.12	1.10	0.59	0.44	0.26	0.14	-0.08	-0.24	-0.23
11.	0.73	0.69	1.41	1.26	0.73	0.55	0.36	0.25	0.14	-0.00	-0.22	-0.16
12.	3.03	1.78	1.29	1.44	0.81	0.49	0.34	0.23	0.12	-0.00	-0.36	-0.18
13.	0.33	1.61	1.17	1.26	0.74	0.44	0.46	0.23	0.12	-0.00	-0.38	-0.18
14.	0.27	1.02	1.06	1.66	1.67	0.38	0.34	0.25	0.12	-0.00	-0.38	-0.16
15.	0.15	0.81	1.25	1.48	1.54	0.31	0.36	0.25	0.10	-0.00	-0.38	-0.16
16.	2.30	0.64	1.58	1.26	1.46	0.46	0.34	0.23	0.10	-0.00	-0.38	-0.18
17.	1.99	0.56	1.36	1.07	1.41	0.43	0.33	0.26	0.10	-0.00	-0.38	-0.18
18.	1.33	0.75	1.52	1.17	0.96	0.38	0.36	0.25	0.00	-0.18	-0.48	-0.16
19.	1.21	0.66	1.46	0.94	0.85	0.46	0.35	0.25	-0.18	-0.18	-0.48	-0.20
20.	1.01	1.04	1.65	2.07	0.76	0.53	0.36	0.25	-0.18	-0.28	-0.48	-0.28
Mean.	1.24	0.96	1.38	1.36	1.09	0.44	0.36	0.25	+0.03	-0.06	-0.39	-0.18
21.	0.69	0.96	5.06	1.86	0.73	0.54	0.34	0.25	-0.16	-0.27	-0.48	-0.26
22.	0.57	1.94	3.04	1.65	0.67	0.65	0.33	0.17	-0.16	-0.26	-0.48	-0.24
23.	0.47	1.13	1.90	1.11	0.56	0.59	0.35	0.16	-0.16	-0.26	-0.48	-0.24
24.	0.55	3.04	1.66	0.99	0.54	0.61	0.33	0.18	-0.16	-0.25	-0.48	-0.22
25.	0.82	2.66	1.54	1.66	0.75	0.56	0.32	0.16	-0.16	-0.24	-0.38	-0.22
26.	0.55	1.46	2.26	1.43	0.67	0.54	0.33	0.14	-0.18	-0.24	-0.28	-0.22
27.	0.45	1.19	1.64	2.06	0.64	0.55	0.26	0.14	-0.16	-0.22	-0.26	-0.22
28.	0.31	1.66	1.86	2.92	0.56	0.47	0.24	0.13	-0.16	-0.22	-0.24	-0.12
29.	0.79		1.74	1.92	0.57	0.44	0.26	0.13	-0.15	-0.22	-0.24	-0.12
30.	0.39		1.46	1.54	0.46	0.36	0.24	0.13	-0.14	-0.22	-0.18	-0.12
31.	0.54		1.45		0.45		0.30	0.13		0.28		0.12
Mean.	0.58	1.51	2.15	1.71	0.60	0.53	0.30	0.16	-0.16	-0.24	-0.35	-0.19
Monthly Mean.	0.78	1.27	1.80	1.40	0.92	0.52	0.36	0.22	+0.04	-0.13	-0.33	-0.20
Max.	3.18	3.08	5.08	2.98	1.68	0.68	0.56	0.32	0.16	-0.00	-0.18	-0.12
Date.	12	4	21	28	14	9	3	1	5	17	30	31
Min.	0.12	0.52	1.02	0.64	0.42	0.32	0.22	0.12	-0.18	-0.28	-0.48	-0.28
Date.	4	2	14	8	31	15	30	31	26	31	24	20





RIVER: MCHILLIPA  
 STATION: ID 333  
 STATION NO: IKB.12  
 YEAR: 1957

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.79	3.77	3.65	4.09	4.45	4.05	3.56	4.11	3.88	3.50	3.38	3.18
2.	3.64	3.67	3.85	4.21	4.44	3.95	3.56	4.06	3.86	3.50	3.36	3.16
3.	3.66	3.43	3.77	4.14	4.52	3.75	3.56	4.02	3.86	3.54	3.34	3.18
4.	3.65	3.82	4.47	4.90	4.64	3.77	3.55	4.00	3.86	3.64	3.40	3.18
5.	3.67	3.59	3.65	4.93	4.71	3.76	3.54	4.00	3.85	3.60	3.38	3.22
6.	3.76	3.45	3.68	4.17	4.82	3.76	3.54	3.98	3.82	3.54	3.34	3.19
7.	3.71	(3.43)	3.62	4.29	4.66	3.75	3.54	4.00	3.82	3.56	3.34	3.15
8.	3.70	(3.41)	3.60	4.68	5.10	3.74	3.53	4.01	3.82	3.56	3.33	3.18
9.	3.47	(3.39)	3.58	4.27	4.55	3.78	3.52	4.00	3.78	3.54	3.34	3.17
10.	(3.47)	(3.37)	3.56	4.07	4.59	3.77	3.52	3.99	3.78	3.51	3.34	3.37
Mean.	3.65	3.53	3.74	4.38	4.65	3.81	3.54	4.02	3.83	3.55	3.36	3.18
11.	(3.47)	(3.36)	3.66	4.37	4.51	3.75	3.52	3.96	3.76	3.56	3.34	3.53
12.	(3.46)	(4.40)	3.84	6.75	3.91	3.73	3.40	3.97	3.76	3.55	3.34	3.33
13.	(3.46)	(4.15)	3.50	6.07	4.05	3.63	3.40	3.98	3.74	3.52	3.36	3.26
14.	(3.45)	(3.92)	4.43	5.49	4.12	3.68	3.40	3.96	3.74	3.51	3.34	3.22
15.	(3.45)	(3.84)	3.87	6.03	4.31	3.67	3.48	3.96	3.72	3.50	3.34	2.20
16.	(3.44)	(3.80)	3.64	5.56	4.80	3.65	3.48	3.98	3.72	3.50	3.30	3.40
17.	(3.44)	(3.79)	3.96	5.96	5.11	3.67	3.48	4.02	3.72	3.49	3.28	3.31
18.	(3.43)	(3.78)	5.05	5.55	5.17	3.67	3.47	4.00	3.72	3.46	3.26	3.57
19.	(3.43)	(3.77)	4.31	5.35	4.38	3.65	3.46	4.02	3.72	3.40	3.24	3.48
20.	3.91	(3.76)	4.13	5.87	4.25	3.64	3.48	4.02	3.60	3.48	3.26	3.93
Mean.	3.49	3.86	4.04	5.70	4.46	3.67	3.46	3.99	3.72	3.50	3.31	3.42
21.	3.75	3.75	4.12	6.14	4.43	3.62	3.52	4.00	3.68	3.46	3.26	3.65
22.	3.64	3.73	3.97	5.83	4.24	3.64	3.52	3.98	3.68	3.46	3.26	3.63
23.	3.54	3.68	4.24	5.17	4.13	3.66	3.52	3.96	3.66	3.46	3.20	3.67
24.	3.85	3.64	3.85	4.91	4.10	3.64	3.52	3.96	3.65	3.42	3.22	3.41
25.	3.75	3.62	3.86	4.88	4.03	3.63	4.05	3.96	3.76	3.42	3.22	4.16
26.	3.93	3.58	4.13	4.75	4.03	3.50	4.08	3.94	3.67	3.40	3.22	4.17
27.	3.85	3.65	5.03	4.72	4.25	3.55	4.07	3.93	3.66	3.40	3.22	3.58
28.	3.65	3.62	4.49	4.55	3.97	3.58	4.06	3.92	3.64	3.40	3.20	3.47
29.	3.45		4.27	4.53	4.01	3.56	4.04	3.80	3.62	3.38	3.18	3.44
30.	4.76		4.28	4.49	4.37	3.56	4.04	3.80	3.62	3.38	3.18	3.71
31.	4.05		4.27		3.86		4.04	3.80		3.39		3.54
Mean.	3.84	3.66	4.23	5.00	4.13	3.59	3.86	3.91	3.66	3.42	3.22	3.68
Monthly Mean.	3.67	3.68	4.01	5.02	4.40	3.69	3.63	3.97	3.74	3.48	3.29	3.43
Max.	4.78	(4.40)	5.62	6.75	5.40	4.08	4.08	4.18	3.88	3.64	3.40	4.76
Date.	30	12	18	12	8	1	27	1	1	4	4	25
Min.	(3.43)	(3.39)	3.50	4.07	3.86	3.50	3.40	3.80	3.60	3.38	3.18	3.10
Date.	19	9	13	10	31	27	14	31	20	31	30	7

RIVER: MCHILIPA  
STATION: IDETE  
STATION NO: IKB.12  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.57	3.17	3.33	10.70	12.87)	6.66	5.99	5.26	4.79	4.19	3.77	3.70
2.	3.50	3.16	3.35	11.67	11.10	6.63	5.98	5.26	4.77	4.17	3.80	3.70
3.	3.41	3.16	3.34	8.00	9.30	6.64	5.96	5.25	4.75	4.15	3.86	3.80
4.	3.36	3.19	3.31	7.40)	8.87	6.63	5.93	5.22	4.73	4.13	3.83	3.80
5.	3.50	3.19	3.28	6.96	8.67	6.67	5.82	5.18	4.71	4.11	3.87	3.80
6.	3.32	3.34	3.32	6.62	8.51	6.59	5.76	5.19	4.69	4.09	3.83	3.80
7.	3.95	3.23	4.39	6.37	8.37	6.53	5.75	5.17	4.67	4.07	3.80	3.70
8.	3.49	3.22	5.43	6.21	8.21	6.53	5.73	5.13	4.65	4.05	3.80	3.70
9.	3.49	3.45	4.11	6.28	8.09	6.49	5.58	5.11	4.63	4.03	3.80	3.70
10.	3.39	3.37	3.75	6.13	7.89	6.49	5.54	5.11	4.61	4.01	3.80	3.70
Mean.	3.50	3.25	3.76	7.63	9.19	6.58	5.80	5.19	4.70	4.10	3.82	3.74
11.	3.34	3.32	3.99	5.94	7.81	6.41	5.59	5.08	4.59	3.99	3.80	3.70
12.	3.31	3.38	3.73	5.75	7.73	6.37	5.62	5.04	4.57	3.97	3.80	3.80
13.	3.27	3.95	3.53	5.64	7.67	6.35	5.60	5.02	4.55	3.95	3.80	3.80
14.	3.25	3.62	3.50	5.57	7.60	6.30	5.55	5.02	4.53	3.93	3.80	3.80
15.	3.24	4.07	3.53	5.48	7.55	6.29	5.56	5.00	4.51	3.91	3.80	3.70
16.	3.23	3.57	3.59	5.45	7.49	6.25	5.52	5.00	4.49	3.89	3.80	3.70
17.	3.20	3.56	5.01	5.51	7.41	6.22	5.55	5.00	4.47	3.87	3.80	3.80
18.	3.20	3.79	4.65	5.65	7.37	6.23	5.43	4.98	4.45	3.85	3.80	3.90
19.	3.18	3.50	4.01	6.33	7.27	6.16	5.55	4.98	4.43	3.83	3.80	4.43
20.	3.17	3.44	3.85	6.09	7.22	6.13	5.39	4.96	4.41	3.81	3.80	4.47
Mean.	3.24	3.63	3.94	5.74	7.51	6.27	5.54	5.01	4.50	3.90	3.80	3.91
21.	3.16	3.35	3.69	5.97	7.19	6.11	5.37	4.96	4.39	3.79	3.80	4.93
22.	3.16	4.03	3.75	6.73	7.13	6.05	5.37	4.94	4.37	3.77	3.80	5.30
23.	3.16	3.57	3.68	( 7.96	7.06	6.06	5.36	4.94	4.35	3.75	3.80	4.10
24.	3.16	3.47	3.55	11.24	6.99	6.04	5.37	4.93	4.33	3.73	3.80	4.20
25.	3.97	3.42	3.81	9.48	6.90	6.04	5.37	4.93	4.31	3.71	3.80	4.73
26.	3.40	3.38	5.77	9.68	6.86	6.04	5.35	4.91	4.29	3.69	3.80	4.10
27.	3.30	3.39	4.77	9.41	6.83	6.04	5.31	4.89	4.27	3.67	3.80	4.07
28.	3.28	3.34	5.49	10.19	6.78	6.03	5.27	4.87	4.25	3.65	3.80	4.10
29.	3.25		4.36	9.56	6.78	6.02	5.26	4.85	4.23	3.63	3.80	3.97
30.	3.21		(21.95	13.25	6.72	6.00	5.25	4.83	4.21	3.61	3.70	3.83
31.	3.19		11.00		6.69		5.26	4.81		3.70		3.80
Mean.	3.02	3.49	6.53	9.35	7.59	6.04	5.32	4.90	4.30	3.70	3.79	4.28
Monthly												
Mean.	3.25	3.45	4.80	7.75	7.84	6.30	5.55	5.03	4.50	3.89	3.80	3.99
Max.	4.18	4.44	21.95	13.25	12.87	6.68	6.00	5.26	4.79	4.19	3.90	5.30
Date.	7	15	30	30	1	5	1	3	1	1	6	22
Min.	3.16	3.16	3.28	5.44	6.68	6.00	5.24	4.81	4.21	3.60	3.70	3.70
Date.	24	4	5	17	31	30	30	31	30	30	30	16

Figures in brackets are interpolated.



RIVER: LUMEMO  
STATION: TRIAL FARM  
STATION NO: IKB43  
YEAR: 1957.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.				3.53	6.70	5.03	3.30	2.77	2.00	1.80	2.03	1.27
2.				10.47	6.43	4.90	3.30	2.80	2.00	1.80	1.70	1.17
3.				5.87	6.13	4.80	3.37	2.60	2.00	1.70	1.60	1.10
4.				4.63	6.30	4.70	3.27	2.57	2.00	1.70	1.63	1.10
5.				5.27	13.03	4.60	3.20	2.50	1.97	1.70	1.70	1.10
6.				6.00	10.20	4.77	3.20	2.50	1.90	1.70	1.60	1.10
7.				9.77	12.27	4.50	3.17	2.60	1.90	1.60	1.50	1.10
8.				10.87	11.93	4.47	3.10	3.60	1.90	1.53	1.47	1.10
9.				7.43	10.83	4.50	3.10	2.70	1.90	1.70	1.40	1.20
10.				6.27	9.43	4.30	3.10	2.67	1.80	1.60	1.40	1.23
Mean.				7.01	9.33	4.66	3.21	2.73	1.94	1.68	1.60	1.15
11.				6.07	8.83	4.23	3.00	2.50	1.80	1.60	1.40	1.40
12.				5.53	8.27	4.27	3.00	2.43	1.80	1.60	1.40	1.30
13.				7.05	8.00	4.20	3.07	2.40	1.80	1.60	1.43	1.35
14.			2.30	7.57	7.47	4.10	3.00	2.43	1.80	1.60	1.50	1.40
15.			2.03	8.10	7.13	4.00	2.90	2.30	1.77	1.70	1.53	1.50
16.			4.87	14.10	7.10	3.90	2.90	2.30	1.70	1.70	1.40	2.00
17.			3.53	11.77	7.00	3.87	2.90	2.30	1.70	1.70	1.40	2.10
18.			3.33	10.13	7.00	3.80	2.80	2.30	1.70	1.60	1.30	2.15
19.			4.17	8.80	8.57	3.80	2.93	2.27	1.70	1.50	1.43	2.00
20.			5.03	12.90	7.43	3.73	3.57	2.20	1.70	1.40	1.50	2.00
Mean.				9.40	7.68	3.99	3.01	2.34	1.75	1.60	1.43	1.72
21.			3.60	14.03	6.87	3.70	2.90	2.20	1.70	1.50	1.70	1.70
22.			3.20	13.30	7.02	3.73	2.90	2.17	1.70	1.50	1.70	1.70
23.			3.00	10.67	6.90	3.70	2.80	2.10	1.60	1.40	1.47	1.60
24.			2.80	9.27	6.60	3.60	2.70	2.13	1.67	1.40	1.40	1.40
25.			2.50	9.10	6.10	3.60	2.80	2.20	1.81	1.40	1.30	1.40
26.			5.13	8.90	6.00	3.50	2.80	2.10	2.80	1.40	1.40	1.50
27.			3.97	7.67	5.73	3.40	2.70	2.10	2.13	1.43	1.33	1.50
28.			5.90	7.13	5.40	3.40	2.70	2.10	2.00	1.70	1.27	1.50
29.			4.37	7.57	5.20	3.30	2.67	2.03	1.90	1.50	1.27	1.75
30.			3.77	6.93	5.17	3.30	2.60	2.00	1.80	1.57	1.30	2.70
31.			4.23		5.07		2.60	2.00		3.70		3.40
Mean.			3.86	9.46	6.01	3.52	2.74	2.10	1.91	1.68	1.41	1.83
Monthly Mean.				8.62	7.62	4.06	2.98	2.38	1.87	1.66	1.48	1.57
Max.			9.10	14.50	14.40	5.10	3.60	4.10	3.10	4.50	2.10	3.40
Date.			16	21	5	1	20	8	26	31	1	31
Min.			3.40	5.00	3.30	2.60	2.00	1.60	1.40	1.20	1.10	
Date.				1	31	30	31	31	24	27	29	8

RIVER: LUMINO  
 STATION: TRIAL FARM  
 STATION NO: IKB.13  
 YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.80	1.10	3.10	13.96	13.18	4.73	3.37	2.46	1.90	1.46	1.16	1.07
2.	1.80	1.10	2.46	14.13	12.38	4.67	3.37	2.45	1.89	1.46	1.29	0.92
3.	1.70	1.20	6.07	12.07	10.97	4.76	3.29	2.45	1.86	1.46	1.19	0.95
4.	1.70	1.30	2.47	10.31	10.09	4.97	3.30	2.40	1.86	1.46	1.14	1.00
5.	1.70	1.70	3.45	9.39	9.89	4.92	3.24	2.35	1.85	1.45	1.10	0.97
6.	1.70	1.70	4.71	8.19	9.17	4.83	3.19	2.33	1.82	1.41	1.10	0.95
7.	1.90	1.90	4.19	7.35	8.60	4.61	3.21	2.32	1.81	1.39	1.09	0.93
8.	1.80	1.60	3.68	6.63	8.08	4.41	3.19	2.28	1.79	1.40	1.07	0.89
9.	1.70	2.00	2.75	6.17	7.65	4.36	3.07	2.28	1.77	1.41	1.06	0.83
10.	1.40	2.30	3.03	5.81	7.26	4.29	3.01	2.29	1.73	1.38	1.04	0.82
Mean.	1.82	1.59	3.59	9.40	9.73	4.66	3.22	2.36	1.83	1.43	1.12	0.93
11.	1.40	2.30	4.31	5.40	7.04	4.22	3.02	2.27	1.75	1.37	1.08	0.80
12.	1.40	2.10	3.41	5.07	6.79	4.48	2.99	2.21	1.75	1.40	1.08	0.81
13.	1.40	2.60	2.87	4.79	6.64	4.17	3.00	2.19	1.76	1.36	1.01	0.89
14.	1.35	2.40	3.48	4.63	6.31	4.09	2.97	2.15	1.76	1.35	1.01	1.10
15.	1.35	2.70	2.53	5.54	6.15	4.07	2.96	2.11	1.73	1.35	1.00	1.04
16.	1.35	1.80	2.92	4.55	6.03	4.01	2.92	2.14	1.71	1.36	0.98	0.93
17.	1.30	1.70	4.17	4.40	5.97	3.94	2.89	2.16	1.69	1.31	0.99	1.39
18.	1.30	2.50	7.03	5.57	5.97	3.87	2.83	2.11	1.69	1.27	0.97	1.79
19.	1.30	3.07	4.65	5.63	5.84	3.79	2.75	2.08	1.72	1.27	1.04	1.41
20.	1.20	2.31	3.93	9.45	5.88	3.76	2.69	2.09	1.73	1.22	1.16	1.19
Mean.	1.34	2.35	3.93	5.50	6.26	4.04	2.90	2.15	1.73	1.33	1.03	1.14
21.	1.10	2.47	4.83	7.99	6.03	3.68	2.67	2.13	1.67	1.23	0.99	1.59
22.	1.10	2.20	3.87	7.45	5.67	3.66	2.64	2.09	1.61	1.25	0.96	1.93
23.	1.50	2.21	4.25	9.03	5.39	3.59	2.57	2.06	1.58	1.22	0.95	2.10
24.	1.40	2.43	4.48	11.14	5.23	3.61	2.59	2.04	1.55	1.19	0.94	3.67
25.	1.30	3.57	5.99	12.83	5.15	3.59	2.56	2.00	1.53	1.19	0.94	1.75
26.	1.20	2.29	5.05	13.98	5.09	3.53	2.57	2.02	1.54	1.18	0.92	1.45
27.	1.40	2.15	6.23	13.67	5.03	3.45	2.56	2.01	1.57	1.20	0.90	2.87
28.	1.30	1.93	11.26	14.21	4.97	3.43	2.49	2.00	1.52	1.17	0.92	1.73
29.	1.15		12.08	13.95	4.87	3.42	2.47	1.97	1.50	1.15	0.95	1.26
30.	1.15		14.07	13.81	4.82	3.40	2.49	1.97	1.53	1.13	1.26	1.80
31.	1.10		14.17		4.84		2.48	1.95		1.12		0.97
Mean.	1.25	2.41	7.84	11.81	5.19	3.54	2.55	2.02	1.56	1.18	0.97	1.92
Monthly Mean.	1.36	2.09	5.21	8.90	7.00	4.08	2.88	2.17	1.71	1.31	1.04	1.35
Max.	2.80	4.10	14.30	14.54	13.36	5.10	3.38	2.48	1.92	1.50	1.44	5.02
Date.	1	25	31	29	1	4	2	1	1	1	30	24
Min.	1.10	1.10	2.16	4.30	4.82	3.38	2.46	1.92	1.50	1.10	0.88	0.78
Date.	31	2	5	17	31	30	29	31	29	31	27	12



RIVER : LUMENO  
 STATION: KIBAONI  
 STATION NO: IKB.14  
 YEAR : 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.80	1.85	3.33	19.69	11.77	5.20	4.05	3.30	2.80	2.45	2.15	2.08
2.	3.02	1.91	2.65	13.55	10.87	5.25	4.02	3.30	2.80	2.45	2.15	2.05
3.	2.60	1.95	5.12	11.97	10.47	5.37	3.97	3.28	2.80	2.45	2.15	2.05
4.	2.41	2.18	2.70	9.57	9.57	5.38	3.95	3.20	2.77	2.45	2.15	2.05
5.	2.35	2.17	4.57	8.72	9.50	5.43	3.95	3.17	2.75	2.45	2.15	2.05
6.	2.21	2.73	5.07	7.60	8.98	5.28	3.93	3.15	2.70	2.45	2.15	2.05
7.	2.58	2.20	5.07	7.05	8.35	5.03	3.90	3.10	2.70	2.35	2.15	2.05
8.	2.31	2.22	4.10	6.62	7.97	5.00	3.90	3.10	2.70	2.35	2.08	1.98
9.	2.22	2.23	3.22	6.32	7.68	5.00	3.85	3.10	2.70	2.35	2.05	1.95
10.	2.13	2.41	3.70	6.07	7.40	4.90	3.85	3.10	2.65	2.35	2.05	1.95
Mean.	2.56	2.19	3.95	9.72	9.26	5.18	3.94	3.18	2.74	2.41	2.12	2.03
11.	2.10	2.45	4.57	5.78	7.22	4.80	3.85	3.10	2.65	2.35	2.15	1.95
12.	2.07	2.28	3.68	5.62	7.10	5.00	3.82	3.05	2.65	2.35	2.05	1.95
13.	2.01	2.78	3.48	5.27	6.98	4.70	3.78	3.02	2.65	2.35	2.05	1.95
14.	2.00	2.75	3.85	5.22	6.75	4.65	3.70	3.00	2.65	2.35	2.05	2.08
15.	1.97	3.05	3.18	5.95	6.68	4.60	3.70	3.00	2.62	2.35	2.05	2.08
16.	1.91	2.45	3.45	5.17	6.52	4.55	3.68	3.00	2.60	2.35	2.05	1.98
17.	1.92	2.25	4.27	5.47	6.42	4.45	3.63	3.00	2.60	2.35	2.05	2.45
18.	1.90	3.10	6.55	5.92	6.37	4.50	3.60	3.00	2.60	2.25	2.05	2.65
19.	1.90	3.30	4.87	6.47	6.43	4.45	3.53	3.00	2.60	2.25	2.05	2.32
20.	1.87	2.55	4.43	9.27	6.30	4.30	3.50	3.00	2.60	2.25	2.05	2.25
Mean.	1.97	2.70	4.23	6.01	6.68	4.60	3.68	3.02	2.62	2.32	2.06	2.17
21.	1.85	3.08	4.87	8.22	6.38	4.15	3.47	3.00	2.57	2.25	2.05	2.58
22.	1.90	2.75	4.47	7.68	6.22	4.15	3.42	2.97	2.55	2.25	2.05	2.78
23.	2.37	2.87	4.82	8.78	5.72	4.15	3.40	2.95	2.50	2.25	2.05	2.98
24.	2.17	2.98	5.03	10.37	5.78	4.15	3.40	2.95	2.50	2.25	2.05	3.42
25.	2.23	3.65	5.97	11.50	5.72	4.10	3.40	2.92	2.50	2.25	2.05	2.62
26.	2.15	2.83	5.37	19.29	5.60	4.10	3.40	2.90	2.50	2.25	2.05	2.45
27.	2.15	2.75	6.70	13.18	5.60	4.10	3.35	2.90	2.50	2.25	1.98	3.48
28.	2.07	2.62	13.37	13.67	5.55	4.08	3.35	2.89	2.50	2.25	1.95	2.75
29.	1.91		12.57	15.47	5.42	4.05	3.35	2.85	2.47	2.18	2.05	2.28
30.	1.87		21.10	12.93	5.32	4.05	3.33	2.85	2.45	2.15	2.18	2.18
31.	1.85		15.60		5.32		3.30	2.85		2.15		2.08
Mean.	2.05	2.94	9.08	12.11	5.69	4.11	3.38	2.91	2.50	2.22	2.05	2.69
Monthly Mean.	2.19	2.58	5.85	9.28	7.16	4.63	2.65	3.03	2.62	2.32	2.08	2.31
Max.	3.95	4.35	23.90	22.63	12.20	5.60	4.05	3.30	2.80	2.45	2.25	4.95
Date.	1	25	30	26	1	5	1	2	4	6	30	27
Min.	1.85	1.80	2.00	5.00	5.30	4.05	3.30	2.65	2.45	2.16	1.95	1.95
Date.	31	2	4	17	31	30	31	29	30	31	28	16

RIVER: LUMMO  
STATION: KIBAONI  
STATION NO: LKB.14  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	2.05	2.62	2.85	3.45	5.12	2.65	2.27	2.00	1.80	1.60	1.40	1.40
2.	2.05	2.38	4.35	3.28	4.65	2.65	2.40	2.00	1.80	1.52	1.40	1.40
3.	1.95	2.78	4.08	3.05	4.38	2.65	3.53	1.90	1.80	1.50	1.40	1.40
4.	2.02	3.88	3.88	2.92	4.05	2.50	2.63	1.90	1.80	1.50	1.40	1.40
5.	2.05	2.82	3.50	2.85	3.78	2.50	2.47	1.90	1.78	1.52	1.40	1.70
6.	2.05	2.42	2.58	2.75	3.65	2.50	2.53	1.90	1.75	1.60	1.63	2.00
7.	2.05	2.62	3.72	2.65	4.55	2.50	2.40	1.90	1.73	1.60	1.53	1.53
8.	2.15	2.38	6.18	2.65	4.75	2.40	2.40	1.90	1.70	1.67	1.50	1.50
9.	2.48	2.45	3.88	2.55	4.27	2.40	2.30	1.90	1.70	1.90	1.50	1.50
10.	2.41	3.75	3.55	2.55	3.82	2.40	2.30	1.90	1.70	1.70	1.50	1.50
Mean.	2.13	2.81	3.86	2.87	4.30	2.52	2.52	1.92	1.76	1.61	1.47	1.53
11.	2.32	2.45	3.02	2.52	3.62	2.40	2.20	1.90	1.70	1.60	1.48	2.00
12.	2.28	2.92	2.78	2.68	3.55	2.40	2.20	1.92	1.70	1.57	1.40	1.83
13.	2.22	6.42	2.72	3.15	3.63	2.40	2.20	1.95	1.65	1.50	1.40	1.80
14.	2.75	3.45	2.65	2.62	3.75	2.30	2.22	1.95	1.65	1.50	1.40	1.87
15.	2.65	2.95	4.42	3.22	3.48	2.30	2.20	1.85	1.65	1.50	1.40	1.57
16.	3.88	2.65	6.08	3.38	3.35	2.30	2.10	1.80	1.65	1.50	1.33	1.43
17.	2.88	3.05	4.75	3.22	3.28	2.37	2.10	1.80	1.63	1.50	1.30	1.40
18.	2.85	2.88	3.98	5.72	3.25	2.40	2.12	1.80	1.60	1.50	1.30	1.40
19.	2.85	2.38	2.38	5.09	3.15	2.40	2.15	1.83	1.60	1.50	1.30	1.40
20.	2.38	2.35	3.22	4.92	3.08	2.40	2.15	1.85	1.60	1.50	1.23	1.40
Mean.	2.71	3.15	3.70	3.65	3.42	2.37	2.16	1.87	1.64	1.52	1.35	1.61
21.	2.28	2.38	5.32	4.62	3.02	2.40	2.15	1.85	1.60	1.50	1.20	1.43
22.	2.18	3.12	5.25	3.88	2.95	2.30	2.10	2.57	1.60	1.50	1.27	1.70
23.	2.12	2.62	4.12	3.85	2.95	2.30	2.00	2.37	1.60	1.50	1.30	1.47
24.	2.05	2.92	3.45	3.82	2.92	2.30	2.00	2.37	1.60	1.50	1.47	1.40
25.	2.05	2.95	3.25	4.48	2.85	2.30	2.00	2.12	1.60	1.50	1.53	1.70
26.	2.05	3.02	3.25	5.72	2.82	2.30	2.00	2.05	1.60	1.50	1.73	1.47
27.	2.25	3.02	3.72	4.55	2.75	2.20	2.00	1.90	1.60	1.50	2.03	1.40
28.	2.08	3.28	3.38	8.85	2.75	2.20	2.00	1.93	1.58	1.50	1.50	1.57
29.	2.05		4.08	6.45	2.65	2.20	2.00	1.97	1.55	1.50	1.40	1.63
30.	2.32		5.55	6.12	2.65	2.20	2.17	1.80	1.55	1.50	1.40	1.60
31.	2.42		4.12		2.65		2.10	1.80		1.50		1.47
Mean.	2.17	2.91	4.13	5.23	2.81	2.27	2.05	2.07	1.59	1.50	1.48	1.53
Monthly Mean.	2.33	2.96	3.91	3.93	3.49	2.38	2.24	1.95	1.66	1.54	1.43	1.56
Max.	4.65	8.35	7.25	9.55	5.35	2.65	4.00	2.70	1.80	1.90	2.30	2.20
Date.	16	13	8	27	7	3	3	22	4	9	27	11
Min.	1.95	2.35	2.55	2.45	2.65	2.20	2.00	1.80	1.55	1.40	1.20	1.40
Date.	4	21	6	15	31	30	29	31	30	31	21	27





RIVER : NGETA  
 STATION : NGHOMBE MISSION  
 STATION NO: IKB.15  
 YEAR : 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.64	1.40	1.64	11.87	10.47	2.84	2.30	1.98	1.74	1.62	1.46	1.77
2.	2.13	1.44	1.81	14.63	18.00	2.74	2.24	1.87	1.74	1.65	1.45	1.53
3.	1.74	1.44	1.77	5.56	15.70	2.89	2.37	1.84	1.74	1.66	1.42	1.54
4.	1.68	1.50	1.66	4.67	9.27	2.73	2.25	1.84	1.76	1.64	1.42	1.53
5.	1.60	1.54	2.02	4.26	7.03	3.14	2.33	1.75	1.76	1.64	1.42	1.56
6.	1.78	1.70	2.01	3.47	5.70	3.16	2.22	1.86	1.72	1.64	1.42	1.55
7.	1.90	1.54	2.01	3.25	6.63	2.95	2.15	1.96	1.72	1.64	1.42	1.55
8.	1.60	1.55	2.02	2.76	6.30	2.65	2.17	1.84	1.72	1.66	1.42	1.54
9.	1.50	1.80	1.85	2.04	6.07	2.74	2.16	1.86	1.72	1.68	1.42	1.54
10.	1.50	1.60	1.84	2.84	5.33	2.66	2.11	1.85	1.76	1.66	1.42	1.51
Mean.	1.71	1.55	1.86	5.54	9.05	2.85	2.23	1.87	1.74	1.65	1.43	1.56
11.	1.52	1.58	1.83	2.74	4.95	2.50	2.02	1.83	1.72	1.70	1.42	1.45
12.	1.54	1.54	2.07	2.83	4.69	2.50	2.02	1.86	1.67	1.64	1.42	1.43
13.	1.54	1.80	2.00	2.44	4.25	2.50	2.02	1.80	1.65	1.66	1.42	1.55
14.	1.40	2.98	2.21	2.24	4.14	2.50	2.02	1.81	1.66	1.54	1.42	1.55
15.	1.40	2.86	2.44	2.13	3.87	2.50	2.02	1.81	1.66	1.58	1.42	1.68
16.	1.48	1.94	1.91	3.12	3.82	2.41	2.02	1.85	1.68	1.55	1.42	1.64
17.	1.48	1.68	2.00	2.28	3.73	2.47	2.02	1.85	1.64	1.54	1.42	1.65
18.	1.48	1.88	2.44	2.73	3.45	2.37	2.13	1.85	1.66	1.54	1.48	1.65
19.	1.40	1.58	1.99	11.83	3.35	2.33	2.13	1.80	1.79	1.54	1.47	1.63
20.	1.40	1.79	1.93	6.16	3.46	2.42	2.06	1.83	1.77	1.54	1.51	1.63
Mean.	1.46	1.96	2.08	3.85	3.97	2.45	2.05	1.83	1.69	1.58	1.44	1.59
21.	1.40	1.78	2.05	7.10	3.60	2.31	2.09	1.84	1.78	1.54	1.47	1.64
22.	1.40	1.65	2.21	6.77	3.27	2.29	2.05	1.84	1.74	1.54	1.48	1.63
23.	1.45	1.81	2.13	13.30	3.21	2.42	2.10	1.84	1.71	1.54	1.48	1.64
24.	1.48	1.83	2.15	18.60	3.06	2.47	2.06	1.84	1.67	1.54	1.48	1.65
25.	1.54	1.92	2.07	10.37	3.15	2.42	2.05	1.85	1.66	1.54	1.44	1.98
26.	1.48	1.75	2.05	12.13	3.85	2.47	2.04	1.84	1.64	1.54	1.43	1.83
27.	1.69	1.73	3.47	13.03	3.44	2.37	2.06	1.83	1.64	1.54	1.44	4.50
28.	1.54	1.68	3.68	9.20	3.11	2.39	2.04	1.80	1.64	1.54	1.84	1.63
29.	1.48	-	2.99	9.50	2.93	2.32	2.02	1.78	1.64	1.54	1.79	1.63
30.	1.48	-	9.66	8.83	2.99	2.39	2.02	1.78	1.64	1.54	1.73	1.64
31.	1.44	-	9.43	-	2.83	-	2.02	1.74	-	1.52	-	1.65
Mean.	1.49	1.77	3.81	10.88	3.22	2.39	2.05	1.82	1.68	1.54	1.56	1.95
Monthly Mean.	1.55	1.76	2.62	6.76	5.34	2.56	2.11	1.84	1.70	1.59	1.48	1.71
Max.	2.20	2.98	10.30	19.30	18.10	3.26	2.48	2.02	1.79	1.70	1.88	5.14
Date.	2	14	30	24	2	5	3	1	19	11	28	27
Min.	1.40	1.40	1.60	2.02	2.72	2.24	2.02	1.72	1.64	1.52	1.42	1.42
Date.	22	1	4	9	31	22	31	28	30	31	17	12

RIVER: MGEFA  
 STATION: MCHOMBE MISSION  
 STATION NO: LKB.15  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.63	1.54	1.83	4.35	3.47	2.23	1.94	1.76	1.63	1.45	1.34	1.76
2.	1.58	1.62	1.76	3.04	3.29	2.24	2.03	1.73	1.64	1.42	1.33	1.66
3.	1.54	1.67	1.75	2.33	3.22	2.23	2.03	1.74	1.62	1.44	1.34	1.73
4.	1.53	1.71	1.77	2.22	3.17	2.24	2.03	1.75	1.64	1.44	1.34	1.67
5.	1.54	1.73	1.76	2.14	3.00	2.24	1.95	1.75	1.62	1.43	1.36	2.09
6.	1.53	1.67	1.75	2.07	2.93	2.23	1.94	1.73	1.63	1.43	1.34	1.86
7.	1.54	1.62	2.11	2.03	2.89	2.13	1.93	1.74	1.60	1.43	1.35	1.76
8.	1.53	1.66	2.12	2.08	2.84	2.15	1.95	1.75	1.58	1.52	1.39	1.63
9.	1.87	1.65	2.09	1.96	2.82	2.13	1.95	1.73	1.56	1.54	1.37	1.56
10.	1.68	1.75	2.17	1.92	3.03	2.13	1.93	1.68	1.55	1.53	1.34	1.70
Mean.	1.60	1.66	1.91	2.41	3.07	2.20	1.97	1.74	1.61	1.46	1.35	1.74
11.	1.97	1.65	2.03	3.25	2.73	2.29	1.92	1.73	1.53	1.56	1.38	2.01
12.	1.73	1.63	2.04	2.95	2.93	2.25	1.95	1.73	1.53	1.54	1.36	2.11
13.	1.65	1.63	2.19	2.32	3.37	2.19	1.91	1.72	1.54	1.53	1.34	2.77
14.	1.65	1.63	2.05	2.36	3.31	2.15	1.88	1.68	1.53	1.54	1.37	2.06
15.	1.62	1.63	2.57	2.55	2.75	2.14	1.83	1.68	1.54	1.53	1.35	2.53
16.	1.71	1.63	2.45	2.45	2.73	2.13	1.76	1.68	1.54	1.56	1.35	1.83
17.	1.70	1.79	4.64	2.37	2.63	2.03	1.74	1.68	1.52	1.54	1.34	1.59
18.	1.85	1.65	4.39	2.29	2.55	2.04	1.74	1.63	1.53	1.54	1.38	1.65
19.	1.87	2.06	2.15	3.39	2.53	2.03	1.74	1.64	1.53	1.46	1.35	1.79
20.	1.86	1.91	2.11	2.95	2.55	2.05	1.75	1.62	1.52	1.43	1.36	1.70
Mean.	1.76	1.72	2.66	2.69	2.81	2.13	1.82	1.68	1.53	1.52	1.36	2.00
21.	1.86	1.78	2.05	2.55	2.53	2.04	1.75	1.64	1.52	1.43	1.43	1.75
22.	1.68	1.79	2.06	3.43	2.46	2.03	1.67	1.78	1.51	1.43	1.45	1.63
23.	1.64	1.75	1.97	2.73	2.43	2.03	1.64	1.77	1.49	1.45	1.44	1.63
24.	1.54	1.85	2.03	3.06	2.42	2.04	1.66	1.77	1.49	1.43	1.97	1.63
25.	1.54	1.78	1.94	4.59	2.38	1.93	1.73	1.70	1.48	1.36	2.25	1.63
26.	1.55	1.88	1.93	5.83	2.33	1.95	1.73	1.66	1.46	1.35	2.30	1.56
27.	1.55	1.93	1.93	7.40	2.23	1.93	1.75	1.66	1.46	1.34	2.08	1.54
28.	1.54	1.84	1.93	10.43	2.25	1.95	1.76	1.63	1.45	1.34	1.95	1.63
29.	1.97		1.94	4.37	2.25	1.94	1.86	1.63	1.46	1.36	1.94	1.55
30.	1.82		1.94	4.03	2.23	1.94	1.76	1.63	1.45	1.35	1.96	1.53
31.	1.59		4.44		2.25		1.73	1.62		1.35		1.55
Mean.	1.66	1.85	2.24	4.84	2.34	1.98	1.73	1.68	1.48	1.38	1.88	1.60
Monthly Mean.	1.67	1.73	1.25	3.31	2.73	2.10	1.84	1.70	1.54	1.45	1.53	1.78
Max.	1.98	2.12	4.72	10.70	3.58	2.58	2.04	1.78	1.64	1.56	2.38	2.86
Date.	29	19	17	28	14	11	4	24	6	18	26	13
Min.	1.52	1.54	1.74	1.92	2.22	1.92	1.62	1.62	1.44	1.34	1.32	1.52
Date.	8	7	6	10	30	30	23	31	30	31	2	30



RIVER: FURUA  
STATION: MALINYI  
STATION NO: IKB.16  
YEAR: 1958.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	3.67	1.80	2.43	6.10	5.87	3.00	2.63	2.20	1.90	1.60	1.50	1.40
2.	2.90	1.70	3.43	8.53	8.07	3.00	2.60	2.20	1.90	1.60	1.60	1.40
3.	2.50	1.70	2.53	6.90	6.20	2.90	2.60	2.20	1.90	1.60	1.70	1.40
4.	2.30	2.03	2.33	6.00	5.23	2.97	2.60	2.20	1.90	1.60	1.60	1.97
5.	2.23	2.03	2.63	5.30	5.03	3.00	2.60	2.13	1.90	1.60	1.50	1.77
6.	2.23	2.40	2.97	4.97	4.80	3.03	2.57	2.10	1.90	1.60	1.50	1.60
7.	2.23	2.23	5.03	4.50	4.57	3.07	2.50	2.10	1.90	1.60	1.50	1.50
8.	2.33	2.00	4.13	4.20	4.40	2.90	2.50	2.10	1.80	1.60	1.50	1.50
9.	2.23	1.90	4.17	4.27	4.27	2.87	2.50	2.10	1.80	1.60	1.50	1.40
10.	2.23	2.47	3.43	4.20	4.10	2.90	2.50	2.10	1.80	1.60	1.50	1.40
Mean.	2.49	2.03	3.31	5.50	5.25	2.96	2.56	2.14	1.87	1.60	1.54	1.53
11.	2.10	2.43	5.60	4.13	3.93	2.87	2.50	2.10	1.80	1.60	1.40	1.40
12.	2.00	2.27	3.97	3.93	3.90	2.90	2.50	2.10	1.80	1.60	1.40	1.43
13.	1.90	2.37	3.57	3.63	3.87	2.80	2.50	2.10	1.80	1.60	1.40	2.03
14.	1.80	4.93	3.50	3.70	3.77	2.80	2.40	2.10	1.80	1.60	1.40	1.60
15.	1.80	3.87	3.20	3.47	3.70	2.80	2.40	2.00	1.80	1.60	1.40	1.50
16.	1.80	3.23	4.77	3.47	3.60	2.80	2.40	2.00	1.80	1.50	1.40	1.53
17.	1.80	3.50	4.43	3.67	3.60	2.80	2.30	2.00	1.80	1.50	1.40	1.53
18.	1.70	3.20	4.07	3.87	3.53	2.80	2.37	2.00	1.80	1.50	1.40	2.63
19.	1.70	2.83	3.43	4.67	3.50	2.73	2.40	1.90	1.80	1.50	1.40	2.63
20.	1.70	4.07	3.87	4.57	3.50	2.73	2.30	2.00	1.80	1.50	1.40	5.63
Mean.	1.83	3.27	4.04	3.91	3.69	2.80	2.41	2.03	1.80	1.55	1.40	2.19
21.	1.60	3.50	8.40	3.80	3.53	2.73	2.30	2.00	1.80	1.50	1.40	4.40
22.	1.60	3.70	6.23	3.97	3.40	2.70	2.30	2.00	1.80	1.50	1.40	3.30
23.	1.60	2.97	5.03	4.67	3.30	2.60	2.20	1.93	1.80	1.50	1.43	3.37
24.	1.70	2.67	4.57	8.23	3.30	2.60	2.20	1.90	1.70	1.50	1.40	6.63
25.	2.67	2.87	4.43	6.47	3.20	2.60	2.20	1.93	1.70	1.50	1.40	3.90
26.	2.27	2.97	4.20	5.37	3.20	2.60	2.20	2.00	1.70	1.50	1.40	4.07
27.	2.10	2.53	5.27	4.93	3.20	2.67	2.20	2.00	1.70	1.50	1.40	3.70
28.	2.80	2.63	4.93	5.43	3.13	2.70	2.20	2.00	1.70	1.50	1.40	3.53
29.	2.17		4.57	5.47	3.10	2.70	2.20	1.90	1.70	1.50	1.43	2.77
30.	2.03		5.70	8.83	3.10	2.70	2.20	1.90	1.70	1.50	1.40	2.20
31.	1.90		8.33		3.10		2.20	1.90		1.50		2.20
Mean.	2.04	2.98	5.61	5.72	3.23	2.66	2.22	1.95	1.73	1.50	1.41	3.64
Monthly Mean.	2.12	2.74	4.36	5.04	4.03	2.81	2.39	2.04	1.80	1.55	1.45	2.49
Max.	4.50	5.80	11.20	10.70	9.60	3.10	2.70	2.20	1.90	1.60	1.70	9.40
Date.	1	14	21	30	2	7	1	5	7	15	3	24
Min.	1.60	1.70	2.30	3.40	3.00	2.60	2.20	1.90	1.70	1.50	1.40	1.40
Date.	23	4	4	16	31	27	31	31	30	31	30	12

RIVER: FURUA  
 STATION: MALINYI  
 STATION NO: LKB.16  
 YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	1.80	3.50	3.43	3.50	3.57	2.30	2.00	1.70	1.60	1.40		
2.	1.93	2.87	5.53	3.40	3.30	2.20	2.00	1.70	1.60	1.40		
3.	1.80	3.07	4.43	3.17	3.53	2.20	2.00	1.80	1.60	1.40		
4.	1.57	3.03	3.53	3.00	3.43	2.20	2.03	1.80	1.60	1.40		
5.	1.90	2.93	4.47	2.80	3.10	2.20	2.00	1.80	1.60	1.40		
6.	1.93	2.33	3.80	2.83	3.03	2.20	2.00	1.80	1.50	1.40		
7.	1.80	2.30	3.03	2.93	3.13	2.20	2.00	1.80	1.50	1.40		
8.	1.70	3.90	4.93	2.70	3.00	2.20	2.00	1.70	1.50	1.40		
9.	1.87	2.80	3.73	2.60	2.90	2.20	2.00	1.70	1.50	1.43		
10.	1.77	3.00	4.73	2.50	2.83	2.20	2.00	1.80	1.50	1.50		
Mean.	1.81	2.97	4.16	2.94	3.18	2.21	2.00	1.76	1.55	1.41		
11.	1.80	2.50	3.20	3.13	2.80	2.20	1.97	1.70	1.50	1.50		
12.	4.03	4.33	2.73	3.17	2.70	2.20	1.90	1.70	1.50	1.50		
13.	2.90	3.20	3.20	2.80	2.77	2.20	1.90	1.70	1.50	1.40		
14.	4.37	2.53	3.30	3.10	2.83	2.10	1.90	1.70	1.50	1.40		
15.	5.50	2.60	3.33	3.23	2.73	2.10	1.90	1.70	1.50	1.40		
16.	8.37	3.42	4.03	3.00	2.70	2.10	1.90	1.70	1.50	1.40		
17.	4.63	3.83	3.13	2.53	2.70	2.10	1.90	1.70	1.50	1.40		
18.	4.20	2.93	3.03	2.63	2.60	2.20	1.90	1.70	1.50	1.40		
19.	3.03	2.67	2.97	2.63	2.57	2.20	1.80	1.70	1.50	1.30		
20.	3.10	2.53	4.27	2.87	2.53	2.20	1.80	1.60	1.50	1.30		
Mean.	4.19	3.05	3.32	2.91	2.69	2.16	1.89	1.69	1.50	1.40		
21.	2.77	2.30	5.00	3.10	2.50	2.20	1.83	1.60	1.50	1.30		
22.	2.40	3.83	4.17	3.33	2.50	2.10	1.83	1.60	1.50	1.30		
23.	2.17	2.93	4.03	2.90	2.50	2.10	1.80	1.60	1.50	1.30		
24.	1.93	4.63	3.23	3.57	2.40	2.10	1.80	1.60	1.50	1.30		
25.	2.00	3.80	3.23	3.13	2.50	2.10	1.80	1.60	1.40	1.30		
26.	3.03	3.07	3.60	3.20	2.43	2.00	1.80	1.60	1.40	1.30		
27.	2.80	3.10	3.97	4.03	2.40	2.00	1.80	1.60	1.40	1.40		
28.	2.50	4.43	4.27	5.43	2.40	2.00	1.80	1.60	1.40	1.30		
29.	2.93		3.47	4.40	2.40	2.00	1.73	1.60	1.40	1.30		
30.	3.10		6.37	4.37	2.37	2.00	1.70	1.60	1.40	1.40		
31.	3.03		3.77		2.30		1.70	1.60		1.40		
Mean.	2.61	3.26	4.10	3.75	2.43	2.06	1.78	1.60	1.44	1.33		
Monthly Mean.	2.86	3.16	3.87	3.20	2.76	2.14	1.89	1.68	1.50	1.38		
Max.	10.00	5.20	8.20	6.20	3.70	2.30	2.10	1.80	1.60	1.50		
Date.	16	28	30	28	4	1	4	10	5	12		
Min.	1.40	2.10	2.30	2.20	2.30	2.00	1.70	1.60	1.40	1.30		
Date.	5	6	12	17	31	30	31	31	30	29		



RIVER: KILOMBERO  
STATION: SWERO  
STATION NO: IKB.17  
YEAR: 1958

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.30	4.40	6.00	11.85	17.41	11.99	6.10	5.00	4.30	3.90	3.50	3.20
2.	4.50	4.40	6.00	12.70	17.64	11.66	5.97	5.00	4.30	3.90	3.50	3.20
3.	4.70	4.40	6.03	13.42	17.77	11.27	5.90	4.93	4.30	3.80	3.50	3.20
4.	4.80	4.50	6.10	13.55	17.74	10.91	5.80	4.90	4.30	3.80	3.40	3.20
5.	4.80	4.50	6.10	13.43	17.66	10.53	5.80	4.83	4.30	3.80	3.40	3.20
6.	4.90	4.50	6.20	13.26	17.51	10.17	5.70	4.80	4.30	3.80	3.40	3.20
7.	4.90	4.60	6.40	13.23	17.36	9.82	5.72	4.80	4.30	3.80	3.40	3.20
8.	4.90	4.60	6.50	13.20	17.09	9.47	5.70	4.80	4.30	3.80	3.40	3.20
9.	5.00	4.50	6.60	13.33	16.90	9.20	5.60	4.70	4.30	3.70	3.40	3.30
10.	5.00	4.50	6.70	13.43	16.70	8.76	5.60	4.70	4.20	3.70	3.40	3.30
Mean.	4.78	4.49	6.26	13.14	17.38	10.38	5.79	4.85	4.29	3.80	3.43	3.22
11.	5.00	4.50	6.80	13.62	16.45	8.60	5.60	4.70	4.20	3.70	3.40	3.30
12.	5.00	4.70	6.90	13.72	16.20	8.30	5.50	4.70	4.20	3.70	3.40	3.30
13.	5.10	4.80	7.00	13.72	15.85	8.00	5.50	4.60	4.20	3.70	3.40	3.30
14.	5.10	4.97	7.00	13.76	15.99	7.80	5.50	4.60	4.10	3.70	3.30	3.30
15.	5.20	5.10	7.10	13.73	15.35	7.70	5.40	4.60	4.10	3.70	3.30	3.30
16.	5.20	5.20	7.20	13.67	15.17	7.50	5.40	4.60	4.10	3.70	3.30	3.37
17.	5.20	5.30	7.30	13.64	14.94	7.30	5.40	4.60	4.10	3.70	3.30	3.40
18.	5.20	5.40	7.60	13.62	14.83	7.10	5.30	4.60	4.10	3.70	3.30	3.50
19.	5.20	5.50	7.65	13.37	14.74	6.90	5.30	4.60	4.00	3.70	3.30	3.60
20.	5.20	5.60	7.80	13.30	14.65	6.90	5.30	4.50	4.00	3.70	3.20	3.60
Mean.	5.14	5.11	7.24	13.62	15.38	7.61	5.42	4.61	4.11	3.70	3.32	3.40
21.	5.20	5.70	7.82	13.39	14.56	6.80	5.20	4.50	4.00	3.70	3.20	3.80
22.	5.20	5.80	8.00	13.50	14.49	6.70	5.20	4.50	4.00	3.60	3.20	3.90
23.	5.20	5.90	8.00	13.52	14.34	6.60	5.20	4.50	4.00	3.60	3.20	3.90
24.	5.20	6.00	8.10	13.67	14.13	6.60	5.20	4.50	4.00	3.60	3.20	3.90
25.	5.10	6.00	8.25	14.02	13.95	6.50	5.10	4.40	4.00	3.60	3.20	4.00
26.	4.93	6.00	8.42	14.41	13.76	6.50	5.10	4.40	4.00	3.60	3.20	4.00
27.	4.80	6.00	8.45	14.75	13.48	6.40	5.10	4.40	4.00	3.60	3.20	4.10
28.	4.60	6.00	8.87	15.28	13.20	6.30	5.10	4.40	3.97	3.60	3.20	4.20
29.	4.60		9.12	15.95	12.88	6.20	5.10	4.40	3.90	3.50	3.20	4.30
30.	4.50		10.48	16.97	12.63	6.15	5.00	4.37	3.90	3.50	3.20	4.40
31.	4.50		11.17		12.28		5.00	4.30		3.50		4.40
Mean.	4.89	5.93	8.79	14.55	13.61	6.48	5.12	4.42	3.98	3.58	3.20	4.08
Monthly Mean.	4.94	5.12	7.47	13.77	15.40	8.15	5.43	4.62	4.13	3.69	3.32	3.58
Max.	5.20	6.00	11.25	17.12	17.78	12.08	6.10	5.00	4.30	3.90	3.50	4.40
Date.	16	24	31	30	3	1	1	3	9	2	3	31
Min.	4.30	4.40	6.00	11.60	12.22	6.15	5.00	4.30	3.90	3.50	3.20	3.20
Date.	1	3	3,	1	31	30	31	31	30	31	30	8



RIVER: KILOMBERO  
STATION: SWERO  
STATION NO: LKB.17  
YEAR: 1959

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1.	4.50	5.40	5.90	8.60	9.73	6.90	4.55	4.00	3.78	3.35	3.10	3.60
2.	4.50	5.50	6.08	8.60	9.90	6.60	4.55	4.00	3.75	3.35	3.10	3.60
3.	4.60	5.60	6.27	8.60	10.00	6.35	4.55	4.00	3.75	3.30	3.10	3.60
4.	4.70	5.67	6.40	8.60	10.00	6.15	4.60	4.00	3.70	3.30	3.10	3.60
5.	4.70	5.80	6.60	8.50	9.90	5.92	4.57	4.00	3.70	3.30	3.10	3.60
6.	4.80	5.90	6.60	8.40	9.77	5.72	4.55	4.00	3.70	3.30	3.10	3.60
7.	4.80	5.90	6.80	8.40	9.60	5.55	4.55	4.00	3.68	3.25	3.05	3.60
8.	4.90	6.00	6.87	8.30	9.47	5.42	4.55	4.00	3.65	3.28	3.05	3.60
9.	4.90	6.00	7.00	8.30	9.40	5.33	4.55	3.95	3.65	3.32	3.05	3.60
10.	4.90	6.00	7.10	8.30	9.33	5.22	4.55	3.95	3.60	3.30	3.05	3.60
Mean.	4.73	5.78	6.56	8.46	9.71	5.92	4.56	3.99	3.70	3.31	3.08	3.60
11.	4.90	6.00	7.00	8.30	9.27	5.13	4.50	3.95	3.60	3.30	3.07	3.60
12.	4.80	6.00	7.00	8.30	9.20	5.05	4.45	3.95	3.58	3.33	3.10	3.60
13.	4.70	6.10	6.90	8.30	9.20	5.00	4.45	3.93	3.55	3.40	3.10	3.60
14.	4.70	6.10	6.90	8.28	9.13	4.98	4.40	3.90	3.55	3.45	3.10	3.70
15.	4.70	6.10	6.90	8.20	9.08	4.95	4.38	3.90	3.55	3.45	3.05	3.77
16.	4.70	6.20	6.80	8.20	8.95	4.88	4.35	3.90	3.50	3.45	3.05	3.83
17.	4.70	6.20	7.00	8.20	8.80	4.78	4.35	3.90	3.50	3.43	3.05	3.90
18.	4.80	6.17	7.10	8.20	8.80	4.75	4.33	3.90	3.50	3.40	3.00	4.00
19.	4.80	6.07	7.23	8.20	8.80	4.70	4.30	3.90	3.45	3.40	3.00	4.00
20.	4.80	6.00	7.43	8.37	8.65	4.70	4.25	3.90	3.45	3.33	2.90	4.10
Mean.	4.76	6.09	7.03	8.25	8.98	4.89	4.38	3.91	3.52	3.39	3.04	3.81
21.	4.80	6.00	7.67	8.40	8.58	4.65	4.20	3.88	3.43	3.30	2.88	4.10
22.	4.90	6.00	8.00	8.40	8.50	4.65	4.20	3.85	3.40	3.25	2.90	4.17
23.	4.90	5.90	8.30	8.40	8.40	4.60	4.20	3.85	3.40	3.20	2.90	4.20
24.	5.00	5.90	8.60	8.40	8.28	4.60	4.20	3.85	3.40	3.20	3.00	4.30
25.	5.00	5.80	8.70	8.50	8.18	4.60	4.15	3.85	3.40	3.15	3.00	4.30
26.	5.10	5.80	8.60	8.63	8.03	4.60	4.15	3.85	3.38	3.15	3.00	4.30
27.	5.10	5.80	8.50	8.80	7.92	4.60	4.10	3.85	3.35	3.15	3.10	4.30
28.	5.20	5.83	8.43	9.03	7.72	4.60	4.10	3.82	3.35	3.10	3.10	4.30
29.	5.30		8.33	9.23	7.52	4.55	4.05	3.80	3.35	3.10	3.30	4.27
30.	5.30		8.60	9.53	7.30	4.55	4.05	3.80	3.35	3.10	3.45	4.17
31.	5.36		8.60		7.10		4.05	3.80		3.10		4.07
Mean.	4.71	5.88	8.39	8.73	7.96	4.60	4.13	3.75	3.38	3.16	3.06	4.23
Monthly Mean.	4.58	7.35	7.36	8.48	8.85	5.14	4.35	3.91	3.53	3.28	3.06	3.89
Max.	5.40	6.20	8.70	9.60	10.00	6.95	4.60	4.00	3.80	3.45	3.45	4.30
Date.	31	17	25	30	4	1	4	8	1	17	30	29
Min.	4.50	5.40	5.90	8.20	7.10	4.55	4.05	3.80	3.35	3.10	3.05	3.60
Date.	2	1	1	19	21	30	31	31	31	31	11	13

RUFUJI RIVER AT STIEGLER'S GORGE  
STATION NO: 1K3

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

A smooth curve has been fitted to the available measurements by applying a series of differences.

No.	Date.	Observer	h	q obs.	q calc.	Deviation.	Deviation %
1.	21.11.56	G.S.Tasker	-1.50	5193	5400	- 207	- 4.0
2.	21.11.56	"	-1.50	4981	5400	- 419	- 8.4
3.	22.11.56	"	-1.60	5162	5100	+ 62	+ 1.2
4.	22.11.56	"	-1.60	5157	5100	+ 57	+ 1.1
5.	7.2.58	F. Tabelli	1.30	13600	13600	00	0.0
6.	8.2.58	M. Rajabu	1.675	15900	14700	+1200	+ 7.6
7.	10.4.58	"	15.725	65000	65000	00	0.0
8.	14.4.58	"	15.60	64300	64400	- 100	- 0.2
9.	20.4.58	"	19.95	90800	90100	+ 700	+ 0.8
10.	22.4.58	"	17.15	68400	72700	-4300	- 6.3
11.	22.4.58	"	17.10	68200	72400	-4200	- 6.2
12.	25.4.58	"	22.50	109800	109100	+ 700	+ 0.6
13.	25.4.58	"	23.20	109600	114900	-5300	- 4.8
14.	27.4.58	"	20.25	98200	92200	+7000	+ 7.1
15.	4.9.58	J. Otnes	-0.55	8310	8250	+ 60	+ 0.7

Current Meter Measurement taken after establishment of Discharge Rating Curve.

As these measurements divert from the previous, the "Stout" Method has been applied in runoff calculations.

16.	5.9.59	P. Horn	-0.52	5873	8340	-2467	- 29.6
17.	6.9.59	"	-0.55	5922	8250	-2328	- 28.2
18.	5.12.59	"	-1.165	5544	6400	- 865	- 13.5
19.	10.12.59	"	-0.37	6606	8760	-2154	-24.6

RUFJI RIVER AT STIEGLER'S GORGE  
 STATION NO: 1K3  
DISCHARGE IN HUNDRED CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
-2	43	41	39	37	35	33	31	29	27	25
-1	70	66	63	60	57	54	51	49	47	45
-0	98	95	92	89	87	84	81	78	75	72
0	98	100	103	106	109	112	115	118	121	124
1	127	130	133	136	139	142	145	148	151	154
2	157	160	163	166	169	172	175	178	181	184
3	187	190	193	196	199	202	205	208	211	214
4	218	221	224	227	230	233	236	239	242	245
5	249	252	255	258	261	265	268	271	274	277
6	281	284	287	290	293	297	300	303	306	309
7	313	316	319	323	326	329	333	336	339	342
8	346	349	352	356	359	362	366	369	372	375
9	379	382	385	389	392	396	399	403	406	409
10	413	416	420	423	427	430	434	437	441	444
11	448	452	456	459	463	467	470	474	478	482
12	485	489	493	497	501	505	509	513	517	521
13	525	529	533	538	542	546	551	555	559	563
14	568	573	578	582	587	592	596	601	605	610
15	614	619	624	629	634	639	644	649	654	659
16	664	669	675	680	686	691	696	702	707	713
17	718	724	730	736	742	747	753	759	765	770
18	776	782	788	794	800	807	813	819	825	831
19	838	845	851	858	864	871	878	884	891	897
20	904	911	918	925	932	939	947	954	961	968
21	975	983	991	998	1005	1013	1021	1028	1036	1043
22	1051	1059	1067	1075	1083	1091	1100	1108	1116	1124
23	1132	1141	1149	1158	1166	1175	1184	1192	1201	1209
24	1218	1227	1236	1245	1254	1263	1273	1282	1291	1300
25	1309	1319	1329	1338	1348	1358	1368	1377	1387	1397
26	1406	1416	1426	1437	1447	1457	1467	1478	1488	1498
27	1509	1520	1531	1542	1553	1564	1574	1585	1596	1607
28	1618	1629	1641	1652	1664	1675	1687	1698	1710	1721
29	1733	1745	1757	1769	1781	1793	1806	1818	1830	1842
30	1854	1867	1880	1893	1905	1918	1931	1944	1956	1969
31	1982	1995	2009	2022	2036	2049	2063	2076	2090	2103
32	2117	2131	2145	2159	2173	2187	2201	2216	2230	2244
33	2259	2273	2288	2303	2318	2333	2348	2363	2378	2393
34	2408	2423	2438	2453	2468	2483	2499	2515	2531	2547
35	2563	2579	2595	2611	2627	2643	2659	2675	2691	2708

RUFIJI RIVER AT STIEGLER'S GORGE  
 STATION NO: 1K3  
DISCHARGE IN HUNDRED ACRE FEET.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
-2	85	81	77	73	69	65	61	57	53	50
-1	139	131	125	119	113	107	101	97	93	89
-0	194	188	182	176	172	166	160	154	149	143
0	194	198	204	210	216	222	228	234	240	246
1	251	257	263	269	275	281	287	293	299	305
2	311	317	323	329	335	341	347	352	358	364
3	370	376	382	388	394	400	406	412	418	424
4	432	438	444	449	455	461	467	473	479	485
5	493	499	505	511	517	525	531	537	543	548
6	556	562	568	574	580	588	594	600	606	612
7	620	626	632	640	645	651	659	665	671	677
8	685	691	697	705	711	717	725	731	737	743
9	750	756	762	770	776	784	790	798	804	810
10	818	824	832	838	845	851	859	865	873	879
11	887	895	903	909	917	925	931	939	946	954
12	960	968	976	984	992	1000	1008	1016	1024	1032
13	1040	1047	1055	1065	1073	1081	1091	1099	1107	1115
14	1125	1135	1144	1152	1162	1172	1180	1190	1198	1208
15	1216	1226	1236	1245	1255	1265	1275	1285	1295	1305
16	1315	1325	1337	1346	1358	1368	1378	1390	1400	1412
17	1432	1434	1445	1457	1469	1479	1491	1503	1515	1525
18	1536	1548	1560	1572	1584	1598	1610	1622	1634	1645
19	1659	1673	1685	1699	1711	1725	1738	1750	1764	1776
20	1790	1804	1818	1832	1845	1859	1875	1889	1903	1917
21	1931	1946	1962	1976	1990	2006	2022	2035	2051	2065
22	2081	2097	2113	2129	2144	2160	2178	2194	2210	2226
23	2241	2259	2275	2293	2309	2327	2344	2360	2378	2394
24	2412	2429	2447	2465	2483	2501	2521	2538	2556	2574
25	2592	2612	2631	2649	2669	2689	2709	2726	2746	2766
26	2784	2804	2823	2845	2865	2885	2905	2926	2946	2966
27	2988	3010	3031	3053	3075	3097	3117	3138	3160	3182
28	3204	3225	3249	3271	3295	3317	3340	3362	3386	3408
29	3431	3455	3479	3503	3526	3550	3576	3600	3623	3647
30	3671	3697	3722	3748	3772	3798	3823	3849	3873	3899
31	3924	3950	3978	4004	4031	4057	4085	4110	4138	4164
32	4192	4219	4247	4275	4303	4330	4358	4388	4415	4443
33	4473	4501	4530	4560	4590	4619	4649	4679	4708	4738
34	4768	4798	4827	4857	4887	4916	4948	4980	5011	5043
35	5075	5106	5138	5170	5201	5233	5265	5297	5328	5362

YOVI RIVER AT MADIZINI ESTATE  
STATION NO. 1KA.1  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
3			24	25	26	26	27	28	29	30
4	31	32	33	34	35	36	37	38	40	42
5	44	45	47	49	51	53	56	58	60	63
6	66	69	72	76	79	83	87	91	96	101
7	107	113	118	124	130	137	144	151	158	165
8	172	188	196	204	212	221	230	239	248	257
9	267	277	287	297	307	318	329	340	351	362
10	374	386	398	410	422	435	448	461	474	487

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
3				50	51	52	54	56	57	59
4	61	63	65	67	70	72	74	77	80	83
5	86	89	93	97	101	106	110	114	119	125
6	131	137	143	150	157	163	171	181	189	200
7	212	224	234	246	257	271	285	299	313	327
8	341	372	388	404	420	438	455	473	491	509
9	529	548	568	588	608	630	651	673	695	717
10	741	764	788	812	836	861	887	913	939	964

Available Current Meter Measurements since 19.8.55 for the establishment of discharge rating curve and tables.

A smooth curve has been fitted to the available measurements by applying a series of differences.

No.	Date.	Observer	h	q obs	q calc.	Deviation.	Deviation %
1.	19.8.55	M. Savy	5.00	30	44	- 14	- 31.8
2.	21.12.55	J. Otnes	7.06	107	110	- 3	- 2.7
3.	21.12.55	B. Gemmell	6.52	83	84	- 1	- 1.2
4.	12.2.56	M. Savy	5.10	51	45	+ 6	+ 13.3
5.	12.2.56	"	5.00	47	44	+ 3	+ 6.8
6.	26.3.56	L. Louys	5.05	44	44	0	0.0
7.	29.3.56	"	6.25	66	74	- 8	- 10.8
8.	19.4.56	M. Savy	6.10	69	69	0	0.0
9.	14.7.56	"	5.48	44	52	- 3	- 5.8
10.	27.7.56	"	5.30	47	49	- 2	- 4.1
11.	27.7.56	"	5.30	47	49	- 2	- 4.1
12.	23.8.56	"	4.50	41	36	+ 5	+ 13.9
13.	8.9.56	"	4.00	40	31	+ 9	+ 22.5
14.	6.10.56	"	4.10	32	32	0	0.0
15.	19.1.57	B. Gemmell	4.25	45	34	+ 11	+ 29.0
16.	19.1.57	"	4.35	43	35	+ 8	+ 22.9
17.	4.2.57	M. Savy	4.40	44	35	+ 9	+ 25.7

NOTE: This was not a good station and current meter measurements have not been taken after 4.2.57. Water level readings continue only by the Farm management.

LITTLE RUAHA RIVER AT IRINGA  
STATION NO.LKA.2

Available Current Meter Measurements for the establishment of  
discharge rating curve and tables.

A smooth curve has been fitted to the measurements by applying  
a series of differences.

No.	Date.	Observer	h(m/s)	q obs.	q calc.	Deviation.	Deviation %
1.	18.12.54	E. Moyle	5.01	345	377	- 32	- 9.3
2.	30.12.54	"	5.00	324	376	- 52	- 16.1
3.	4.1.55	"	5.05	353	381	- 28	- 7.9
4.	4.1.55	M. Savy	4.50	315	321	- 6	- 1.9
5.	8.1.55	L. Louys	4.40	315	310	+ 5	+ 1.6
6.	26.1.55	E. Moyle	4.90	345	365	- 20	- 5.8
7.	31.1.55	"	6.40	606	547	+ 59	+ 9.7
8.	8.2.55	"	5.70	515	458	+ 57	+ 11.7
9.	29.2.55	"	11.10	1959	1832	+127	+ 6.5
10.	16.2.56	B. Gemmell	10.52	1340	1396	- 56	- 4.2
11.	8.3.56	E. Moyle	10.85	1650	1637	+ 17	+ 1.0
12.	23.3.56	"	10.50	1383	1392	- 9	- 0.6
13.	5.4.56	"	12.10	2794	2780	+ 14	+ 0.5
14.	16.8.56	J. McCaldin	5.70	451	458	- 7	- 1.5
15.	19.2.57	O. Tilrem	10.10	1157	1146	+ 9	+ 0.8
16.	20.2.57	"	10.00	1090	1092	- 2	- 0.2
17.	20.2.57	"	10.00	1094	1092	+ 2	+ 0.2
18.	3.3.57	"	8.10	777	783	- 6	- 0.8
19.	4.3.57	"	8.20	807	798	+ 9	+ 1.1
20.	20.3.57	"	8.45	708	835	-122	- 17.2
21.	15.4.57	"	13.10	3911	4032	-121	- 3.1
22.	18.4.57	"	13.35	4514	4397	+117	+ 2.6
23.	4.7.57	"	7.20	690	654	+ 36	+ 5.2
24.	4.7.57	"	7.20	715	654	+ 61	+ 8.5
25.	12.8.57	"	6.05	496	501	- 5	- 1.0
26.	12.8.57	"	6.05	500	501	- 1	- 0.2
27.	6.9.57	"	5.20	410	398	+ 12	+ 2.9
28.	1.11.57	"	3.80	245	250	- 5	- 2.0
29.	1.11.57	"	3.80	254	250	+ 4	+ 1.6
30.	28.11.57	H. Singh	0.18	0	0	0	0.0

Measurements taken after establishment of discharge rating curve.

31.	20.3.58	H. Singh	12.125	2343	2802	-459	- 16.4
32.	1.8.58	"	5.65	468	452	+ 16	+ 3.5
33.	1.8.58	"	5.65	478	452	+ 26	+ 5.7
34.	29.11.58	"	3.30	146.8	205	- 58.2	- 28.4
35.	29.11.58	"	3.30	141.6	205	- 63.4	- 30.0
36.	26.5.59	"	6.50	524.4	559	- 34.6	- 6.2
37.	10.11.59	"	3.95	187.6	265	- 67.4	- 25.4

RIVER LITTLE RUAHA AT IRINGA  
STATION NO: IKA.2  
DISCHARGE IN CUSECS

The Water Levels refer to the Mid-stream gauge  
(30ft. u/s from the Road Bridge)

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0			0	2	4	8	13	18	24	30
1	36	42	48	55	61	67	73	80	87	94
2	101	108	115	122	130	138	146	154	162	170
3	179	187	196	205	214	223	232	241	250	260
4	270	280	290	300	310	321	332	343	354	365
5	376	387	398	410	422	434	446	458	470	482
6	495	508	521	534	547	559	573	586	599	612
7	626	640	654	668	682	696	710	724	738	753
8	768	783	798	813	828	843	858	873	888	904
9	920	936	952	968	984	1000	1016	1032	1048	1064
10	1092	1146	1203	1263	1326	1392	1460	1529	1600	1674
11	1752	1832	1914	1999	2087	2177	2270	2366	2465	2567
12	2672	2780	2891	3005	3122	3242	3365	3492	3622	3755
13	3892	4032	4175	4322	4472	4627	4785	4946	5111	5279
14	5452	5628	5808	5992	6180	6372	6568	6766	6968	7174

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0			0	4	8	16	26	36	48	59
1	71	83	95	109	121	133	145	158	172	186
2	200	214	228	242	257	273	289	305	321	337
3	354	370	388	406	424	442	459	477	495	515
4	535	554	574	594	614	636	657	679	701	723
5	744	766	788	812	836	859	883	907	931	954
6	980	1006	1032	1057	1083	1107	1135	1160	1186	1212
7	1239	1267	1295	1323	1350	1378	1406	1434	1461	1491
8	1521	1550	1580	1610	1639	1669	1699	1729	1758	1790
9	1822	1853	1885	1917	1948	1980	2012	2043	2075	2107
10	2162	2269	2382	2501	2625	2756	2891	3027	3168	3315
11	3469	3627	3790	3958	4132	4310	4495	4685	4881	5083
12	5291	5504	5724	5950	6182	6419	6663	6914	7172	7435
13	7706	7983	8267	8558	8855	9161	9474	9793	10120	10452
14	10795	11143	11500	11864	12236	12617	13005	13397	13797	14205

GREAT RUAHA AT KIDATU  
STATION No. 1KA.3

Available Current Meter Measurements for the Establishment  
of Discharge Rating Curve and Tables.

No.	Date	Observer	h	q obs.	q Calc	Dev.	Dev. %
1	17.11.53	D.Mitchell-Baker	-	257	-		
2	21.11.54	Hoperood	1.30	397	395	+ 2	+ 0.5
3	30.12.54	J.Germeshuisen	1.65	565	498	+ 67	+ 13.5
4	11.12.55	J.Otnes	1.60	484	482	+ 2	+ 0.4
5	25. 6.56	G.A.Frederick	6.20	3700	3785	- 85	- 2.2
6	26. 6.56	M.Savy	6.10	3777	3664	+ 113	+ 3.1
7	3. 7.56	"	5.60	3173	3096	+ 77	+ 2.5
8	13. 7.56	"	4.90	2383	2409	- 26	- 1.1
9	29. 7.56	"	4.30	1961	1908	+ 53	+ 2.8
10	17. 8.56	"	3.70	1460	1476	- 16	- 1.1
11	24. 8.56	"	3.40	1340	1287	+ 53	+ 4.1
12	7. 9.56	"	3.00	1170	1064	+ 106	+ 10.0
13	19. 9.56	"	2.80	917	963	- 46	- 4.8
14	8. 1.57	B.P.Gemmell	4.10	2024	1756	+ 268	+ 15.3
15	2. 3.57	F.Tabelli	10.45	10768	11647	- 879	- 7.5
16	13. 3.57	"	9.52	8480	9429	- 949	- 10.1
17	7. 4.57	"	8.58	7770	7479	+ 291	+ 3.9
18	8. 4.57	C.Walker	8.45	7370	7234	+ 136	+ 1.9
19	9. 4.57	"	9.15	8320	8624	- 304	- 3.5
20	10. 4.57	"	9.02	8010	8353	- 343	- 4.1
21	11. 4.57	"	8.77	8000	7849	+ 151	+ 1.9
22	28. 6.57	Tabelli and Wilson	5.95	3605	3487	+ 118	+ 3.4
23	2. 8.57	F.Tabelli	4.36	2070	1955	+ 115	+ 5.9
24	4. 9.59	R.Kalito	2.30	878	736	+ 142	+ 19.3
25	22.11.59	Horn and Singh	1.18	397	364	+ 33	+ 9.1







GREAT RUAHA AT MBUYUNI  
STATION NO. IKA.4

Available Current Meter Measurements for the Establishment of  
stage discharge curve and tables.

A smooth curve has been fitted to the available measurements  
by a series of differences.

No.	Date.	Observer.	h.	q obs.	q. calc.	Deviation	Deviation %
1.	6.11.54	F. Duckworth	2.95	36	36	0	0
1a.	5.1.55	L. Louys	3.90	154	150	+ 4	+ 2.7
2.	6.1.55	"	3.90	152	150	+ 2	+ 1.3
3.	29.4.57	F. Tabelli	12.80	12496	12495	+ 1	0
4.	30.4.57	C. Walker	12.325	10920	11079	- 159	- 1.4
5.	1.5.57	"	12.02	10016	10230	- 214	- 2.1
6.	6.5.57	J.W. Rayner.	12.00	8956	10176	- 1220	- 12
7.	9.5.57	"	11.80	8712	9646.5	- 934.5	- 9.7
8.	10.5.57	"	11.675	8600	9325.3	- 725.3	- 7.8
9.	11.5.57	"	11.60	8580	9136.1	- 556.1	- 6.1
10.	14.5.57	"	11.40	8380	8644.3	- 264.3	- 3.1
11.	16.5.57	"	11.35	8208	8524.4	- 580.7	- 6.8
12.	29.6.57	F. Tabelli	7.40	2580	2186.6	+ 393.4	+ 18
13.	3.8.57	"	6.10	1162	1182.8	- 20.8	- 1.8
14.	7.8.57	J. Wilson	6.00	1150	1122.2	+ 27.8	+ 2.5
15.	24.8.57	B. Gemmel and J.W. Rayner.	5.50	920	850.9	+ 69.1	+ 8.1
16.	18.9.57	J.W. Rayner	4.95	502	502	0	0
17.	5.2.58	"	6.00	1113	1122.2	- 9.2	- 0.8
18.	9.4.58	F. Tabelli	12.35	10112	11151	- 1039	- 9.3
19.	28.6.58	M.H. Bhatt	6.70	1674	1594.0	+ 8.0	+ 5.0
20.	30.7.58	"	5.75	978	980.1	- 2.1	- 0.8
21.	5.11.58	"	4.14	247.4	202.5	+ 44.9	+ 2.2
22.	19.2.59	"	7.15	1836	1960.2	- 124.2	- 6.3
23.	19.2.59	"	7.10	2019	1917.0	+ 102	+ 5.3
24.	22.3.59	"	9.00	3770	4075.5	- 3055	- 7.5
25.	23.3.59	"	9.25	4570	4449	+ 121	+ 2.7
26.	23.3.59	"	9.15	4810	4298	+ 512	+ 11.9
27.	24.3.59	"	10.05	5636	5791	- 155	- 2.7
28.	24.3.59	"	10.00	5588	5699	- 111	- 1.9

GREAT RUAHA AT MBUYUNI  
STATION NO. IKA.4  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2.	5	7	9	11	13	15	18	22	27	33
3.	39	46	54	63	74	86	100	115	132	150
4.	170	192	216	244	275	309	346	387	431	478
5.	528	580	634	690	748	808	870	932	995	1058
6.	1121	1185	1249	1314	1380	1447	1518	1592	1669	1750
7.	1833	1918	2006	2096	2189	2284	2382	2483	2587	2694
8.	2805	2919	3035	3154	3276	3401	3530	3662	3797	3936
9.	4078	4223	4372	4525	4682	4842	5006	5173	5344	5519
10.	5699	5883	6070	6261	6456	6655	6859	7067	7279	7495
11.	7716	7941	8171	8405	8644	8888	9136	9389	9647	9910
12.	10177	10449	10726	11008	11296	11589	11887	12190	12498	12811
13.	13130	13454	13784	14119	14460	14806	15158	15515	15878	16247
14.	16622	17003	17390	17782	18180	18584	18994	19411	19834	20263
15.	20698	21139	21587	22041	22502	22970	23444	23925	24412	24906
16.	25407	25915	26430	26952	27481	28017	28560	29110	29667	30232
17.	30804	31384	31971	32566	33168	33778	34396	35022	35655	36296

Discharge in Acre Feet per day.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2.	10	14	18	22	26	30	36	44	54	65
3.	77	91	107	125	146	170	198	228	261	297
4.	337	381	430	485	546	613	686	766	853	946
5.	1045	1148	1255	1366	1481	1600	1722	1845	1970	2095
6.	2220	2346	2473	2602	2733	2867	3007	3153	3305	3465
7.	3629	3798	3972	4151	4335	4523	4717	4917	5123	5335
8.	5554	5779	6009	6245	6487	6735	6989	7250	7518	7793
9.	8074	8362	8657	8960	9270	9587	9911	10242	10581	10928
10.	11283	11646	12017	12395	12781	13177	13581	13993	14413	14841
11.	15278	15724	16179	16643	17116	17598	18090	18591	19101	19621
12.	20150	20689	21237	21796	22366	22946	23536	24136	24746	25366
13.	25997	26639	27292	27956	28631	29317	30014	30722	31441	32171
14.	32913	33666	34431	35208	35996	36796	37608	38433	39270	40120
15.	40982	41856	42742	43641	44554	45480	46419	47371	48336	49314
16.	50306	51312	52332	53365	54412	55473	56548	57637	58741	59859
17.	60992	62140	63303	64481	65674	66882	68105	69344	70598	71867

GREAT RUAHA AT MTERA  
STATION NO. IKA.5

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

The following formulae have been fitted to the measurements:-

$$\begin{aligned} \text{for } h < 4.9 & \quad q = 93.15 (h - 1.4)^{1.8} \\ \text{for } h > 4.9 & \quad q = 35.33 (h - 0.7)^{2.263} \end{aligned}$$

Where h is observed water level in feet on the Automatic Recorder and q is discharge on cusecs.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation	Deviation %
1.	15.2.56	J. Otnes	13.75	11840	11823	+ 17	+ 0.1
2.	27.3.56	B. Gemmell	12.4	9546	9234	+222	+ 2.4
3.	28.3.56	B. Gemmell	12.2	9188	8881	+307	+ 3.5
4.	28.3.56	"	12.2	8820	8881	- 61	- 0.7
5.	29.3.56	"	12.1	9100	8707	+393	+ 4.5
6.	30.3.56	"	12.2	8660	8881	-221	- 2.5
7.	12.4.56	"	14.9	14032	14313	-281	- 2.0
8.	19.4.56	"	12.5	9368	9414	- 46	- 0.5
9.	20.4.56	"	12.5	9240	9414	-174	- 1.8
10.	21.4.56	"	12.5	9288	9414	-126	- 1.3
11.	2.5.56	"	11.8	8040	8197	-157	- 1.9
12.	3.5.56	"	11.7	7772	8031	-259	- 3.2
13.	11.5.56	"	10.7	6356	6473	-117	- 1.8
14.	23.5.56	J. McCaldin	9.3	4790	4601	+189	+ 4.1
15.	24.5.56	B. Gemmell	9.2	4492	4482	+ 10	+ 0.2
16.	7.6.56	J. McCaldin	7.9	3356	3078	+278	+ 9.0
17.	11.6.56	"	7.6	3028	2795	+233	+ 8.3
18.	30.7.56	P. Horn	4.9	909	909	0	0.0
19.	29.8.56	J. McCaldin	4.05	515	538	- 23	- 4.3
20.	25.9.56	"	3.35	336	310	+ 26	+ 8.4
21.	23.10.56	"	3.0	212	217	- 5	- 2.3
22.	5.1.57	O. Tilrem	1.4	0	0		
23.	22.2.57	"	12.5	9370	9414	- 44	- 0.5
24.	27.2.57	"	12.6	9830	9595	+235	+ 2.4
25.	24.4.57	"	20.72	31128	31140	- 12	0.0
26.	25.4.57	"	19.53	26304	27107	-803	- 3.0
27.	26.4.57	"	17.25	20208	20241	- 33	- 0.2

Measurements under 5.4 taken after this date are lying on a new curve.  
This curve is valid from 15th February 1958.

28.	15.8.58	H. Singh	4.62	644	646	- 2	- 0.4
29.	15.8.58	"	4.62	648	646	+ 2	+ 0.4
30.	28.10.58	"	3.60	176	180	- 4	- 2.2
31.	28.10.58	"	3.60	183	180	+ 3	+ 1.7
32.	3.12.58	"	3.25	88	88	0	0.0
33.	3.12.58	"	3.25	88	88	0	0.0
34.	11.2.59	O. Tilrem	6.48	1824	1872	- 48	- 2.6
35.	11.2.59	"	6.48	1770	1872	-102	- 5.4

GREAT RUAHA AT MTERA  
STATION NO. IKA. 5  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.								13	21	29
2.	37	49	62	77	93	111	129	149	171	193
3.	217	242	268	296	324	354	385	417	450	485
4.	520	557	595	633	673	714	756	799	843	909
5.	959	1008	1063	1117	1172	1229	1288	1349	1410	1473
6.	1539	1605	1673	1743	1814	1887	1962	2038	2114	2195
7.	2275	2358	2442	2527	2616	2704	2795	2888	2983	3077
8.	3175	3274	3377	3478	3583	3689	3796	3906	4018	4130
9.	4246	4363	4481	4601	4723	4848	4973	5099	5228	5360
10.	5493	5627	5764	5902	6042	6184	6327	6473	6620	6770
11.	6921	7074	7230	7387	7545	7704	7865	8031	8197	8365
12.	8535	8707	8881	9057	9234	9414	9595	9778	9963	10150
13.	10340	10532	10725	10920	11118	11316	11518	11721	11926	12133
14.	12341	12553	12766	12981	13198	13417	13638	13861	14086	14312
15.	14542	14773	15006	15242	15479	15718	15960	16203	16448	16696
16.	16946	17197	17451	17707	17965	18225	18487	18751	19017	19286
17.	19556	19828	20103	20380	20659	20940	21223	21507	21796	22085
18.	22377	22671	22967	23265	23565	23867	24172	24478	24787	25098
19.	25411	25727	26044	26364	26686	27010	27336	27664	27995	28328
20.	28663	29000	29339	29681	30035	30371	30719	31069	31422	31777
21.	32134	32493	32855	33219	33585	33953	34323	34696	35071	35448
22.	35828	36210	36594	36980	37369	37760	38153	38548	38946	39346
23.	39748	40152	40559	40968	41380	41793	42209	42628	43048	43471
24.	43896	44324	44753	45185	45620	46057	46496	46937	47381	47827

NOTE: This table is valid until 1st August when work of repairing commenced on the bridge.

After the work was completed it was found that the lower part of the stage discharge curve had changed and a new curve is established and applied in discharge calculations from 15th February 1958.

GREAT RUAHA RIVER AT MTERA  
 STATION NO: 1KA.5  
DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.								26	42	58
2.	74	97	123	153	185	220	255	295	337	382
3.	430	479	531	586	642	683	762	826	891	960
4.	1030	1103	1178	1253	1333	1414	1497	1582	1669	1800
5.	1899	1996	2105	2212	2321	2433	2550	2671	2792	2917
6.	3047	3178	3313	3451	3592	3736	3885	4035	4186	4346
7.	4505	4669	4835	5003	5180	5354	5534	5718	5906	6092
8.	6287	6483	6686	6886	7094	7304	7516	7734	7956	8177
9.	8407	8639	8872	9110	9352	9599	9847	10096	10351	10613
10.	10876	11141	11413	11686	11963	12244	12527	12817	13108	13405
11.	13704	14007	14315	14626	14939	15254	15573	15899	16228	16563
12.	16899	17240	17584	17933	18283	18640	18998	19360	19727	20097
13.	20473	20853	21236	21622	22014	22406	22806	23208	23613	24023
14.	24435	24855	25277	25702	26132	26566	27003	27445	27890	28338
15.	28793	29251	29712	30179	30648	31122	31601	32082	32567	33058
16.	33553	34050	34553	35060	35571	36086	36604	37127	37654	38186
17.	38721	39259	39804	40352	40905	41461	42022	42584	43156	43728
18.	44306	44889	45475	46065	46659	47257	47861	48466	49078	49694
19.	50314	50939	51567	52201	52838	53480	54125	54775	55430	56089
20.	56753	57420	58091	58768	59469	60135	60824	61517	62216	62918
21.	63625	64336	65053	65774	66498	67227	67960	68690	69441	70187
22.	70939	71696	72456	73220	73991	74765	75543	76325	77113	77905
23.	78701	79501	80307	81117	81932	82750	83574	84403	85235	86073
24.	86914	87762	88611	89466	90328	91193	92062	92935	93814	94697
25.	95586									

NOTE: This table is valid until 1st August, 1957.

GREAT RUAHA AT MTERA  
 STATION NO. IKA. 5  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
3.	36	55	76	99	124	151	180	211	246	284
4.	325	369	416	466	519	575	634	695	758	823
5.	890	959	1029	1100	1172	1229	1288	1349	1410	1473
6.	1539	1605	1673	1743	1814	1887	1962	2038	2114	2195
7.	2275	2358	2442	2527	2616	2704	2795	2888	2983	3077
8.	3175	3274	3377	3478	3583	3689	3796	3906	4018	4130
9.	4246	4363	4481	4601	4723	4848	4973	5099	5228	5360
10.	5493	5627	5764	5902	6042	6184	6327	6473	6620	6770
11.	6921	7074	7230	7387	7545	7704	7865	8031	8197	8365
12.	8535	8707	8881	9057	9234	9414	9595	9778	9963	10150
13.	10340	10532	10725	10920	11118	11316	11518	11721	11926	12133
14.	12341	12553	12766	12981	13198	13417	13638	13861	14086	14312
15.	14542	14773	15006	15242	15479	15718	15960	16203	16448	16696
16.	16946	17197	17451	17707	17965	18225	18487	18751	19017	19286
17.	19556	19828	20103	20380	20659	20940	21223	21507	21796	22085
18.	22377	22671	22967	23265	23365	23867	24172	24478	24787	25098
19.	25411	25727	26044	26364	26686	27010	27336	27664	27995	28328
20.	28663	29000	29339	29681	30035	30371	30719	31069	31422	31777
21.	32134	32493	32855	33219	33585	33953	34323	34696	35071	35448
22.	35828	36210	36594	36980	37369	37760	38153	38548	38946	39346
23.	39748	40152	40559	40968	41380	41793	42209	42628	43048	43471
24.	43896	44324	44753	45185	45620	46057	46496	46937	47381	47827

NOTE: This table is valid after 15th February 1958.

Discharges for water levels under 5.4 only differ from the old table



GREAT RUAHA AT MTERA  
 STATION IKA.5  
DISCHARGE IN ACRE FEET PER DAY

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
3.	71	109	150	196	246	299	356	418	487	562
4.	644	731	824	923	1028	1139	1255	1376	1500	1630
5.	1762	1899	2037	2178	2321	2433	2550	2671	2792	2917
6.	3047	3178	3313	3451	3592	3736	3885	4035	4186	4346
7.	4505	4669	4835	5003	5180	5354	5534	5718	5906	6092
8.	6287	6483	6686	6886	7094	7304	7516	7734	7956	8177
9.	8407	8639	8872	9110	9352	9599	9847	10096	10351	10613
10.	10876	11141	11413	11686	11963	12244	12527	12817	13108	13405
11.	13704	14007	14315	14626	14939	15254	15573	15899	16228	16563
12.	16899	17240	17584	17933	18283	18640	18998	19360	19727	20097
13.	20473	20853	21236	21622	22014	22406	22806	23208	23613	24023
14.	24435	24855	25277	25702	26132	26566	27003	27445	27890	28338
15.	28793	29251	29712	30179	30648	31122	31601	32082	32567	33058
16.	33553	34050	34553	35060	35571	36086	36604	37127	37654	38186
17.	38721	39259	39804	40352	40905	41461	42022	42584	43156	43728
18.	44306	44889	45475	46065	46659	47257	47861	48466	49078	49694
19.	50314	50939	51567	52201	52838	53480	54125	54775	55430	56089
20.	56753	57420	58091	58768	59469	60135	60824	61517	62216	62918
21.	63625	64336	65053	65774	66498	67227	67960	68690	69441	70187
22.	70939	71696	72456	73220	73991	74765	75543	76325	77113	77905
23.	78701	79501	80307	81117	81932	82750	83574	84403	85235	86073
24.	86914	87762	88611	89466	90328	91193	92062	92935	93814	94697

NOTE: This table is valid after 15th February 1958.

CHIMALA RIVER AT CHIMALA  
STATION NO. 1KA.7

Available Current Meter Measurements

No permanent Discharge Rating Curves have been established at Chimala. Runoff have been calculated after the Stout Method.

No.	Date	Observer	W.L. U/S	W.L. D/S	Discharge in cusecs
1.	29.8.54	F. Duckworth	-	-	40
2.	1.9.54	J. Germehuisen	-	-	21.18
3.	14.1.55	L. Louys	-	0.22	47.07
4.	20.1.55	"	0.35	0.05	42
5.	5.9.55	P. Horn	0.35	-	25.5
6.	23.9.55	"	0.30	-	20.1
7.	9.10.55	J. Otnes	0.45	0.26	23.9
8.	3.12.55	P. Horn	-	0.15	24.5
9.	8.2.56	J. Otnes	2.12	-	402
10.	16.3.56	G. Tasker	1.25	0.80	126
11.	21.3.56	"	1.35	0.85	132
12.	24.3.56	"	1.30	0.85	142
13.	27.3.56	"	1.27	0.80	118
14.	29.3.56	"	1.30	0.85	134
15.	31.3.56	"	1.30	0.85	164
16.	3.4.56	"	1.65	1.12	214
17.	12.4.56	"	1.60	1.25	220
18.	14.4.56	"	1.50	1.15	172
19.	16.4.56	"	1.45	1.10	168
20.	16.4.56	"	1.45	1.10	184
21.	19.4.56	"	1.425	1.075	173
22.	27.4.56	"	1.70	1.40	255
23.	27.4.56	"	1.70	1.40	260
24.	5.5.56	"	1.75	1.35	274
25.	7.5.56	"	1.35	0.95	138
26.	31.5.56	"	1.05	0.70	95.3
27.	7.5.56	"	1.00	0.55	103
28.	18.6.56	C. Walker	0.81	-	80
29.	18.6.56	"	0.81	-	74.4
30.	18.6.56	Mussa	0.81	-	76.4
31.	9.8.56	A. Smythe	0.57	-	40.3
32.	21.8.56	"	0.51	-	34.4
33.	11.9.56	"	0.47	-	31.9
34.	22.9.56	"	0.40	-	26.2
35.	8.10.56	"	0.40	-	23.26
36.	20.11.56	P. Horn	0.32	-	21.295
37.	3.1.57	"	0.54	-	30.4
38.	31.5.57	D. Lewis		1.02	138.47
39.	7.2.57	"		1.52	381.6
40.	4.3.57	"		1.21	251.6

No.	Date.	Observer.	W.L. U/S	W.L. D/S	Discharge in cusecs
41.	13.4.57	B. Gemmell		1.975	552
42.	15.4.57	"		1.70	368.6
43.	1.5.57	"		1.45	267.6
44.	2.5.57	"		1.30	267.4
45.	3.5.57	"		1.25	213.8
46.	31.5.57	P. Horn	1.05	0.70	100
47.	5.7.57	W. Wainey	0.68		65.71
48.	31.7.57	P. Horn	0.59	0.26	38.18
49.	29.8.57	D. Ades	0.55		38
50.	14.9.57	"	0.40		26.3
51.	3.10.57	"	0.35		25.4
52.	24.10.57	"	0.35		27.4
53.	5.11.57	"	0.30		21.3
54.	25.11.57	"	0.29		20.3
55.	16.12.57	"	0.60		42.0
56.	30.12.57	"	0.60		53.9
57.	14.1.58	"	0.70		57.1
58.	25.1.58	Hartong van Ark	0.67		51.56
59.	28.1.58	D. Ades	0.68		52.8
60.	28.1.58	"	0.68		48.4
61.	22.3.58	"		1.60	442
62.	10.6.58	"	1.05		53
63.	27.6.58	"	0.80	0.35	44
64.	22.8.58	H. S. Majhail	0.70	0.20	29.42
65.	24.9.58	"	0.60	0.18	23
66.	17.10.58	"	0.50	0.10	18.58
67.	17.10.58	"	0.50	0.10	17.747
68.	17.11.58	"	0.40	0.075	15.4
69.	17.11.58	"	0.40	0.075	12.7
70.	25.11.58	"	0.90	0.325	47.1
71.	25.11.58	"	0.90	0.325	47.7
72.	4.12.58	"	1.00	0.40	48.2
73.	19.1.59	"	1.40	0.75	129
74.	10.4.59	G. Tasker		1.25	364.4
75.	18.4.59	"		1.00	194.6
76.	27.4.59	"		0.90	207.8
77.	7.5.59	"		0.75	177.4
78.	13.5.59	"		0.50	136.6
79.	23.5.59	"		0.25	98
80.	23.5.59	"		0.25	96.6
81.	30.5.59	"		0.10	93.1
82.	8.10.59	H. S. Majhail	1.80	Below 0	26.4
83.	8.10.59	"	1.80	"	30.5
84.	7.12.59	"	1.90	"	58.6
85.	7.1.60	"	1.875	"	54
86.	7.1.60	"	1.875	"	57.3

Gt. RUAHA AT GT. NORTH ROAD (CHIMALA)  
STATION NO. IKA.8

Available Current Meter Measurements for the Establishment of discharge rating curve and tables.

A smooth curve has been fitted to the measurements by applying a series of differences and in comparison with the new curve.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation %
1.	20.8.55	P. Horn	1.87	100.8	85.6	+ 15.2	+ 17.8
2.	23.9.55	"	1.75	71.6	71.9	- 0.3	- 0.4
3.	10.10.55	J. Otnes	1.67	63.0	63.2	- 0.2	- 0.3
4.	10.11.55	P. Horn	1.60	58.9	57.8	+ 1.1	+ 1.90
5.	8.2.56	J. Otnes	9.45	2154	2155	- 1.0	0.0
6.	27.2.56	G.S. Tasker	6.70	1264	1292	- 28	- 2.2
7.	2.3.56	"	6.38	1173	1196	- 23	- 1.9
8.	8.3.56	"	6.00	1118	1084	+ 34	+ 3.1
9.	16.3.56	"	5.50	930	939	- 9	- 1.0
10.	22.3.56	"	5.70	998	996	+ 2	+ 0.2
11.	28.3.56	"	4.90	766	768	- 2	- 0.3
12.	29.3.56	"	5.20	851	853	- 2	- 0.2
13.	4.4.56	"	9.725	2244	2243	+ 1	0.0
14.	13.4.56	"	5.60	972	967	+ 5	+ 0.5
15.	17.4.56	"	5.90	1077	1054	+ 23	+ 2.2
16.	17.4.56	"	5.88	1047	1049	- 2	- 0.2
17.	25.4.56	"	6.58	1293	1256	+ 37	+ 2.9
18.	25.4.56	"	6.48	1299	1226	+ 73	+ 6.0
19.	28.4.56	"	6.48	1310	1226	+ 84	+ 6.9
20.	15.5.56	"	4.30	613	603	+ 10	+ 1.7
21.	28.5.56	"	3.50	393	0	0	0.0
22.	5.6.56	"	3.10	277	292	- 15	- 5.1
23.	8.6.56	"	3.05	240	280	- 40	- 14.3
24.	19.6.56	G. Walker	2.75	254	218	+ 36	+ 16.5
25.	19.6.56	"	2.75	229	218	+ 11	+ 5.0

Repairing work commenced on the Road Bridge 21st June 1956.

Due to this work the rating conditions were disturbed until 25th January 1957. The discharge calculations for this period is done by frequent measurements in the river. After 25th January 1957 the measurements are forming a new curve.

GT. RUAHA AT GT. N. ROAD (CHIMALA)  
STATION NO. IKA.8

Available Current Meter Measurements after 25th January 1957

A smooth curve has been fitted to the measurements by applying  
a series of differences.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation
35.	8.2.57	D. Lewis	8.68	1654	1861	-207	- 11.1
36.	6.4.57	P. Horn	8.58	2004	1830	+174	+ 9.5
37.	11.5.57	B. Gemmell	4.75	632.4	665	- 32.6	- 4.9
38.	31.5.57	P. Horn	3.78	399.7	400.6	- 0.9	- 0.2
39.	5.7.57	W. Wainey	2.80	190.9	200	- 9.1	- 4.6
40.	30.7.57	P. Horn	2.52	134.2	148.6	- 14.4	- 9.7
41.	30.8.57	D. Ades	2.30	112.4	112.0	+ 0.4	+ 0.4
42.	14.9.57	"	2.20	91.7	97.0	- 5.3	- 5.5
43.	3.10.57	"	2.18	83.7	94.2	- 10.5	- 11.1
44.	7.11.57	"	2.05	77.5	76.5	+ 1.0	+ 1.3
45.	13.12.57	"	1.95	63.4	64.0	- 0.6	- 0.9
46.	16.12.57	"	2.70	202.1	181.0	+ 11.1	+ 6.1
47.	23.12.57	"	2.58	170.4	159.4	+ 11.0	+ 6.9
48.	30.12.57	"	2.80	231.1	200.0	+ 31.1	+ 15.6
49.	14.1.58	"	3.20	279.3	278	+ 1.3	+ 0.5
50.	24.1.58	"	2.98	234.4	234.2	+ 0.2	+ 0.1
51.	31.1.58	"	3.02	239.4	242	- 2.6	- 1.1
52.	31.1.58	"	3.02	254.8	242	+ 12.8	+ 5.3
53.	18.2.58	"	8.06	1654	1668	- 14.0	- 0.8
54.	18.2.58	H. van Ark	8.02	1645	1656	- 11.0	- 0.7
55.	28.2.58	D. Ades	4.60	640	620	+ 20.0	+ 3.2
56.	28.2.58	H. van Ark	4.55	622.5	605	+ 17.5	+ 2.9
57.	17.3.58	D. Ades	11.10	2776	2780	- 4.0	- 0.1
58.	17.3.58	"	10.65	2490	2522	- 32.0	- 1.3
59.	21.3.58	"	11.63	3310	3319	- 9.0	- 0.3
60.	21.3.58	"	11.40	3260	3050	+210	+ 6.9
61.	26.3.58	"	11.80	3420	3550	-130	- 3.7
62.	26.3.58	"	11.75	3340	3480	-140	- 3.9
63.	27.5.58	"	3.50	295	341.0	- 46	- 13.5
64.	27.5.58	"	3.50	298	341.0	- 43	- 12.6
65.	29.5.58	"	3.40	270	320.0	- 50	- 15.6

GT/RUAHA AT GT.N.ROAD (CHIMALA)  
STATION NO. IKA.8  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.	18.3	23.1	28.5	34.7	41.1	49.3	57.8	67.5	78.0	88.0
2.	99	112	126	141	156	172	190	208	228	248
3.	269	292	315	340	366	393	418	444	470	496
4.	522	549	576	603	630	657	685	712	740	768
5.	796	824	853	882	911	939	967	996	1025	1054
6.	1084	1113	1142	1172	1202	1232	1262	1292	1322	1352
7.	1382	1413	1443	1473	1504	1535	1566	1597	1628	1659
8.	1691.	1723	1755	1787	1819	1851	1883	1915	1947	1979
9.	2011	2043	2075	2107	2139	2171	2203	2235	2267	2299
10.	2330	2368	2406	2444	2482	2520	2560	2610	2670	2740
11.	2820	2910	3010	3120	3240	3370	3510	3660	3820	3990
12.	4170	4360	4560	4770	4990	5220	5460	5710	5970	6240

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.	36	46	56	69	82	98	115	134	154	174
2.	196	222	249	279	309	341	376	412	451	491
3.	533	578	624	673	724	776	827	879	931	982
4.	1034	1087	1140	1193	1247	1301	1354	1409	1465	1521
5.	1577	1633	1689	1745	1802	1859	1916	1973	2030	2087
6.	2146	2204	2262	2321	2380	2439	2498	2557	2616	2675
7.	2735	2796	2857	2917	2978	3039	3100	3161	3223	3285
8.	3348	3411	3474	3537	3600	3664	3728	3792	3855	3918
9.	3982	4045	4108	4172	4235	4299	4362	4425	4489	4552
10.	4615	4689	4764	4839	4914	4990	5069	5168	5287	5425
11.	5584	5762	5960	6178	6415	6673	6950	7247	7564	7900
12.	8256	8633	9029	9444	9880	10335	10811	11306	11820	12355

Note: These tables are valid until 21st June 1956 when repair work commenced on the Road Bridge.

GT/NORTH ROAD (CHIMALA)  
 STATION NO. IKA.8  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.				5	12	20	28	37	47	58
2.	70	83	97	112	128	145	163	181	200	219
3.	238	258	278	299	320	341	362	383	405	427
4.	450	475	502	530	560	590	620	650	680	710
5.	740	770	800	830	860	890	920	950	980	1010
6.	1040	1070	1100	1130	1160	1190	1220	1250	1280	1310
7.	1340	1371	1402	1433	1464	1495	1526	1557	1588	1619
8.	1650	1681	1712	1743	1774	1805	1836	1867	1898	1929
9.	1960	1991	2022	2053	2084	2115	2146	2177	2208	2259
10.	2270	2303	2338	2375	2414	2455	2499	2546	2596	2650
11.	2710	2780	2860	2950	3050	3160	3280	3410	3550	3700
12.	3860	4030	4210	4400	4600	4810	5030	5260	5500	5750
13.	6010.	6280	6560	6850	7150	7460				

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.				10	24	40	55	73	93	115
2.	139	164	192	222	253	287	323	358	396	434
3.	471	511	550	592	634	675	717	758	802	846
4.	891	941	994	1049	1109	1168	1228	1287	1346	1406
5.	1465	1525	1584	1643	1703	1762	1822	1881	1940	2000
6.	2059	2119	2178	2237	2297	2356	2416	2475	2534	2594
7.	2654	2715	2776	2837	2899	2960	3022	3083	3144	3206
8.	3267	3328	3390	3451	3513	3574	3635	3697	3758	3819
9.	3881	3942	4004	4065	4126	4188	4249	4311	4372	4433
10.	4495	4560	4629	4703	4780	4861	4948	5041	5140	5247
11.	5366	5504	5663	5841	6039	6257	6494	6752	7029	7326
12.	7643	7979	8336	8712	9108	9524	9959	10415	10890	11385
13.	11900	12434	12989	13563	14157	14771				

Note: This table is valid from 25th January 1957.

KIMANI AT GREAT NORTH ROAD  
STATION NO: IKA.9

Available Current Meter Measurements for the Establishment  
of the Discharge Rating Curve and Tables.

The Following formulas are fitted to the measurements :-

$$\begin{aligned} h < 3.5, & \quad q = 2.92 (h + 0.44)^{3.829} \\ h > 3.5, & \quad q = 365.8 (h - 2.1)^{1.252} \end{aligned}$$

Where h is observed water level in feet on the Automatic  
Recorder and q the discharge in cusecs.

No.	Date.	Observer.	h	q obs	q calc	Deviation	Deviation %
1	13.1.55	J. Germehuisen	1.80	60.9	64.0	- 3.1	- 5.0
2	20.8.55	P. Horn	1.50	34.4	36.9	- 2.5	- 6.8
3	22.9.55	"	1.37	30.9	28.3	+ 2.6	+ 9.2
4	10.11.55	"	1.18	21.8	18.5	+ 3.3	+ 15.1
5	12.9.55	J. Otnes	1.30	23.4	24.3	- 0.9	- 3.7
6	17.2.56	"	4.62	1168	1163	+ 5	+ 0.3
7	17.3.56	G. Tasker	3.56	492	587	- 95.	- 16.2
8	23.3.56	"	3.60	614	608	+ 6.	+ 1.
9	26.3.56	"	3.45	528	530	- 2.	- 0.4
10	28.3.56	"	3.55	583	583	0.0	0.0
11	30.3.56	"	4.27	965	965	0.0	0.0
12	5.4.56	"	5.05	1417	1417	0.0	0.0
13	11.4.56	"	3.70	636	659	- 23	- 3.5
14	18.4.56	"	3.35	469	480	- 11	- 2.5
15.	18.4.56	"	3.325	504	468	+ 36	+ 7.5
16	26.4.56	"	3.10	396	369	+ 27	+ 6.8
17	26.4.56	"	3.08	353	360	- 7	- 1.9
18	30.4.56	"	3.00	353	331	+ 22	+ 6.6
19	30.4.56	"	3.00	311	331	- 20	- 6.0
20	13.5.56	"	3.50	528	557	- 29	- 5.4
21	25.5.56	"	2.55	175	194	- 19	- 9.8
22	29.5.56	"	2.20	141	120	+ 21	+ 17.5
23	2.6.56	"	2.13	115	108	+ 7	+ 6.5
24	17.6.56	C. Walker	2.00	89.6	88.9	+ 0.7	+ 0.9
25	17.6.56	"	2.00	88.3	88.9	- 0.6	- 0.7
26	25.7.56	P. Horn	1.70	52.5	53.8	- 1.3	- 2.4
27	3.8.56	"	1.65	47.3	49.1	- 1.8	- 3.8



KIMANI AT GREAT NORTH ROAD (continued)

No.	Date.	Observer.	h	q obs	q calc	Deviation	Deviation %
28	21.8.56	A. Smythe	1.53	38	39	- 1	- 2.6
29	11.9.56	"	1.49	35	35	0	0.0
30	22.9.56	"	1.40	31	30	+ 1	+ 3.4
31	8.10.56	"	1.40	32	30	+ 2	+ 6.6
32	20.11.56	P. Horn	1.17	23	19	+ 4	+ 21.0
33	4.1.57	"	1.48	36	35	+ 1	+ 2.9
34	5.4.57	"	4.09	736	864	-128	- 14.8
35	3.5.57	B. Gemmell	3.27	452	444	+ 8	+ 1.8
36	1.6.57	P. Horn	2.45	138	169	- 31	- 18.3
37	5.7.57	W. Wainey	2.02	70	92	- 22	- 23.9
38	30.7.57	P. Horn	1.70	57	54	+ 3	+ 5.5
39	31.8.57	D. Ades	1.60	37	45	- 8	- 17.7
40	19.9.57	"	1.55	33	40	- 7	- 17.5
41	8.10.57	"	1.40	29	30	- 1	- 3.3
42	23.10.57	"	1.30	27	24	+ 3	+ 12.5
43	11.11.57	"	1.46	30	34	- 4	- 11.8
44	26.11.57	"	1.06	19	14	+ 5	+ 35.7
45	23.12.57	"	2.00	86	89	- 3	- 3.4
46	30.12.57	"	2.40	160	158	+ 2	+ 1.3
47	14.1.58	"	2.24	123	127	- 4	- 3.2
48	24.1.58	"	2.10	89	104	- 15	- 14.4
49	31.1.58	"	2.22	113	124	- 11	- 8.9
50	31.1.58	"	2.22	116	124	- 8	- 6.5
51	18.3.58	"	6.15	2050	2107	- 57	- 2.7
52	25.3.58	"	5.05	1350	1417	- 67	- 4.7
53	25.3.58	"	4.95	1357	1357	0	0.0
54	27.3.58	"	5.40	1655	1631	+ 24	+ 1.5
55	27.3.58	"	5.35	1600	1600	0	0.0
56	16.5.58	"	2.35	141	148	- 7	- 4.7
57	16.5.58	"	2.35	143	148	- 5	- 3.4
58	4.9.58	H.S. Majhail	1.35	31	27	+ 4	+ 1.5
59	4.9.58	"	1.35	31	27	+ 4	+ 1.5

KIMANI RIVER AT GREAT NORTH ROAD  
 STATION NO. IKA.9  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.						2.3	3.4	4.9	6.8	9.8
1.	11.9	15.3	19.4	24.3	30.1	36.9	44.8	53.8	64.0	75.7
2.	88.9	104	120	138	158	180	205	232	262	295
3.	331	369	412	457	505	557	608	659	711	764
4.	817	871	926	981	1037	1094	1151	1209	1268	1327
5.	1387	1447	1508	1569	1631	1694	1756	1819	1882	1946
6.	2010	2075	2140	2206	2272	2339	2405	2472	2540	2607
7.	2675	2744	2813	2882	2952	3022	3092	3162	3233	3305
8.	3377	3449	3520	3592	3664	3737	3811	3885	3959	4033
9.	4107	4182	4257	4332	4407	4482	4558	4635	4712	4789

DISCHARGE IN ACRE FEET PER DAY

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.						5	7	10	14	19
1.	24	30	38	48	60	73	89	107	127	150
2.	176	206	238	273	313	356	406	459	519	584
3.	655	733	816	905	1000	1103	1204	1305	1408	1513
4.	1618	1725	1833	1942	2053	2166	2279	2394	2511	2627
5.	2746	2865	2986	3107	3229	3354	3477	3602	3726	3853
6.	3980	4109	4237	4368	4499	4631	4762	4895	5029	5162
7.	5302	5433	5570	5706	5845	5984	6122	6261	6401	6544
8.	6686	6828	6970	7112	7255	7399	7546	7692	7839	7985
9.	8132	8280	8429	8577	8726	8874	9025	9177	9330	9482

MLOMBOSI AT IGAWA  
STATION No. 1KA.10

Current Meter Measurements available.

The Mlombosi is a sandy river and no permanent rating curve could be established.

No.	Date	Observer	h	q
1	12. 1.56	P.Horn	0.70	17
2	9. 2.56	"	3.77	204
3	22. 2.56	G.S.Tasker	4.12	400
4	24. 2.56	"	3.80	249
5	5. 3.56	"	3.55	144
6	15. 3.56	"	3.20	78
7	19. 3.56	"	3.60	108
8	22. 3.56	C.Walker	3.30	47.6
9	28. 3.56	"	3.30	46
10	3. 4.56	"	3.90	181
11	5. 4.56	"	4.67	529
12	7. 4.56	P.Horn	3.80	174
13	18. 4.56	C.Walker	3.25	68
14	4. 5.56	"	3.30	31
15	16. 5.56	G.S.Tasker	3.25	33.4
16	30. 5.56	"	3.20	21.9
17	6. 6.56	"	3.22	13.6
18	15. 6.56	A.Smythe	3.20	12.5
19	27. 7.56	P.Horn	3.10	2.7
20	3. 8.56	"	3.10	2.2
21	18. 8.56	A.Smythe	3.05	0.9
22	30.12.56	P.Horn	3.25	1.7
23	29. 1.57	D.G.Lewis	4.50	336.2
24	6. 2.57	"	3.52	143.6
25	28. 2.57	"	3.25	12.5
26	5. 4.57	P.Horn	3.65	58.5
27	11. 4.57	"	3.53	31
28	12. 4.57	"	3.62	42.4
29	10. 5.57	B.P.Gemmell	3.475	31.6
30	4. 7.57	W.Wainey	3.40	2.5
31	30. 7.57	P.Horn	3.37	1.3
32	20.12.57	D.J.Adas	3.48	20.9
33	31.12.57	"	3.45	121.5
34	10. 1.58	"	3.0	27
35	23. 1.58	"	2.70	1.9
36	19. 3.58	"	3.60	232.2
37	22. 1.59	H.S.Majhail	2.70	17.3
38	3. 2.59	"	3.45	107.4
39	14. 3.59	O.Tilrem	3.00	66.6

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No.	Date	Observer	h	q
40	12. 4.59	O.Tilrem	3.00	41.4
41	13. 4.59	G.S.Tasker	2.95	43.4
42	8.12.59	H.S.Majhail	3.05	60.9
43	8.12.59	"	3.07	62
44	5. 1.59	"	2.48	6
45	5. 1.59	"	2.48	4.7
46	21. 1.60	"	2.90	50.4
47	21. 1.60	"	2.90	54.9

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MBARALI AT IGAWA  
STATION NO: IKA.11

Available Current Meter Measurements for the Establishment  
of Stage Discharge Curve and Tables.

The following formula is fitted to the measurements:-

$$q = 68.2 (h-0.8)^{1.92}$$

Where h is observed water level on the U/S gauge (at the Auto-  
matic Recorder) and q is discharge in cusecs.

No.	Date.	Observer.	h	q obs	q calc	Deviation	Deviation %
1.	10.2.56	P. Horn	6.52	1956	1941	+ 15	+ 0.8
2.	21.2.56	B. Gemmell	7.28	2462	2466	- 4	- 0.2
3.	23.2.56	G. Tasker	5.75	1386	1470	- 84	- 6.0
4.	29.2.56	"	5.75	1448	1470	- 22	- 1.5
5.	7.3.56	"	5.87	1474	1539	- 65	- 4.2
6.	19.3.56	"	5.23	1120	1188	- 68	- 5.7
7.	21.3.56	C. Walker	5.80	1472	1499	- 27	- 1.8
8.	27.3.56	"	4.85	1065	1000	+ 65	+ 6.5
9.	30.3.56	"	6.80	2107	2127	- 20	- 0.9
10.	5.4.56	"	9.25	4097	4106	- 9	- 0.2
11.	6.4.56	"	7.35	2518	2517	+ 1	0.0
12.	9.4.56	"	5.70	1339	1442	-103	- 7.1
13.	11.4.56	"	5.28	1252	1216	+ 36	+ 3.0
14.	13.4.56	"	5.10	1157	1122	+ 35	+ 3.1
15.	17.4.56	"	4.70	942	931	+ 11	+ 1.2
16.	20.4.56	"	4.83	982	990	- 8	- 0.8
17.	24.4.56	"	5.10	1212	1122	+ 90	+ 8.0
18.	26.4.56	"	4.80	980	977	+ 3	+ 0.3
19.	28.4.56	"	4.69	909	925	- 16	- 1.7
20.	3.5.56	"	4.58	870	876	- 6	- 0.7
21.	16.5.56	G. Tasker	4.00	750	636	+114	+17.9
22.	30.5.56	"	3.55	521	477	+ 44	+ 9.2
23.	6.6.56	"	3.40	422	427	- 5	- 1.2
24.	16.6.56	C. Walker	3.35	405	411	- 6	- 1.5
25.	16.6.56	"	3.35	363	411	- 48	-11.7
26.	26.7.56	P. Horn	2.85	277	272	+ 5	+ 1.8
27.	3.8.56	"	2.81	272	263	+ 9	+ 3.4
28.	20.8.56	A. Smyth	2.80	229	258	- 29	-11.2
29.	19.9.56	"	2.45	204	179	+ 25	+14.0
30.	5.10.56	"	2.39	164	166	- 2	- 1.2
31.	18.11.56	P. Horn	2.24	137	135	+ 2	+ 1.5
32.	30.12.56	"	2.54	193	198	- 5	- 2.5
33.	6.2.57	D.G. Lewis	5.20	1169	1173	- 4	- 0.3

NOTE: Measurements taken after 4th April 1957 form a new curve.

MBARALI AT IGAWA  
STATION NO. IKA.11

Available Current Meter Measurements after 4th April 1957.

A smooth curve has been fitted to the measurements by a series of differences.

Above 5.5 on the gauge the new curve diverges 0.3 ft from the old one.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation %
34.	4.4.57	P. Horn	7.72	2512	2497	+ 15	+ 0.6
35.	10.5.57	B. Gemmell	4.475	751	696	+ 55	+ 7.9
36.	31.5.57	P. Horn	3.94	520	519	+ 1	+ 0.2
37.	4.7.57	W. Wainey	3.20	330	321	+ 9	+ 2.8
38.	30.7.57	P. Horn	2.93	248	260	- 12	- 4.6
39.	30.8.57	D.J. Aides	2.70	223	213	+ 10	+ 4.7
40.	23.9.57	"	2.54	191	185	+ 6	+ 3.2
41.	22.10.57	"	2.29	150	142	+ 8	+ 5.6
42.	1.11.57.	"	2.25	139	136	+ 3	+ 2.2
43.	11.12.57	"	2.20	119	128	- 9	- 7.0
44.	23.1.58	"	2.60	193	195	- 2	- 1.0
45.	19.3.58	"	5.68	1205	1215	- 10	- 0.8
46.	19.3.58	"	5.55	1146	1162	- 16	- 1.4
47.	26.4.58	H. van Ark	4.23	627	612	+ 15	+ 2.5
48.	26.4.58	"	4.23	624	612	+ 12	+ 2.0
49.	9.5.58	"	3.73	497	457	+ 40	+ 8.8
50.	9.5.58	"	3.70	514	448	+ 66	+ 14.7

MBARALI AT IGAWA  
STATION NO: IKA.11  
DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1									68	82
2	97	113	130	148	168	189	211	234	258	283
3	310	338	367	397	427	459	492	526	561	598
4	636	675	715	756	798	841	885	931	977	1024
5	1073	1122	1173	1225	1278	1332	1387	1442	1499	1557
6	1616	1676	1737	1799	1862	1926	1992	2059	2127	2196
7	2266	2337	2409	2482	2556	2631	2706	2782	2860	2939
8	3019	3100	3182	3265	3349	3434	3520	3607	3695	3785
9	3876	3967	4059	4152	4246	4341	4437	4533	4631	4730
10	4831	4933	5036	5140	5245	5351	5457	5564	5672	5781
11	5892	6004	6117	6231	6346	6461	6577	6694	6812	6931
12	7052	7174	7297	7421	7546	7671	7797	7924	8052	8181
13	8312	8444	8577	8711	8846	8981	9117	9254	9392	9531

DISCHARGE IN ACRE FEET PER DAY

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1									135	162
2	192	224	257	293	333	374	418	463	511	560
3	614	669	727	786	846	909	974	1042	1111	1184
4	1259	1337	1416	1497	1580	1665	1752	1843	1934	2028
5	2125	2222	2323	2426	2530	2637	2746	2855	2968	3083
6	3200	3318	3439	3562	3687	3813	3944	4077	4211	4348
7	4487	4627	4770	4914	5061	5209	5358	5508	5663	5819
8	5978	6138	6300	6465	6631	6799	6970	7142	7316	7494
9	7674	7855	8037	8221	8407	8595	8785	8975	9169	9365
10	9565	9767	9971	10177	10385	10595	10805	11017	11231	11446
11	11666	11888	12112	12337	12565	12793	13022	13254	13488	13723
12	13963	14025	14448	14694	14941	15189	15438	15690	15943	16198
13	16458	16719	16983	17248	17515	17782	18052	18323	18596	18871

MBARALI AT IGAWA  
STATION NO: IKA.11  
DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2	99	113	128	144	160	177	195	213	233	254
3	276	298	321	345	370	395	421	448	477	507
4	538	569	602	635	669	705	741	779	818	858
5	899	941	984	1029	1075	1122	1173	1225	1278	1332
6	1387	1442	1499	1557	1616	1676	1737	1799	1862	1926
7	1992	2059	2127	2196	2266	2337	2409	2482	2556	2631
8	2706	2782	2863	2939	3019	3100	3182	3265	3349	3434
9	3520	3607	3695	3785	3876	3967	4059	4152	4246	4341
10	4437	4533	4631	4730	4831	4933	5036	5140	5245	5351
11	5457	5564	5672	5781	5892	6004	6117	6231	6346	6461
12	6577	6694	6812	6931	7052	7174	7297	7421	7546	7671
13	7797	7924	8052	8181	8312	8444	8577	8711	8846	8981

DISCHARGE IN ACRE FEET PER DAY

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2	196	224	253	285	317	350	386	422	461	503
3	546	590	636	683	733	782	834	887	944	1004
4	1065	1127	1192	1257	1325	1396	1467	1542	1620	1699
5	1780	1863	1948	2037	2129	2222	2323	2426	2530	2637
6	2746	2855	2968	3083	3200	3318	3439	3562	3687	3813
7	3944	4077	4211	4348	4487	4627	4770	4914	5061	5209
8	5358	5508	5663	5819	5978	6138	6300	6465	6631	6799
9	6970	7142	7316	7494	7674	7855	8037	8221	8407	8595
10	8785	8975	9169	9365	9565	9767	9971	10177	10385	10595
11	10805	11017	11231	11446	11666	11888	12112	12337	12565	12793
12	13022	13254	13488	13723	13963	19205	14448	14694	14941	15189
13	15438	15690	15943	16198	16458	16719	16983	17248	17515	17782

NOTE: These tables are valid from April 1957.



HALALI AT IYAYI  
STATION NO. IKA.12

Available Current Meter Measurements for the Establishment of discharge rating curve and tables.

A smooth curve has been fitted to the measurements by applying a series of differences. Measurements taken after construction of new bridge only are used for this curve.

No.	Date.	Observer.	h.	q obs.	q calc.	Deviation.	Deviation
1.	20.12.56	P.Horn	1.10	7.5	8.9	- 1.4	-15.7
2.	5.1.56	"	1.11	7.1	9.3	- 2.2	-23.7
3.	3.4.56	"	3.23	248	276	-28	-10.1
4.	4.4.56	"	3.09	217	240	-23	-9.6
5.	12.4.56	B.Gemmell	2.87	172	181	- 9	- 5.0
6.	1.5.56	"	2.65	123	145	-22	- 5.2
7.	1.6.56	P.Horn	1.86	51	48	+ 3	+ 6.3
8.	4.7.57	W. Wainey	1.35	21	21	0	0
9.	30.7.57	P.Horn	1.22	15	15	0	0
10.	30.8.57	D.J.Ades	1.10	8.5	8.9	- 0.4	- 4.5
11.	23.9.57	"	0.90	5.8	4.1	+ 1.7	+41.5
12.	15.10.57	"	0.88	3.8	3.8	0	0
13.	24.10.57	J.Otnes	0.30	0.0	0.0		
14.	1.11.57	D.J.Ades	0.90	2.7	4.1	- 1.4	-34.1
15.	19.12.57	"	1.40	24	23	+ 1	+ 4.3
16.	31.12.57	"	3.20	275	270	+ 5	+ 1.9
17.	10.1.58	"	2.40	97	105	- 8	- 7.6
18.	23.1.58	"	1.20	12	13	- 1	- 7.7
19.	7.2.58	"	2.75	152	164	- 12	- 7.3
20.	3.3.58	H.van Ark	2.30	107	91	+ 16	+17.6
21.	3.3.58	"	2.30	103	91	+ 12	+13.2
22.	14.3.58	D.J.Ades	3.10	195	243	- 48	-19.8
23.	14.3.58	"	3.10	184	243	- 59	-24.3
24.	8.4.58	"	3.20	266	270	- 4	- 1.5
25.	8.4.58	"	3.20	260	270	- 10	- 3.7
26.	4.5.58	H. van Ark	2.60	143	136	+ 71	+ 5.1
27.	4.5.58	"	2.60	160	136	+ 24	+17.6
28.	10.5.58	"	2.50	106	120	- 14	-11.7
29.	10.5.58	"	2.50	108	120	- 12	-10.0
30.	19.5.58	"	2.30	89	91	- 2	- 2.2
31.	19.5.58	"	2.30	91	91	0	0
32.	6.6.58	D.J.Ades	2.00	55	58	- 3	- 5.2
33.	6.6.58	"	2.00	59	58	+ 1	+ 1.7
34.	8.8.58	"	1.40	23	23	0	0
35.	24.9.58	H.S. Majhail	1.05	10	7.5	+ 2.5	+33.3

Halali at Iyayi (Continued)

No.	Date.	Observer.	h.	q.obs.	q.calc.	Deviation.	Deviation %.
36.	22.1.59	H.S.Majhail	1.00	16	6.1		
37.	3.2.59	"	2.30	91	91	0	0
38.	9.2.59	"	1.70	39	39	0	0
39.	17.2.59	"	1.90	49	51	- 2	- 3.9
40.	17.2.59	"	1.90	54	51	+ 3	+ 5.9
41.	23.2.59	"	2.50	130	120	+ 10	+ 8.3
42.	23.2.59	"	2.50	137	120	+ 17	+14.2
43.	6.3.59	"	2.75	188	164	+ 24	+14.6
44.	11.3.59	O.Tilrem	2.55	130	128	+ 2	+ 1.6
45.	11.3.59	"	2.60	136	136	0	0
46.	23.3.59	"	3.85	597	602	- 5	- 0.8
47.	23.3.59	"	3.95	688	667	+21	+ 3.1
48.	27.3.59	"	5.80	2403	2403	0	0

HALALI AT IYAYI (Downstream)  
 STATION NO. IKA.12  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.				0.0	0.2	0.5	1.0	1.7	2.7	4.1
1.	6.1	8.9	13	18	23	28	34	39	45	51
2.	58	67	78	91	105	120	136	154	174	195
3.	218	243	270	300	349	400	454	511	571	634
4.	700	770	843	919	998	1080	1164	1251	1341	1434
5.	1530	1629	1731	1836	1944	2054	2167	2283	2403	2526
6.	2652	2781	2913	3048	3186	3327	3471	3618	3768	3921

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.				0.0	0.4	1.0	2.0	3.4	5.3	8.1
1.	12	18	26	36	46	56	67	78	89	109
2.	115	133	154	178	205	235	268	304	343	387
3.	432	481	535	594	691	792	899	1012	1131	1255
4.	1386	1525	1669	1820	1976	2138	2305	2477	2655	2839
5.	3029	3225	3427	3635	3849	4067	4291	4520	4758	5001
6.	5251	5506	5768	6035	6308	6587	6873	7164	7461	7764

NOTE: These tables are valid from 1st January 1957, when the new bridge across the Halali was completed.

The Tables refer to the gauge at the Road Bridge and gives the total discharge of Halali and Hukuni.

LUKOSI AT MBUYUNI  
STATION No. 1KA.14

Current Meter Measurements available.

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No.	Date	Observer	h	q
1	4.10.55	M.Savy	2.1	364
2	20.12.55	J.Otnes	2.75	496
3	20.12.55	"	2.75	487
4	1. 2.56	"	9.17	875
5	16. 2.56	M.Savy	8.20	1192
6	18. 2.56	"	8.00	1124
7	1. 3.56	"	9.08	880
8	17. 3.56	"	7.2	735
9	25. 3.56	L.Louys	7.38	91.4
10	27. 3.56	"	7.20	85.1
11	27. 3.56	"	7.10	81.8
12	28. 3.56	"	7.00	74.6
13	30. 3.56	"	7.50	103.0
14	10. 4.56	M.Savy	9.20	1281
15	14. 4.56	L.Louys	9.15	303
16	22. 9.56	M.Savy	3.30	425.2

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Note: The water level at this station is influenced by the Great Ruaha.

NDEMBERA RIVER AT ILONGO  
STATION NO: IKA.15  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0	0.05	0.07	0.14	0.26	0.43	0.65	0.95	1.34	1.81	2.40
1	3.10	3.93	4.90	6.02	7.31	8.79	10.50	15.70	22.80	31.80
2	43.50	58.30	76.60	99.00	126	159	197	242	295	356
3	426	506	594	701	818	948	1093	1257	1436	1637
4	1858	2100	2365	2651	2975	3321	3696	4102	4538	5018
5	5531									

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0	0.1	0.2	0.3	0.5	0.8	1	2	3	4	5
1	6	8	10	12	14	17	21	31	45	63
2	86	115	152	196	249	315	390	479	584	705
3	843	1002	1176	1388	1620	1877	2164	2489	2843	3241
4	3679	4158	4683	5297	5891	6576	7318	8122	8985	9936
5	10951									

Available Current Meter measurements for the establishment of discharge rating curve and tables.

The following formulas are fitted to the measurements :

$$h < 1.6, \quad q = 1.335 (h + 0.3)^{3.205}$$

$$h > 1.6, \quad q = 10.49 (h + 0.6)^{4.23}$$

No.	Date.	Observer	h	q obs.	q calc.	Deviation.	Deviation %
1.	15.6.56	J. McCaldin	2.15	68.80	67.00	+ 1.80	+ 2.6
2.	18.7.56	"	1.91	33.00	32.90	+ 0.10	+ 0.3
3.	18.7.56	"	1.91	32.70	32.90	- 0.20	- 0.6
4.	22.8.56	"	1.75	18.90	18.90	0	0
5.	10.9.56	"	1.60	10.40	10.50	- 0.10	- 0.6
6.	1.11.56	O. Tilrem	1.08	3.70	3.75	- 0.05	- 1.3
7.	1.11.56	"	1.08	3.80	3.75	+ 0.05	+ 1.3
8.	12.3.57	"	2.65	218.00	219.00	- 1.00	- 0.5
9.	12.3.57	"	2.65	223.00	219.00	- 4.00	- 1.8
10.	30.4.57	"	3.25	647.00	647.00	0.00	0.0
11.	30.4.57	"	3.25	647.00	647.00	0.00	0.0
12.	22.10.57	"	1.35	6.65	6.65	0.00	0.0
13.	22.10.57	"	-0.30	0.00	0.00	0.00	0.0.

Measurements taken after establishment of discharge rating curve.

14.	9.8.58	H. Singh	1.62	19.00	11.00	+ 8.00	+ 72.7
15.	9.8.58	"	1.62	19.00	11.00	+ 8.00	+ 72.7
16.	16.11.59	M. H. Bhatt	1.30	7.30	6.00	+ 1.30	+ 21.6
17.	16.11.59	"	1.30	7.20	6.00	+ 1.30	+ 21.6
18.	15.1.60	"	2.55	168.00	175.00	- 7.00	- 4.0
19.	15.1.60	"	2.55	164.00	175.00	-11.00	- 6.3

LIOSI AT IGURUSI  
STATION No. 1KA.16

Current Meter Measurements available.

No.	Date	Observer	h	q
1	17. 4.56	W.Wainey	2.45	114.7
2	17. 4.56	"	2.4	115.35
3	9. 5.56	"	2.35	86.86
4	7. 6.56	G.S.Tasker	1.7	28.9
5	22. 6.56	C.Walker	1.6	17.2
6	22. 6.56	"	1.6	15.0
7	10. 8.56	A.Smythe	1.34	4.87
8	30. 8.56	"	1.3	4.5
9	5. 9.56	"	1.19	2.5
10	20. 9.56	"	1.21	2.7
11	25.10.56	"	1.15	1.8
12	21.11.56	P.Horn	1.06	0.7
13	6. 1.57	"	1.7	14.7
14	1. 3.57	D.G.Lewis	2.61	78.0
15	14. 4.57	B.Gemmell	3.22 $\frac{1}{2}$	286
16	15. 4.57	"	3.10	207.8
17	16. 4.57	"	3.0	188.8
18	1. 5.57	"	2.65	157.6
19	2. 5.57	"	2.60	156.4
20	10. 5.57	"	2.34 $\frac{1}{2}$	95.1
21	11. 5.57	"	2.30	78.5
22	30. 5.57	P.Horn	1.95	37.9
23	6. 7.57	W.Wainey	1.5	7.92
24	31. 7.57	P.Horn	1.3	3.0
25	29. 8.57	D.J.Adess	1.3	2.5
26	13. 9.57	"	1.12	4.2
27	2.10.57	"	1.08	2.4
28	5.11.57	"	1.10	2.0
29	10.12.57	"	1.20	3.1
30	8. 1.58	"	1.60	14.3
31	15. 1.58	"	1.40	8
32	28. 1.58	"	1.50	9
33	28. 1.58	"	1.50	9
34	3. 4.58	H.Von Ark	2.70	145
35	3. 4.58	"	2.70	155
36	5. 5.58	D.J.Adess	2.2	49
37	5. 5.58	"	2.2	52
38	20. 5.58	"	1.8	22
39	20. 5.58	"	1.8	21
40	5. 6.58	"	1.7	14
41	22. 8.58	H.S.Majhail	1.2	2
42	3. 9.58	"	1.2	2

MAMBI AT KAKANZI  
STATION No. 1KA17

Current Meter Measurements available.

No.	Date	Observer	h	q
1	18. 4.56	W.Wainey	1.80	101.55
2	18. 4.56	"	1.80	102.46
3	18. 4.56	"	1.80	101.92
4	9. 5.56	"	1.80	79.24
5	1. 6.56	G.S.Tasker	1.60	39.7
6	20. 6.56	C.Walker	1.52	20.5
7	20. 6.56	"	1.52	23.6
8	10. 8.56	A.Smythe	1.36	10.5
9	30. 8.56	"	1.33	7.6
10	5. 9.56	"	1.30	7.4
11	20. 9.56	"	1.25	7.5
12	25.10.56	"	1.20	5.93
13	21.11.56	P.Horn	1.21	3.71
14	6. 1.57	"	1.52	14.8
15	30. 1.57	D.G.Lewis	1.995	76.13
16	7. 2.57	"	2.71	254.95
17	14. 4.57	B.Gemmell	2.435	199.2
18	16. 4.57	"	2.387	183
19	30. 4.57	"	2.70	157.4
20	2. 5.57	"	2.50	150
21	10. 5.57	"	2.35	94
22	17. 5.57	P.Horn	2.18	64.75
23	30. 5.57	"	1.99	38.92
24	6. 7.57	W.Wainey	1.70	23
25	31. 7.57	P.Horn	1.75	13.09
26	29. 8.57	D.J.Adas	1.72	9.4
27	13. 9.57	"	1.70	7
28	2.10.57	"	1.68	7.8
29	4.11.57	"	1.60	4.77
30	10.12.57	"	1.60	4.2
31	8. 1.58	"	1.70	20
32	15. 1.58	"	1.50	7
33	28. 1.58	"	1.68	14
34	28. 1.58	"	1.68	13
35	3. 4.58	H. Von Ark	2.70	173
36	3. 4.58	"	2.70	173
37	5. 5.58	D.J.Adas	2.35	82
38	5. 5.58	"	2.35	85
39	20. 5.58	"	2.00	40
40	20. 5.58	"	2.00	41
41	5. 6.58	"	1.85	27
42	22. 8.58	H.S.Majhail	1.60	6.2
43	22. 8.58	"	1.60	7
44	3. 9.58	"	1.60	7
45	21. 1.59	"	1.80	41.6
46	21. 1.59	"	1.80	48.9

MSWISWI AT OLD GREAT NORTH ROAD  
STATION No. 1KA.18

Current Meter Measurements available.

No.	Date	Observer	h	q
1	19. 4.56	W.Wainey	3.10	119
2	19. 4.56	"	3.10	120
3	9. 5.56	"	3.20	122
4	18. 5.56	G.S.Tasker	2.90	86.1
5	1. 6.56	"	2.60	55.2
6	12. 6.56	"	2.50	40.8
7	20. 6.56	A.Smythe	2.40	33.6
8	10. 8.56	"	2.10	17.5
9	30. 8.56	"	2.02	14.8
10	5. 9.56	"	1.98	14.4
11	20. 9.56	"	1.97	11.4
12	25.10.56	"	1.89	9.05
13	17.11.56	P.Horn	1.85	7.2
14	6. 1.56	"	2.12	16.8
15	30. 1.57	D.G.Lewis	2.68	54
16	7. 2.57	"	3.50	162.8
17	1. 3.57	"	2.65	106.2
18	17. 5.57	P.Horn	0.95	110.3
19	30. 5.57	"	0.63	59.1
20	6. 7.57	W.Wainey	0.85	25.1
21	31. 7.57	P.Horn	0.15	17.8
22	29. 8.57	D.J.Ades	0.60	14.3
23	13. 9.57	"	0.57	12.4
24	2.10.57	"	1.08	9.2
25	4.11.57	"	0.98	7.9
26	10.12.57	"	1.00	7.6
27	8. 1.58	"	1.34	14.9
28	15. 1.58	"	1.10	8.5
29	20. 5.58	"	2.70	58
30	20. 5.58	"	2.70	55
31	5. 6.58	"	2.1	34.2
32	3. 9.58	"	1.15	10.851
33	21. 1.59	"	2.30	29.3
34	21. 1.59	"	2.30	34.4
35	25. 4.59	G.S.Tasker	1.63	73.8
36	28. 4.59	"	1.74	141
37	13. 5.59	"	1.70	91.2
38	25. 5.59	"	1.36	70.2
39	6. 6.59	"	1.20	48.8



MBARALI RIVER AT RUJEWI TRIAL FARM  
STATION NO: IKA.19

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

The riverbed is sandy at Rujewa Farm and no permanent rating curve can be established to this gauge. The available current meter measurements after 1st April 1957 at Rujewa have therefore been related to corresponding water levels on the Igawa gauge, and the runoff computed accordingly.

No.	Date.	Observer	h	q obs	q calc.	Deviation.	Deviation %
1.	9.5.57	B. Gemmell	4.53	840	797	+ 43	+ 5.4
2.	9.5.58	D. Ades	3.75	520	516	+ 4	+ 0.8
3.	9.5.58	"	3.75	476	516	- 40	- 7.8
4.	20.5.58	H. van Ark	3.43	461	419	+ 42	+ 10.0
5.	3.6.58	"	3.23	357	362	- 5	- 1.4
6.	3.6.58	"	3.23	369	362	+ 7	+ 1.9
7.	27.8.58	H. S. Majhail	2.60	203	202	+ 1	+ 0.5
8.	27.8.58	"	2.60	212	202	+ 10	+ 5.0
9.	25.9.58	"	2.43	177	166	+ 11	+ 6.6
10.	21.10.58	"	2.20	129	123	+ 6	+ 4.9
11.	13.11.58	"	2.10	93	106	- 13	- 12.2
12.	2.3.59	O. Tilrem	4.58	749	817	- 68	- 8.3
13.	12.3.59	"	5.25	1066	1128	- 62	- 5.5
14.	15.3.59	"	5.90	1523	1516	+ 7	+ 0.5
15.	14.4.59	"	4.72	867	876	- 9	- 1.0
16.	14.5.59	"	4.72	883	876	+ 7	+ 0.8
17.	11.5.59	G. S. Tasker	3.65	501	475	+ 26	+ 5.5
18.	11.5.59	"	3.65	557	475	+ 82	+ 17.3
19.	20.5.59	"	3.43	446	419	+ 27	+ 6.4
20.	20.5.59	"	3.43	439	419	+ 20	+ 4.8
21.	26.5.59	"	3.28	425	375	+ 50	+ 13.3
22.	26.5.59	"	3.28	432	375	+ 57	+ 15.2
23.	1.6.59	"	3.20	399	353	+ 46	+ 13.0
24.	1.6.59	"	3.20	423	353	+ 70	+ 19.8
25.	6.1.60	H.S. Majhail	3.00	251	300	- 49	- 16.3
26.	6.1.60	"	3.00	295	300	- 5	- 1.7

MBARALI RIVER AT RUJEWI TRIAL FARM  
STATION NO: IKA.19  
DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1				3	13	25	38	50	63	76
2	90	106	123	141	160	180	202	225	249	274
3	300	326	353	381	410	440	470	501	533	566
4	600	635	671	708	746	785	825	867	910	954
5	1000	1049	1101	1155	1211	1270	1330	1391	1453	1516
6	1580	1647	1717	1789	1863	1940	2018	2097	2177	2258
7	2340	2424	2510	2598	2688	2780	2874	2971	3071	3174
8	3280	3388	3499	3613	3730	3850	3974	4103	4237	4376
9	4520	4664	4813	4967	5126	5290	5454	5623	5797	5976
10	6160	6344	6533	6727	6926	7130	7334	7543	7757	7976
11	8200	8424	8653	8887	9126	9370	9614	9863	10117	10376
12	10640	10904	11173	11447	11726	12010	12294	12583	12877	13176
13	13480	13784	14093	14407	14726	15050	15374	15703	16037	16376
14	16720	17072	17430	17794	18164	18540	18916	19296	19680	20068

DISCHARGE IN ACRE FEET PER DAY.

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1				6	26	50	75	100	125	150
2	178	210	243	279	317	356	400	445	493	542
3	594	645	699	754	812	871	931	992	1055	1121
4	1188	1257	1328	1402	1477	1554	1633	1717	1802	1889
5	1980	2077	2180	2287	2398	2515	2633	2754	2877	3002
6	3128	3261	3400	3542	3689	3841	3996	4152	4310	4471
7	4633	4800	4970	5144	5322	5504	5690	5882	6080	6284
8	6494	6708	6928	7154	7385	7623	7868	8124	8389	8664
9	8950	9235	9530	9835	10149	10474	10799	11133	11478	11832
10	12197	12561	12935	13319	13713	14117	14521	14935	15359	15792
11	16236	16679	17133	17596	18069	18553	19036	19529	20032	20544
12	21067	21590	22122	22665	23217	23780	24342	24914	25496	26088
13	26690	27292	27904	28526	29157	29799	30440	31092	31753	32424
14	33106	33802	34511	35232	35965	36709	37454	38206	38966	39735

NOTE: These rating tables relate the water levels as observed at Igawa to the river discharge at Kujewa Trial Farm. The tables are valid after 1st April, 1957.

LITTLE RUAHA AT TOSAMAGANGA  
STATION NO. IKA. 20

Available Current Meter Measurements for the Establishment of discharge rating curve and tables.

A smooth curve has been fitted to the available measurements by applying a series of differences. At high levels water spills over the banks and this part of the curve has been established in comparison with Iringa and Mawanda Hydrometric Stations on the same River.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation %
1.	24.8.56	J.H. McCaldin	6.88	398	358	+ 40	+ 11.2
2.	14.12.57	H. Singh	6.275	179	179	0	0.0
3.	5.3.58	"	8.30	803	809	- 6	- 0.7
4.	5.3.58	"	8.30	807	809	- 2	- 0.2
5.	11.4.58	"	10.50	1630	1682	- 52	- 3.1
6.	11.4.58	"	10.50	1600	1682	- 82	- 4.9
7.	20.8.58	"	7.02	380	400	- 20	- 5.0
8.	20.8.58	"	7.02	387	400	- 13	- 3.3
9.	24.11.58	"	6.13	141	434	+ 7	+ 1.6
10.	24.11.58	"	6.13	142	434	+ 8	+ 1.8



LITTLE RUAHA AT IHIMBU  
STATION NO: IKA.21

Available Current Meter Measurements for the Establishment Stage Discharge Curve and Tables. A smooth curve has been fitted to the available measurements by series of differences.

Date.	Observer.	h	qObs	qCalc	Deviation	Deviation %
21.3.57	O. Tilrem	5.75	792	796	- 4	- 0.5
"	"	5.75	760	796	-36	-4.5
6.4.57	"	7.85	1320	1296	+24	+1.9
"	"	7.85	1275	1296	-21	-1.6
13.4.57	"	7.15	1226	1120	+106	+9.5
10.7.57	"	4.65	570	571	- 1	-0.2
3.10.57	"	2.85	267	265	+ 2	+0.7
"	"	2.85	263	265	- 2	-0.7
5.11.57	"	2.30	182	190	- 8	-4.2
"	H. Singh	2.30	194	190	+ 4	+2.1
26.3.58	O. Tilrem	11.30	2720	2631	+89	+3.4
"	"	11.85	2800	2896	-96	-3.3
8.4.58	H. Singh	8.85	1610	1610	0	0.0
2.8.58	"	3.80	432	417	+15	+3.6
13.8.58	"	3.70	411	400	+11	+2.8
19.11.58	"	1.80	146	148	- 2	-1.4
"	"	1.80	151	148	+ 3	+2.0

## LITTLE RUAHA AT IHIMBE

STATION NO: IKA.21

DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1							135	141	148	155
2	163	171	180	190	202	215	229	243	257	272
3	287	302	318	334	350	366	383	400	417	434
4	451	469	487	505	524	543	562	581	600	620
5	640	660	680	701	722	743	764	785	807	829
6	851	873	895	918	941	964	987	1010	1034	1058
7	1082	1106	1130	1155	1180	1205	1230	1255	1280	1306
8	1332	1358	1384	1414	1448	1483	1518	1554	1590	1627
9	1665	1703	1741	1780	1819	1858	1897	1937	1977	2017
10	2058	2100	2142	2185	2228	2271	2315	2359	2403	2448
11	2493	2539	2585	2631	2678	2726	2774	2823	2872	2921
12	2970	3020	3070	3120	3171	3223	3275	3328	3381	3435
13	3489	3543	3598	3653	3708	3764	3820	3877	3934	3992
14	4050	4109	4168	4227	4287	4347	4407	4468	4529	4591
15	4653	4716	4779	4843	4907	4971	5036	5101	5166	5232
16	5298	5365	5432	5500	5568	5637	5706	5775	5845	5915
17	5985	6056	6127	6198	6270	6343	6416	6490	6564	6639
18	6714	6789	6865	6941	7018	7095	7172	7250	7328	7406

DISCHARGE IN ACRE FEET PER DAY

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1							267	279	293	307
2	323	339	357	376	400	426	453	481	509	539
3	568	598	630	661	693	725	758	792	826	859
4	893	929	964	1000	1038	1075	1113	1150	1188	1228
5	1267	1307	1346	1388	1430	1471	1513	1554	1598	1641
6	1685	1729	1772	1818	1863	1909	1954	2000	2047	2095
7	2142	2190	2237	2287	2336	2386	2435	2485	2534	2586
8	2637	2689	2740	2800	2867	2936	3006	3077	3148	3221
9	3297	3372	3447	3524	3602	3679	3756	3835	3914	3994
10	4075	4158	4241	4326	4411	4497	4584	4671	4758	4847
11	4936	5027	5118	5209	5302	5397	5493	5590	5687	5784
12	5881	5980	6079	6178	6279	6382	6485	6589	6694	6801
13	6908	7015	7124	7233	7342	7453	7564	7676	7793	7904
14	8019	8136	8253	8369	8488	8607	8726	8847	8967	9090
15	9213	9338	9462	9589	9716	9843	9971	10100	10229	10359
16	10490	10623	10755	10890	11025	11161	11298	11435	11573	11712
17	11850	11991	12131	12272	12415	12559	12704	12850	12997	13145
18	13294	13442	13593	13743	13896	14048	14021	14355	14509	14664

MPTTU AT MPTTU BRIDGE  
STATION NO. IKA. 22

Available Current Meter Measurements for the establishment of discharge Rating Curve and Tables.

The following formula has been fitted to the measurements:-

$$q = 13.15 h^{2.50}$$

Where  $q$  is observed discharge in cusecs and  $h$  water level in feet.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation %
1.	8.6.57	E. Gairdner	2.50	130	130	0	0.0
2.	8.6.57	"	2.50	129	130	- 1	- 0.8
3.	2.7.57	O. Tilrem	2.35	116	112	+ 4	+ 3.6
4.	6.11.57	H. Singh	1.95	71	70	+ 1	+ 1.4
5.	13.12.57	"	2.10	81	84	- 3	- 3.6
6.	13.12.57	"	2.10	84	84	0	0.0
7.	4.3.58	"	2.70	160	158	+ 2	+ 1.3
8.	4.3.58	"	2.70	162	158	+ 4	+ 2.5
9.	27.3.58	"	4.225	480	483	- 3	- 0.6
10.	27.3.58	"	4.225	485	483	+ 2	+ 0.4
11.	18.3.58	"	3.30	260	260	0	0.0

Check measurements.

	21.8.58	H. Singh	2.20	92	94	- 2	- 2.1
	21.8.58	"	2.30	96	94	+ 2	+ 2.1
	25.11.58	"	1.70	50	50	0	0.0
	25.11.58	"	1.70	52	50	+ 2	+ 4.0

MTITU AT MTITU BRIDGE  
 STATION NO: IKA.22  
DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	13	17	21	26	31	37	43	50	57	65
2	74	84	94	105	117	130	144	158	173	188
3	205	223	241	260	280	301	323	346	370	395
4	421	448	476	505	535	566	598	631	665	700
5	736	773	812	852	893	935	978	1022	1067	1113

DISCHARGE IN ACRE FEET PER DAY

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	26	34	42	51	61	73	85	99	113	129
2	147	166	186	208	232	257	285	313	343	372
3	406	442	477	515	554	596	640	685	733	782
4	834	887	942	1000	1059	1121	1184	1249	1317	1386
5	1457	1531	1608	1687	1768	1851	1936	2024	2113	2204



HUKUNI AT IYAYI  
STATION NO. IKA. 23

Available Current Meter Measurements for the Establishment of discharge rating curve and tables.  
A smooth curve has been fitted to the measurements by a series of differences.

No.	Date.	Observer.	h.	q. obs	q. calc	Deviation.	Deviation %
1.	22.1.59	H. S. Majhail	0.50	3.9	3.9	0.0	0.0
2.	3.2.59	"	0.575	6.1	6.1	0.0	0.0
3.	9.2.59	"	0.40	2.6	2.6	0.0	0.0
4.	18.2.59	"	0.90	22	23	- 1.0	- 4.3
5.	23.2.59	"	1.15	39	39	0.0	0.0
6.	23.2.59	"	1.15	39	39	0.0	0.0
7.	6.3.59	"	1.30	51	50	+ 1.0	+ 2.0
8.	6.3.59	"	1.30	49	50	- 1.0	- 2.0
9.	11.3.59	O. Tilrem	1.025	29	29	0.0	0.0
10.	23.3.59	"	2.80	285	285	0.0	0.0
11.	25.3.59	"	3.75	532	532	0.0	0.0
12.	27.3.59	"	5.42	963	966	- 3.0	- 0.3

Note: Rating Curve valid from 1st December 1958.

HUKUNI AT IYAYI  
 STATION NO. IKA. 23  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	0.0	0.5	1.1	1.8	2.6	3.9	7.3	11	16	22
1.	28	35	42	50	59	68	78	89	101	114
2.	128	143	159	177	196	216	238	261	285	310
3.	336	362	388	414	440	467	493	519	545	571
4.	597	623	649	675	701	727	753	779	805	831
5.	857	883	909	935	961	987	1013	1039	1065	1091
6.	1117	1143	1169	1195	1221	1247	1273	1299	1325	1351
7.	1377	1403	1429	1455	1481	1507	1533	1559	1585	1611

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	0.0	1.0	2.2	3.6	5.1	7.7	14.5	22	32	44
1.	55	69	83	99	117	135	154	176	206	226
2.	253	283	315	350	388	428	471	516	564	614
3.	665	717	768	820	872	924	976	1028	1079	1131
4.	1182	1234	1285	1337	1388	1439	1491	1542	1594	1645
5.	1697	1748	1800	1851	1903	1954	2006	2057	2109	2160
6.	2212	2263	2315	2366	2418	2469	2521	2572	2624	2675
7.	2726	2778	2829	2881	2932	2984	3035	3087	3138	3190

Note: These tables are valid from 1st December 1958, when the gauge was erected on new bridge abutment.

Measurements before this date deviate from the established curve, which has been taken into account in the run-off calculations.

UMROBO AT RUIWA  
STATION No. 1KA.24

Current Meter Measurements available.

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No.	Date	Observer	h	q
1	5. 9.56	P.Horn	0.62	16.8
2	10. 9.56	A.Lipka	0.62	14.5
3	5.10.56	W.Wainey	0.50	10.39
4	21.11.56	P.Horn	0.38	9.44
5	16.12.56	"	0.51	14.5
6	22. 4.59	G.S.Tasker	0.9	20.8
7	30. 4.59	"	1.1	33.2
8	12. 5.59	"	0.9	23.5
9	27. 5.59	"	0.7	15.3

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GREAT RUAHA AT KISILWA-MAGANZIPILE  
STATION NO: IKA.26

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

The river overflows its banks at water levels above 11.00 ft and wide areas are covered with water. For water levels below 11.00 ft and also for discharges at regular water levels, the following formulae applies for river channel flow only :-

$$q = 92.1 (h - 1.49)^{1.764}$$

No.	Date.	Observer.	h	q obs	q calc	Deviation.	Deviation %
1.	17.11.56	O. Tilrem	2.50	138.0	94	+ 44.0	+ 49.8
2.	17.11.56	"	2.50	142.0	94	+ 48.0	+ 51.0
3.	4.12.57	H. Singh	2.80	141.4	147	- 5.6	- 3.8
4.	4.12.57	"	2.80	144.4	147	- 2.6	- 1.7
5.	30.1.58	"	5.55	1130.0	1088	+ 42.0	+ 3.8
6.	30.1.58	"	5.55	1050.0	1088	- 38.0	- 3.5
7.	14.3.58	O. Tilrem	9.30	3440.0	3456	- 16.0	- 0.5
8.	14.3.58	"	9.30	3540.0	3456	+ 84.0	+ 2.4
9.	29.4.58	"	13.15	7030.0	9022	-	-
10.	29.4.58	"	13.15	7020.0	9022	-	-
11.	15.8.58	H. Singh	4.475	628.0	638	- 10.0	- 1.5
12.	15.8.58	"	4.475	642.0	638	+ 4.0	+ 0.6
13.	30.10.58	"	3.10	194.0	213	- 19.0	- 8.9
14.	30.10.58	"	3.10	202.0	213	- 11.0	- 5.2
15.	2.12.58	"	2.70	125.0	128	- 3.0	- 2.3
16.	2.12.58	"	2.70	128.0	128	0	0
17.	7.11.59	M. Bhatt	3.10	165.4	213	- 47.6	- 20.6
18.	7.11.59	"	3.10	172.9	213	- 40.1	- 18.8

NOTE: The first gauge established at this site was a slope gauge. This gauge was later replaced by a vertical one, and all heights given refer to this new gauge.

GREAT RUAHA RIVER AT KISILWA-MAGANZIPILE  
 STATION NO: IKA.26  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2	28	37	49	63	78	94	111	128	147	169
3	191	213	236	260	286	314	342	371	402	434
4	467	500	535	572	609	647	685	723	762	802
5	844	886	929	973	1018	1064	1112	1161	1211	1262
6	1313	1364	1416	1469	1523	1579	1635	1692	1750	1809
7	1869	1929	1980	2052	2115	2179	2243	2308	2374	2441
8	2509	2577	2646	2716	2787	2859	2931	3004	3074	3153
9	3228	3303	3379	3456	3534	3614	3694	3775	3857	3940
10	4024	4108	4193	4279	4360	4452	4539	4626	4715	4805
11	4896	4991	5094	5205	5324	5451	5586	5729	5880	6039
12	6206	6381	6564	6755	6954	7161	7392	7643	7914	8205
13	8516	8847	9198	9569	9960	10371	10802	11253	11724	12215
14	12726	13257	13808	14379	14970	15581	16212	16863	17534	18225

DISCHARGE IN ACRES FEET PER DAY.

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2	55	73	97	125	154	186	220	253	291	335
3	378	422	467	515	566	622	677	735	796	859
4	925	990	1059	1133	1206	1281	1356	1432	1509	1588
5	1671	1754	1839	1927	2016	2107	2202	2299	2398	2499
6	2600	2701	2804	2909	3016	3126	3237	3350	3465	3582
7	3701	3819	3940	4063	4188	4314	4441	4570	4701	4833
8	4968	5102	5239	5378	5518	5661	5803	5948	6087	6243
9	6391	6540	6690	6843	6997	7156	7314	7475	7637	7801
10	7968	8134	8302	8472	8643	8815	8987	9159	9336	9514
11	9694	9882	10086	10306	10542	10793	11060	11343	11642	11957
12	12288	12634	12997	13375	13769	14179	14636	15133	15670	16246
13	16862	17517	18212	18947	19721	20535	21388	22281	23214	24186
14	25917	26249	27340	28470	29641	30850	32099	33389	34717	36086

NOTE: There are no possibilities of obtaining direct accurate measurements of the total river discharge at water levels above 11.00 ft. An approximate flood discharge rating curve has therefore been established in comparison with discharges at Mtera and on the Kisigo river.

GREAT RUAHA AT HAUSMANN'S BRIDGE (MKOPULE)  
STATION NO: IKA.27

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

The following formulae have been fitted to the measurements :-

$$\begin{aligned} \text{for } h < 4.0 & \quad q = 71.2 (h - 0.6)^{1.253} \\ \text{for } h > 4.0 & \quad q = 29.5 (h - 1.6)^{2.198} \end{aligned}$$

Where q is observed discharge in cusecs h water level in feet.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation	Deviation %
1.	30.11.56	O. Tilrem	1.80	91	89.5	+ 1.5	+ 1.7
2.	2.12.56	C. Walker	1.80	88	89.5	- 1.5	- 1.7
3.	23.10.57	O. Tilrem	2.875	202	200	+ 2	+ 1.0
4.	23.10.57	"	2.875	198	200	- 2	- 1.0
5.	18.1.58	H. Singh	4.00	326	330	- 4	- 1.2
6.	18.1.58	"	4.00	333	330	+ 3	+ 0.9
7.	27.3.58	C. Walker	10.90	4554	4553	+ 1	+ 0.0
8.	28.3.58	"	11.20	4845	4861	-16	- 0.3
9.	9.5.58	"	11.10	4768	4757	+11	+ 0.2
10.	10.5.58	"	11.00	4698	4654	+44	+ 1.0
11.	10.5.58	"	11.00	4653	4654	- 1	- 0.0
12.	11.5.58	"	10.90	4534	4553	-19	- 0.4
13.	11.5.58	"	10.90	4589	4553	+36	+ 0.8
14.	12.5.58	"	10.80	4598	4453	+145	+ 3.1
15.	13.5.58	"	10.70	4237	4355	-118	- 2.8
16.	16.5.58	"	10.70	4240	4355	-115	- 2.7
17.	13.5.58	"	10.70	4333	4355	-22	- 0.5
18.	30.5.58	"	8.70	2480	2622	-142	- 5.8
19.	30.5.58	"	8.70	2534	2622	-88	- 3.5
20.	31.5.58	"	8.60	2502	2548	-46	- 1.8
21.	1.6.58	"	8.40	2400	2403	- 3	- 0.1
22.	1.6.58	"	8.40	2419	2403	+15	+ 0.6
23.	1.6.58	"	8.40	2384	2403	-19	- 0.8
24.	2.6.58	"	8.30	2339	2332	+ 6	+ 0.3

Check measurements taken after curve was established.

25.	8.8.58	H. Singh	4.38	411	430	-19	- 4.4
26.	8.8.58	"	4.38	420	430	-20	- 4.7

GREAT RUAHA AT HAUSMANN'S BRIDGE (MKOPULE)  
 STATION NO: IKA.27  
DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1						63	72	81	90	99
2	108	118	128	138	148	158	169	180	191	202
3	213	224	235	246	258	270	282	294	306	318
4	330	355	381	408	436	465	494	524	555	588
5	622	657	693	730	768	807	847	887	928	970
6	1014	1060	1107	1155	1204	1254	1304	1355	1407	1460
7	1514	1570	1627	1685	1744	1805	1867	1930	1994	2059
8	2125	2193	2262	2332	2403	2475	2548	2622	2697	2773
9	2850	2929	3009	3090	3172	3256	3340	3426	3513	3602
10	3692	3784	3877	3971	4066	4162	4258	4355	4453	4553
11	4654	4757	4861	4966	5072	5180	5289	5400	5512	5625
12	5739	5855	5972	6090	6209	6330	6452	6574	6698	6823
13	6949	7077	7206	7336	7467	7600	7735	7871	8008	8146
14	8285	8426	8568	8711	8855	9001	9148	9297	9447	9598
15	9750	9904	10059	10215	10372	10531	10691	10853	11016	11180
16	11346	11513	11682	11852	12023	12196	12369	12544	12720	12897

DISCHARGE IN ACRE FEET PER DAY

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1						125	143	160	178	196
2	214	234	253	273	293	313	335	356	378	400
3	422	444	465	487	511	535	558	582	606	630
4	653	703	754	808	863	921	978	1038	1099	1164
5	1232	1301	1372	1445	1521	1598	1677	1756	1837	1921
6	2008	2099	2192	2287	2384	2483	2582	2683	2786	2891
7	2998	3109	3221	3336	3453	3574	3697	3821	3948	4077
8	4208	4342	4479	4617	4758	4900	5045	5192	5340	5491
9	5643	5799	5958	6118	6281	6447	6613	6783	6956	7132
10	7310	7492	7676	7863	8051	8241	8431	8623	8817	9015
11	9215	9419	9625	9833	10043	10256	10472	10692	10914	11138
12	11363	11593	11825	12058	12294	12533	12773	13017	13262	13510
13	13759	14012	14268	14525	14785	15048	15315	15585	15856	16129
14	16404	16683	16965	17248	17533	17822	18113	18408	18705	19004
15	19305	19610	19917	20226	20537	20851	21168	21489	21812	22136
16	22465	22796	23130	23467	23806	24148	24491	24837	25186	25536

NJOMBE RIVER AT IFUMBA  
STATION NO: 1KA.29

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

The following formula has been fitted to the measurements s--

$$q = 16.11 (h - 1.5)^{2.484}$$

where q = Discharge in cusecs

h = water level in feet on the gauge

No.	Date.	Observer	h	q obs	q calc.	Deviation.	Deviation %
1.	13.2.58	H. Singh	4.20	192	190	+ 2	+ 1.04
2.	13.2.58	"	4.20	188	190	- 2	- 1.04
3.	21.2.58	"	8.89	2325	2317	+ 8	+ 0.03
4.	21.2.58	"	9.16	2456	2533	- 77	- 3.04
5.	8.11.58	O. Tilrem	1.48	0	0	0	0
6.	23.11.58	H. Singh	9.90	3296	3185	+111	+ 3.49
7.	23.11.58	"	9.70	3096	3000	+ 96	+ 3.20
8.	27.3. 59	"	11.63	4928	5069	-141	- 2.78
9.	27.3.59	"	11.40	4792	4792	0	0



NJOMBE RIVER AT IFUMBA  
STATION NO: 1KA.29  
DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1							0.1	0.4	1.0	1.8
2	2.9	3.9	5.7	8.3	11.7	16	21	26	32	38
3	44	51	59	68	78	90	102	114	127	141
4	157	173	190	208	227	247	268	290	313	337
5	362	388	416	444	474	504	536	569	603	639
6	676	714	753	793	835	878	923	969	1016	1064
7	1113	1163	1215	1269	1325	1381	1438	1497	1558	1621
8	1685	1749	1815	1883	1953	2025	2097	2171	2247	2325
9	2404	2483	2564	2647	2733	2821	2909	2999	3091	3185
10	3279	3375	3473	3573	3675	3779	3884	3991	4100	4211
11	4323	4437	4553	4671	4791	4911	5033	5157	5283	5411
12	5540	5671	5805	5942	6081	6223	6365	6508	6653	6800
13	6950	7101	7254	7409	7566	7725	7886	8049	8214	8381
14	8549	8719	8891	9065	9242	9421	9603	9787	9973	10161
15	10350	10548	10732	10926	11122	11320	11520	11722	11926	12132

DISCHARGE IN ACRE FEET.

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1							0.2	0.8	2.0	3.6
2	5.7	7.7	11.3	16.4	23.2	32	42	51	63	75
3	87	101	117	135	154	178	202	226	251	279
4	311	343	376	412	449	489	531	574	620	667
5	717	768	824	879	938	998	1061	1127	1194	1265
6	1338	1414	1491	1570	1653	1738	1828	1919	2012	2107
7	2204	2203	2406	2513	2624	2734	2847	2964	3085	3210
8	3336	3463	3594	3728	3867	4009	4152	4299	4449	4604
9	4760	4916	5077	5241	5411	5585	5760	5938	6120	6306
10	6492	6683	6877	7075	7277	7482	7690	7902	8118	8338
11	8560	8785	9015	9249	9486	9724	9965	10211	10460	10714
12	10969	11229	11494	11765	12040	12322	12603	12886	13173	13464
13	13761	14060	14363	14670	14980	15296	15614	15937	16264	16594
14	16927	17264	17604	17949	18299	18654	19014	19378	19747	20119
15	20493	20885	21249	21633	22022	22414	22810	32210	23613	24021

LITTLE RUAHA AT MAWANDE  
STATION NO. IKA. 31

Available Current Meter Measurements for the Establishment  
of Discharge Rating Curve and Tables.  
The following formula has been fitted to the measurements:-

$$q = 482.2 (h + 1.2)^{1.778}$$

Where  $q$  is observed discharge in cusecs and  $h$  is water level  
in feet.

No.	Date.	Observer	h	q obs.	q calc.	Deviation.	Deviation %
1.	7.3.57	O. Tilrem	3.85	824	859	- 35	- 4.2
2.	9.3.57	"	3.70	804	813	- 9	- 1.1
3.	9.3.57	"	3.70	816	813	+ 3	+ 0.4
4.	10.4.57	"	5.50	1389	1417	- 28	- 2.0
5.	10.4.57	"	5.50	1424	1417	+ 7	+ 0.5
6.	12.6.57	E. Gairdner	3.60	745	785	- 40	- 5.4
7.	5.12.57	H. Singh	0.65	149	144	+ 5	+ 3.4
8.	5.12.57	"	0.65	144	144	0	0.0
9.	5.12.57	"	0.65	140	144	- 4	- 2.8
10.	5.12.57	"	0.65	142	144	- 2	- 1.4
11.	25.1.58	"	2.15	419	414	+ 5	+ 1.2
12.	25.1.58	"	2.15	421	414	+ 7	+ 1.7
13.	21.3.58	O. Tilrem	8.15	2670	2566	+104	+ 3.9
14.	22.3.58	"	10.60	3880	3883	- 3	- 0.0
15.	22.3.58	"	10.25	3580	3680	-100	- 2.8
<u>Check Measurements.</u>							
	14.8.58	H. Singh	2.00	389	381	+ 8	+ 2.2
	14.8.58	"	2.00	395	381	+ 14	+ 3.7
	1.12.58	"	0.50	126	122	+ 4	+ 3.3
	1.12.58	"	0.50	134	122	+ 12	+ 9.8

LITTLE RUAHA AT MAWANDE  
 STATION NO. 1KA.31  
DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	67	76	86	97	109	122	136	151	165	180
1.	195	211	227	244	263	281	299	319	339	360
2.	381	402	424	446	469	492	516	541	566	592
3.	618	645	672	700	728	757	785	813	843	873
4.	904	935	967	999	1032	1065	1098	1132	1166	1201
5.	1236	1271	1307	1343	1380	1417	1455	1494	1533	1573
6.	1613	1653	1694	1735	1776	1818	1860	1903	1946	1989
7.	2033	2077	2122	2167	2213	2259	2305	2352	2399	2447
8.	2495	2543	2592	2641	2691	2741	2791	2842	2893	2945
9.	2997	3049	3102	3155	3209	3263	3317	3372	3427	3483
10.	3539	3595	3652	3709	3767	3825	3883	3942	4001	4060
11.	4120	4180	4241	4302	4363	4425	4487	4549	4612	4675
12.	4739	4803	4867	4932	4997	5063	5129	5195	5262	5329
13.	5396	5464	5532	5600	5669	5738	5808	5878	5948	6019
14.	6090	6162	6234	6306	6379	6452	6525	6598	6672	6746
15.	6821	6896	6971	7047	7123	7200	7277	7354	7432	7510

DISCHARGE IN ACRE FEET PER DAY.

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	133	150	170	192	216	242	269	299	327	356
1.	386	418	449	483	521	556	592	632	671	713
2.	754	796	840	883	929	974	1022	1071	1121	1172
3.	1224	1277	1331	1386	1441	1499	1554	1610	1669	1729
4.	1790	1851	1915	1978	2043	2109	2174	2241	2309	2378
5.	2447	2517	2588	2659	2732	2806	2881	2958	3035	3115
6.	3194	3273	3354	3435	3516	3600	3683	3768	3853	3938
7.	4025	4112	4202	4291	4382	4473	4564	4657	4750	4845
8.	4940	5035	5132	5229	5328	5427	5526	5627	5728	5831
9.	5934	6037	6142	6247	6354	6461	6558	6677	6785	6896
10.	7007	7118	7231	7344	7459	7574	7688	7805	7922	8039
11.	8158	8276	8397	8518	8639	8762	8884	9007	9132	9257
12.	9383	9506	9637	9765	9894	10025	10155	10286	10419	10551
13.	10684	10819	10953	11088	11225	11361	11500	11638	11777	11918
14.	12058	12201	12343	12486	12630	12775	12920	13064	13211	13357
15.	13506	13654	13803	13953	14104	14256	14408	14561	14715	14870

LITTLE RUAHA AT S.H. CLUB  
STATION NO. IKA. 32

Available Current Mtere Measurements for the Establishment of stage discharge curve and tables. A smooth curve has been fitted to the available measurements by a series of differences.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation %
1.	23.3.57	O. Tilrem	10.65	372	373	- 1	- 0.3
2.	6.6.57	E. Gairdner	10.05	302	305	- 3	- 1.0
3.	6.6.57	"	10.05	304	305	- 1	- 0.3
4.	26.6.57	O. Tilrem	9.25	237	236	+ 1	+ 0.4
5.	16.9.57	"	7.22	106	105	+ 1	+ 1.0
6.	11.10.57	"	6.58	62	67	- 5	- 7.5
7.	30.10.57	"	6.20	48	46	+ 2	+ 4.4
8.	30.10.57	"	6.20	47	46	+ 1	+ 2.2
9.	24.4.58	"	10.65	380	372	+ 8	+ 2.2
10.	19.8.58	H. Singh	7.32	112	111	+ 1	+ 0.9
11.	19.8.58	"	7.32	117	111	+ 6	+ 5.5
12.	27.11.58	"	5.775	25	25	0	0.0
13.	27.11.58	"	5.775	26	25	+ 1	+ 4.0
14.	26.1.59	O. Tilrem	7.35	116	113	+ 3	+ 2.7
15.	7.4.59	H. Singh	11.50	488	480	+ 8	+ 1.7
16.	7.4.59	"	11.50	476	480	- 4	- 0.8
17.	18.5.59	"	8.15	157.5	164	- 6.5	- 4.0
18.	18.5.59	"	8.15	157.2	164	- 6.8	- 4.2

LITTLE NUANA AT S.H. CLUB  
 STATION NO. IKA.32  
DISCHARGE IN CUBES

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
5						15	18	22	26	31
6	36	41	46	51	56	62	68	74	80	86
7	92	98	104	110	117	124	130	136	142	148
8	155	161	167	173	180	187	193	199	206	213
9	220	226	233	240	247	254	261	269	278	288
10	300	310	320	331	343	355	367	379	391	403
11	416	428	441	454	467	480	493	506	520	535
12	550	564	579	594	609	624	640	656	672	688

DISCHARGE IN ACRE FEET.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
5						30	36	44	52	61
6	71	81	91	101	111	123	135	147	158	170
7	182	194	206	218	231	245	257	269	281	294
8	307	319	331	343	356	370	382	394	408	422
9	436	447	461	475	489	503	517	533	550	570
10	594	614	634	655	679	703	727	750	774	798
11	824	847	873	899	925	950	976	1002	1030	1059
12	1089	1117	1146	1176	1206	1236	1267	1299	1331	1362

NDEMBERA AT MADIBIRA  
STATION NO. IKA.33

Available Current Meter Measurements for the Establishment of discharge rating curve and tables.  
A smooth curve has been fitted to the measurements by a series of differences.

No.	Date.	Observer.	h	q.obs.	q.calc.	Deviation.	Deviation %
1.	3.12.56	O.Tilrem	3.70	36	36	0	0
2.	14.3.57	"	5.00	315	380	- 65	- 17.1
3.	14.3.57	"	5.00	318	380	- 62	- 16.3
4.	24.10.57	H. Singh	3.60	29	27	+ 2	+ 7.4
5.	27.11.57	"	3.54	22	23	- 1	- 4.3
6.	27.11.57	"	3.54	22	23	- 1	- 4.3
7.	11.3.58	C.Walker	5.00	383	380	+ 3	+ 0.8
8.	12.3.58	"	4.90	318	345	- 27	- 7.8
9.	13.3.58	I.K.Salehe	4.70	287	285	+ 2	+ 0.7
10.	15.3.58	"	4.70	286	285	+ 1	+ 0.4
11.	17.3.58	"	5.00	389	380	+ 9	+ 2.4
12.	19.5.58	C. Walker	4.28	191	167	+ 24	+ 14.4
13.	19.5.58	"	4.26	179	162	+ 17	+ 10.5
14.	20.5.58	"	4.26	182	162	+ 20	+ 12.3
15.	20.5.58	"	4.25	165	160	+ 5	+ 3.1
16.	20.5.58	"	4.26	173	162	+ 11	+ 6.8
17.	21.5.58	"	4.24	177	157	+ 20	+ 12.7
18.	22.5.58	"	4.22	179	152	+ 27	+ 17.7
19.	22.5.58	"	4.32	176	177	- 1	- 0.6
20.	23.5.58	"	4.32	167	177	- 10	- 5.6
21.	23.5.58	"	4.30	169	172	- 3	- 1.7
22.	24.5.58	"	4.30	154	172	- 18	- 10.5
23.	26.5.58	"	4.24	155	157	- 2	- 1.3
24.	26.5.58	"	4.24	152	157	- 5	- 3.2
25.	27.5.58	"	4.24	144	157	- 13	- 8.3
26.	3.6.58	"	4.12	112	127	- 15	- 11.8
27.	4.6.58	"	4.14	118	132	- 14	- 10.6
28.	4.6.58	"	4.14	121	132	- 11	- 8.3
29.	9.8.58	H.Singh	3.80	51	50	+ 1	+ 2.0
30.	9.8.58	H.Singh	3.80	52	50	+ 2	+ 4.0
31.	7.4.59	O.Tilrem	5.70	649	649	0	0

NOTE: Nos. 12 - 28: Levels were taken only u/s and had to be correlated. As water is occasionally drawn off between the gauges, the correspondence is not always representative.

NDEMBERA AT MADIBIRA  
 STATION IKA.33  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
3.	3.8	5.4	7.6	10.6	14.6	20	27	36	50	72
4.	97	122	147	172	197	226	255	285	315	345
5.	380	415	450	485	525	565	607	649	699	751
6.	806	864	925	990	1058	1130	1205	1284	1367	1454
7.	1545	1640	1740	1845	1954	2068	2187	2311	2440	2575
8.	2716	2874	3022	3190	3348	3506	3698	3890	4082	4274

DISCHARGE IN ACRE FEET

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
3.	7.5	10.7	15	21	29	39	53	71	99	143
4.	192	242	291	340	390	447	505	564	623	683
5.	752	822	891	960	1039	1119	1202	1285	1384	1487
6.	1596	1711	1832	1960	2095	2237	2386	2542	2707	2879
7.	3059	3247	3445	3653	3869	4095	4330	4576	4831	5099
8.	5378	5691	6003	6316	6629	6942	7322	7702	8082	8463

HALALI AT TUNDUMA  
STATION No. 1KA.34

Current Meter Measurements available.

No.	Date	Observer	h	q
1	26. 2.58	D.J.Ades	2.30	352.3
2	10. 5.58	"	0.2	88
3	10. 5.58	"	0.2	78
4	29. 8.58	H.S.Majhail	0.9	13
5	29. 8.58	"	0.9	10.56
6	26. 9.58	"	0.7	6.529
7	26. 9.58	"	0.7	5.558
8	23.10.58	"	1.15	1.805
9	28. 1.59	"	0.9	11.4
10	28. 1.59	"	0.9	13.9
11	10. 2.59	"	0.5	30.8
12	10. 2.59	"	0.5	38.3
13	24. 2.59	"	0.35	143.5
14	24. 2.59	"	0.35	144.4
15	18. 3.59	O.Tilrem	0.325	194.6
16	19. 3.59	"	0.90	329.8
17	10. 4.59	"	0.05	230
18	17. 4.59	H.Singh	0.65	185.9
19	26. 3.59	O.Tilrem	3.275	118
20	9. 4.59	H.Singh	2.20	32.5
21	9. 4.59	"	2.20	37.5
22	11. 4.59	O.Tilrem	1.90	18.3
23	17. 4.59	H.Singh	1.45	5.7
24	17. 4.59	"	1.45	5.6
25	6. 1.60	H.S.Majhail	2.80	15.2
26	6. 1.60	"	2.80	16.2

Note: Measurements Nos. 19 - 24 is for Ndege River which has to be added to Halali at Tunduma to get the total outflow from the swamp.



HALALI AT MAJOJOLO  
STATION NO.1KA.36

Available Current Meter Measurements for the establishment of  
discharge rating curve and tables.

A smooth curve has been fitted to the available measurements  
by applying a series of differences.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation%
1.	23.10.58	H.S.Majhail	0.075	2.3	2.2	+ 0.1	+ 4.5
2.	28.1.59	"	1.50	83.3	90	- 6.7	- 7.4
3.	28.1.59	"	1.50	96.5	90	+ 6.5	+ 7.2
4.	10.2.59	"	2.15	227.7	227	+ 0.7	+ 0.3
5.	10.2.59	"	2.15	226.8	227	- 0.2	0
6.	24.2.59	"	2.75	396.2	397	- 0.8	- 0.2
7.	17.3.59	O. Tilrem	3.65	760.9	780	- 19.1	- 2.4
8.	17.3.59	"	3.65	756.5	780	- 23.5	- 3.0
9.	19.3.59	"	3.675	814.2	865	+ 9.2	+ 1.1
10.	24.3.59	"	4.325	2044.0	2097	- 53.0	- 2.6

HALALI AT MAJOJOLO  
 STATION NO. IKA. 36  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0	0	3	6	9	12	16	19	22	26	30
1	35	42	51	62	75	70	106	124	144	166
2	189	214	240	267	294	322	351	381	412	444
3	477	511	546	583	623	667	730	830	960	1120
4	1310	1530	1770	2030	2300	2580	2870	3170	3480	3800
5	4130	4470	4820	5180	5550	5930	6320	6720	7130	7550

DISCHARGE IN ACRE FEET PER DAY

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0	0	6	12	18	24	32	38	44	51	59
1	69	83	101	123	149	178	210	246	285	329
2	374	424	475	529	582	638	695	754	816	879
3	944	1012	1081	1154	1234	1321	1445	1643	1901	2218
4	2594	3029	3505	4019	4554	5108	5683	6277	6890	7524
5	8177	8851	9544	10256	10989	11741	12514	13306	14117	14949

LUKOSI AT MPANDIKA  
STATION NO.1KA.37

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

A smooth curve has been fitted to the available measurements by applying a series of differences

No.	Date.	Observer.	h d/s	q obs.	q calc.	Deviation	Deviation %
1.	25.4.57	C.Walker	7.37	1333	1244	+ 89	+ 7.2
2.	25.4.57	M.Rajabu	7.32	1235	1226	+ 9	+ 0.7
3.	26.4.57	C.Walker	7.00	1272	1120	+152	+ 13.6
4.	27.4.57	C.Walker	6.79	1155	1054	+101	+ 9.6
5.	28.4.57	M.Rajabu	6.65	1002	1013	- 11	- 1.1
6.	29.4.57	M.Rajabu	6.44	1035	954	+ 81	+ 8.5
7.	26.6.57	F.Tabelli	5.00	677	565	+112	+ 19.8
8.	4.1.58	S.Raadsma	4.60	478	475	+ 3	+ 0.6
9.	4.1.58	S.Raadsma	4.57	521	469	+ 52	+ 11.1
10.	6.5.58	H.Singh	7.65	1263	1346	- 83	- 6.2
11.	31.7.58	M.Bhatt	4.84	505	527	- 22	- 4.2
12.	31.7.58	M.Bhatt	4.84	499	527	- 28	- 5.3
13.	4.9.58	M.Bhatt	4.60	472	475	- 3	- 0.6
14.	4.10.58	M.Bhatt	4.30	444	417	+ 27	+ 6.5
15.	5.11.58	M.Bhatt	4.16	368.8	395	- 26.2	- 6.6
16.	5.11.58	M.Bhatt	4.16	379.4	395	- 15.6	- 3.9
17.	2.12.58	S/Boys	4.40	432.5	435	- 2.5	- 0.6
18.	20.2.59	M.Bhatt	4.87	564	534	+ 30	+ 5.6
19.	21.3.59	M.Bhatt	5.46	532.8	689	-156.2	- 22.7
20.	21.3.59	M.Bhatt	5.57	695.2	719	- 23.8	- 3.3
21.	23.3.59	M.Bhatt	5.30	736	646	+ 90	+ 13.9
22.	24.3.59	M.Bhatt	5.10	571.2	592	- 20.8	- 3.5
23.	1.4.59	M.Bhatt	5.80	724	781	- 57	- 7.3
24.	19.4.59	M.Bhatt	5.20	643.8	619	+ 24.8	+ 4.0
25.	19.4.59	M.Bhatt	5.20	629.4	619	+ 10.4	+ 1.7
26.	30.4.59	M.Bhatt	6.75	972.5	1042	- 69.5	- 6.7
27.	30.4.59	M.Bhatt	6.70	920	1027	-107	- 10.4
28.	15.5.59	M.Bhatt	5.20	604.2	619	- 14.8	- 2.4
29.	15.5.59	M.Bhatt	5.20	565.2	619	- 53.8	- 8.7
30.	30.5.59	M.Bhatt	4.48	407.75	451	- 43.25	- 9.6
31.	30.5.59	M.Bhatt	4.48	424.4	451	- 26.6	- 5.9
32.	13.8.59	M.Bhatt	3.90	355	364	- 9	- 2.5
33.	3.9.59	R.Kalito	3.76	355.7	351	+ 4.7	+ 1.3



YOVI AT GREAT RUAHA CONFLUENCE  
 STATION NO. IKA.38  
DISCHARGE IN CUSSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.									17	24
1.	33	43	54	67	80	94	109	125	142	160
2.	178	196	214	232	251	270	289	308	328	348
3.	368	389	410	432	454	477	500			

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.									34	48
1.	65	85	107	132	158	186	216	247	281	316
2.	352	388	424	460	497	535	572	610	649	689
3.	729	770	812	855	899	944	990			

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

A smooth curve has been fitted to the measurements by applying a series of differences.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation %
1.	22.8.57	B. Gemmell	1.57	119.7	104.5	+ 15.2	+ 14.5
2.	2.1.58	J. Rayner	1.70	116.0	125.0	- 9.0	- 7.2
3.	2.1.58	"	1.70	110.9	125.0	- 14.1	- 11.3
4.	4.9.58	H. Bhatt	1.45	96.0	87.0	+ 9.0	+ 10.3
5.	5.11.58	"	1.30	57.5	67.0	- 9.5	- 14.2
6.	2.12.58	"	1.30	73.4	67.0	+ 6.4	+ 9.5
7.	19.2.59	E. Moyle	1.35	74.7	73.5	+ 1.2	+ 1.6
8.	20.2.59	H. Bhatt	1.30	62.3	67.0	- 4.7	- 7.0
9.	20.2.59	"	1.30	68.2	67.0	+ 1.2	+ 1.8
10.	22.3.59	"	1.50	90.3	94.0	- 3.7	- 3.9
11.	22.3.59	"	1.50	90.0	94.0	- 4.0	- 4.2
12.	24.3.59	"	1.50	85.7	94.0	- 8.3	- 8.8
13.	31.3.59	"	1.90	192.9	160.0	+ 32.9	+ 20.6
14.	1.5.59	"	1.75	142.2	133.5	+ 8.7	+ 6.5
15.	1.5.59	"	1.75	135.8	133.5	+ 2.3	+ 1.7
16.	29.5.59	"	1.30	75.5	67.0	+ 8.5	+ 12.7
17.	29.5.59	"	1.30	76.3	67.0	+ 9.3	+ 13.9
18.	14.8.59	"	1.10	43.1	43.0	+ 0.1	0.0
19.	3.9.59	R. Kalito	1.05	43.7	38.0	- 5.7	- 15.0
20.	6.11.59	H. Singh	1.12	38.6	45.2	- 6.6	- 14.6
21.	6.11.59	"	1.12	37.2	45.2	- 8.0	- 17.7
22.	13.12.59	"	2.28	229.0	228.4	+ 0.6	+ 0.3
23.	13.12.59	"	2.185	194.0	211.3	- 17.3	- 8.2

LITTLE RUAHA AT IWAWA  
STATION NO: IKA.39

Available Current Meter Measurements for the Establishment of Stage Discharge Curves and Tables. A smooth curve has been fitted to the available measurements by series of differences.

Date.	Observer.	h	qobs.	qcalc	Deviation	Deviation %
12.4.57	O. Tilrem	9.45	908	898	+ 10	+ 1.1
"	"	9.45	894	898	- 4	- 0.4
17.4.57	"	12.55	2170	2170	0	0.0
24.4.57	"	11.05	1330	1330	0	0.0
30.10.57	"	5.45	119	117	+ 2	+ 1.7
"	"	5.45	119	117	+ 2	+ 1.7
23.1.58	"	6.775	291	282	+ 9	+ 3.2
"	"	6.775	290	282	+ 8	+ 2.8
7.4.58	H. Singh	11.10	1272	1345	- 73	- 5.4
"	"	11.10	1290	1345	- 55	- 4.1
21.8.58	"	6.55	227	252	- 25	- 9.9
"	"	6.55	232	252	- 20	- 7.9
28.11.58	"	4.85	65	67	- 2	- 3.0
"	"	4.85	68	67	+ 1	+ 1.5

## LITTLE RUANA AT IWAWA

STATION NO: IKA.39

DISCHARGE IN CUSECS

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
4						46	51	57	64	71
5	79	87	95	103	112	121	131	141	152	163
6	174	186	199	212	226	240	255	270	286	303
7	320	338	356	375	395	415	436	457	479	502
8	525	549	573	597	622	647	672	698	724	750
9	777	803	830	857	884	911	937	964	991	1018
10	1045	1071	1098	1125	1152	1179	1206	1233	1261	1288
11	1316	1345	1377	1411	1450	1492	1538	1586	1638	1692
12	1748	1810	1877	1951	2034	2125	2216	2328	2452	2589

DISCHARGE IN ACRE FEET PER DAY

h	.0	.1	.2	.3	.4	.5	.6.	.7	.8	.9
4						91	101	113	127	141
5	156	172	188	204	222	240	259	279	301	323
6	335	368	394	420	447	475	505	535	566	600
7	634	669	705	743	782	822	863	905	948	994
8	1040	1087	1135	1182	1232	1281	1331	1382	1434	1485
9	1538	1590	1643	1697	1750	1804	1855	1909	1962	2016
10	2069	2121	2174	2228	2281	2334	2388	2441	2497	2550
11	2606	2663	2726	2794	2871	2954	3045	3140	3243	3350
12	3461	3584	3716	3863	4027	4208	4388	4609	4855	5126

CHIMALA AT CHOSI FURROW  
STATION No. 1KA.40

Available Current Meter Measurements in Chosi  
Furrow branching out from Chimala River.

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No.	Date	Observer	h	q
1	7.10.57	D.J.Ades	1.0	4.2
2	16.10.57	"	0.95	3.23
3	24.10.57	"	0.85	3.27
4	25.11.57	"	1.0	4.64
5	4. 9.58	H.S.Majhail	0.95	1.857
6	17.10.58	"	0.95	2.293
7	7.11.58	"	0.95	1.9
8	25.11.58	"	1.2	8.5
9	4.12.58	"	1.25	10.
10	3. 2.59	"	1.70	31.8
11	4. 2.59	"	1.50	32.1
12	16. 2.59	"	1.35	20.5
13	5. 6.59	"	1.575	2.5
14	24. 6.59	"	1.43	1.4
15	14. 8.59	"	1.6	1.7
16	5. 9.59	"	1.52	1.2
17	7.12.59	"	1.70	3.5
18	4. 1.60	"	1.90	14.4
19	4. 1.60	"	1.90	13.4
20	20. 1.60	"	2.00	27.2
21	20. 1.60	"	2.00	26.1



KISIGO AT ILANGALI  
STATION NO. IKA.41

Available Current Meter Measurements for the Establishment of discharge rating curve and tables.  
A smooth curve has been fitted to the measurements by a series of differences.

No.	Date.	Observer.	h.	q obs.	q calc.	Deviation.	Deviation %
1.	10.2.58	H. Singh	1.55	16	-	-	-
2.	10.2.58	"	1.55	16	-	-	-
3.	14.2.58	"	3.45	303	291	+ 12	+ 5.5
4.	14.2.58	"	3.28	260	258	+ 2	+ 0.8
5.	16.2.58	"	5.55	859	839	+ 20	+ 2.4
6.	16.2.58	"	5.65	895	878	+ 17	+ 1.9
7.	18.2.58	"	4.37	480	480	0	0
8.	18.2.58	"	4.34	465	472	- 7	- 1.5
9.	20.2.58	"	5.85	951	957	- 6	- 0.6
10.	23.2.58	"	7.42	1534	1627	- 93	- 5.7
11.	23.2.58	"	7.44	1581	1636	- 55	- 3.4
12.	21.4.58	"	1.65	5	5	0	0.0
13.	22.3.59	"	2.39	106	104	+ 2	+ 1.9
14.	22.3.59	"	2.37	100	101	- 1	- 1.0
15.	24.3.59	"	6.48	1240	1222	+ 18	+ 1.5
16.	24.3.59	"	6.63	1300	1286	+ 14	+ 1.1
17.	25.3.59	"	8.05	1918	1903	+ 15	+ 0.8
18.	25.3.59	"	8.15	1918	1947	- 29	- 1.5

KISIGO AT ILANGALI  
STATION NO/IKA.41  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.						1	3	8	17	30
2.	45	60	75	90	105	120	136	152	169	187
3.	205	224	243	262	281	300	320	340	360	380
4.	400	420	441	463	486	510	536	563	591	620
5.	650	681	713	747	783	820	858	897	937	978
6.	1020	1062	1104	1146	1188	1230	1273	1316	1359	1402
7.	1445	1488	1531	1574	1618	1662	1705	1749	1793	1837
8.	1881	1925	1969	2013	2057	2102	2146	2190	2235	2280
9.	2325	2370	2415	2460	2505	2550	2595	2640	2685	2731
10.	2777	2822	2868	2914	2960	3006	3052	3098	3144	3190

DISCHARGE IN ACRES FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.						2	6	16	34	59
2.	89	119	148	178	208	238	269	301	335	370
3.	406	443	481	519	556	594	634	673	713	753
4.	793	832	874	917	962	1010	1061	1115	1170	1227
5.	1287	1348	1412	1479	1549	1622	1698	1776	1855	1936
6.	2019	2103	2186	2269	2352	2436	2521	2606	2691	2776
7.	2861	2946	3031	3117	3203	3289	3376	3463	3550	3637
8.	3724	3811	3898	3986	4073	4161	4248	4336	4425	4514
9.	4603	4693	4782	4871	4960	5049	5138	5227	5317	5407
10.	5497	5588	5679	5770	5861	5952	6043	6134	6225	6316

KISIGO RIVER AT KINUNGURU  
STATION NO: 1KA.42

Available Current Meter Measurements for the Establishment of  
discharge rating curve and tables.

A smooth curve has been fitted to the available measurements by  
applying a series of differences. For water levels higher than 4.5,  
the following formula also applies :-

$$q = 30.58 h^{2.384}$$

No.	Date.	Observer	h	q obs.	q calc.	Deviation.	Devation %
1.	7.2.58	H. Singh	1.825	47.1	52.5	- 5.4	- 10.3
2.	7.2.58	"	1.825	45.1	52.5	- 7.4	- 14.1
3.	1.3.58	"	4.375	924.0	923	+ 1.0	+ 0.1
4.	1.3.58	O. Tilrem	4.35	922.0	907	+ 15.0	+ 1.6
5.	19.1.59	H. Singh	4.285	724.0	862	-138.0	- 16.0
6.	19.1.59	"	4.265	700.0	849	-149.0	- 17.5
7.	21.1.59	"	3.27	294.0	301	- 7.0	- 2.3
8.	21.1.59	"	3.25	306.0	293	+ 13.0	+ 4.4
9.	23.1.59	"	2.73	160.0	147	+ 13.0	+ 8.8
10.	23.1.59	"	2.71	146.0	143	+ 3.0	+ 2.1
11.	26.1.59	"	2.12	74.6	72	+ 2.6	+ 3.6
12.	26.1.59	"	2.12	74.5	72	+ 2.5	+ 3.5
13.	31.1.59	"	1.58	38.5	40	- 1.5	- 3.7
14.	31.1.59	"	1.58	38.3	40	- 1.7	- 4.2
15.	25.2.59	"	3.835	576	581	- 5.0	- 0.1
16.	25.2.59	"	3.865	616	598	+ 18.0	+ 3.0
17.	7.3.59	"	4.75	1178	1192	- 14.0	- 1.2
18.	7.3.59	"	4.75	1219	1192	+ 27.0	+ 2.3
19.	9.3.59	"	8.85	5530	5530	0	0
20.	9.3.59	"	8.75	5495	5385	+110.0	+ 2.0
21.	10.3.59	"	6.785	3029	3032	- 3.0	- 0.1
22.	10.3.59	"	6.825	2918	2980	- 62.0	- 2.1

KISIGO RIVER AT KINUNURU  
STATION NO. LKA.42  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0								1	3	7
1	11	16	21	26	31	36	41	46	51	57
2	63	70	78	87	98	110	124	141	161	184
3	210	240	274	312	354	401	451	504	560	619
4	680	742	806	872	941	1012	1083	1155	1228	1302
5	1377	1454	1533	1614	1696	1780	1862	1944	2026	2109
6	2192	2277	2365	2457	2552	2651	2751	2852	2954	3058
7	3163	3270	3380	3493	3610	3730	3850	3972	4096	4222
8	4350	4481	4614	4749	4886	5025	5166	5310	5457	5606
9	5758	5911	6067	6226	6387	6551	6716	6883	7052	7224
10	7399	7577	7758	7942	8129	8318	8509	8702	8897	9094
11	9294	9495	9699	9906	10116	10330	10546	10765	10987	11212
12	11440	11668	11898	12130	12364	12600	12840	13084	13332	13584
13	13840	14096	14354	14614	14876	15140	15408	15679	15953	16230
14	16510	16792	17078	17368	17662	17960	18258	18557	18857	19158

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0								2	6	14
1	22	32	42	51	61	71	81	91	101	113
2	125	139	154	172	194	218	246	279	319	364
3	416	475	543	618	701	794	893	998	1109	1226
4	1346	1469	1596	1727	1863	2004	2144	2287	2431	2578
5	2726	2879	3035	3196	3358	3524	3687	3849	4011	4176
6	4340	4508	4683	4865	5053	5249	5447	5647	5849	6055
7	6263	6475	6692	6916	7148	7385	7623	7865	8110	8360
8	8613	8872	9136	9403	9674	9949	10229	10514	10805	11100
9	11401	11704	12013	12327	12646	12971	13298	13628	13963	14303
10	14650	15002	15361	15725	16095	16470	16848	17230	17616	18006
11	18402	18800	19204	19613	20030	20453	20881	21315	21754	22200
12	22651	23103	23558	24017	24480	24948	25423	25906	26397	26896
13	27403	27910	28421	28936	29454	29977	30508	31044	31587	32135
14	32690	33248	33814	34389	34971	35561	36151	36743	37337	37933

NJOMBE AT ISANGA  
STATION No. 1KA.43

Current Meter Measurements available.

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No.	Date	Observer	h	q
1	6. 3.58	D.J.Ades	1.10	1.84
2	6. 3.58	"	1.10	1.98
3	30. 4.58	"	2.08	14.7
4	30. 4.58	"	2.08	13.2
5	27. 2.59	H.S.Majhail	3.30	30.9
6	27. 2.59	O.Tilrem	3.17	27.9

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IPATAGWA AT NEW ROAD  
STATION No. 1KA.45

Current Meter Measurements available.

No.	Date	Observer	h	q
1	30. 9.58	H.S.Majhail	0.2	6
2	16.10.58	"	0.2	6
3	6.11.58	"	0.45	4.5
4	28.11.58	"	0.46	5.7
5	20. 1.59	"	0.80	11.9
6	2. 2.59	"	0.9	12.4
7	12. 2.59	"	0.95	15.4
8	12. 2.59	"	0.95	19.5
9	19. 2.59	"	1.00	16.8
10	22. 4.59	G.S.Tasker	1.00	26.2
11	30. 4.59	"	1.20	49.2
12	12. 5.59	"	0.95	32.3
13	27. 5.59	"	0.70	19.7
14	15. 7.59	H.S.Majhail	0.70	10.8
15	15. 7.59	"	0.70	9.3
16	14. 8.59	"	0.80	7.6
17	2. 9.59	"	0.72	5.9
18	8.10.59	"	0.80	7.7
19	8.10.59	"	0.80	8.1
20	5.11.59	"	0.70	5.7
21	27.11.59	"	0.90	8.2
22	14.12.59	"	0.80	9.7
23	4. 1.60	"	0.45	6.7
24	4. 1.60	"	0.45	6

HALALI AT IYAYI (Upstream)  
STATION NO. IKA.46

Available Current Meter Measurements for the Establishment of discharge rating curve and tables.

The following formula has been fitted to the measurements:-

$$q = 0.121 (h + 0.5)^{3.099}$$

Where q is observed discharge in cusecs and h water level in feet on the upstream gauge.

No.	Date.	Observer.	h	q. obs	q calc.	Deviation.	Deviation %
1.	7.2.58	D.J. Ades	2.96	58	57	+ 1	+ 1.8
2.	3.3.58	H. van Ark	3.10	57	65	- 8	- 12.3
3.	3.3.58	"	3.00	62	59	+ 3	+ 5.1
4.	14.3.58	D.J. Ades	3.70	105	103	+ 2	+ 1.9
5.	8.4.58	"	4.2	178	147	-	-
6.	8.4.58	"	4.2	172	147	-	-
7.	4.5.58	H. van Ark	3.1	90	65	-	-
8.	4.5.58	"	3.1	95	65	-	-
9.	10.5.58	"	2.70	67	44	-	-
10.	10.5.58	"	2.70	69	44	-	-
11.	19.5.58	"	2.50	55	36	-	-
12.	19.5.58	"	2.50	57	36	-	-
13.	6.6.58	D.J. Ades	2.10	32	24	-	-
14.	6.6.58	"	2.10	36	24	-	-
15.	8.8.58	"	1.55	14	11	-	-
16.	24.9.58	H.S. Majhail	1.42	8.9	9.2	- 0.3	- 3.3
17.	22.1.59	"	1.70	12.3	13	- 0.7	- 5.4
18.	3.2.59	"	3.40	85	83	+ 2	+ 2.4
19.	9.2.59	"	2.65	48	42	+ 6	+ 14.3
20.	9.2.59	"	2.65	39	42	- 3	- 7.1
21.	17.2.59	"	2.90	54	54	0	0.0
22.	17.2.59	"	2.90	49	54	- 5	- 9.3
23.	23.2.59	"	3.50	97	89	+ 8	+ 9.0
24.	23.2.58	"	3.50	91	89	+ 2	+ 2.2
25.	6.3.59	"	3.85	129	115	+ 14	+ 12.2
26.	11.3.59	O. Tilrem	3.70	102	103	- 1	- 1.0
27.	23.3.59	"	5.50	312	312	0	0.0
28.	27.3.59	"	8.45	1077	1077	0	0.0

Note: Measurements taken between 14/3 and 24/9 differ from the established curve. Adjustment for this is made in calculations of run-off.





LIOSI (LUNWA) AT NEWROAD  
STATION NO. IKA.48

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

The control section consists of four 9 ft diameter corrugated iron pipes installed by the P.W.D., and the water levels are read a few yards above inlet of the pipes, midstream gauge.

No.	Date.	Observer.	h	q obs	q calc.	Deviation.	Deviation %
1.	17.10.58	H.S.Majhail	0.00	0	0	-	-
2.	2.2. 59	"	1.20	86	78	+ 8	+ 10.3
3.	2.2. 59	"	1.20	86	78	+ 8	+ 10.3
4.	5.2. 59	"	1.45	118	123	- 5	- 4.1
5.	5.2. 59	"	1.45	130	123	+ 7	+ 5.7
6.	12.2.59	"	1.30	89	96	- 7	- 7.3
7.	9.3.59	"	2.35	301	301	- 0	- 0
8.	11.6.59	"	0.78	9.3	9.3	- 0	- 0

LIOSI (JUNWA) AT NEW ROAD  
STATION NO. IKA.48  
DISCHARGE IN CUSEGS

Water levels refer to readings taken at the inlet of pipes  
(midstream gauge)

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	0	0	0.5	1.0	2.0	3.0	4.5	6.5	10	27
1.	44	61	78	96	114	132	151	170	184	208
2.	227	247	268	290	313	336	363	391	421	452
3.	484	517	551	586	622	658	694	730	766	802
4.	839	877	915	953	991	1030	1069	1108	1147	1185
5.	1223	1261	1299	1337	1375	1413	1451	1489	1526	1563
6.	1600	1637	1674	1710	1746	1782	1817	1851	1884	1916

DISCHARGE IN ACRE FEET PER DAY

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	0	0	1	2	4	6	9	13	20	53
1.	87	121	154	190	226	261	299	337	374	412
2.	449	489	531	574	620	665	719	774	834	895
3.	958	1024	1091	1160	1332	1303	1374	1445	1517	1588
4.	1661	1736	1812	1887	1962	2039	2117	2194	2271	2346
5.	2422	2497	2572	2647	2723	2798	2873	2948	3021	3095
6.	3168	3241	3315	3386	3457	3528	3598	3665	3730	3794

MAMBI AT NEW ROAD.  
STATION NO. IKA.47

Available Current Meter measurements for the establishment of discharge rating curve and tables.

The control section consists of four 9 ft diameter corrugated iron pipes installed by the P.W.D and the water levels are read on the u/s gauge, 68 ft from the inlet of the culverts.

No.	Date.	Observer.	h	q obs.	q calo.	Deviation.	Deviation %
1.	16.10.58	H. S. Majhail	0.38	2.9	2.8	+ 0.1	+ 3.6
2.	28.11.58	"	0.30	1.8	1.8	0	0.0
3.	20.1.59	"	1.04	36	44	- 6	-13.7
4.	2.2.59	"	1.20	64	72	- 8	-11.1
5.	5.2.59	"	1.25	86	81	+ 5	+ 6.2
6.	5.2.59	"	1.25	82	81	+ 1	+ 1.2
7.	9.3.59	"	1.80	183	183	0	0.0
8.	11.6.59	"	0.85	17	17	0	0.0

MAMBI AT NEW ROAD  
 STATION NO. IKA. 49  
DISCHARGE IN CUSECS

Water levels refer to readings on upstream gauge

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	0	0.5	1.0	1.8	3.0	4.3	5.9	8	12	24
1.	38	54	72	90	108	126	145	164	183	202
2.	221	241	262	284	307	330	357	385	415	446
3.	478	511	545	580	616	652	688	724	760	796
4.	833	871	909	947	985	1023	1063	1102	1141	1179
5.	1217	1255	1293	1331	1369	1407	1446	1483	1520	1557
6.	1593	1631	1668	1704	1740	1776	1811	1845	1878	1910

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	0	1	2	4	6	9	12	16	24	48
1.	75	107	143	178	214	249	287	325	362	400
2.	438	477	519	562	608	653	707	762	822	883
3.	946	1012	1079	1148	1220	1291	1362	1434	1505	1576
4.	1649	1725	1800	1875	1950	2026	2105	2182	2259	2334
5.	2410	2485	2560	2635	2711	2786	2863	2936	3010	3083
6.	3154	3229	3303	3374	3445	3516	3586	3653	3711	3780

MSWISWI AT NEW ROAD  
STATION No. 1KA.50

Current Meter Measurements available.

No.	Date	Observer	h	q
1	20. 5.58	D.J.Ades	0.0	59.8
2	20. 5.58	"	0.0	53.5
3	5. 6.58	"	-	32.2
4	25. 6.58	"	1.5	19.9
5	3. 9.58	H.S.Majhail	1.325	8.8
6	3. 9.58	"	1.325	8.9
7	16.10.58	"	1.20	7
8	28.11.58	"	1.15	6
9	20. 1.59	"	1.50	41.9
10	20. 1.59	"	1.50	40.7
11	2. 2.59	"	1.80	75.4
12	5. 2.59	"	1.82	89.6
13	5. 2.59	"	1.82	88.9
14	12. 2.59	"	1.75	85.5
15	15. 7.59	"	1.02	21.1
16	14. 8.59	"	0.95	16.6
17	8.10.59	"	0.98	15.1
18	8.10.59	"	0.98	14.3
19	5.11.59	"	0.88	8.5
20	14.12.59	"	1.25	44.8
21	4. 1.60	"	0.95	13.7
22	4. 1.60	"	0.95	12.8

UMROBO AT NEW ROAD  
STATION No. 1KA.51

Current Meter Measurements available

No.	Date	Observer	h	q
1	16.10.58	H.S.Majhail	0.70	8.2
2	6.11.58	"	0.65	6.8
3	28.11.58	"	0.64	4.4
4	28.11.58	"	0.64	5.3
5	20. 1.59	"	0.50	10.1
6	12. 2.59	"	0.50	24.1
7	12. 2.59	"	0.50	17.2
8	19. 2.59	"	0.40	10.1
9	15. 7.59	"	0.60	10.8
10	14. 8.59	"	0.525	10.3
11	2. 9.59	"	0.475	6.3
12	8.10.59	"	0.625	5.8
13	5.11.59	"	0.50	5.1
14	27.11.59	"	0.60	6.3
15	4. 1.60	"	0.48	6.1
16	4. 1.60	"	0.48	5.5

MSOLWA AT MSOLWA ESTATE  
STATION No. 1KB.1

Current Meter Measurements available.

No.	Date	Observer	h	q
1	7. 7.54	F.W.D.	1.43	14.09 *
2	22. 4.55	M.P.F.	2.00	47.88 *
3	7. 8.55	M.Savy	0.70	18.8 *
4	11.12.55	J.Otnes	0.05	4.6
5	7. 2.56	M.Savy	0.64	26.6
6	4. 3.56	"	0.92	53.5
7	8. 4.56	"	1.20	81.5
8	28. 4.56	M.Savy	2.02	200
9	31. 5.56	G.A.Fredericks	1.30	95.5
10	12. 6.56	"	1.30	94.2
11	26. 6.56	"	0.94	58.3
12	4. 7.56	M.Savy	0.70	33.2
13	30. 7.56	"	0.30	16.6
14	6. 9.56	"	0.10	8.49
15	18. 9.56	"	0.10	7.3
16	4.10.56	"	0.05	6.2
17	1. 2.57	"	0.35	11.65
18	13. 2.57	"	0.25	13.7
19	13. 3.57	F.Tabelli	0.20	8.83

\* Plotting on the rating curve graph show these readings to be inconsistent with the remainder.

KILOMBERO RIVER AT IFAKARA  
STATION No. 1KB.2

Available Current Meter Measurements for the Establishment  
of Discharge Rating Curve and Tables.

A smooth curve is fitted to the measurement by using a  
series of differences.

No.	Date	Observer	W/L	q obs.	q Calc	Diff.	% Diff.	Remarks
1	31.12.54	J.Germeshuisen	1.5	2914	3156	- 242	- 7.7	
2	12. 8.55	M.Savy	3.5	2421	-	-	-	Definitely wrong.
3	13.12.55	J.Otnes	1.7	3290	3289	+ 1	0.0	
4	6. 8.56	M.Savy	7.9	9762	10073	- 311	- 3.1	
5	13. 8.56	"	7.6	10125	9596	+ 529	+ 5.2	
6	26. 8.56	"	6.3	8188	7744	+ 444	+ 5.5	
7	4. 9.56	"	6.4	7388	7876	- 488	- 6.2	
8	24. 9.56	"	5.6	6810	6865	- 55	- 0.8	
9	2.10.56	"	5.4	6444	6630	- 184	- 2.8	
10	26. 2.57	F.Tabelli	9.2	12132	12375	- 243	- 2.0	
11	4. 4.57	"	10.3	14560	14674	- 114	- 0.8	
12	9. 4.57	"	11.9	18340	18551	- 211	- 1.1	
13	1. 5.57	"	21.3	97100	97053	+ 47	0.0	Estimation.
14	29. 5.57	"	18.4	54600	54472	+ 128	+ 0.2	"
15	26. 6.57	"	11.0	14768	-	-	-	
16	20. 7.57	J.Wilson	8.2	10830	10574	+ 256	+ 2.4	
17	9. 8.57	"	7.4	9580	9290	+ 290	+ 3.0	
18	26. 8.57	"	6.5	8016	8010	+ 6	+ 0.1	

Check measurements taken after establishment of curve.

19	8.11.57	J.W.Rayner	3.85	4848	5012	- 164	- 3.3	
20	13. 1.58	S.Raadsma	6.425	9630	7916	+1714	+21.7	
21	23. 8.59	H.Bhatt	3.80	5274	4965	+ 309	+ 6.2	
22	16.11.59	H.Singh	2.06	3075	3538	- 463	- 1.3	



KILOMBERO AT IFAKARA  
 STATION No. 1KB.2  
DISCHARGE IN CUSECS.

h.	0	1	2	3	4	5	6	7	8	9
1	2841	2902	2964	3027	3091	3156	3222	3289	3357	3426
2	3495	3566	3638	3711	3786	3862	3939	4018	4098	4179
3	4262	4346	4431	4517	4604	4692	4782	4873	4965	5058
4	5153	5249	5347	5446	5547	5649	5753	5858	5965	6072
5	6180	6289	6402	6515	6630	6747	6865	6985	7101	7231
6	7357	7485	7614	7744	7876	8010	8145	8282	8420	8560
7	8702	8846	8992	9140	9290	9442	9596	9752	9911	10073
8	10238	10405	10574	10744	10916	11090	11266	11444	11625	11809
9	11995	12184	12375	12569	12766	12966	13169	13374	13485	13795
10	14011	14229	14450	14674	14901	15131	15364	15600	15840	16085
11	16334	16580	16826	17072	17318	17565	17812	18059	18306	18551
12	18800	19055	19315	19580	19851	20128	20411	20700	20994	21294
13	21600	21910	22225	22546	22873	23206	23545	23891	24243	24601
14	24965	25339	25739	26146	26560	26980	27406	27838	28276	28720
15	29170	29630	30107	30601	31112	31644	32194	32762	33348	33952
16	34538	35168	35812	36471	37135	37814	38510	39211	39947	40688
17	41444	42218	43013	43828	44667	45532	46425	47348	48803	49292
18	50319	51330	52378	53425	54472	55617	56713	57971	59279	60612
19	61970	63114	63312	65558	66854	68200	69546	70964	72454	74016
20	75650	77160	78695	80255	81840	83450	85060	86696	88360	90050
21	91770	93483	95247	97053	98904	100800	102696	104642	106638	108684

KILOMBERO RIVER AT IFAKARA  
 STATION No. 1KB.2  
DISCHARGE IN ACRE FEET PER DAY.

	0	1	2	3	4	5	6	7	8	9
1	5625	5746	5869	5993	6120	6249	6580	6512	6647	6783
2	6920	7061	7203	7348	7496	7647	7799	7956	8114	8274
3	8439	8605	8773	8944	9116	9290	9468	9649	9831	10015
4	10203	10393	10587	10783	10983	11185	11391	11599	11811	12023
5	12236	12452	12676	12900	13127	13359	13593	13830	14060	14317
6	14567	14820	15076	15383	15594	15860	16127	16398	16672	16949
7	17230	17515	17804	18097	18394	18695	19000	19309	19624	19945
8	20271	20602	20937	21273	21614	21958	22307	22659	23018	23382
9	23750	24124	24503	24887	25277	25673	26075	26481	26896	27314
0	27742	28173	28611	29055	29504	29959	30431	30888	31363	31848
1	32341	32828	33315	33803	34290	34779	35268	35757	36246	36731
2	37224	37729	38244	38768	39305	39853	40414	40986	41568	42162
3	42768	43382	44006	44641	45289	45948	46619	47304	48001	48710
4	49431	50171	50963	51769	52589	53420	54264	55119	55986	56866
5	57757	58667	59612	60590	61602	62655	63744	64869	66029	67225
6	68385	69633	70908	72106	73527	74872	76250	77638	79095	80562
7	82059	83592	85166	86779	88441	90153	91922	93749	95640	97598
8	99632	10163	10371	10578	10785	11012	11229	11478	11737	12001
9	122700	124970	127340	129800	132370	135040	137700	140510	143460	146550
0	149390	152780	155820	158900	162040	165230	168420	171660	174950	178300
1	181700	185100	188600	192160	195830	199580	203340	207190	211140	215190

LUMEMO AT IFAKARA.  
STATION No. 1KB.3

Available Current Meter Measurements for the Establishment  
of the Discharge Rating Curves and Tables.

No.	Date	Observer	W/L	q obs.	q Calo.	Diff.	o/o Diff.
1	5.11.55	M.Savy	2.60	172	174	- 2	- 1.1
2	10.12.55	J.Otnes	2.00	87	91	- 4	- 4.4
3	20. 1.56	M.Savy	2.41	267	148	(+ 119	(+ 446)
4	21. 1.56	"	4.10	361	387	- 26	- 6.7
5	5. 2.56	"	3.47	295	296	- 1	- 0.3
6	10. 3.56	"	6.97	758	822	- 64	- 7.8
7	11. 3.56	"	6.55	850	756	(+ 94	( - 11.1)
8	13. 3.56	"	5.60	660	610	+ 50	+ 7.6
9	22. 3.56	"	4.31	415	417	- 2	- 0.5
10	26. 3.56	"	4.21	403	402	+ 1	+ 0.2
11	9. 4.56	"	6.80	799	795	+ 4	+ 0.5
12	14. 6.56	G.A.Frederick	5.15	551	543	+ 8	+ 1.5
13	14. 6.56	M.Savy	5.17	585	546	+ 39	+ 6.7
14	12. 7.56	"	3.92	345	361	- 16	- 4.4
15	2. 8.56	"	3.50	317	301	+ 16	+ 5.0
16	3. 8.56	"	3.45	326	294	+ 32	+ 9.8
17	16. 8.56	"	3.20	201	258	(- 57	- 22.1)
18	28. 5.56	"	3.00	211	230	- 19	- 8.3
19	3. 9.56	"	2.85	200	209	- 9	- 4.3
20	1.10.56	"	2.55	166	167	- 1	- 0.6
21	21. 9.56	"	2.55	171	167	+ 4	+ 2.3
22	7. 1.57	B.P.Gemmell	3.50	303	301	+ 2	+ 0.7
23	7. 1.57	"	5.16	518	544	- 26	- 4.8
24	9. 1.57	"	5.50	574	595	- 21	- 3.5
25	23. 1.57	"	6.35	690	724	- 34	- 4.7
26	24. 1.57	"	5.95	670	663	+ 7	+ 1.0
27	25. 1.57	"	4.30	484	416	+ 68	+ 14.0
28	25. 1.57	"	4.15	462	394	+ 68	+ 14.7
29	10.12.56	M.Savy	1.90	109	77	(+ 32	+ 29.4)
30	31. 1.57	"	5.20	570	550	+ 20	+ 3.5
31	12. 2.57	"	3.35	294	279	+ 15	+ 5.1
32	2. 4.57	F.Tabelli	11.00	1598	1598	0	0
33	2. 4.57	"	11.42	1715	1716	- 1	- 0.1
34	8. 4.57	"	10.65	1501	1502	- 1	- 0.1

LUNEMO AT IFAKARA  
 STATION No. 1KB.3  
DISCHARGE IN CUSECS.

h.	0.0	1	2	3	4	5	6	7	8	9
1						23	36	49	63	77
2	91	104	118	132	146	160	174	188	202	216
3	230	244	258	272	286	301	315	329	343	358
4	373	387	401	416	431	446	460	475	490	505
5	520	535	550	565	580	595	610	625	640	655
6	671	686	701	716	732	748	763	779	795	811
7	827	843	859	875	891	908	924	940	957	974
8	991	1008	1025	1042	1059	1076	1093	1110	1127	1145
9	1163	1181	1199	1217	1235	1253	1272	1291	1310	1329
10	1348	1369	1391	1414	1438	1463	1489	1516	1543	1570
11	1598	1626	1654	1682	1711	1740	1770	1800	1830	1860
12	1890	1921	1953	1985	2017	2050	2083	2117	2151	2185
13	2220	2255	2291	2327	2363	2400	2437	2475	2513	2551
14	2590	2629	2669	2709	2749	2790	2831	2873	2915	2957

LUMENO AT IFAKARA  
 STATION No. 1KB.3  
DISCHARGE IN ACRE FEET PER DAY.

h	0	1	2	3	4	5	6	7	8	9
1						46	71	97	125	152
2	180	206	234	261	289	317	345	372	400	428
3	455	483	511	539	566	596	624	651	679	709
4	739	766	794	824	853	883	911	941	970	1000
5	1030	1059	1089	1119	1148	1178	1208	1238	1267	1297
6	1329	1358	1388	1418	1449	1481	1511	1542	1574	1606
7	1637	1669	1701	1733	1764	1798	1830	1861	1895	1929
8	1962	1996	2030	2063	2097	2130	2164	2198	2231	2267
9	2303	2338	2374	2410	2445	2481	2519	2556	2594	2631
10	2669	2711	2754	2800	2847	2897	2948	3002	3055	3109
11	3164	3219	3275	3330	3388	3445	3505	3564	3623	3683
12	3742	3804	3867	3930	3994	4059	4124	4192	4259	4326
13	4396	4465	4536	4607	4679	4752	4825	4901	4976	5051
14	5128	5205	5285	5364	5443	5524	5605	5689	5772	5855

KILIMBERO AT IFWEMA  
STATION NO. IKB.4

Available Current Meter measurements for the establishment of Discharge Rating Curve and Tables. Smooth curves have been fitted to the measurements by applying series of differences.

Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation %
2.1.55	M. Savy	0.05	2472	2380	+ 92	+ 3.9
2.1.55	M. Savy	0.05	2392	2380	+ 12	+ 0.5
16.12.55	J. Otnes	2.75	5350	5245	+105	+ 2.0
16.12.55	M. Savy	2.86	5200	5360	-160	- 3.0
April '56	R. Katito	11.47	17814	17818	+ 4	+ 0.0
29.8.56	M. Savy	2.80	5333	5300	+ 33	+ 0.6

NOTE: R. Katito took 13 measurements in April 1956 at water levels between 10.55 and 12.85. The figure given is the average of all these data.

After April 1957 the measurement lies on another curve.

20.5.58	F. Tabelli	6.90	9544	9560	- 16	- 0.2
15.7.58	H. Singh	3.65	5618	5710	- 92	- 1.6
15.7.58	M. Bhatt	3.65	5922	5710	+212	+ 3.7
1.11.58	M. Bhatt	1.20	3021	3030	- 9	- 0.3
1.11.58	M. Bhatt	1.20	3039	3030	+ 9	+ 0.3
25.11.58	M. Bhatt	1.10	3174	2940	+234	+ 8.0
29.3. 59	S. Raadsma	9.20	13032	13030	+ 2	+ 0.0

KILOMBERO AT IFWEMA  
STATION NO. LKB.4  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
-0	2330	2240	2150	2060	1970					
0.	2330	2430	2530	2630	2730	2830	2930	3030	3130	3230
1.	3330	3430	3530	3630	3730	3830	3940	4050	4160	4270
2.	4380	4490	4600	4710	4830	4950	5070	5190	5300	5420
3.	5540	5650	5770	5890	6000	6120	6240	6360	6480	6600
4.	6720	6830	6950	7070	7190	7310	7430	7550	7670	7790
5.	7910	8020	8140	8260	8380	8500	8620	8740	8850	8970
6.	9090	9200	9320	9440	9560	9690	9820	9950	10080	10210
7.	10340	10470	10600	10730	10860	11000	11140	11280	11420	11560
8.	11700	11840	11990	12140	12290	12440	12590	12740	12900	13060
9.	13220	13380	13540	13710	13880	14050	14220	14390	14560	14740
10.	14930	15100	15280	15460	15640	15830	16020	16210	16400	16590
11.	16790	16990	17200	17420	17650	17890	18140	18400	18670	18950
12.	19230	19520	19820	20130	20450	20780	21120	21470	21830	22200
13.	22580	22970	23370	23780	24200	24630	25070	25520	25980	26450
14.	26930	27420	27920	28430	28950					

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
-0	4613	4435	4257	4079	3901					
0.	4613	4811	5009	5207	5405	5603	5801	5999	6197	6395
1.	6593	6791	6989	7187	7385	7583	7781	7999	8237	8455
2.	8672	8890	9108	9326	9563	9801	10039	10276	10494	10732
3.	10969	11187	11425	11662	11880	12118	12355	12593	12830	13068
4.	13306	13523	13761	13999	14236	14474	14711	14949	15187	15424
5.	15662	15880	16117	16355	16592	16830	17068	17305	17523	17761
6.	17998	18216	18454	18691	18929	19186	19444	19701	19958	20216
7.	20473	20731	20988	21245	21503	21780	22057	22334	22612	22889
8.	23166	23443	23740	24037	24334	24631	24928	25225	25542	25859
9.	26176	26492	26809	27146	27482	27819	28156	28492	28829	29185
10.	29561	29898	30254	30611	30967	31343	31720	32096	32472	32848
11.	33244	33640	34056	34492	34947	35422	35917	36432	36967	37521
12.	38075	38650	39244	39857	40491	41144	41818	42511	43223	43956
13.	44708	45481	46273	47084	47916	48767	49639	50530	51440	52371
14.	53321	54292	55282	56291	57321					

NOTE: These tables are valid from the commencement of observations, 2nd January 1955 until the 1957 flood season, assumed date 21st April 1957.

KLIOMBERO AT IFWEMA  
 STATION NO. IKB.4  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.									2670	2760
1.	2850	2940	3030	3130	3230	3320	3430	3530	3630	3730
2.	3830	3940	4050	4160	4270	4380	4490	4600	4710	4830
3.	4950	5070	5190	5300	5420	5540	5650	5770	5890	6000
4.	6120	6240	6360	6480	6600	6720	6830	6950	7070	7190
5.	7310	7430	7550	7670	7790	7910	8020	8140	8260	8380
6.	8500	8620	8740	8850	8970	9090	9200	9320	9440	9560
7.	9690	9820	9950	10080	10220	10360	10500	10640	10790	10940
8.	11090	11240	11390	11550	11710	11870	12030	12190	12350	12520
9.	12690	12860	13030	13210	13390	13570	13750	13940	14130	14320
10.	14510	14710	14910	15110	15320	15530	15740	15960	16180	16410
11.	16630	16870	17110	17360	17610	17870	18130	18400	18670	18950
12.	19230	19520	19820	20130	20450	20780	21120	21470	21830	22200
13.	22580	22970	23370	23780	24200	24630	25070	25520	25980	26450

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.									5287	5465
1.	5643	5821	5999	6197	6395	6593	6791	6989	7187	7385
2.	7583	7801	8019	8237	8455	8672	8890	9108	9326	9563
3.	9801	10039	10276	10494	10732	10969	11187	11425	11662	11880
4.	12118	12355	12593	12830	13068	13306	13523	13761	13999	14236
5.	14474	14711	14949	15187	15424	15662	15880	16117	16365	16592
6.	16830	17068	17305	17523	17761	17998	18216	18454	18691	18929
7.	19186	19444	19701	19958	20236	20513	20790	21067	21364	21661
8.	21958	22255	22552	22869	23185	23503	23819	24136	24453	24790
9.	25126	25463	25799	26156	26512	26869	27225	27601	27977	28354
10.	28730	29126	29522	29918	30334	30749	31165	31601	32036	32492
11.	32927	33403	33878	34373	34868	35383	35897	36432	36967	37521
12.	38075	38650	39244	39857	40491	41144	41818	42511	43223	43956
13.	44708	45481	46273	47084	47916	48767	49639	50530	51440	52371

NOTE: These tables are valid from the 1957 flood season, assumed date 21st April 1957.



LUHOMBERO RIVER AT ILONGA  
STATION NO: 1KB.5

Available Current Meter Measurements for the establishment of  
discharge rating curve and tables.

A smooth curve has been fitted to the measurements by applying  
a series of differences.

No.	Date.	Observer.	h	q obs.	q cald.	Deviation.	Deviation
1.	4.9.55	M. Savy	1.00	44.20	52.40	- 8.2	- 18.6
2.	15.12.55	B. Gemmell	1.30	71.50	62.60	+ 8.9	+ 12.5
3.	8.8.56	M. Savy	3.10	134.80	139.00	- 4.2	- 3.1
4.	27.8.56	"	2.80	100.20	127.00	- 26.8	- 26.8
5.	12.1.57	B. Gemmell	3.50	191.00	174.00	- 17.0	- 8.9
6.	23.2.57	M. Savy	3.05	137.50	137.50	0	0
7.	19.8.57	B. Gemmell	2.90	87.50	127.00	- 39.5	- 45.1
8.	28.12.57	J. Rayner	3.10	88.20	139.00	- 50.8	- 57.6
9.	28.12.57	"	3.10	100.20	139.00	- 38.8	- 38.8
10.	10.1.58	S. Raadsma	3.15	120.25	143.00	- 22.75	- 18.9
11.	21. 4.58	R. Kajiru	6.60	582.00	602.00	- 20.0	- 3.4
12.	25.4.58	"	9.50	1347.00	1347.00	0	0
13.	29.4.58	"	8.65	1127.00	1090.00	+ 37.0	+ 3.3
14.	6.5.58	"	8.40	1051.00	1020.00	+ 31.0	+ 2.9
15.	8.5.58	"	7.60	800.00	817.00	- 17.0	- 2.1
16.	9.5.58	"	7.20	730.00	726.00	+ 4.0	+ 0.5
17.	11.5.58	"	6.80	609.00	642.00	- 33.0	- 5.4
18.	12.5.58	"	6.60	609.00	602.00	+ 7.0	+ 1.2
19.	13.5.58	"	6.40	564.00	564.00	0	0
20.	15.5.58	"	6.10	522.00	511.00	+ 11.0	+ 2.1
21.	16.5.58	"	6.00	483.00	494.00	- 11.0	- 2.3
22.	19.5.58	"	5.60	444.00	428.00	+ 16.0	+ 3.6
23.	22.5.58	"	5.50	408.00	412.00	- 4.0	- 1.0
24.	24.5.58	"	5.30	415.00	382.00	+ 33.0	+ 8.0
25.	26.5.58	"	5.20	398.00	368.00	+ 30.0	+ 7.5
26.	28.5.58	"	5.10	384.00	354.00	+ 30.0	+ 7.8
27.	7.5.58	"	8.00	917.00	914.00	+ 3.0	+ 0.3

Measurement taken after establishment :-

28.	28.11.58	Survey Boys	3.15	45.90	-	-	-
29.	28.11.58	"	3.15	49.60	-	-	-
30.	17.3.59	M. H. Bhatt	5.60	282.00	-	-	-
31.	17.3.59	"	5.575	240.80	-	-	-
32.	26.5.59	"	4.40	131.80	-	-	-
33.	26.5.59	"	4.40	138.50	-	-	-
34.	16.7.59	P. M. Horn	3.88	70.30	-	-	-
35.	24.8.59	M. H. Bhatt	3.70	52.20	-	-	-
36.	24.8.59	"	3.70	50.40	-	-	-
37.	18.11.59	M. Singh	3.22	13.20	-	-	-

**LUHOMBERO AT ILONGA**  
**STATION NO. 1KB.5**  
**DISCHARGE IN CUSECS**

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	27.4	29.9	32.4	34.9	37.4	39.9	42.4	44.9	47.4	49.9
1.	52.4	55.4	58.4	62.6	66.8	71.0	75	79	83	87
2.	91.0	95	99	103	108	113	118	123	127	131
3.	135	139	147	156	165	174	183	192	202	212
4.	222	233	244	255	266	277	289	301	314	327
5.	340	354	368	382	397	412	428	444	460	477
6.	494	511	528	546	564	582	602	622	642	662
7.	682	704	726	748	770	793	817	841	865	889
8.	914	940	966	993	1020	1047	1075	1104	1133	1162
9.	1191	1222	1253	1284	1315	1347	1392	1438	1484	1530
10.	1576	1626	1676	1726	1777	1828	1886	1944	2002	2060
11.	2118	2181	2244	2307	2371	2435	2505	2575	2645	2715
12.	2785	2862	2939	3016	3093	3170	3254	3338	3423	3508
13.	3593	3685	3777	3869	3962	4055	4156	4257	4358	4459
14.	4560	4669	4779	4889	4999	5109	5228	5347	5466	5585
15.	5704	5838	5972	6106	6240	6374	6508	6642	6780	6914
16.	7044	7199	7354	7509	7665	7821	7977	8133	8289	8445
17.	8601	8780	8959	9138	9317	9496	9675	9855	10035	10215
18.	10395									

**DISCHARGE IN ACRE FEET PER DAY**

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	54	59	64	69	74	79	84	89	94	98
1.	104	110	116	124	132	141	149	156	164	172
2.	180	188	196	204	214	224	234	244	252	260
3.	268	276	291	309	327	345	363	381	400	420
4.	440	462	484	506	527	549	573	597	623	648
5.	674	702	730	758	787	817	849	880	912	946
6.	980	1013	1047	1083	1118	1154	1194	1234	1273	1313
7.	1352	1396	1440	1483	1527	1573	1620	1668	1716	1763
8.	1813	1864	1916	1969	2023	2077	2132	2190	2247	2305
9.	2362	2424	2485	2547	2608	2672	2761	2852	2943	3035
10.	3126	3225	3324	3423	3525	3626	3741	3856	3971	4086
11.	4201	4326	4451	4576	4703	4830	4969	5107	5246	5385
12.	5524	5677	5829	5982	6135	6288	6454	6621	6790	6958
13.	7127	7309	7492	7674	7859	8043	8243	8444	8644	8844
14.	9045	9261	9479	9697	9915	10133	10340	10606	10842	11078
15.	11314	11580	11845	12111	12377	12643	12908	13174	13448	13714
16.	13972	14279	14587	14894	15024	15513	15822	16132	16441	16751
17.	17060	17415	17770	18125	18480	18835	19190	19547	19904	20261
18.	20618									

Note: These tables are valid from commencement of observations and until 28.11.58

KIGOGO-RUAHA AT FRICK'S BRIDGE  
STATION NO. IKB.6

Available Current Meter Measurements for the Establishment of discharge rating curve and tables.  
A smooth curve has been fitted to the measurements by a series of differences.

No.	Date.	Observer.	h.	q obs.	q calc.	Deviation.	Deviation
1.	18.6.56	J. McCaldin	11.55	444	419	+ 25	+ 6.0
2.	27.6.56	C. Walker	10.8	346	357	- 11	- 3.1
3.	20.7.56	J. McCaldin	9.8	281	275	+ 6	+ 2.2
4.	1.8.56	P. Horn	9.42	268	245	+ 23	+ 9.4
5.	1.10.56	J. McCaldin	7.98	148	144	+ 4	+ 2.8
6.	21.11.57	D.J. Ades	7.25	104	104	0	0
7.	11.2.58	H. van Ark	14.18	631	639	- 8	- 1.3
8.	11.2.58	"	14.18	629	639	- 10	- 1.6
9.	8.3.58	"	14.35	668	659	+ 9	+ 1.4
10.	8.3.58	"	14.225	677	644	+ 33	+ 5.1
11.	9.3.58	"	15.225	857	856	+ 1	+ 0.1
12.	9.3.58	"	15.225	841	856	- 15	- 1.7
13.	29.4.58	"	16.53	1444	1438	+ 6	+ 0.4
14.	29.4.58	"	16.48	1373	1408	- 35	- 2.5
15.	30.4.58	"	16.39	1300	1359	- 59	- 4.3
16.	30.4.58	"	16.36	1350	1342	+ 8	+ 0.6
17.	19.6.58	D.J. Ades	11.75	451	435	+ 16	+ 3.7
18.	19.6.58	"	11.75	436	435	+ 1	+ 0.2
19.	20.8.58	H.S. Mahjail	9.55	257	255	+ 2	+ 0.8
20.	20.8.58	"	9.55	252	255	- 3	- 1.2
21.	19.9.58	"	8.90	195	205	- 10	- 4.9
22.	19.9.58	"	8.90	211	205	+ 6	+ 2.9
23.	29.10.58	"	7.725	122	128	- 6	- 4.7
24.	21.11.58	"	7.40	112	112	0	0
25.	26.1.59	"	9.10	214	219	- 5	- 2.3

KIGOGO--RUAHA AT FRICK'S BRIDGE  
 STATION NO. IKB. 6  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
7.	93	97	102	107	112	117	122	127	133	139
8.	145	151	157	163	170	177	184	191	198	205
9.	212	219	227	235	243	251	259	267	275	283
10.	292	300	308	316	324	333	341	349	357	365
11.	374	382	390	398	406	415	423	431	439	447
12.	456	464	472	480	488	497	505	513	521	529
13.	538	546	554	562	570	579	587	595	603	611
14.	620	630	641	653	666	681	698	718	740	764
15.	790	818	848	880	914	950	988	1028	1070	1114
16.	1160	1208	1258	1310	1364	1420	1478	1538	1600	1664
17.	1730	1798	1868	1940	2014	2090	2168	2248	2330	2414
18.	2500	2588	2678	2770	2864	2960	3058	3158	3260	3364
19.	3470	3578	3688	3800	3914	4030	4148	4268	4390	4514

DISCHARGE IN ACRE FEET.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
7.	184	192	202	212	222	232	242	252	263	275
8.	287	299	311	323	336	350	364	378	392	406
9.	420	434	449	465	481	497	513	529	545	561
10.	578	594	610	626	642	659	675	691	707	723
11.	740	756	772	789	805	821	838	854	870	886
12.	903	919	935	951	967	984	1000	1016	1032	1048
13.	1065	1081	1097	1113	1129	1146	1162	1178	1194	1210
14.	1228	1247	1269	1293	1319	1348	1382	1422	1465	1513
15.	1564	1620	1679	1742	1810	1881	1956	2035	2119	2206
16.	2297	2392	2491	2594	2701	2812	2926	3045	3168	3295
17.	3425	3560	3699	3841	3982	4138	4293	4451	4613	4780
18.	4950	5124	5302	5485	5671	5861	6055	6253	6455	6661
19.	6871	7084	7302	7524	7750	7979	8213	8451	8692	8938

## FUAGI AT IDEGE (LIVALONGA BRIDGE)

STATION NO: IKB.7

Available Current Meter Measurements for the Establishment of Stage Discharge Curve and Tables. A smooth curve has been fitted to the available measurements by series of difference.

Date.	Observer.	h	q obs	q calc	Deviation	Deviation %
2.11.56	O.Tilrem	0.75	14.7	14.0	+ 0.7	+ 5.0
28.3.57	"	1.40	37.3	37.2	+0.1	+0.3
7.6.57	"	1.20	25.9	26.0	- 0.1	- 0.4
7.6.57	"	1.20	24.8	26.0	- 1.2	- 5.0
18.1.58	H. van Ark	0.60	10.5	11.0	- 0.5	- 4.6
14.2.58	"	1.50	46.6	44.0	+ 2.6	+ 5.9
14.2.58	"	1.50	41.2	44.0	- 2.8	- 6.4
23.2.58	"	1.80	68	69.5	- 1.5	- 2.2
6.3.58	"	1.00	20.9	19.6	+ 1.3	+ 6.6
2.5.58	"	1.66	55	56.5	- 1.5	- 2.7
2.5.58	"	1.66	62	56.5	+ 5.5	+ 9.8
20.6.58	D. Ades		26			
21.8.58	H.Singh Majhail	0.96	17.6	18.6	- 1.0	- 5.4
20.9.58	"	0.82	16.3	15.4	+ 0.9	+ 5.7

FUAGI AT IDEGE (LIVALONGA BRIDGE)  
 STATION NO: IKB.7  
 DOWNSTREAM GAUGE  
DISCHARGE IN CUSECS

h.	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.5	9.5	9.6	9.7	9.8	9.9	10.0	10.2	10.4	10.6	10.8
0.6	11.0	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.6	12.8
0.7	13.0	13.2	13.4	13.6	13.8	14.0	14.2	14.4	14.6	14.8
0.8	15.0	15.2	15.4	15.6	15.8	16.1	16.3	16.5	16.7	16.9
0.9	17.2	17.4	17.6	17.8	18.1	18.4	18.6	18.8	19.0	19.3
1.0	19.6	19.8	20.0	20.3	20.6	20.9	21.1	21.4	21.7	22.0
1.1	22.3	22.6	22.9	23.2	23.6	24.0	24.4	24.8	25.2	25.6
1.2	26.0	26.4	26.9	27.4	27.9	28.4	28.9	29.4	30.0	30.6
1.3	31.2	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5
1.4	37.2	37.8	38.4	39.1	39.8	40.5	41.2	41.9	42.6	43.3
1.5	44.0	44.7	45.4	46.1	46.9	47.7	48.5	49.3	50.1	50.9
1.6	51.7	52.5	53.3	54.1	54.9	53.7	56.5	57.3	58.1	59.0
1.7	59.9	60.8	61.7	62.6	63.5	64.5	65.5	66.5	67.5	68.5
1.8	69.5	70.5	71.5	72.6	73.7	74.8	75.9	77.0	78.1	79.2
1.9	80.3	81.4	82.5	83.6	84.7	85.8	86.9	88.1	89.3	90.5
2.0	91.7	92.9	94.2	95.5	96.8	98.1	99.4	101	102	103

DISCHARGE IN ACRE FEET PER DAY

h	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.5	19	19	19	19	20	20	20	21	21	21
0.6	22	22	23	23	23	24	24	25	25	25
0.7	26	26	27	27	27	28	28	29	29	29
0.8	30	30	31	31	31	32	32	33	33	33
0.9	34	34	35	35	36	36	37	37	38	38
1.0	39	39	40	40	41	41	42	42	43	44
1.1	44	45	45	46	47	48	48	49	50	51
1.2	52	52	53	54	55	56	57	58	59	61
1.3	62	63	64	65	66	68	69	70	71	72
1.4	74	75	76	77	79	80	82	83	84	86
1.5	87	89	90	91	93	94	96	98	99	101
1.6	102	104	106	107	109	110	112	114	115	117
1.7	119	121	123	125	127	128	130	132	134	136
1.8	138	140	142	144	146	149	151	153	155	157
1.9	159	161	164	166	168	171	173	175	178	180
2.0	182	184	187	189	192	194	197	199	202	205

MPANGA AT MPANGA MISSION  
STATION No. 1KB.3

Current Meter Measurements available.

No.	Date	Observer	h	q
1	22. 5.58	F. Tabelli	4.15	1390
2	22. 5.58	"	4.12	1488
3	25. 5.58	"	3.62	1280
4	1.11.58	M. Bhatt	1.34	643
5	26.11.58	"	0.90	574
6	30. 3.59	S. Raadsma	5.60	2059.2
7	31. 3.59	"	5.50	1958.4
8	10. 4.59	Bernard	3.00	956.5
9	12. 4.59	"	4.20	1380
10	16. 4.59	"	3.85	1334
11	18. 4.59	"	4.45	1378
12	19. 4.59	"	4.65	1302
13	23. 4.59	"	3.50	903.8
14	25. 4.59	"	4.95	1740
15	26. 4.59	"	7.70	3205
16	27. 4.59	"	7.40	2805
17	30. 4.59	"	5.70	1898
18	2. 5.59	"	4.40	1487.2
19	6.12.59	H. Singh	2.34	921
20	7.12.59	"	1.58	717
21	12.11.59	P. Horn	0.62	435
22	19. 1.60	Fr. Hagnus	3.35	1164
23	22. 1.60	"	4.18	1594
24	23. 1.60	"	5.22	2130
25	30. 1.60	"	2.15	799.2

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 MPANGA AT MPANGA MISSION  
 STATION NO. TKB. 8  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	415	430	446	462	479	496	511	529	548	567
1.	586	605	625	645	666	687	708	729	751	773
2.	796	820	844	869	894	920	946	973	1000	1028
3.	1056	1085	1115	1146	1177	1209	1241	1274	1307	1341
4.	1376	1412	1449	1487	1526	1566	1607	1649	1692	1736
5.	1780	1824	1868	1912	1957	2002	2047	2092	2138	2184
6.	2230	2277	2325	2374	2423	2473	2523	2574	2625	2677
7.	2730	2783	2837	2891	2945	3000	3055	3111	3167	3223
8.	3280	3338	3397	3457	3518	3580	3642	3705	3769	3834
9.	3900	3967	4035	4104	4174	4245	4318	4392	4467	4543
10.	4620	4699	4780	4863	4948	5034	5122	5211	5302	5395
11.	5490	5587	5686	5787	5890	5996	6104	6215	6328	6443

DISCHARGE IN ACRE FEET PER DAY

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0.	822	851	883	915	948	982	1012	1047	1085	1123
1.	1160	1198	1238	1277	1319	1360	1402	1443	1487	1531
2.	1576	1624	1671	1721	1770	1822	1873	1927	1980	2035
3.	2091	2148	2208	2269	2330	2394	2457	2523	2588	2655
4.	2724	2796	2869	2944	3021	3101	3182	3265	3350	3437
5.	3524	3612	3699	3786	3875	3964	4053	4142	4233	4324
6.	4415	4508	4604	4701	4798	4897	4996	5097	5198	5300
7.	5405	5510	5617	5724	5831	5940	6049	6160	6271	6382
8.	6494	6609	6726	6845	6966	7088	7211	7336	7463	7591
9.	7722	7855	7989	8126	8265	8405	8550	8696	8845	8995
10.	9148	9304	9464	9629	9797	9967	10142	10318	10498	10682
11.	10870	11062	11258	11458	11662	11872	12086	12306	12529	12757



MNYERA RIVER AT TAVETA (upstream)  
STATION NO. IKB.9

Available Current Meter Measurements for the Establishment of Discharge Rating Curve and Tables.

A smooth curve has been fitted to the measurements by applying a series of differences.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation	Deviation
1.	1.11.58	F. Tabelli	3.91	1112	1112	0	0.0
2.	25.11.58	M. H. Bhatt	3.33	930	930	0	0.0
3.	16.4.59	J. K. Salehe	8.17	3114	2901	+213	+ 7.3
4.	17.4.59	"	8.02	2806	2823	- 17	- 0.6
5.	20.4.59	"	7.72	2724	2671	+ 53	+ 2.0
6.	22.4.59	"	7.55	2420	2572	-152	- 5.9
7.	23.4.59	"	7.28	2416	2457	- 41	- 1.7
8.	25.4.59	"	8.15	2960	2891	+ 69	+ 2.4
9.	27.4.59	"	9.88	4328	3867	+461	+12.0
10.	27.4.59	"	10.82	4400	4461	- 61	- 1.4
11.	28.4.59	"	10.48	4120	4241	-121	- 2.9
12.	30.4.59	"	10.00	4024	3940	+ 84	+ 2.1
13.	1.5.59	"	9.20	3512	3464	+ 48	+ 1.4

NOTE : At Taveta there are upstream and downstream slope gauges. The water levels in this table are transferred to vertical heights.

MNYERA AT TAVETA  
STATION NO. IKB.9  
DISCHARGE IN CUSECS

Water levels refer to vertical heights on U/S slope gauge.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2.							723	750	777	805
3.	833	862	891	921	951	982	1013	1045	1077	1109
4.	1142	1175	1209	1243	1278	1313	1348	1384	1420	1456
5.	1493	1531	1569	1607	1646	1685	1725	1765	1805	1846
6.	1887	1929	1971	2014	2057	2101	2145	2190	2235	2280
7.	2236	2372	2419	2466	2514	2562	2611	2661	2711	2762
8.	2813	2865	2917	2970	3023	3077	3131	3185	3240	3295
9.	3351	3407	3464	3522	3580	3639	3698	3758	3818	3879
10.	3940	4002	4064	4127	4190	4254	4318	4383	4448	4514
11.	4580	4647	4714	4782	4850	4919	4988	5058	5128	5199
12.	5270	5342	5415	5489	5563	5638	5713	5789	5865	5942
13.	6020	6098	6176	6255	6334	6414	6494	6575	6656	6738
14.	6820	6903	6986	7070	7154	7239	7324	7410	7496	7583
15.	7670	7758	7846	7935	8024	8114	8204	8295	8386	8478
16.	8570	8663	8756	8850	8944	9039	9134	9230	9326	9423
17.	9520	9618	9716	9815	9914	10014	10114	10215	10316	10418
18.	10520	10623	10726	10830	10934	11039	11144	11250	11356	11463
19.	11570	11678	11786	11895	12004	12114	12224	12335	12446	12558
20.	12670	12783	12896	13010	13214	13239	13354	13470	13586	13703

BNYENRA AT FAVETA  
 STATION NO. IKB.9  
DISCHARGE IN ACRES FEET PER DAY

Water levels refer to vertical heights on U/S slope gauge.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2.							1432	1485	1538	1594
3.	1649	1707	1764	1824	1883	1944	2006	2069	2132	2196
4.	2261	2327	2394	2461	2530	2600	2669	2740	2812	2883
5.	2956	3031	3107	3182	3259	3336	3416	3495	3574	3655
6.	3736	3819	3903	3988	4073	4160	4247	4336	4425	4514
7.	4605	4697	4790	4883	4978	5073	5170	5269	5368	5469
8.	5570	5673	5776	5881	5986	6092	6199	6306	6415	6524
9.	6635	6746	6859	6974	7088	7205	7322	7441	7560	7680
10.	7801	7924	8047	8171	8296	8423	8550	8678	8807	8938
11.	9068	9201	9334	9468	9603	9740	9876	10015	10153	10294
12.	10435	10577	10722	10868	11015	11163	11312	11462	11613	11765
13.	11920	12074	12228	12385	12541	12700	12858	13019	13179	13341
14.	13504	13668	13832	13999	14165	14333	14505	14672	14842	15014
15.	15187	15361	15535	15711	15888	16066	16244	16424	16604	16786
16.	16969	17153	17337	17523	17709	17897	18085	18275	18465	18658
17.	18850	19044	19238	19434	19630	19828	20026	20226	20426	20628
18.	20830	21034	21237	21443	21649	21857	22065	22275	22485	22697
19.	22909	23122	23336	23552	23768	23986	24204	24423	24643	24865
20.	25087	25310	25534	25760	25986	26213	26441	26671	26900	27312

TUMUJI RIVER AT HWAYAMALUNGU  
STATION No. 1KB.10

Available Current Meter Measurements for the Establishment  
of stage discharge curves and tables.

A smooth curve has been fitted to the available measurements  
by a series of differences.

No.	Date.	Observer	h	q obs.	q calc.	Deviation	Deviation %
1.	14.12.56	S. Raadsma	6.80	1401	1316	+ 85	+ 6.4
2.	11. 3.58	F. Tabelli	14.75	8400	8433	- 33	0.0
3.	17. 7.58	H. Bhatt	8.42	2234	2238	- 4	- 0.2
4.	17. 7.58	H. Singh	8.42	2240	2238	+ 2	+ 0.1
5.	2.11.58	F. Tabelli	6.70	1150	1268	- 118	- 9.3
6.	26.11.58	H. Bhatt	6.70	1266	1268	- 2	- 0.2

Measurements taken after the establishment of discharge  
rating curve. These measurements divert from the established curve.

21.	8.59	H. Bhatt	7.24	1187
8.	9.11.59	H. Singh	7.10	1190
9.	9.11.59	P. Horn	7.10	1113
10.	13.11.59	H. Singh	6.70	8848
11.	13.11.59	H. Singh	6.70	900

RUIHUI RIVER AT KWAYAKALUNGU (Below Mkasu)  
 STATION No. 1KB.10  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
6	971	1010	1050	1092	1134	1177	1222	1268	1316	1366
7	1418	1470	1523	1577	1631	1686	1742	1799	1857	1916
8	1976	2036	2098	2161	2225	2290	2355	2421	2487	2553
9	2618	2685	2754	2825	2897	2971	3046	3122	3198	3274
10	3351	3430	3511	3593	3676	3760	3846	3932	4019	4107
11	4197	4288	4380	4473	4567	4662	4758	4856	4955	5056
12	5158	5261	5365	5470	5576	5683	5791	5900	6011	6123
13	6237	6352	6468	6585	6704	6824	6946	7069	7193	7318
14	7443	7570	7699	7830	7962	8095	8229	8364	8501	8639
15	8778	8919	9062	9206	9348	9500	9653	9808	9964	10122
16	10282	10523	10769	11019	11272	11530	11793	12060	12331	12607
17	12887	13172	13461	13755	14054	14357	14665	14978	15296	15619

DISCHARGE IN ACRE FEET PER DAY

h	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
6	1923	2000	2079	2162	2245	2330	2420	2511	2606	2705
7	2808	2911	3016	3122	3229	3338	3449	3562	3677	3794
8	3912	4031	4154	4279	4406	4534	4663	4794	4924	5055
9	5184	5316	5453	5594	5736	5883	6031	6182	6332	6483
10	6635	6791	6952	7114	7278	7445	7615	7785	7958	8132
11	8310	8490	8672	8857	9043	9231	9421	9615	9811	10011
12	10213	10417	10623	10831	11040	11252	11466	11682	11902	12124
13	12349	12577	12807	13038	13274	13512	13753	13997	14242	14490
14	14737	14989	15244	15503	15765	16028	16293	16561	16832	17105
15	17380	17660	17945	18228	18509	18810	19113	19420	19729	20042
16	20358	20836	21323	21818	22319	22829	23350	23879	24415	24962
17	25516	26081	26653	27235	27827	28427	29037	29656	30286	30926

SOFI AT SOFI MISSION  
STATION No. 1KB.11

Current Meter Measurements available.

No.	Date	Observer	h	q
1	17.12.56	S.Raadsma	0.90	22.7
2	17.12.56	"	0.90	16.6
3	17.12.56	"	0.90	18.4
4	22. 2.57	F.Tabelli	0.72	19.1
5	31. 7.57	"	0.70	15.9
6	1.10.57	"	0.34	7.2
7	10.12.57	J.W.Rayner	0.12	1.4
8	10.12.57	"	0.12	1.4
9	6. 1.58	S.Raadsma	0.78	19.9
10	25. 5.58	M.Bhatt	1.47	82.2
11	11. 7.58	"	0.62	26.5
12	11. 7.58	"	0.62	29.1
13	3.11.58	"	0.12	8.675
14	3.11.58	"	0.12	8.737
15	3. 2.59	I.K.Salehe	1.387	142.8
16	4. 2.59	"	2.90	240.5
17	24. 2.59	"	3.06	247.1
18	2. 3.59	"	3.38	590
19	10. 3.59	"	1.96	110.5
20	22. 3.59	"	3.06	534
21	22. 8.59	P.Horn	0.15	13
22	14.11.59	H.Singh	0.60	0.2

SOFI RIVER AT SOFI MISSION  
 STATION NO. IKB. 11  
DISCHARGE IN CUSECS.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
-0	10.5	9.0	7.8	6.8	6.0	-	-	-	-	-
0	10.5	12	14	17	20	24	28	32	37	42
1	47	53	59	65	71	78	85	93	101	110
2	120	130	141	152	164	176	189	202	216	230
3	245	260	276	292	309	326	344	362	381	400
4	420	440	461	482	504	526	549	572	596	620

DISCHARGE IN ACRE FEET PER DAY

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
-0	21	18	15	14	12	-	-	-	-	-
0	20.8	24	28	34	40	48	55	63	73	83
1	93	105	117	129	141	154	168	184	200	218
2	238	257	279	301	325	348	374	400	428	455
3	485	515	546	578	612	645	681	717	754	792
4	832	871	913	954	998	1041	1087	1133	1180	1228

NOTE: This table is valid after the flood season 1958,  
 assumed date 30th March.

MCHILIPA AT IDETE  
STATION No. 1KB.12

Current Meter Measurements available

No.	Date	Observer	h	q
1	19.12.56	S.Raadsma	1.48	15.4
2	19.12.56	"	1.48	16.1
3	21. 2.57	F.Tabelli	3.75	26.88
4	21. 2.57	"	3.75	25.98
5	31. 7.57	"	4.06	37.7
6	10.12.57	J.W.Rayner	3.28	13.9
7	10.12.57	"	3.28	13.15
8	3. 5.58	F.Tabelli	9.35	268
9	18. 7.58	M.Bhatt	5.44	50
10	18. 7.58	"	5.44	52
11	3.11.58	"	3.92	20.3
12	3.11.58	"	3.92	20.6
13	24.11.58	"	3.8	16.7
14	19. 8.59	P.Horn	3.0	14.5
15	14.11.59	H.Singh	2.72	6.1
16	14.11.59	P.Horn	2.71	6.3
17	17. 1.60	D.Mahundu	4.05	54
18	17. 1.60	"	4.34	65.2



MCHILIPA RIVER AT ITETE  
STATION NO. IKB.12  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2.							11	11	12	12
3.	13	13	14	14	15	16	17	18	19	20
4.	21	22	24	25	27	29	31	33	35	37
5.	40	42	45	47	50	53	56	59	62	65
6.	69	73	76	80	84	88	92	96	101	106
7.	111	116	121	126	131	137	142	148	154	160
8.	166	172	179	186	193	200	207	215	223	231
9.	239	247	255	264	273	282	291	300	310	320
10.	330	340	351	362	373	384	395	407	419	431
11.	443	456	469	482	495	508	522	536	550	564

DISCHARGE IN ACRE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
2.							22	22	24	24
3.	26	26	28	28	30	32	34	36	38	40
4.	42	44	48	50	53	57	61	65	69	73
5.	79	83	89	93	99	105	111	117	123	129
6.	137	145	150	158	166	174	182	190	200	210
7.	220	230	240	249	259	271	281	293	305	317
8.	329	341	354	368	382	396	410	426	442	457
9.	473	489	505	523	541	558	576	594	614	634
10.	653	673	695	717	739	760	782	806	830	853
11.	877	903	929	954	980	1006	1034	1061	1089	1117

NOTE: This table is valid after 10th December 1957.

LUMMO AT KIRAOHI  
STATION NO. LKB.14

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

A smooth curve has been fitted to the measurements by applying a series of differences.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation.	Deviation %
1.	18.10.57	J.W. Rayner	2.30	148.2	139	+ 9.2	+ 6.6
2.	12.11.57	"	2.15	136.8	129	+ 7.8	+ 6.0
3.	19.2.58	"	3.16	270.4	207	+63.4	+30.6
4.	28.3.58	F. Tabelli	14.75	2187	3050	-863	-28.3
5.	29.3.58	"	11.12	1561	1984	-432	-21.8
6.	2.9.58	M.H. Bhatt	2.80	220	177	+ 43	+24.3
7.	2.9.58	"	2.80	207	177	+ 30	+16.9
8.	2.10.58	"	2.45	138	149	- 11	- 7.4
9.	2.10.58	"	2.45	153	149	+ 4	+ 2.7
10.	23.11.58	"	2.00	102.7	120	-17.3	-14.4
11.	23.11.58	"	2.00	103.8	120	-16.2	-13.5
12.	9.3.59	"	3.80	269.4	275	- 5.6	- 2.0
13.	9.3.59	"	3.75	278.6	269	+ 9.6	+ 3.6
14.	10.3.59	"	3.50	219.2	241	-21.8	- 9.0
15.	10.3.59	"	3.50	227.8	241	-13.2	- 5.5
16.	11.3.59	"	3.00	191.8	193	- 1.2	- 0.6
17.	11.3.59	"	3.00	189	193	- 4	- 2.1
18.	12.3.59	"	2.80	185	177	+ 8	+ 4.5
19.	12.3.59	"	2.80	174	177	- 3	- 1.7
20.	14.3.59	"	2.60	171.2	161	+10.2	+ 6.3
21.	14.3.59	"	2.60	153.6	161	- 7.4	- 4.6
22.	19.3.59	"	3.35	222.4	226	- 3.6	- 1.6
23.	28.3.59	"	3.50	260	241	+19	+ 7.9
24.	28.3.59	"	3.50	237.2	241	- 3.8	- 1.6
25.	30.3.59	"	5.525	573.5	573	+ 0.5	+ 0.1
26.	28.4.59	"	9.55	1554	1555	- 1	- 0.06
27.	28.4.59	"	9.35	1504	1503	+ 1	+ 0.06
28.	14.7.59	P.M. Horn	2.18	141	131	+10	+ 7.6
29.	25.8.59	Bernard	2.05	128.3	123	+53	+ 4.3
30.	6.9.59	R. Kalito	1.75	107.6	107.5	+ 0.1	0
31.	7.11.59	C. Barnes	1.545	84.8	99	-14.2	-14.3
32.	7.11.59	M. S. Majhail	1.535	81.6	98	-16.4	-16.7

LUMENO AT KIBAONI  
STATION NO. IKB, 14  
DISCHARGE IN CUSECS

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.						97	101	105	110	115
2.	120	126	132	139	146	153	161	169	177	185
3.	193	202	211	221	231	241	252	263	275	288
4.	302	316	331	346	362	379	397	415	433	451
5.	469	488	507	527	547	567	588	609	631	652
6.	673	695	718	741	764	787	810	834	858	881
7.	905	929	954	978	1003	1027	1052	1077	1102	1127
8.	1152	1178	1203	1229	1254	1280	1306	1332	1358	1384
9.	1410	1436	1463	1489	1516	1542	1569	1596	1622	1649
10.	1676	1703	1730	1758	1785	1812	1840	1867	1895	1922
11.	1950	1978	2006	2034	2062	2090	2118	2147	2175	2204
12.	2232	2261	2290	2318	2347	2376	2405	2434	2464	2493
13.	2522	2552	2581	2611	2640	2670	2700	2730	2760	2790
14.	2820	2850	2881	2911	2942	2972	3003	3034	3066	3097
15.	3128	3160	3191	3223	3254	3286	3318	3350	3382	3414
16.	3446	3478	3511	3543	3576	3608	3641	3674	3706	3739

DISCHARGE IN ACHE FEET PER DAY.

h.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1.						192	200	208	218	228
2.	238	249	261	275	289	303	319	335	350	366
3.	382	400	418	438	457	477	499	521	545	570
4.	598	626	655	685	717	750	786	822	857	893
5.	929	966	1004	1043	1083	1123	1164	1206	1249	1291
6.	1333	1376	1422	1469	1513	1558	1604	1651	1699	1744
7.	1792	1839	1889	1936	1986	2033	2083	2132	2182	2231
8.	2281	2332	2382	2433	2483	2534	2586	2637	2689	2740
9.	2792	2843	2897	2948	3002	3053	3107	3160	3212	3265
10.	3318	3372	3425	3481	3534	3588	3643	3697	3752	3806
11.	3861	3916	3972	4027	4083	4138	4194	4251	4307	4364
12.	4419	4477	4534	4590	4647	4704	4762	4819	4879	4936
13.	4994	5053	5110	5170	5227	5287	5346	5405	5465	5524
14.	5584	5643	5704	5764	5825	5885	5946	6007	6071	6132
15.	6193	6257	6318	6382	6443	6506	6570	6633	6696	6760
16.	6823	6886	6952	7015	7080	7144	7209	7275	7338	7403

MGETA AT MCHOMBE MISSION  
STATION No. 1KB.15

## Current Meter Measurements available

No.	Date	Observer	h	g
1	21.11.57	J.Otnes	0.3	0.00
2	28.11.57	"	1.52	184.0
3	4.11.58	F.Tabelli	1.48	151.6
4	3. 4.59	R.Kajiru	2.3	312.8
5	4. 1.59	"	2.2	266
6	5. 4.59	"	2.12	186.4
7	6. 4.59	"	2.08	242
8	7. 4.59	"	2.04	237
9	8. 4.59	"	2.03	246.7
10	9. 4.59	"	1.94	242.3
11	10. 4.59	"	1.92	242.5
12	12. 4.59	"	2.46	454.8
13	13. 4.59	"	2.32	476.5
14	23. 4.59	"	2.74	533.5
15	24. 4.59	"	3.05	828
16	25. 4.59	"	4.05	1457
17	26. 4.59	"	5.65	1574
18	29. 4.59	"	5.00	1400
19	30. 4.59	"	4.20	1175
20	1. 5.59	"	3.5	1036
21	2. 5.59	"	3.3	986
22	3. 5.59	"	3.22	808
23	4. 5.59	"	3.12	734.5
24	5. 5.59	"	3.04	687.5
25	6. 5.59	"	2.92	701
26	7. 5.59	"	2.88	702
27	8. 5.59	"	2.84	725
28	9. 5.59	"	2.82	662
29	11. 5.59	"	2.74	604
30	12. 5.59	"	2.98	805
31	13. 5.59	"	3.54	1111
32	14. 5.59	"	2.94	804
33	15. 5.59	"	2.78	654.5
34	16. 5.59	"	2.72	596.5
35	17. 5.59	"	2.68	603
36	19. 5.59	"	2.58	574.5
37	20. 5.59	"	2.54	530.5
38	21. 5.59	"	2.52	497.5
39	22. 5.59	"	2.48	473.5
40	24. 5.59	"	2.42	464.3
41	26. 5.59	"	2.34	431.3
42	15. 8.59	P.Horn	1.68	222.3
43	7.11.59	"	1.45	143.4

FURUA AT MALINYI  
STATION No. 1KB.16

Current Meter Measurements available.

No.	Date	Observer	h	q
1	11.12.57	J.W.Rayner	1.80	210
2	7. 1.57	S.Raadsma	2.16	363
3	7. 1.57	"	2.16	346
4	24. 5.58	M.Bhatt	3.30	1136
5	12. 7.58	"	2.50	430
6	2.11.58	"	1.68	173.3
7	26.11.58	Bernard	1.40	180
8	29.12.58	"	2.87	701
9	31.12.58	"	2.225	425
10	7. 1.59	"	1.80	453
11	9. 2.59	"	3.15	825
12	12. 2.59	"	4.275	1526
13	17. 2.59	"	4.15	1664
14	24. 2.59	"	4.725	2635
15	28. 2.59	"	5.15	2187.5
16	10. 3.59	Mussa Dajubu	4.575	1652
17	21. 3.59	"	4.95	2590
18	27. 3.59	Berna'd	4.075	1724.8
19	27. 4.59	Mussa Dajubu	3.65	1478.4
20	28. 4.59	"	4.95	1962
21	22. 8.59	M.Bhatt	1.60	171
22	13.11.59	H.Singh	1.26	85.8
23	13.11.59	"	1.26	90
24	13.11.59	P.Horn	1.26	88.4
25	17. 1.60	H.Singh	2.15	468.8
26	17. 1.60	"	2.13	408
27	27. 1.60	H.Anton	2.50	470.8
28	29. 1.60	"	2.10	364.4

KILOMETER AC SWERO  
STATION NO. LMB.17

Available Current Meter Measurements for the establishment of discharge rating curve and tables.

A smooth curve has been fitted to the available measurements by applying a series of differences.

No.	Date.	Observer.	h	q obs.	q calc.	Deviation	Deviation
1.	2.12.57	J.W. Rayner	3.30	3568	3665	- 97	- 2.6
2.	2.12.57	"	3.30	3628	3665	- 37	- 1.0
3.	7.2.58	"	4.50	6296	6500	- 204	- 3.1
4.	8.5.58	F. Tabelli	17.10	61880	61890	- 10	- 0.0
5.	10.6.58	H. Bhatt	8.75	21520	21580	- 60	- 0.3
6.	26.2.59	H. Bhatt	5.80	10360	10335	+ 25	+ 0.2
7.	15.4.59	H. Bhatt	8.20	21280	19515	+1765	+ 9.0
8.	15.4.59	H. Bhatt	8.20	19100	19515	- 415	- 2.1
9.	10.5.59	H. Bhatt	9.35	24720	24465	+ 255	+ 1.0
10.	10.5.59	H. Bhatt	9.35	26624	24465	+2159	+ 8.8
11.	17.8.59	H. Bhatt	3.90	5325	5010	+ 315	+ 6.3
12.	20.11.59	H. Singh	2.90	2940	2860	+ 80	+ 2.8
13.	21.11.59	Horn	2.88	2736	2825	- 89	- 3.2



RUHUDI AT NJOMBE BRIDGE  
STATION No. 1KB.18

Current Meter Measurements available.

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No.	Date	Observer	h	q
1	16. 6.58	D.J.Ades	2.0	182
2	19. 8.58	H.S.Majhail	1.68	113.7
3	18. 9.58	"	1.65	91.69
4	20.11.58	"	1.375	51.7
5	17. 2.59	"	1.86	124.5
6	2. 6.59	D.J.Ades	2.06	158.8
7	3. 9.59	H.S.Majhail	1.60	76.5
8	3. 9.59	"	1.60	79.7
9	3. 9.59	"	1.60	73.6

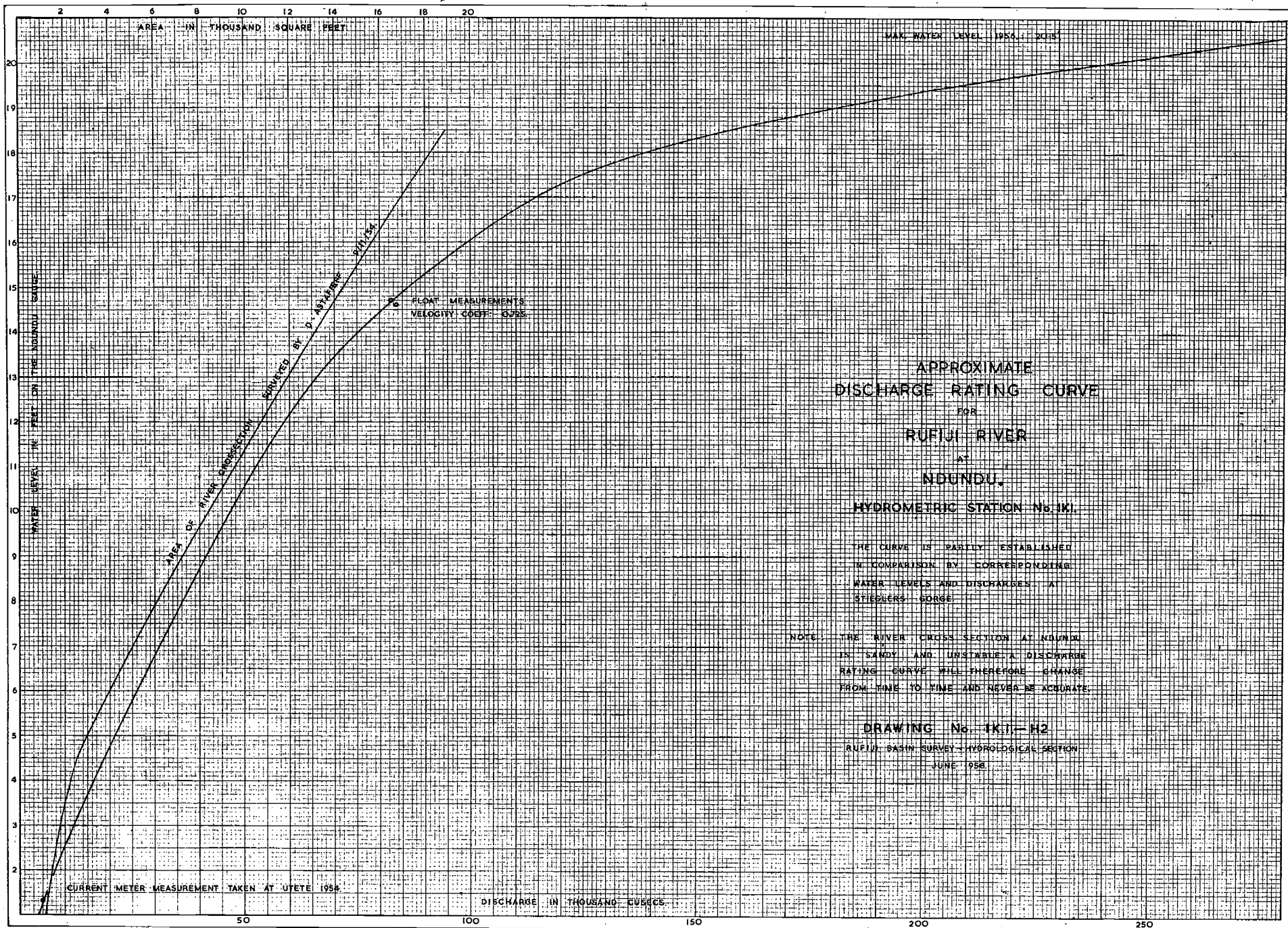


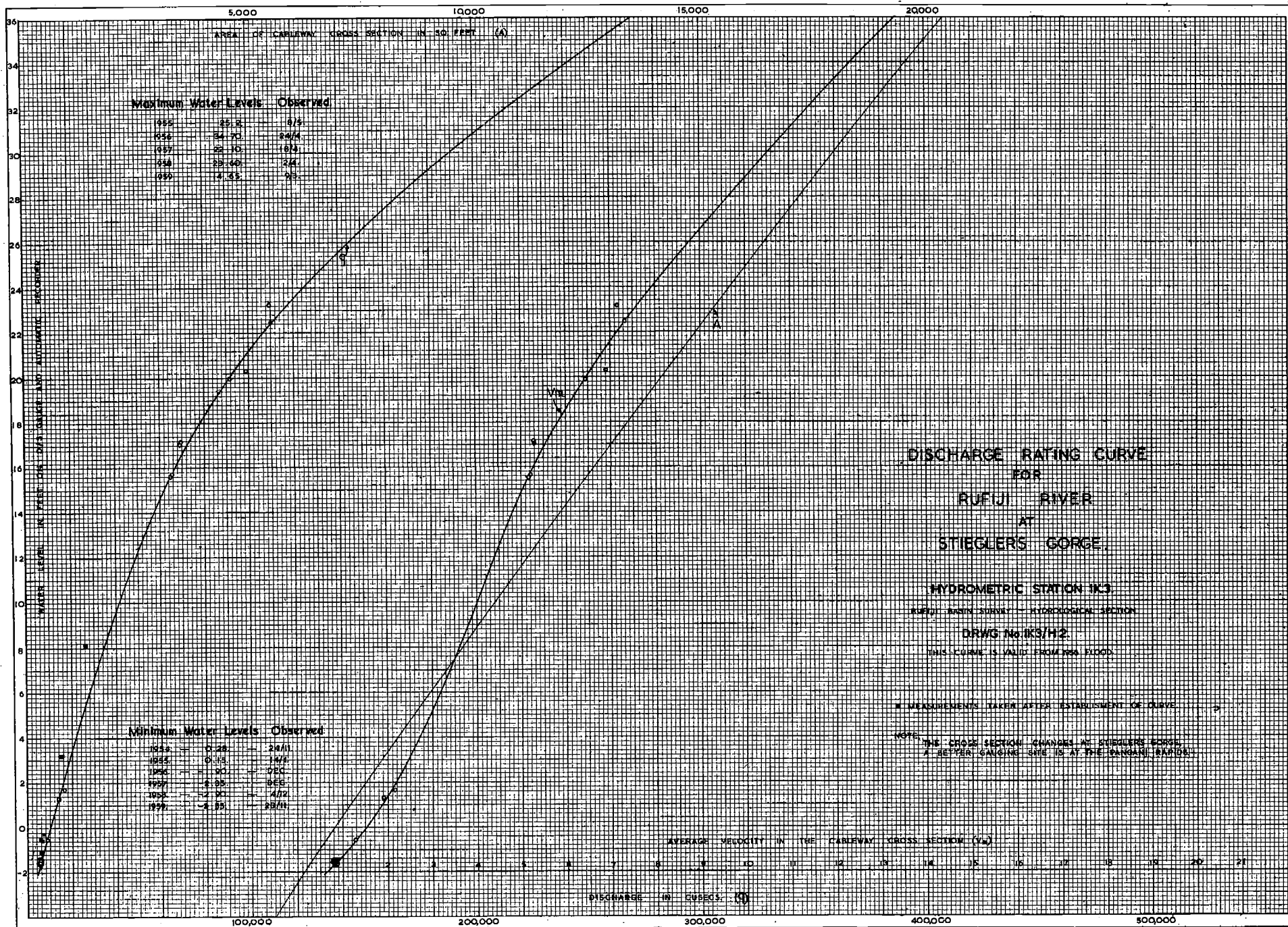
RATING CURVES

Curves are arranged according to their Station Code and Numbers.

	<u>Station No.</u>
1. Approximate Discharge Rating Curve, Ndundu.	1K1.
2. Discharge Rating Curve, Stiegler's Gorge.	1K3.
3. Float Measurements, Stiegler's Gorge.	1K3.
4. Water Level Correspondence, Stiegler's Gorge-Ndundu.	1K3.
5. Discharge Rating Curve, Madizini Estate.	1KA1.
6. Discharge Rating Curve, Iringa.	1KA2.
7. Discharge Rating Curve, Kidatu.	1KA3.
8. Water Level Correspondence, Kidatu-Hullels Camp.	1KA3.
9. Discharge Rating Curve, Mbuyuni.	1KA4.
10. Water Level Correspondence, Mbuyuni-Kidatu.	1KA4, 1KA3.
11. Discharge Rating Curve, Mtera.	1KA5.
12. Water Level Correspondence, Mtera-Mbuyuni.	1KA5, 1KA4.
13. Old Discharge Rating Curves, Chimala.	1KA7.
14. Discharge Rating Curves, Great Ruaha at Gt.N.Road.	1KA8.
15. Discharge Rating Curve Kimani.	1KA9.
16. Discharge Rating Curves, Mbarali-Igawa.	1KA11.
17. Discharge Rating Curves, Iyayi D/S.	1KA12.
18. Discharge Rating Curves, Ilongo.	1KA15.
19. Discharge Rating Curves, Rujewa Trial Farm.	1KA19.
20. Discharge Rating Curve, Rujewa Trial Farm.	1KA19.
21. Discharge Rating Curves, Tosamaganga.	1KA19.
22. Water Level Correlation, Tosamanganga-Iringa.	1KA19.
Tosamanganga-Mawande.	1KA19.
23. Discharge Rating Curve, Ihimbu.	1KA21.
24. Water Level Correspondence, Ihimbu-other Stations on Little Ruaha.	1KA21.
25. Discharge Rating Curve, Mtitu.	1KA22.
26. Discharge Rating Curve, Hukuni.	1KA23.
Discharge Rating Curve, halali U/S.	1KA46.
27. Discharge Rating Curve, Kisilwa.	1KA26.
28. Discharge Rating Curve, Hausmann's Bridge.	1KA27.
29. Discharge Rating Curve, Ifumba.	1KA29.

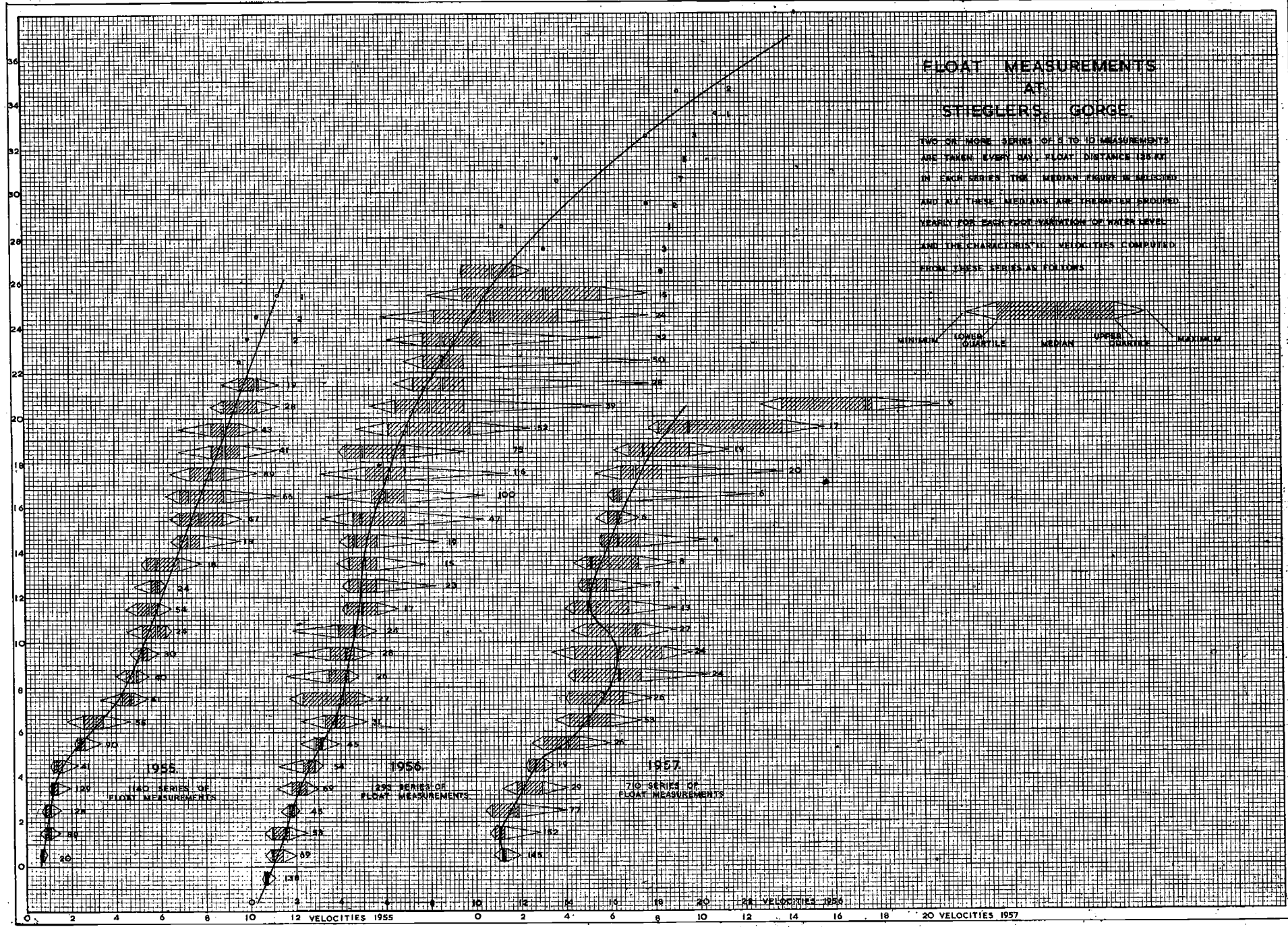
30.	Discharge Rating Curve, Mawando.	1KA31.
31.	Discharge Rating Curve, S.H.Club.	1KA32.
32.	Discharge Rating Curve, Madibira.	1KA33.
33.	Discharge Rating Curve, Majojolo.	1KA36.
34.	Discharge Rating Curve, Mtandika.	1KA37.
35.	Discharge Rating Curve, Yovi, Gt. Rucha Confluence.	1KA38.
36.	Discharge Rating Curve, Iwawa.	1KA39.
37.	Discharge Rating Curve, Ilangali.	1KA41.
38.	Discharge Rating Curve, Kinunguru.	1KA42.
39.	Discharge Rating Curve, Iyayi U/S on same sheet as Hukuni.	1KA23.
39.	Discharge Rating Curve, Liosi, New Road.	1KA48.
40.	Discharge Rating Curve, Mambi, New Road.	1KA49.
41.	Discharge Rating Curve, Msolwa.	1KB1.
42.	Discharge Rating Curve, Kilombero, Ifakara.	1KB2.
43.	Discharge Rating Curve, Lumemo, Ifakara.	1KB3.
44.	Discharge Rating Curve, Ifwema.	1KB4.
45.	Discharge Rating Curve, Ilonga.	1KB5.
46.	Discharge Rating Curve, Frick's Bridge.	1KB6.
47.	Discharge Rating Curve, Livalonga Bridge (Idege)	1KB7.
48.	Discharge Rating Curve, Mpanga.	1KB8.
49.	Discharge Rating Curve, Taveta.	1KB9.
50.	Discharge Rating Curve, Mwayamalungu (Mkasu)	1KB10.
51.	Discharge Rating Curve, Sofi.	1KB11.
52.	Discharge Rating Curve, Mchilipa.	1KB12.
53.	Discharge Rating Curve, Kibaoni.	1KB14.
54.	Discharge Rating Curve, Mchombe.	1KB15.
55.	Discharge Rating Curve, Malinyi.	1KB16.
56.	Discharge Rating Curve, Swero.	1KB17.





# FLOAT MEASUREMENTS AT STIEGLERS GORGE

TWO OR MORE SERIES OF 5 TO 10 MEASUREMENTS  
ARE TAKEN EVERY DAY. FLOAT DISTANCE USED  
IN EACH SERIES THE MEAN VALUE IS ADOPTED  
AND ALL THESE MEDIANS ARE THEREAFTER GROUPED  
YEARLY FOR EACH FOUR VARIATION OF WATER LEVEL  
AND THE CHARACTERISTIC VELOCITIES COMPUTED  
FROM THESE SERIES AS FOLLOWS:



1955

1956

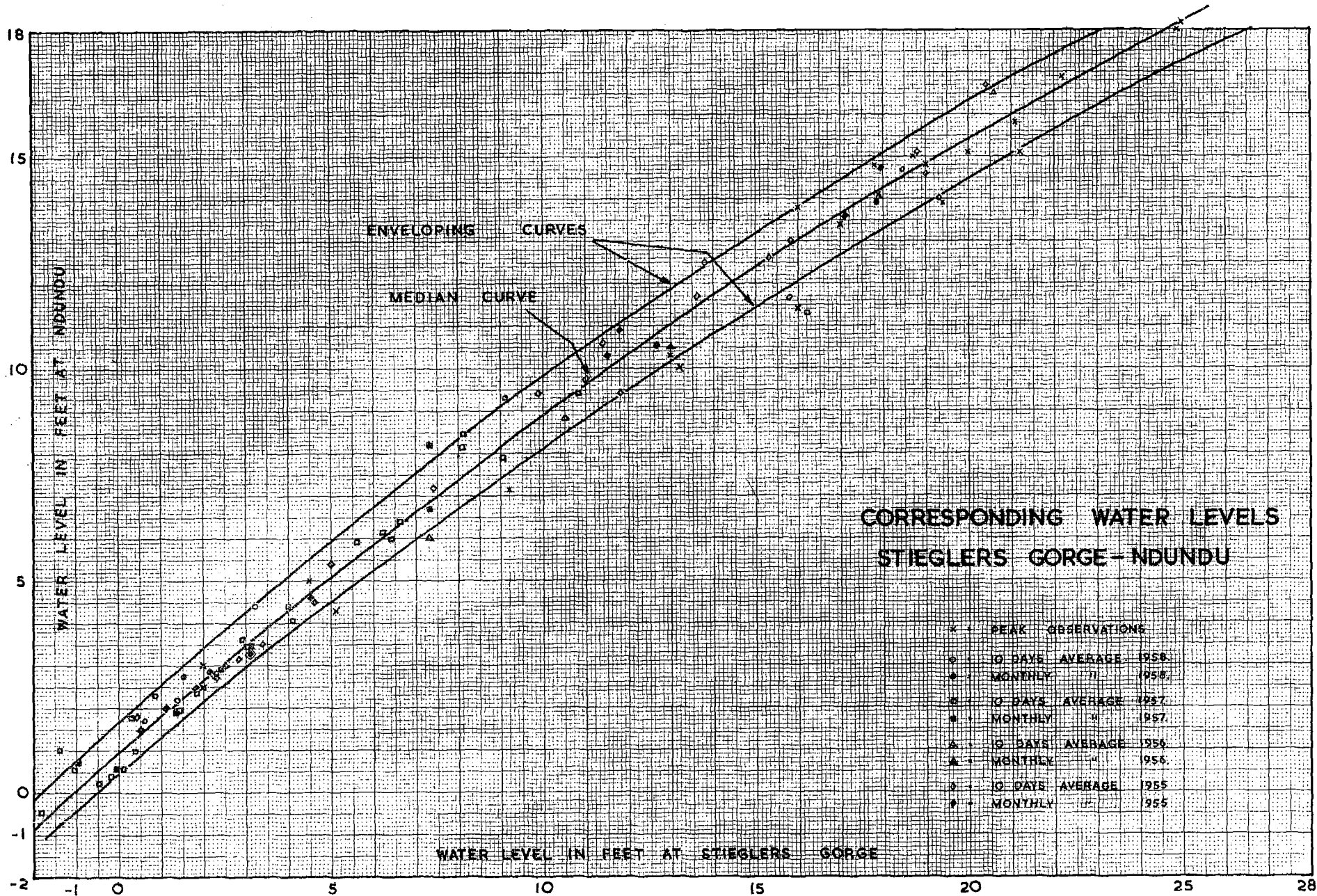
1957

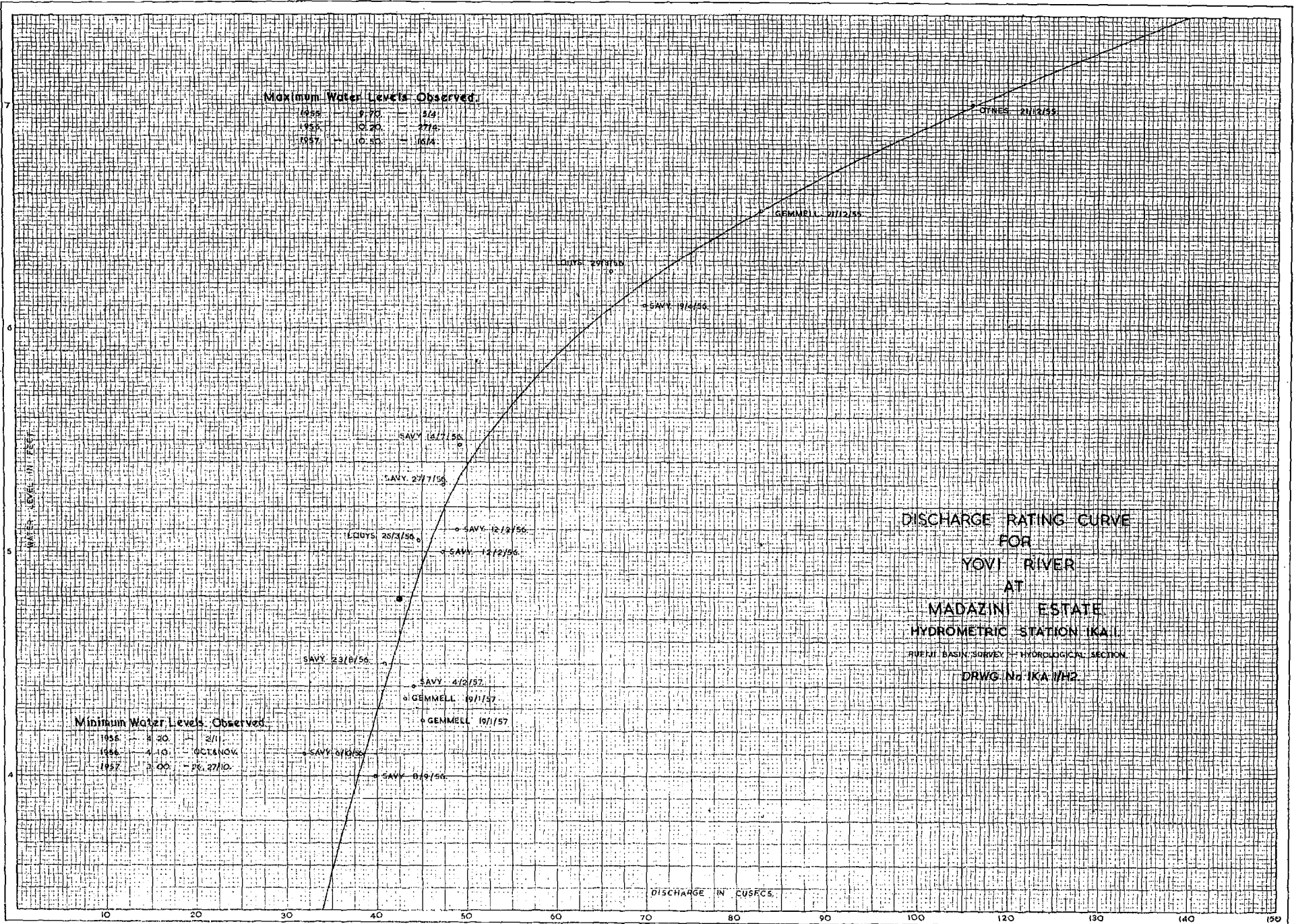
144 SERIES OF  
FLOAT MEASUREMENTS

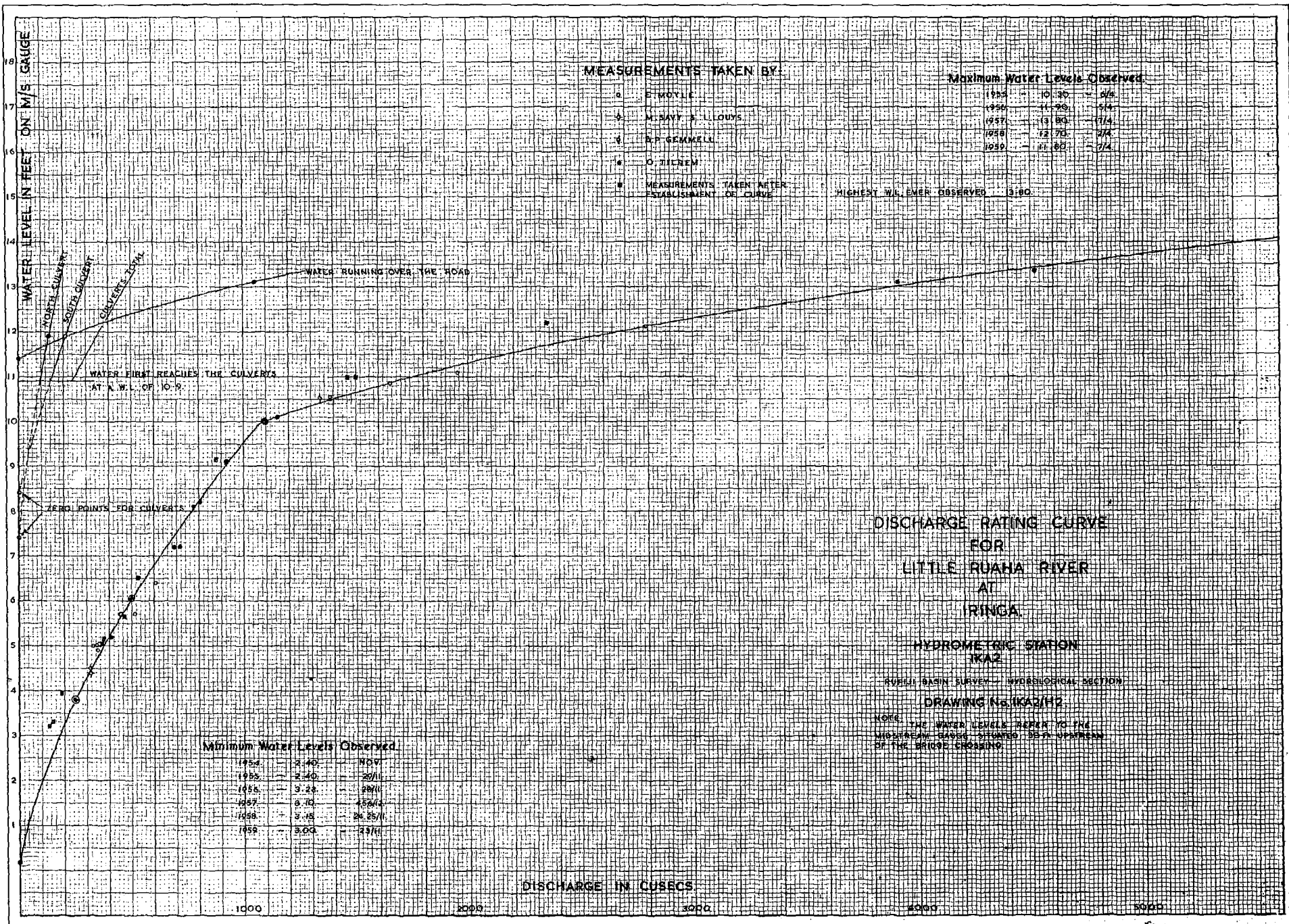
132 SERIES OF  
FLOAT MEASUREMENTS

210 SERIES OF  
FLOAT MEASUREMENTS

0 2 4 6 8 10 12 VELOCITIES 1955      0 2 4 6 8 10 12 14 16 18 20 VELOCITIES 1956      0 2 4 6 8 10 12 14 16 18 20 VELOCITIES 1957







**MEASUREMENTS TAKEN BY**

- F. WOYLE
- ◊ M. BAYF & LOUYS
- ▽ R. P. GEMMELL
- O. TILLEM
- MEASUREMENTS TAKEN AFTER ESTABLISHMENT OF CURVE

**Maximum Water Levels Observed**

1955	10.30	9/8
1956	11.25	5/11
1957	13.80	7/11
1958	12.75	2/11
1959	11.80	7/11

HIGHEST W.L. EVER OBSERVED 13.80

**Minimum Water Levels Observed**

1955	2.40	NDV
1956	2.40	20/11
1957	3.25	28/11
1958	3.70	15/11
1959	3.15	24/5/11
1959	3.00	23/11

**DISCHARGE RATING CURVE FOR LITTLE RUHA RIVER AT RINGA**

HYDROMETRIC STATION 1KA2

RURAL BASIN SURVEY - HYDROLOGICAL SECTION

DRAWING No. 1KA2/H2

NOTE: THE WATER LEVELS REFER TO THE MIDSTREAM GAUGE SITUATED 25 FT. UPSTREAM OF THE BRIDGE CROSSING.

DISCHARGE IN CUSECS



DISCHARGE RATING CURVE  
FOR  
GREAT RUAHA RIVER  
AT  
KIDATU

HYDROMETRIC STATION IKA3.

IRIDIJI BASIN SURVEY - HYDROLOGICAL SECTION

DRWG. No. IKA3/H2.

Maximum Water Levels Observed

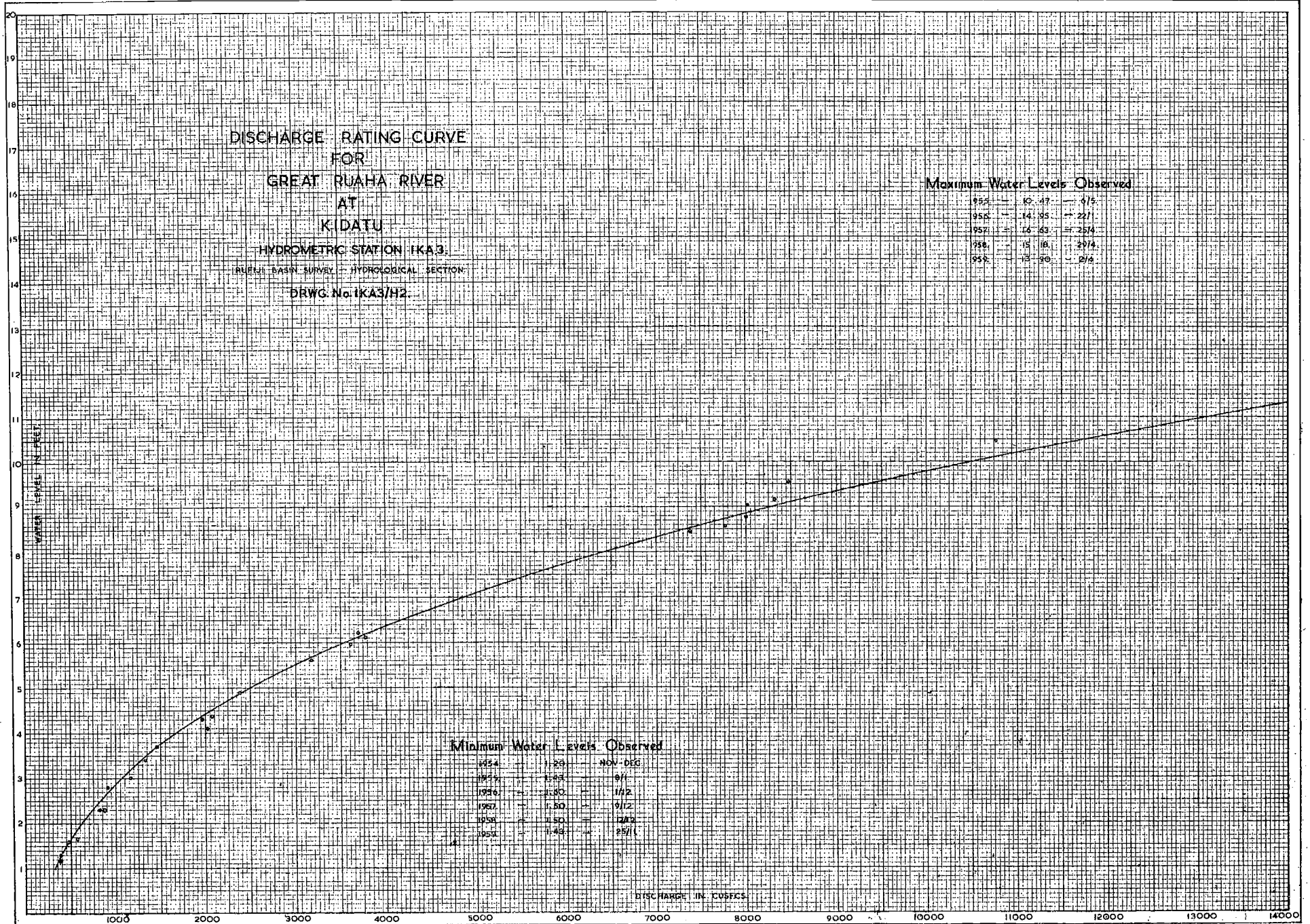
1954	10.47	1/5
1956	14.95	2/1
1957	16.63	2/14
1958	15.16	2/14
1958	13.20	2/6

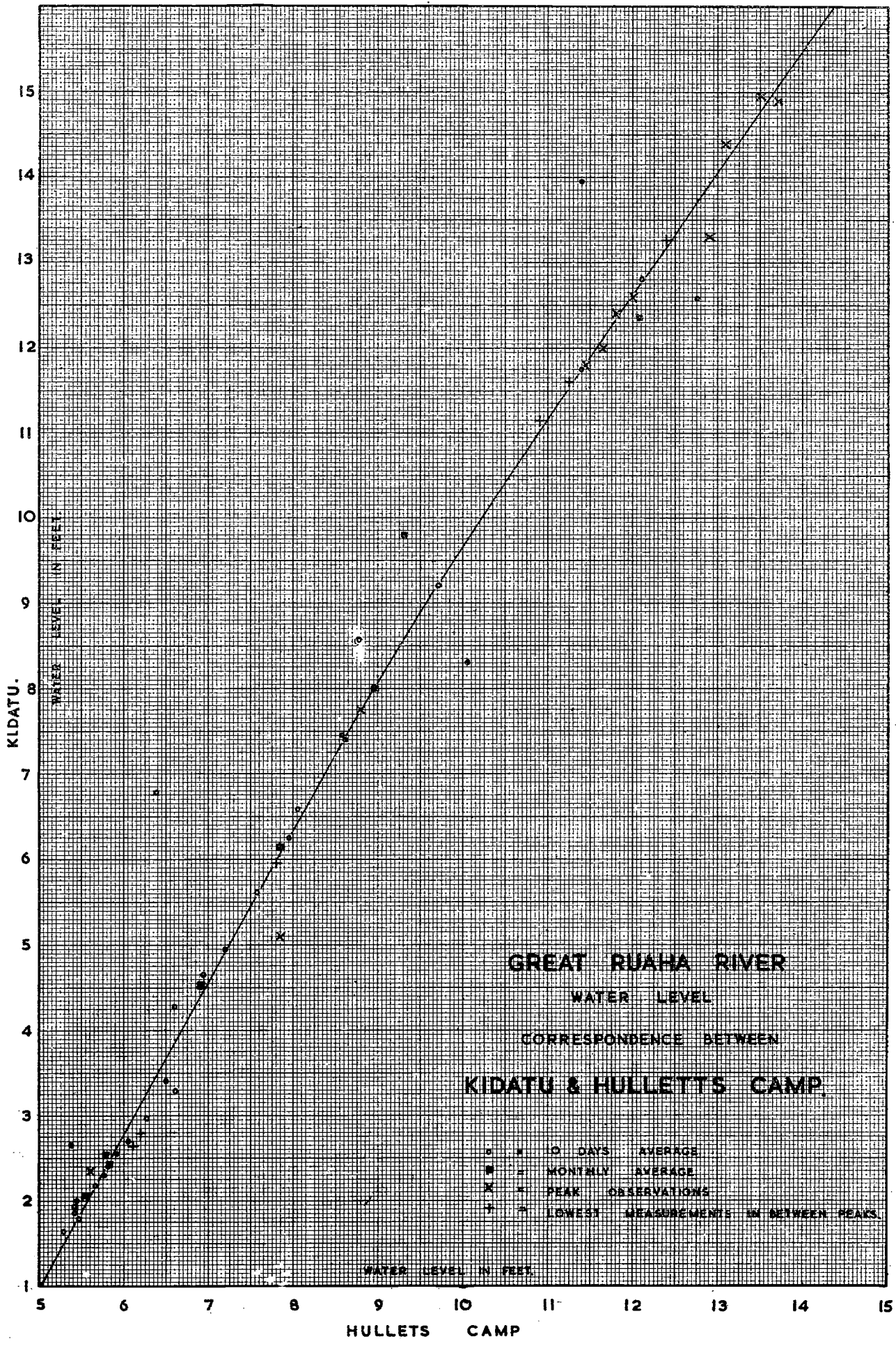
Minimum Water Levels Observed

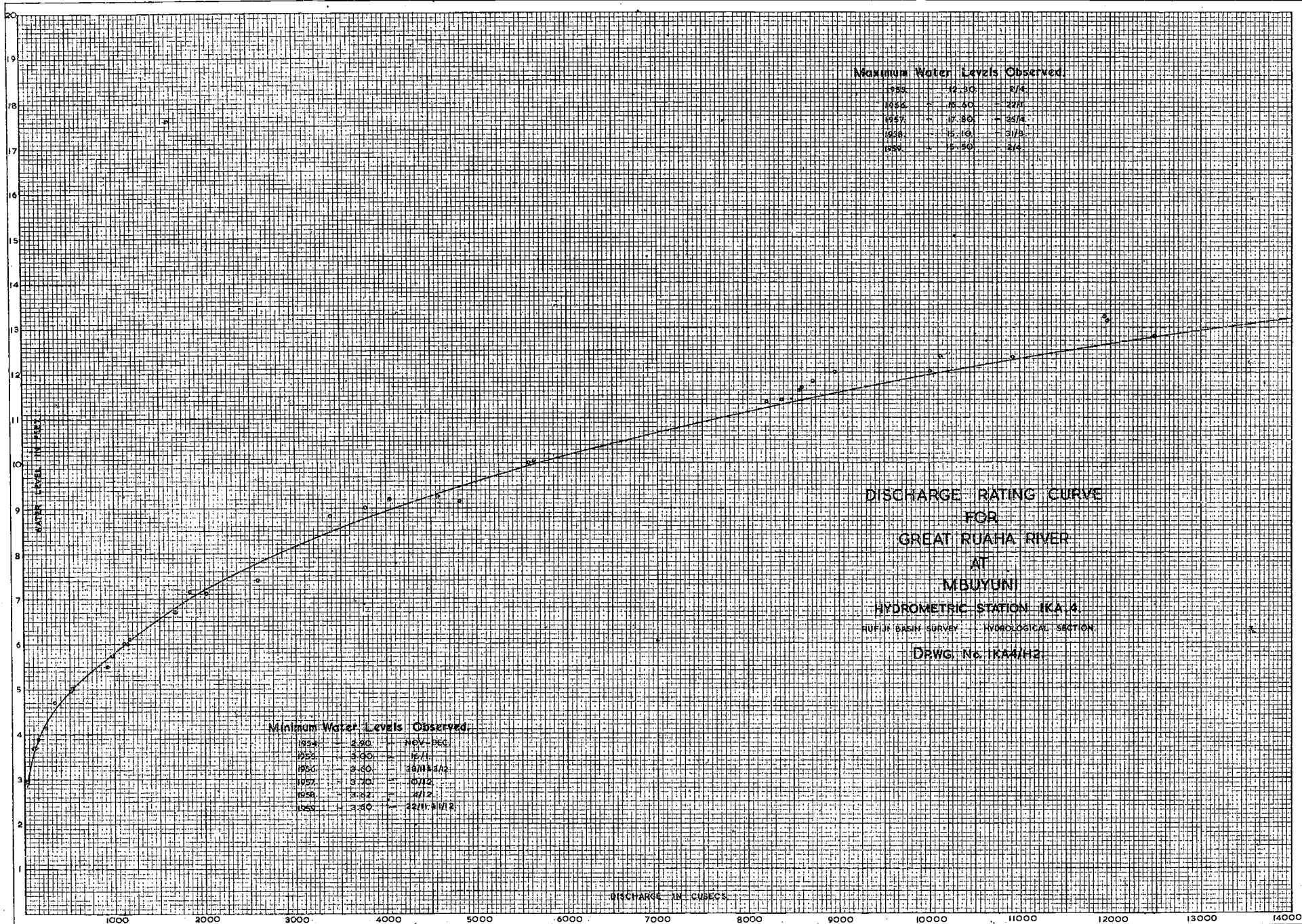
1954	1.29	NOV-DEC
1954	1.33	9/1
1956	1.30	1/12
1957	1.50	3/12
1958	1.50	12/3
1958	1.43	25/11

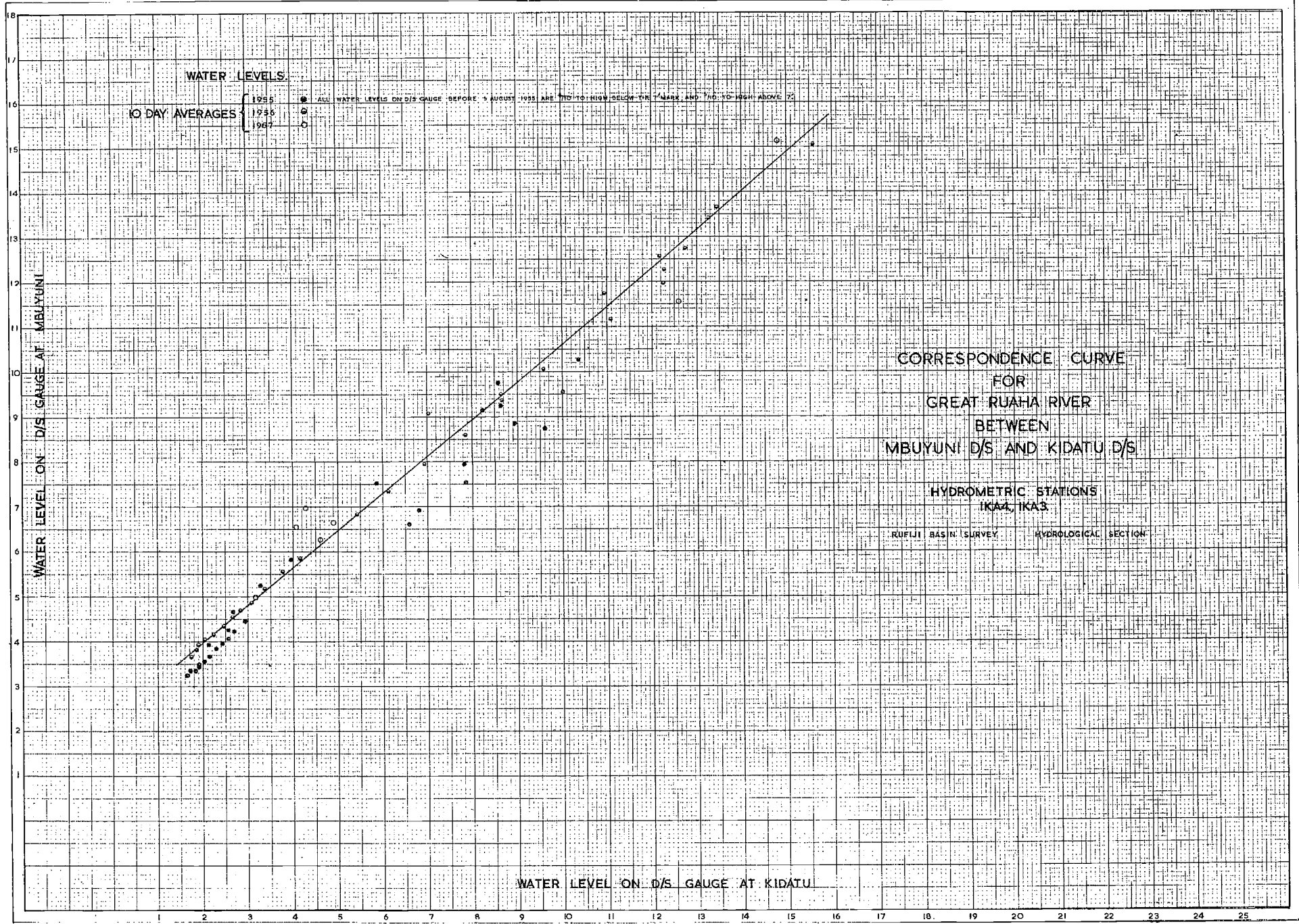
WATER LEVEL IN FEET

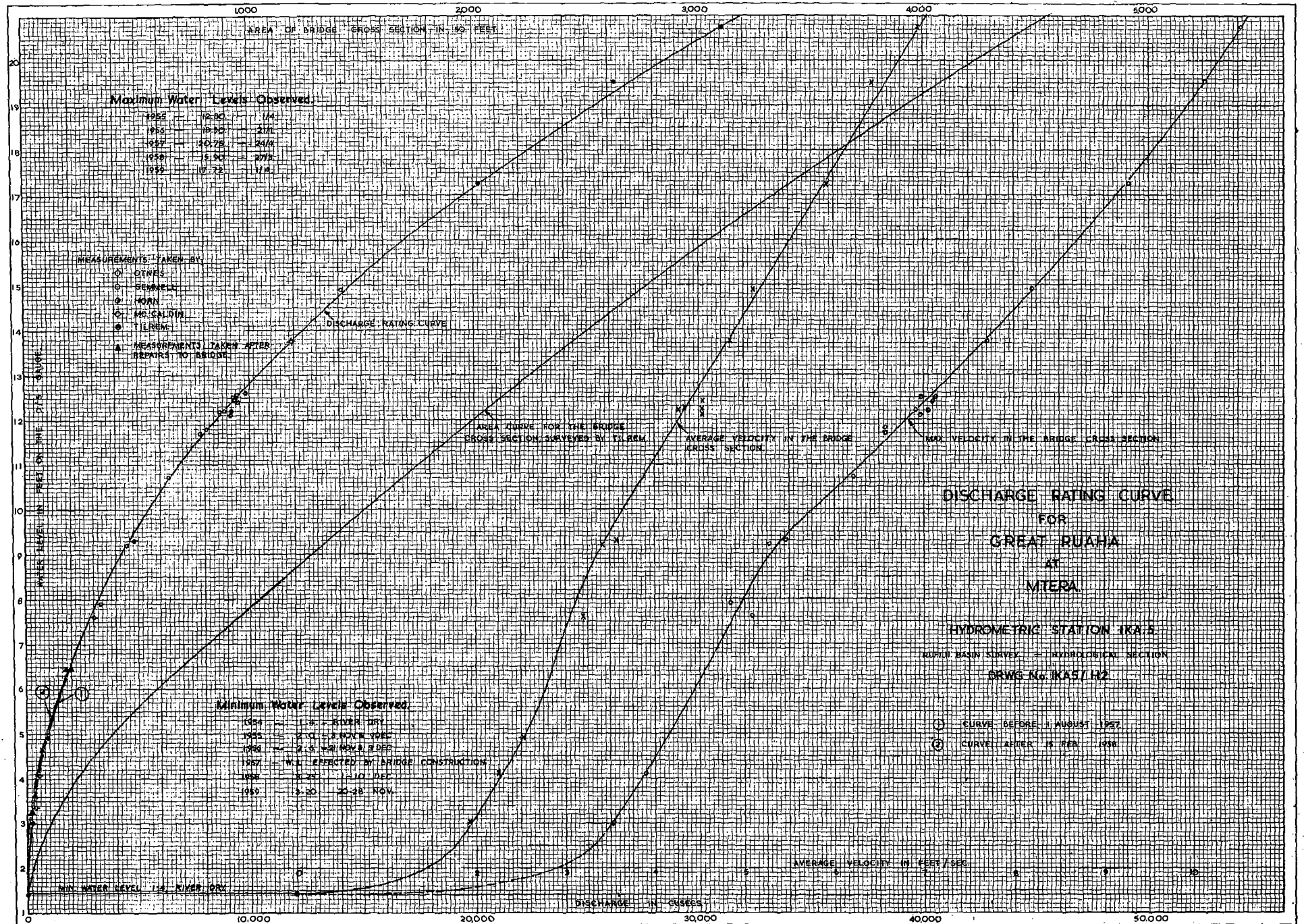
DISCHARGE IN CUSECS

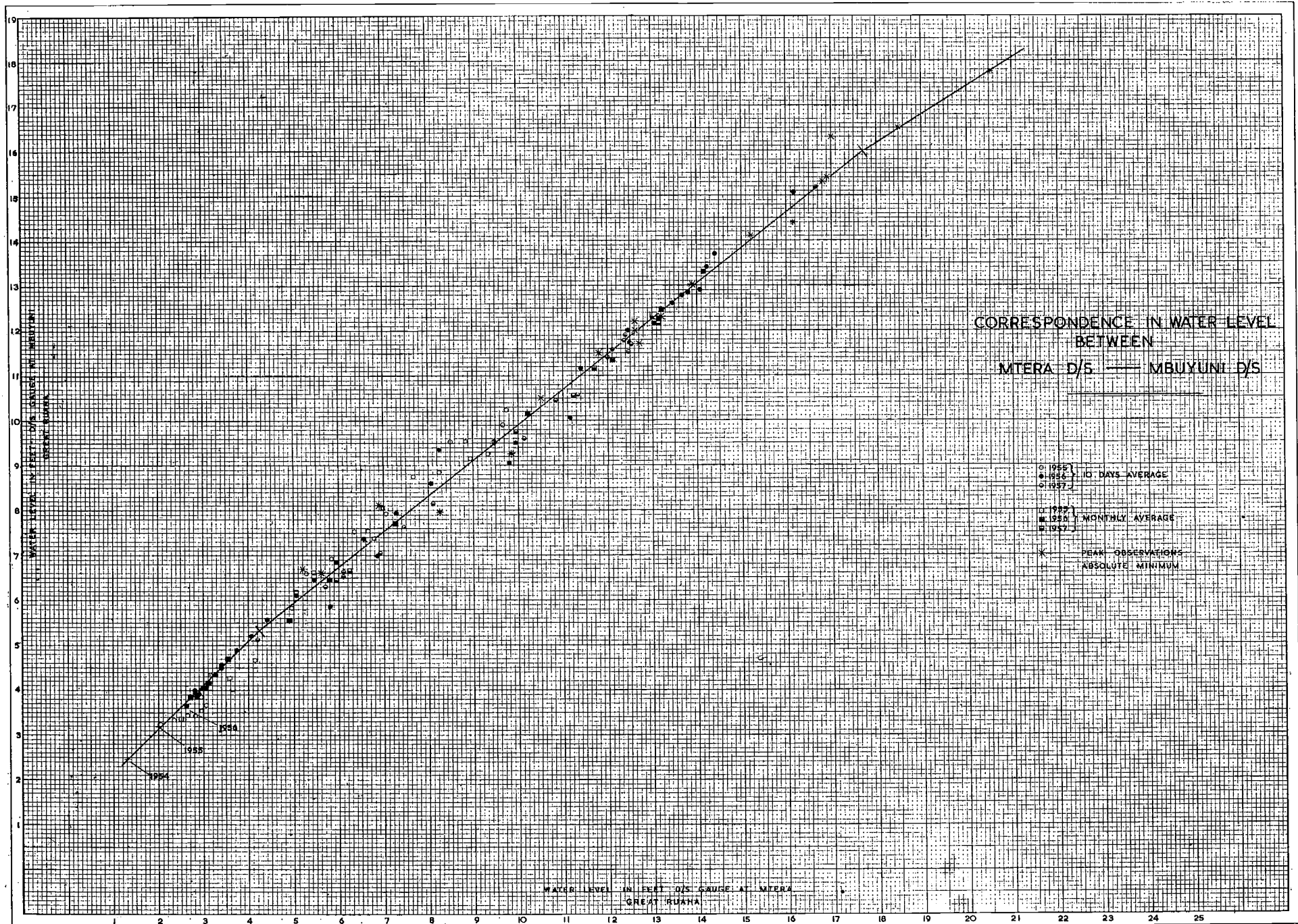


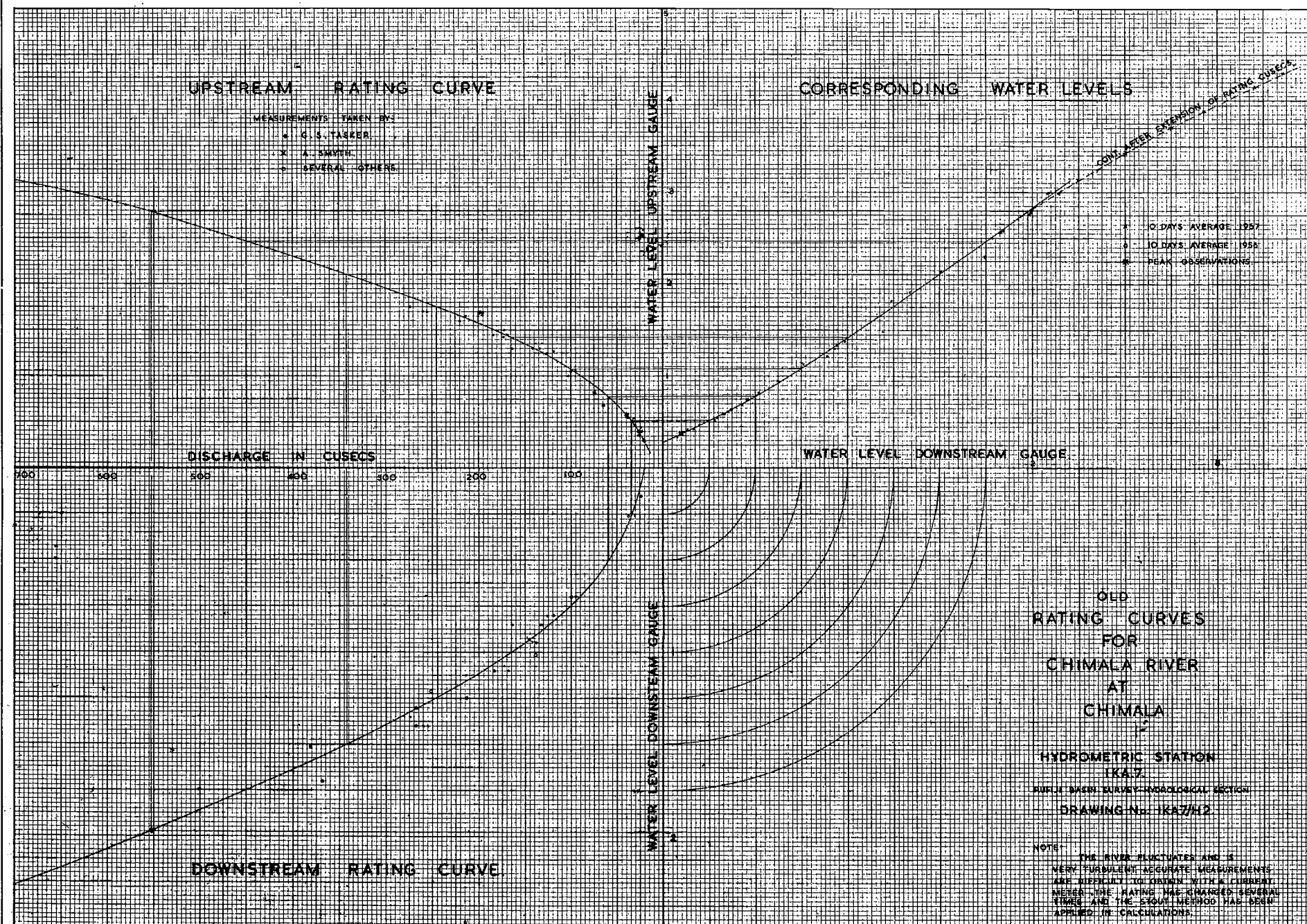












**UPSTREAM RATING CURVE**

MEASUREMENTS TAKEN BY:  
 \* G. S. TASKER  
 x A. SMITH  
 o SEVERAL OTHERS

**CORRESPONDING WATER LEVELS**

o DAYS AVERAGE 1927  
 x DAYS AVERAGE 1958  
 \* PEAK OBSERVATIONS

**DISCHARGE IN CUSECS**

700 600 500 400 300 200 100

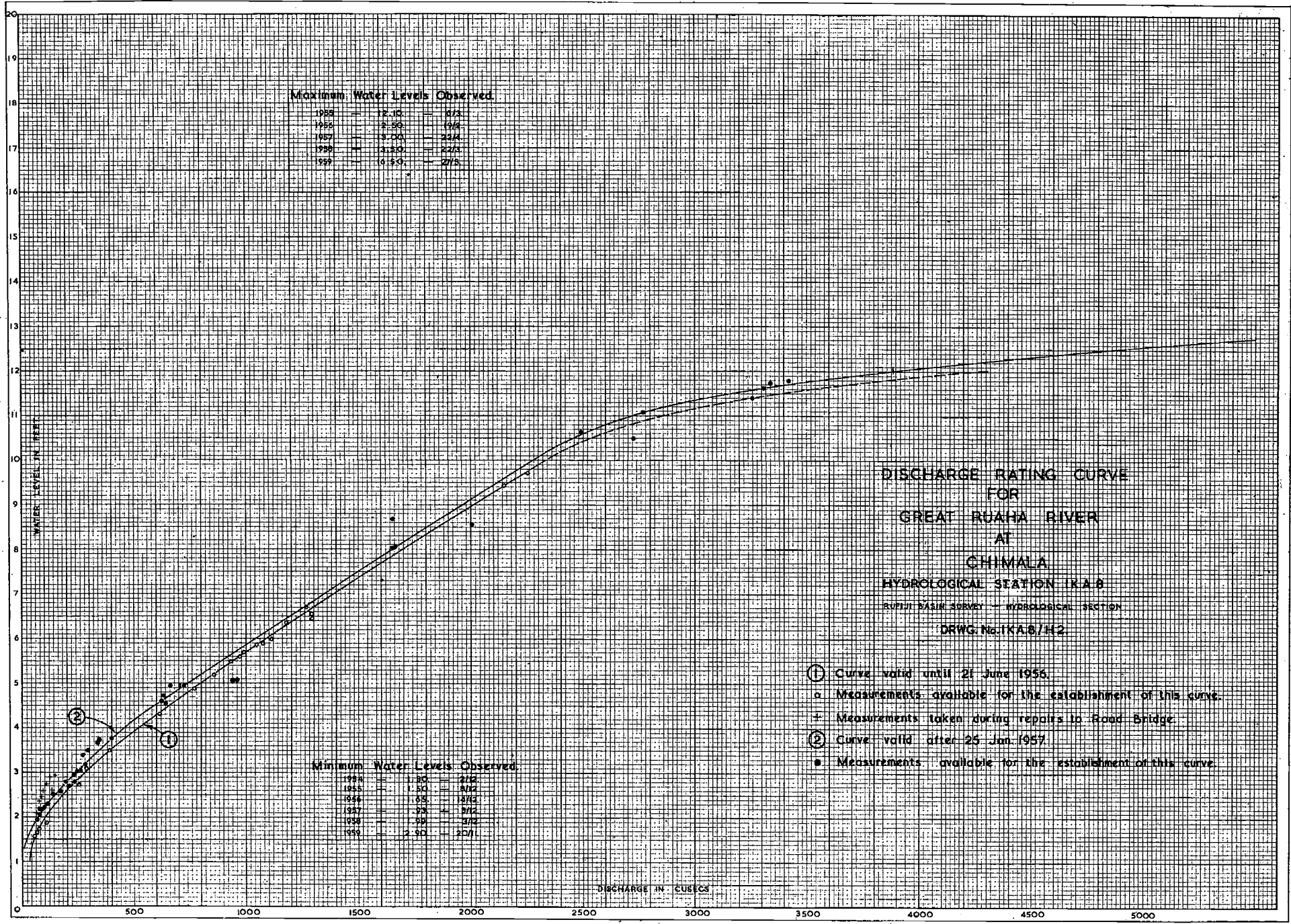
**WATER LEVEL DOWNSTREAM GAUGE**

**OLD RATING CURVES FOR CHIMALA RIVER AT CHIMALA**

HYDROMETRIC STATION IKA 7  
 RIVER BASIN SURVEY-HYDROLOGICAL SECTION  
 DRAWING No. IKA 7/H 2

**DOWNSTREAM RATING CURVE**

NOTE: THE RIVER FLUCTUATES AND IS VERY TURBULENT ACCURATE MEASUREMENTS ARE DIFFICULT AND THUS WITH A FEW MORE CURVE POINTS WERE OBTAINED SEVERAL TIMES AND THE SQUARE METHOD HAS BEEN APPLIED IN CALCULATIONS.



**Maximum Water Levels Observed**

1953	12.10	473
1955	7.50	194
1957	8.00	234
1958	4.50	275
1959	4.50	275

**DISCHARGE RATING CURVE  
FOR  
GREAT RUAHA RIVER  
AT  
CHIMALA  
HYDROLOGICAL STATION IKA B  
RUPIJI BASIN SURVEY - HYDROLOGICAL SECTION  
DRWG No. IKA B/342**

- ① Curve valid until 21 June 1956.
- Measurements available for the establishment of this curve.
- ± Measurements taken during repairs to Boad Bridge.
- ② Curve valid after 25 Jan 1957.
- Measurements available for the establishment of this curve.

**Minimum Water Levels Observed**

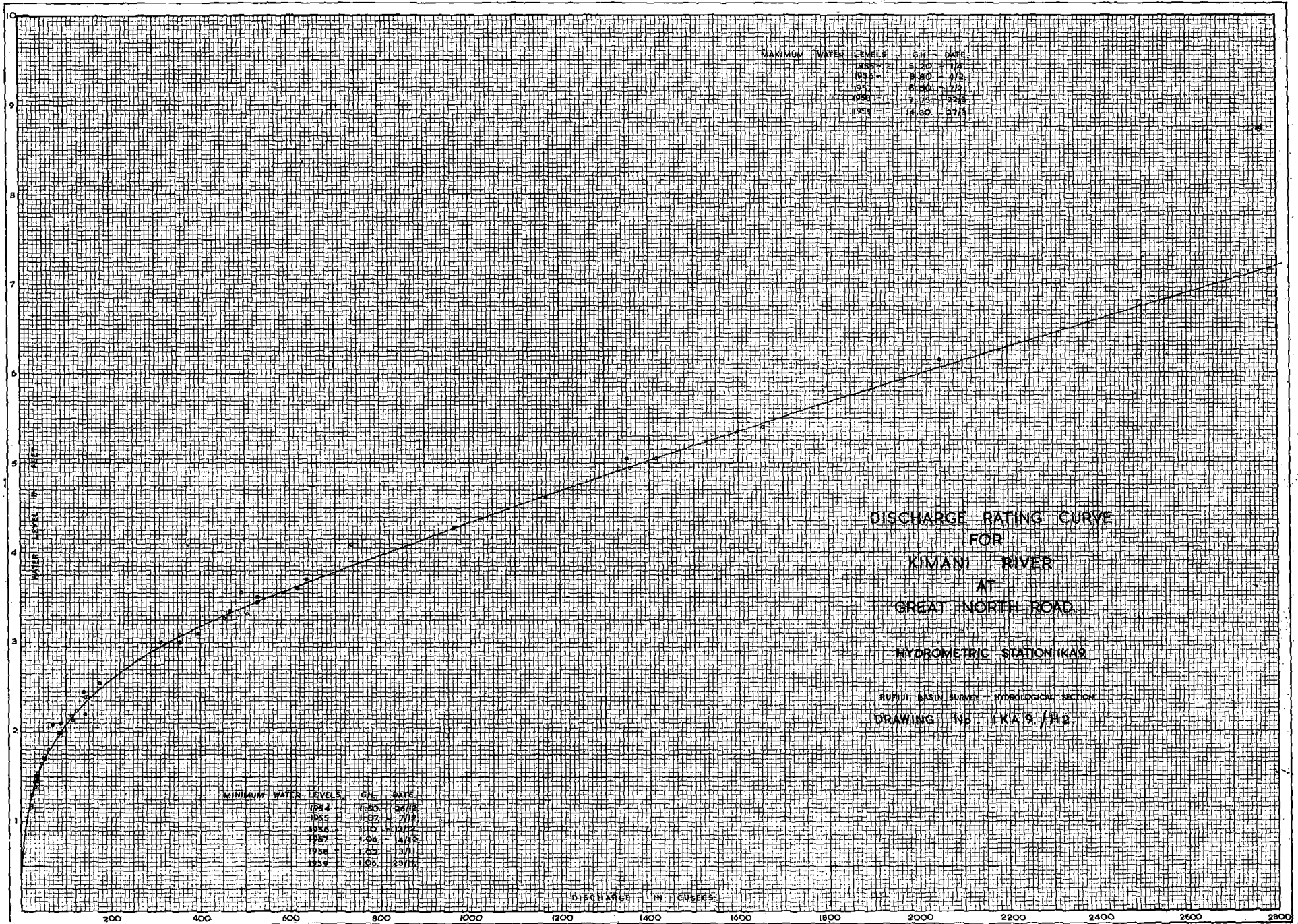
1954	1.80	212
1955	1.50	112
1956	0.8	1273
1957	0.7	312
1958	0.9	312
1959	2.50	2011

DISCHARGE IN CUSECS

WATER LEVEL IN FEET

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000

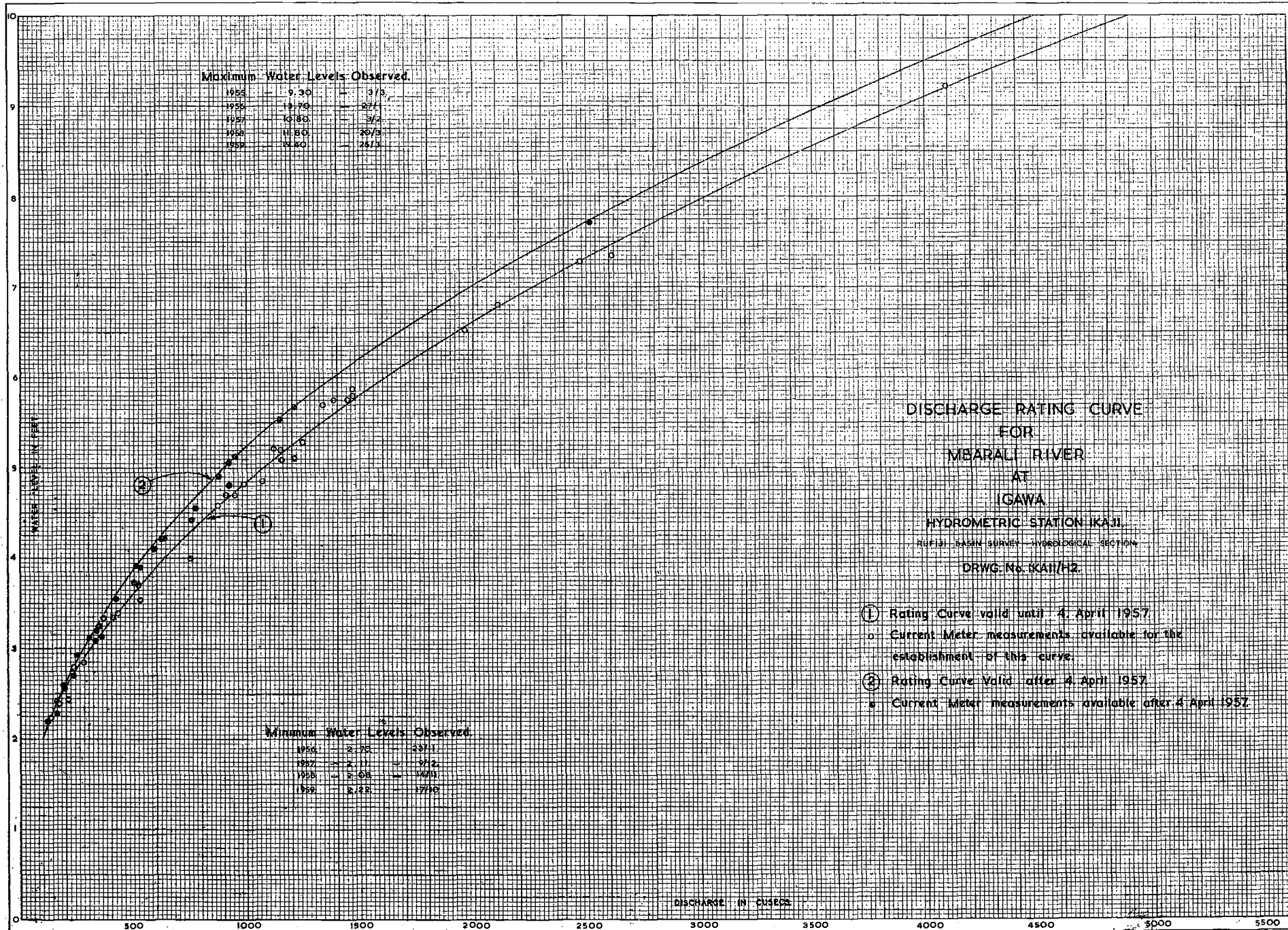




MINIMUM WATER LEVELS	G.H.	DATE
1954	1.50	26/12
1955	1.62	7/12
1956	1.70	12/12
1957	1.66	18/12
1958	1.62	13/11
1959	1.06	23/11

MINIMUM WATER LEVELS	G.H.	DATE
1954	1.50	26/12
1955	1.62	7/12
1956	1.70	12/12
1957	1.66	18/12
1958	1.62	13/11
1959	1.06	23/11

DISCHARGE RATING CURVE  
 FOR  
 KIMANI RIVER  
 AT  
 GREAT NORTH ROAD  
 HYDROMETRIC STATION IKA9  
 RUPAKI BASIN SURVEY - HYDROLOGICAL SECTION  
 DRAWING No. IKA 9 / H 2



RATING CURVES  
FOR  
HALALI RIVER  
AT  
IYAYI D/S

HYDROMETRIC STATION  
IKA-12

UPPER BASIN SURVEY - HYDRO SECTION  
DRAWG No. IKA12/H2

Valid from 1 Jan 1957

Maximum W.L. Observed

1956	6.80	2373
1957	4.40	772
1958	5.20	1713
1959	8.00	2753

Minimum W.L. Observed

1952	RIVER DRY	
1954	"	"
1957	0.50	3003
1958	0.40	1212
1959	0.60	1116

WATER LEVEL HEIGHT IN FEET

WATER LEVEL HEIGHT IN FEET

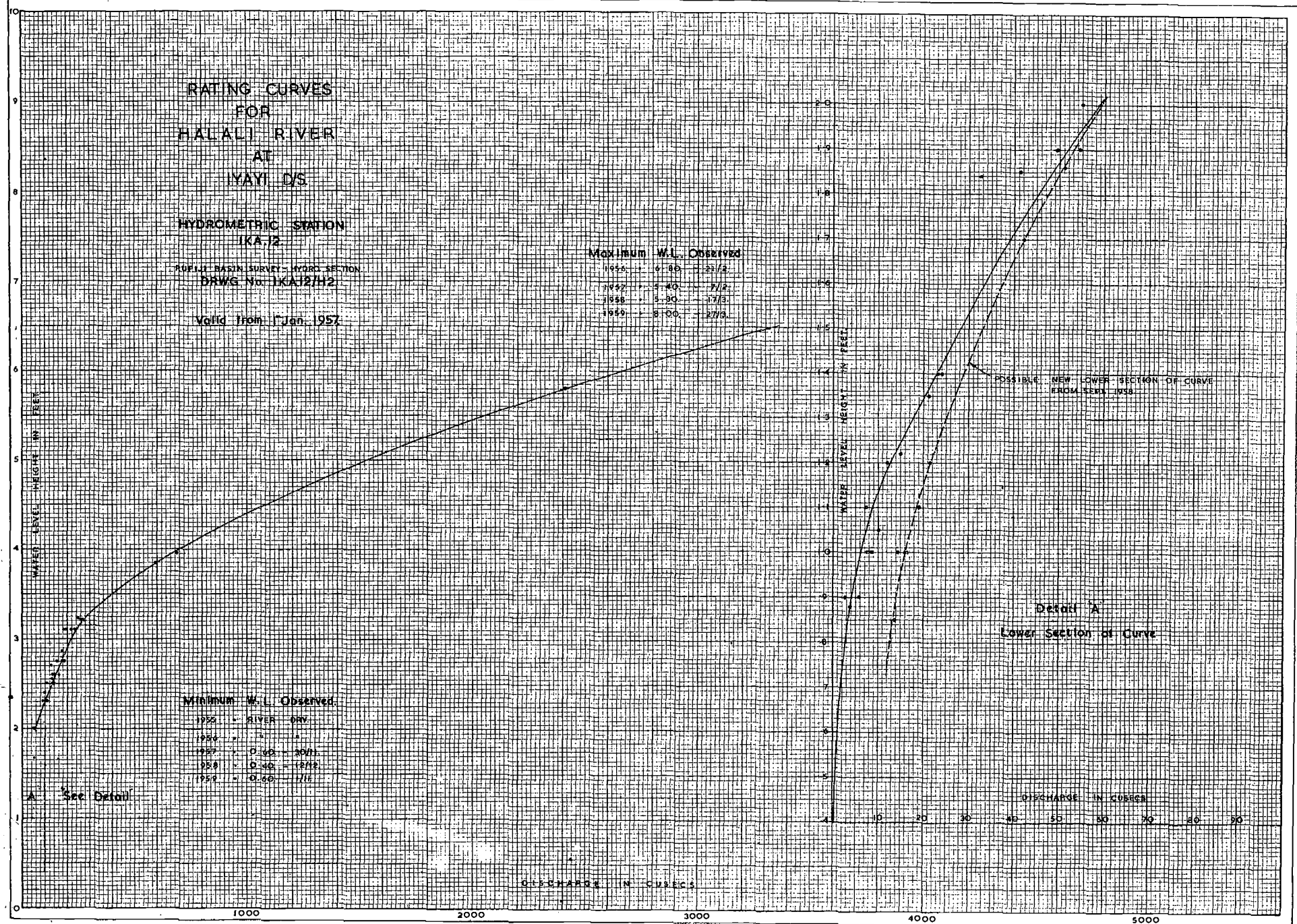
POSSIBLE NEW LOWER SECTION OF CURVE FROM SECT. 1958

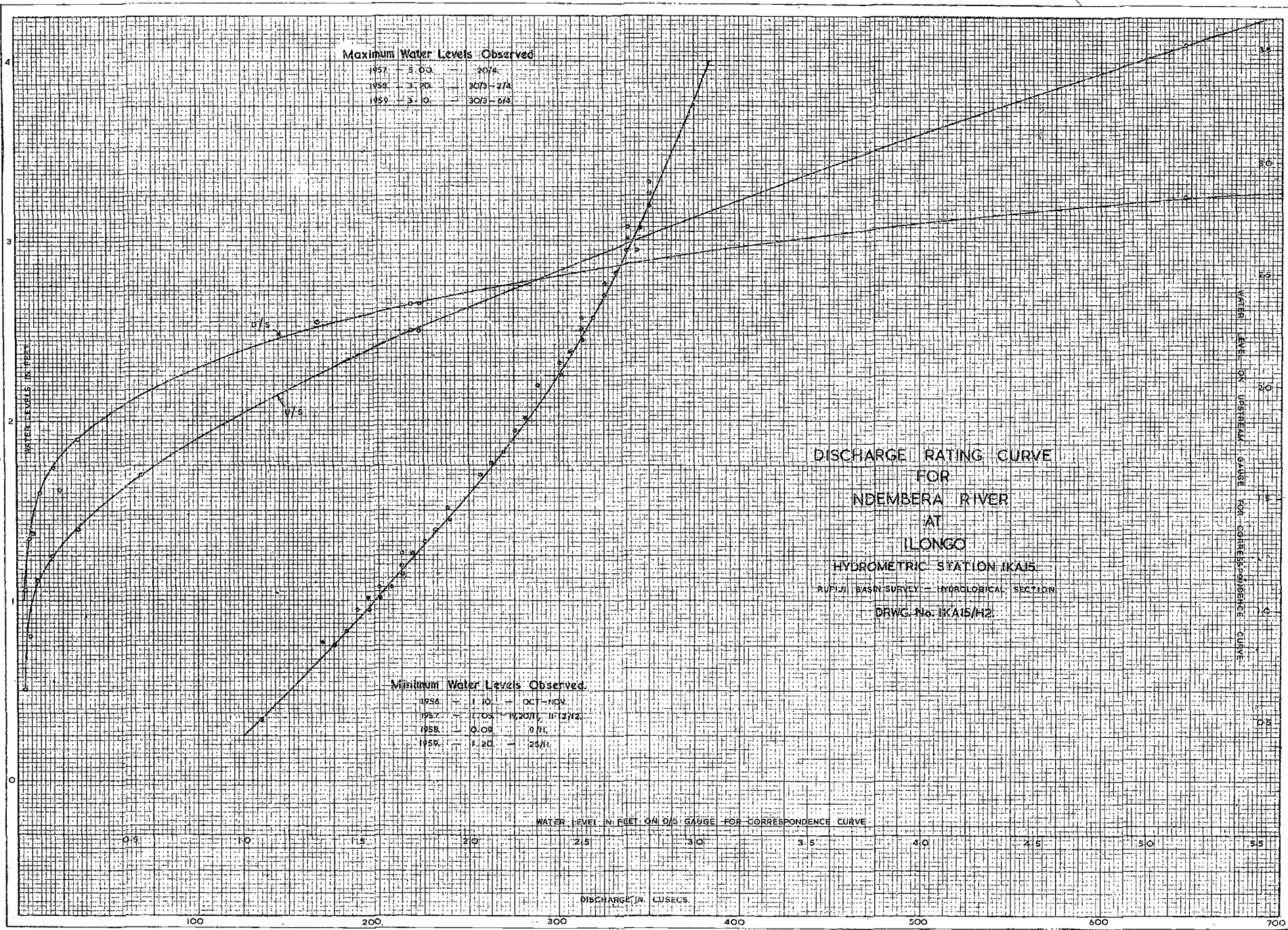
Detail A  
Lower Section of Curve

A See Detail

DISCHARGE IN CUSECS

DISCHARGE IN CUSECS





**Maximum Water Levels Observed**

1957	5.00	3074
1958	3.20	2073-274
1959	3.10	3073-614

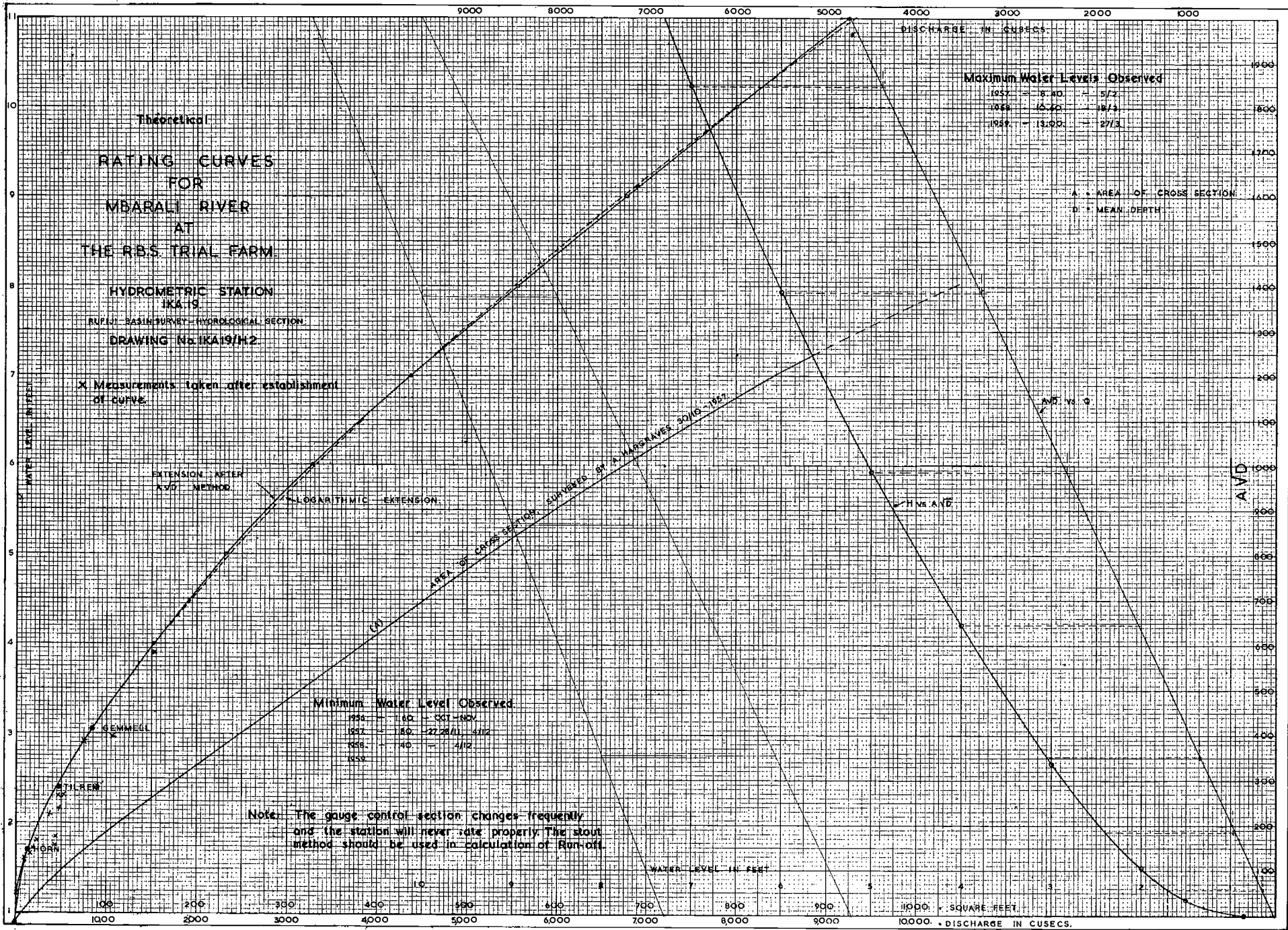
**Minimum Water Levels Observed**

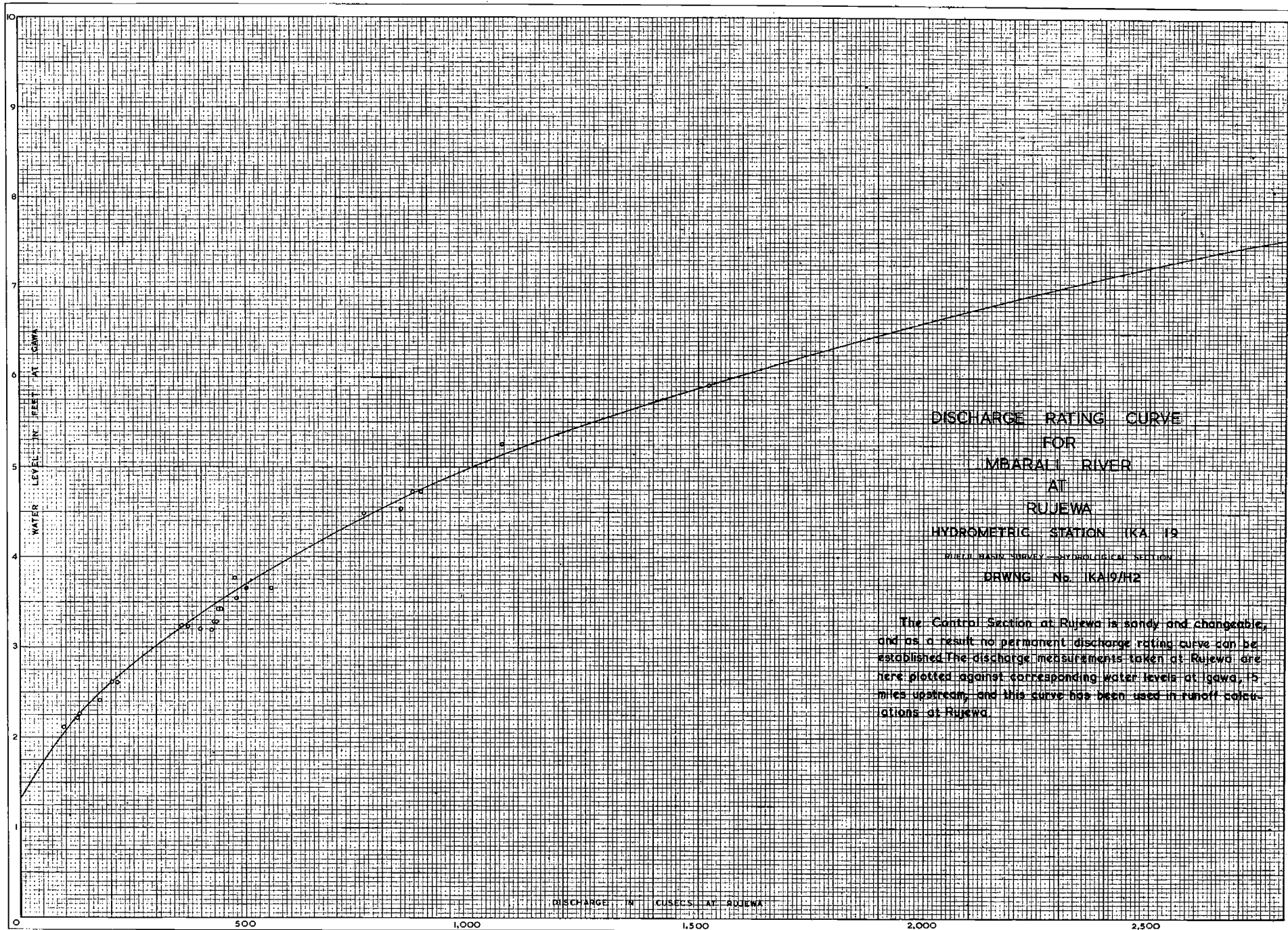
1956	1.10	OCT-NOV
1957	0.05	18,20/11, 11/2/12
1958	0.05	9/11
1959	1.20	25/11

DISCHARGE RATING CURVE  
FOR  
NDEMBERA RIVER  
AT  
ILONGO  
HYDROMETRIC STATION IKAIS  
RUFUMI BASIN SURVEY - HYDROLOGICAL SECTION  
DRWG. No. IKAIS/H2

WATER LEVEL IN FEET ON G/S GAUGE FOR CORRESPONDENCE CURVE

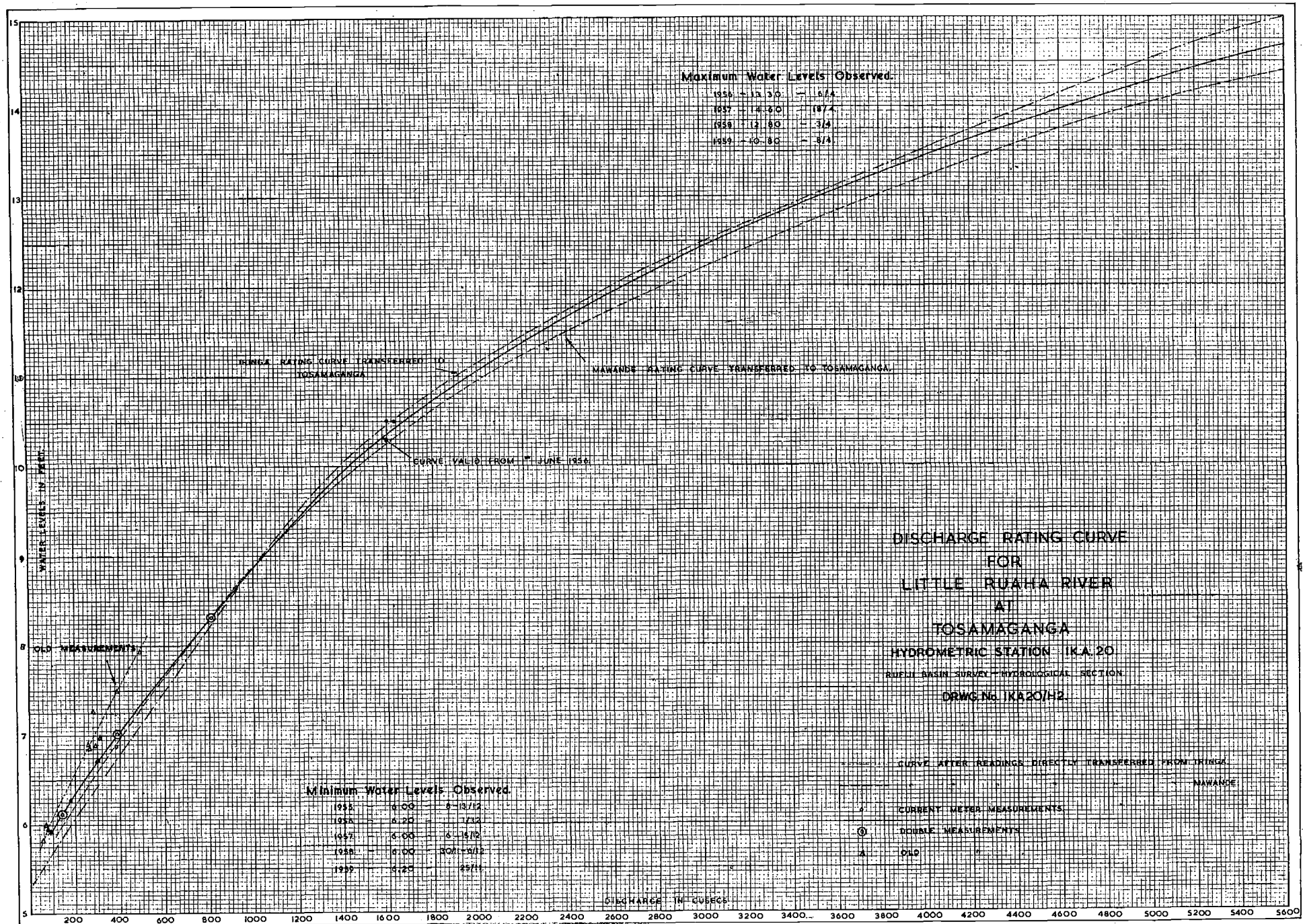
DISCHARGE IN CUSECS





DISCHARGE RATING CURVE  
 FOR  
 MBARALI RIVER  
 AT  
 RUJEWA  
 HYDROMETRIC STATION IKA 19  
 WIRTH BASIN SURVEY - HYDROLOGICAL SECTION  
 BRWG. No. IKA 19/H2

The Control Section at Rujeva is sandy and changeable, and as a result no permanent discharge rating curve can be established. The discharge measurements taken at Rujeva are here plotted against corresponding water levels at Gawa, 5 miles upstream, and this curve has been used in runoff calculations at Rujeva.



**Maximum Water Levels Observed.**

1956	12.50	1674
1937	14.60	1874
1939	13.80	314
1939	10.80	514

**Minimum Water Levels Observed.**

1935	6.00	6.10/12
1937	6.20	1712
1937	6.00	6.16/12
1938	6.00	1011-5/12
1939	6.20	2511

DISCHARGE RATING CURVE  
FOR  
LITTLE RUAHA RIVER  
AT  
TOSAMAGANGA  
HYDROMETRIC STATION I.K.A. 20  
RUFILI BASIN SURVEY - HYDROLOGICAL SECTION  
DRWG. No. I.K.A. 20/H2

- CURVE AFTER READINGS DIRECTLY TRANSFERRED FROM IRINGA
- NAWANKE
- CURRENT MEASUREMENTS
- ⊙ DOUBLE MEASUREMENTS
- △ OLD

IRINGA RATING CURVE TRANSFERRED TO TOSAMAGANGA

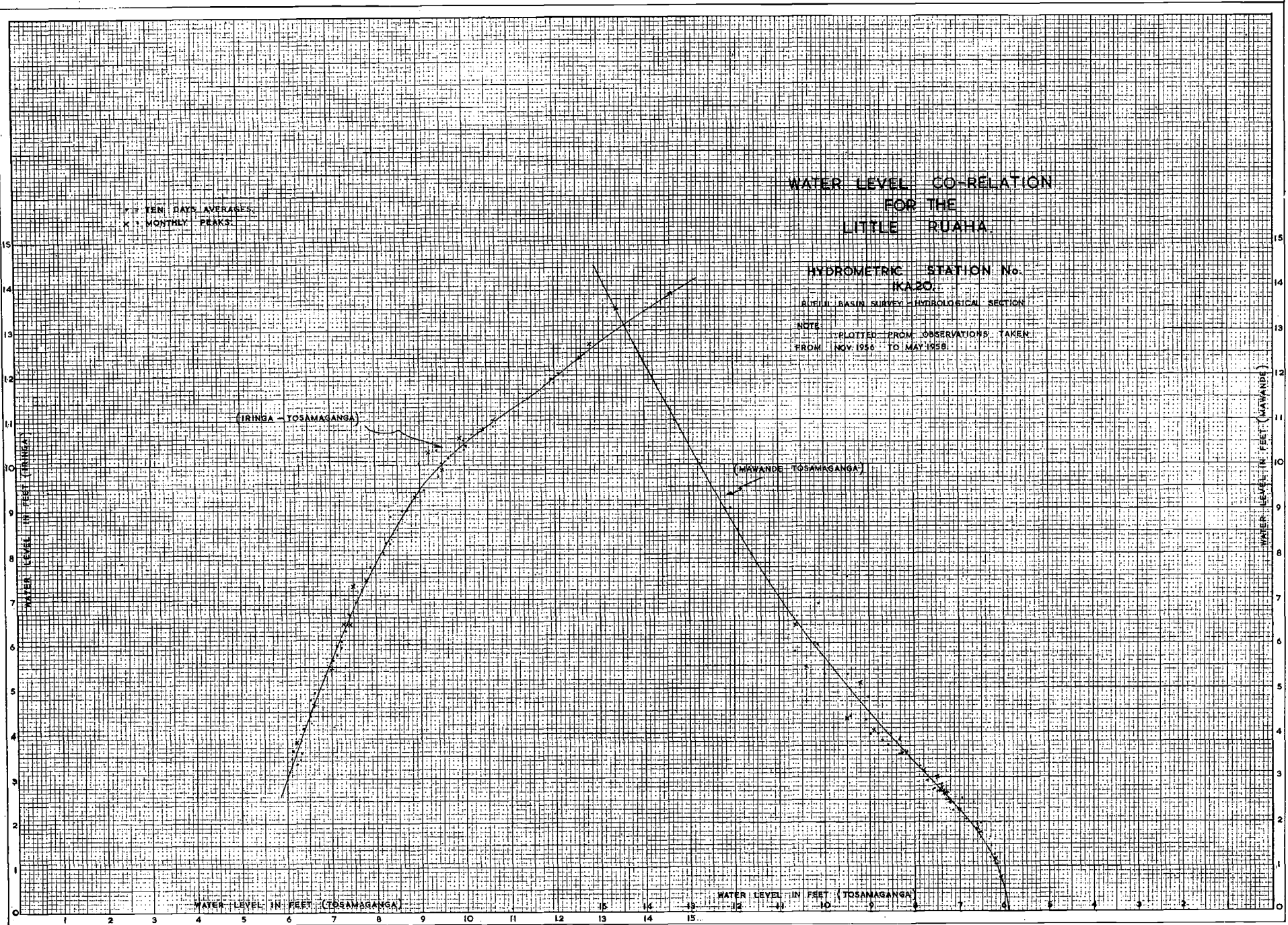
MAWANIKI RATING CURVE TRANSFERRED TO TOSAMAGANGA

CURVE VALID FROM 1<sup>st</sup> JUNE 1936

OLD MEASUREMENTS

DISCHARGE - IN CUBECFS

WATER LEVELS IN FEET



— TEN DAY AVERAGES  
 x MONTHLY PEAKS

WATER LEVEL CO-RELATION  
FOR THE  
LITTLE RUAHA.

HYDROMETRIC STATION No.  
IKAZO.

RUFUJI BASIN SURVEY - HYDROLOGICAL SECTION

NOTE: PLOTTED FROM OBSERVATIONS TAKEN  
FROM NOV. 1956 TO MAY 1958.

(IRINGA - TOSAMAGANGA)

(MAWANDE - TOSAMAGANGA)

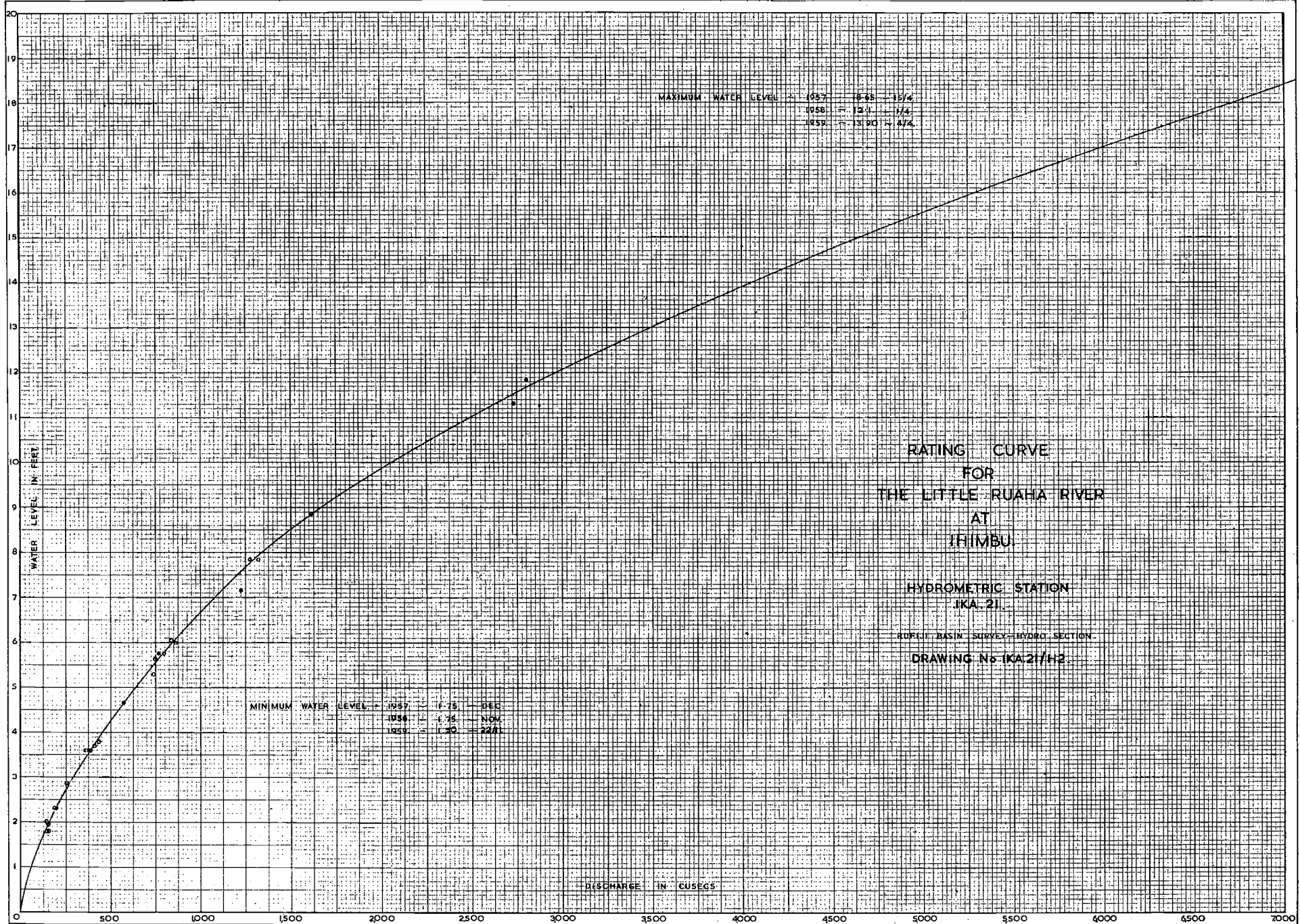
WATER LEVEL IN FEET (IRINGA)

WATER LEVEL IN FEET (MAWANDE)

WATER LEVEL IN FEET (TOSAMAGANGA)

WATER LEVEL IN FEET (TOSAMAGANGA)



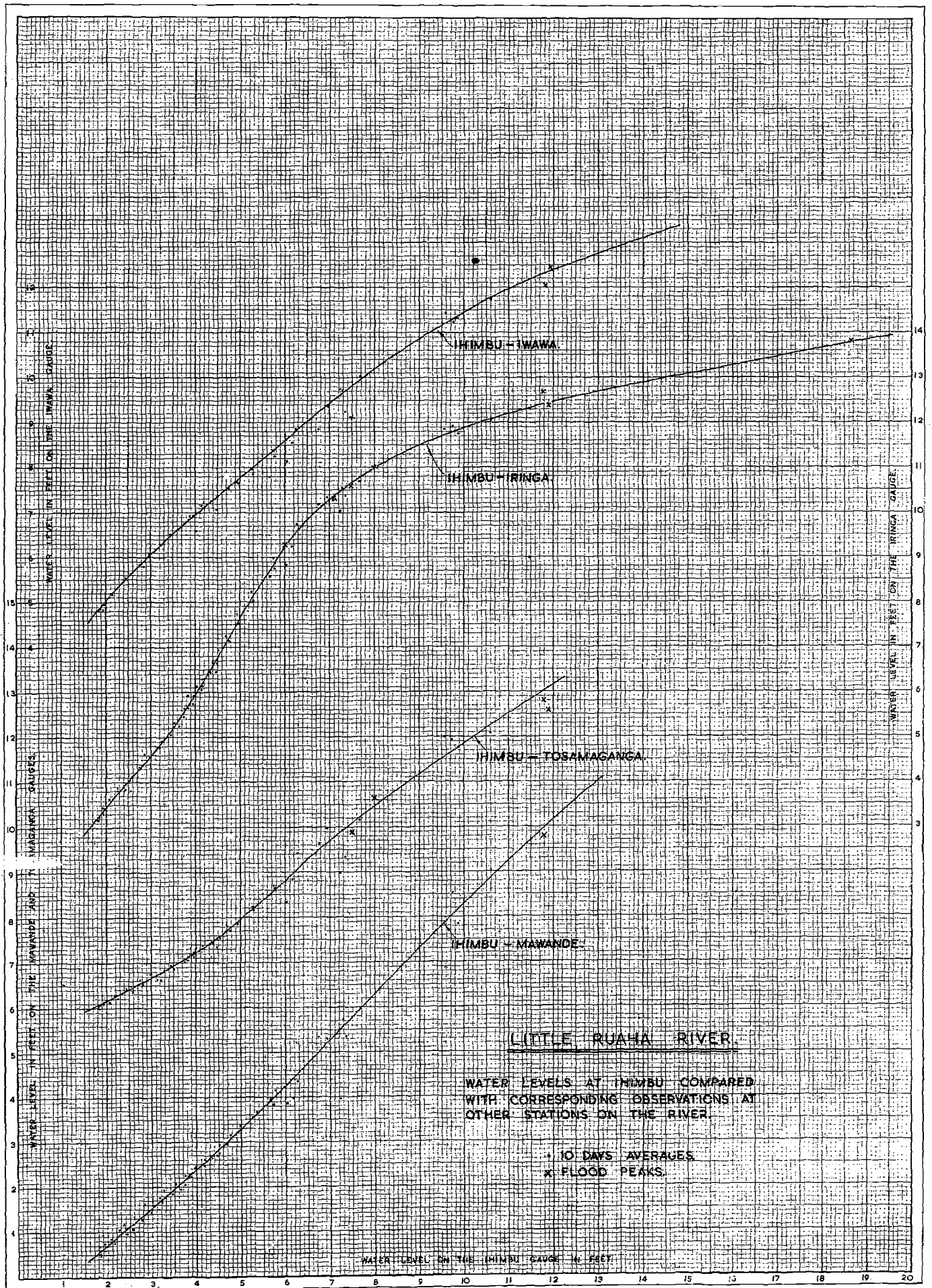


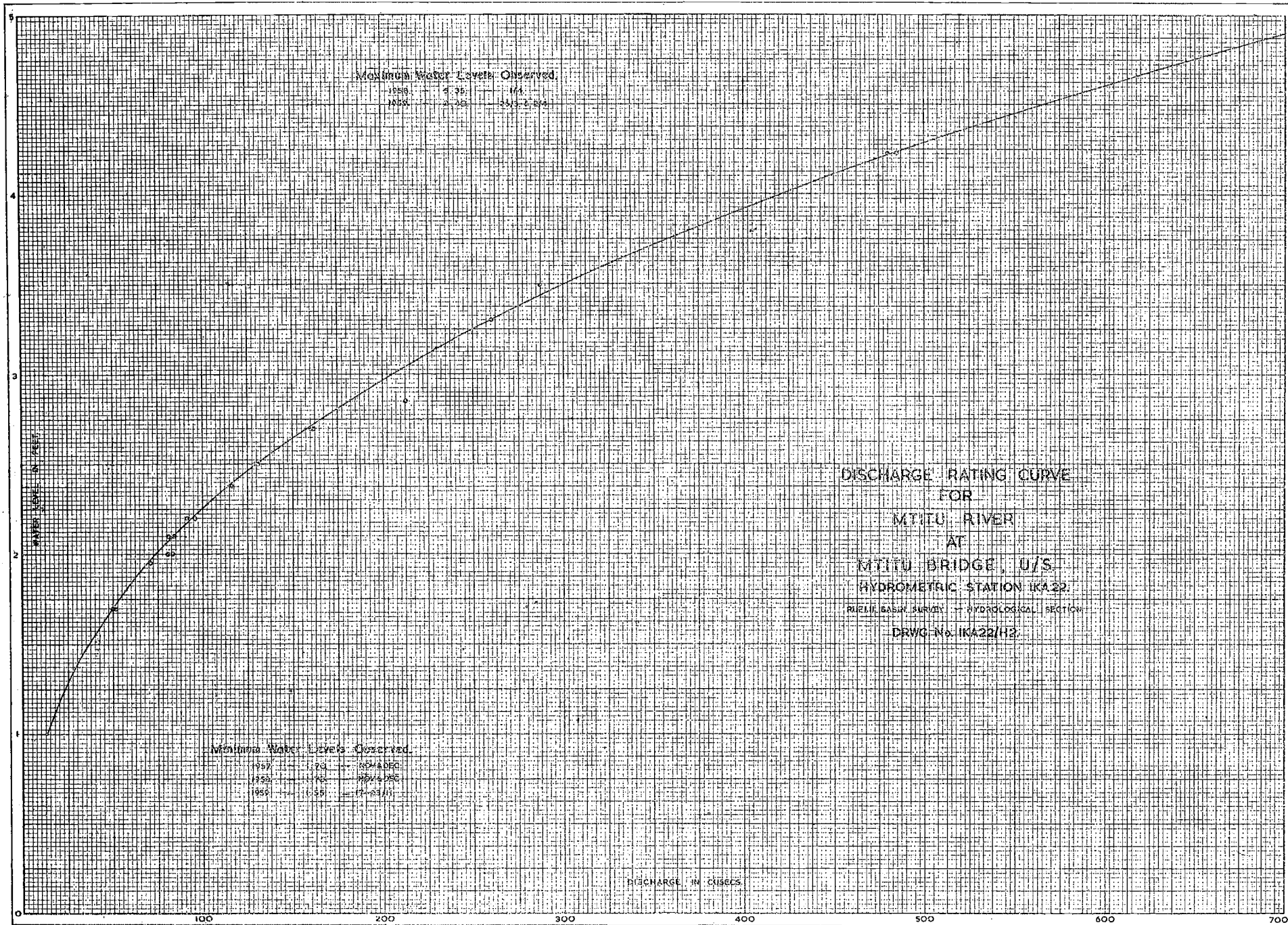
RATING CURVE  
FOR  
THE LITTLE RUAHA RIVER  
AT  
IFIMBU

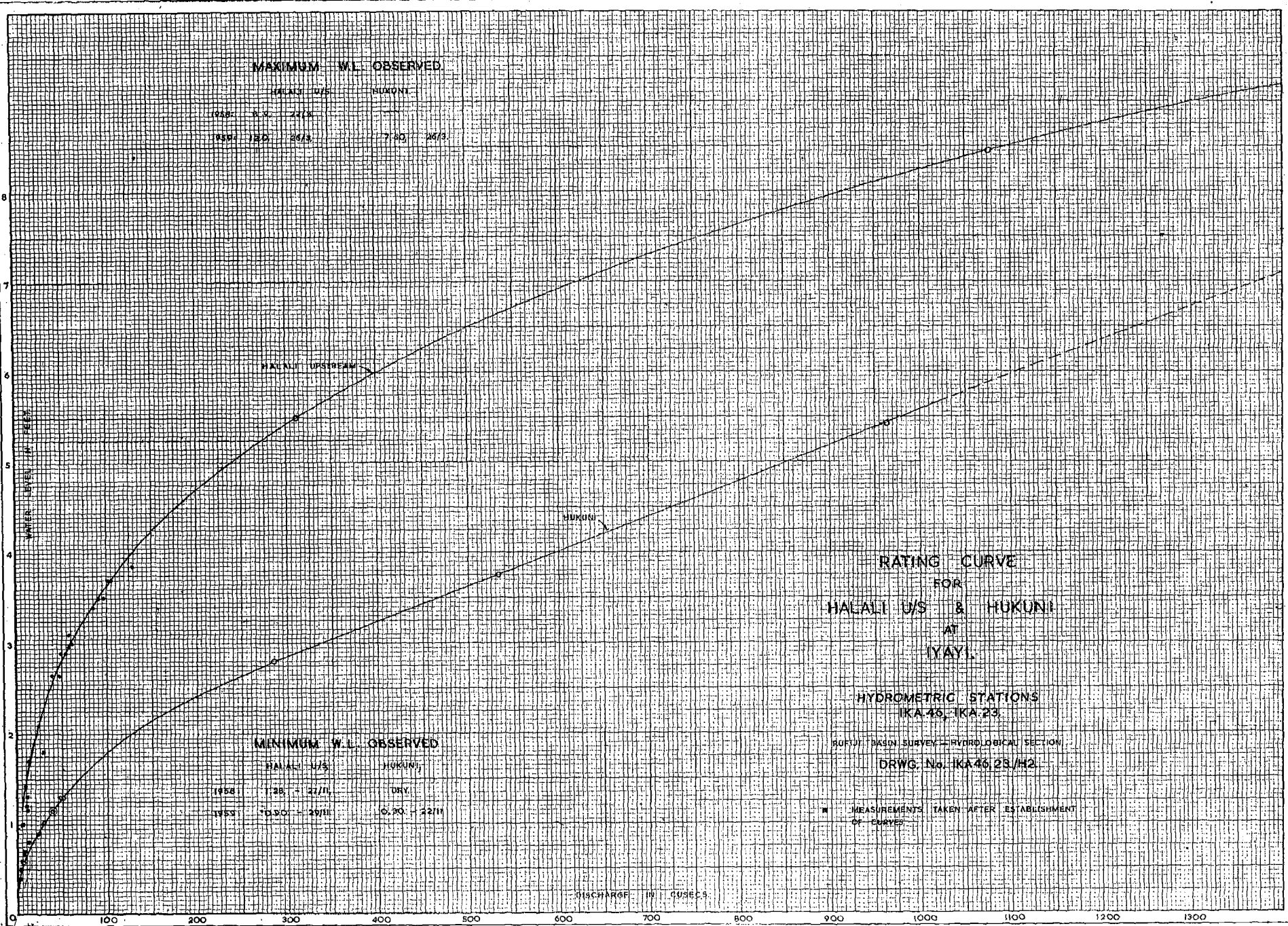
HYDROMETRIC STATION  
(KA 21)

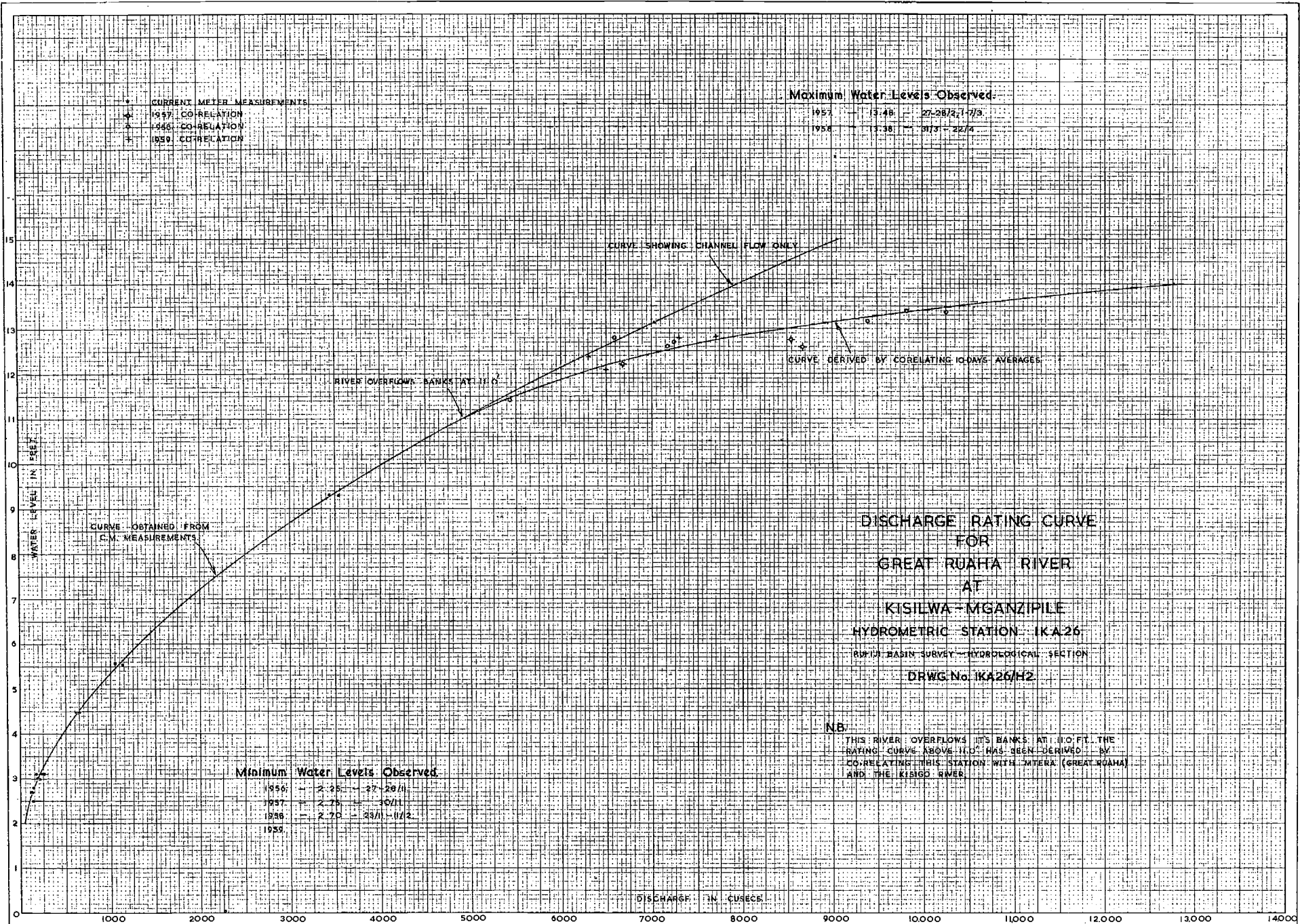
RUPERT BASIN SURVEY - HYDRO SECTION

DRAWING No (KA 21/H2)









CURRENT METER MEASUREMENTS  
 \* 1957 CORRELATION  
 + 1958 CORRELATION  
 + 1959 CORRELATION

Maximum Water Levels Observed:  
 1957 13.48 27-28/2, 1-7/3  
 1958 13.38 31/3 - 22/4

WATER LEVEL IN FEET

CURVE SHOWING CHANNEL FLOW ONLY

RIVER OVERFLOWS BANKS AT 11.0

CURVE DERIVED BY CORRELATING 10-DAYS AVERAGES

CURVE OBTAINED FROM C.M. MEASUREMENTS

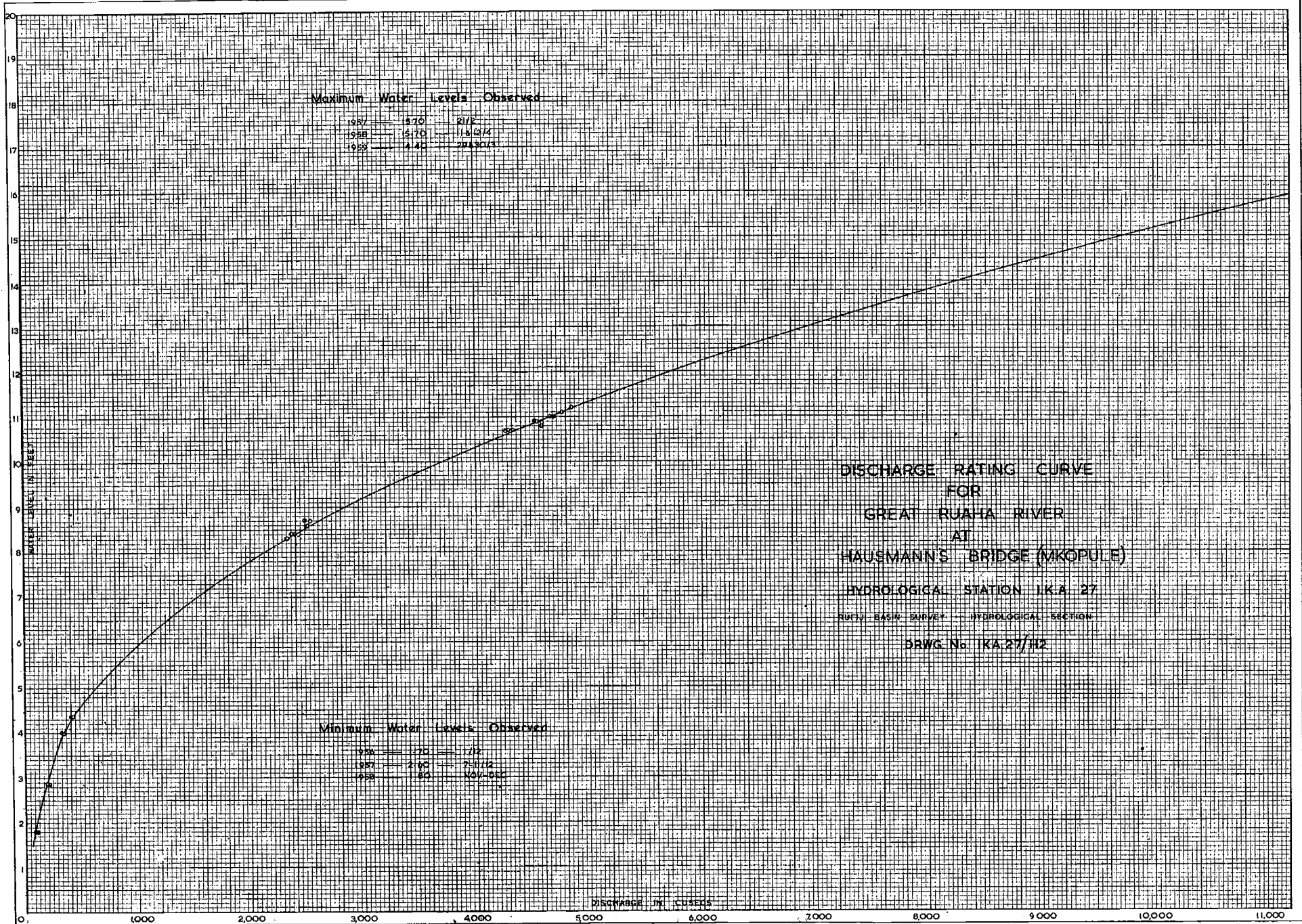
DISCHARGE RATING CURVE  
 FOR  
 GREAT RUAHA RIVER  
 AT  
 KISILWA-MGANZIPILE  
 HYDROMETRIC STATION IKA26  
 RUHA BASIN SURVEY - HYDROLOGICAL SECTION  
 DRWG No. IKA26/H2

Minimum Water Levels Observed:  
 1956 - 2.25 - 27-28/11  
 1957 - 2.75 - 30/11  
 1958 - 2.70 - 23/11-12/2  
 1959

NB:  
 THIS RIVER OVERFLOWS ITS BANKS AT 11.0 FT. THE RATING CURVE ABOVE 11.0 HAS BEEN DERIVED BY CORRELATING THIS STATION WITH MTERA (GREAT RUHA) AND THE KISIGO RIVER.

DISCHARGE IN CUBEC

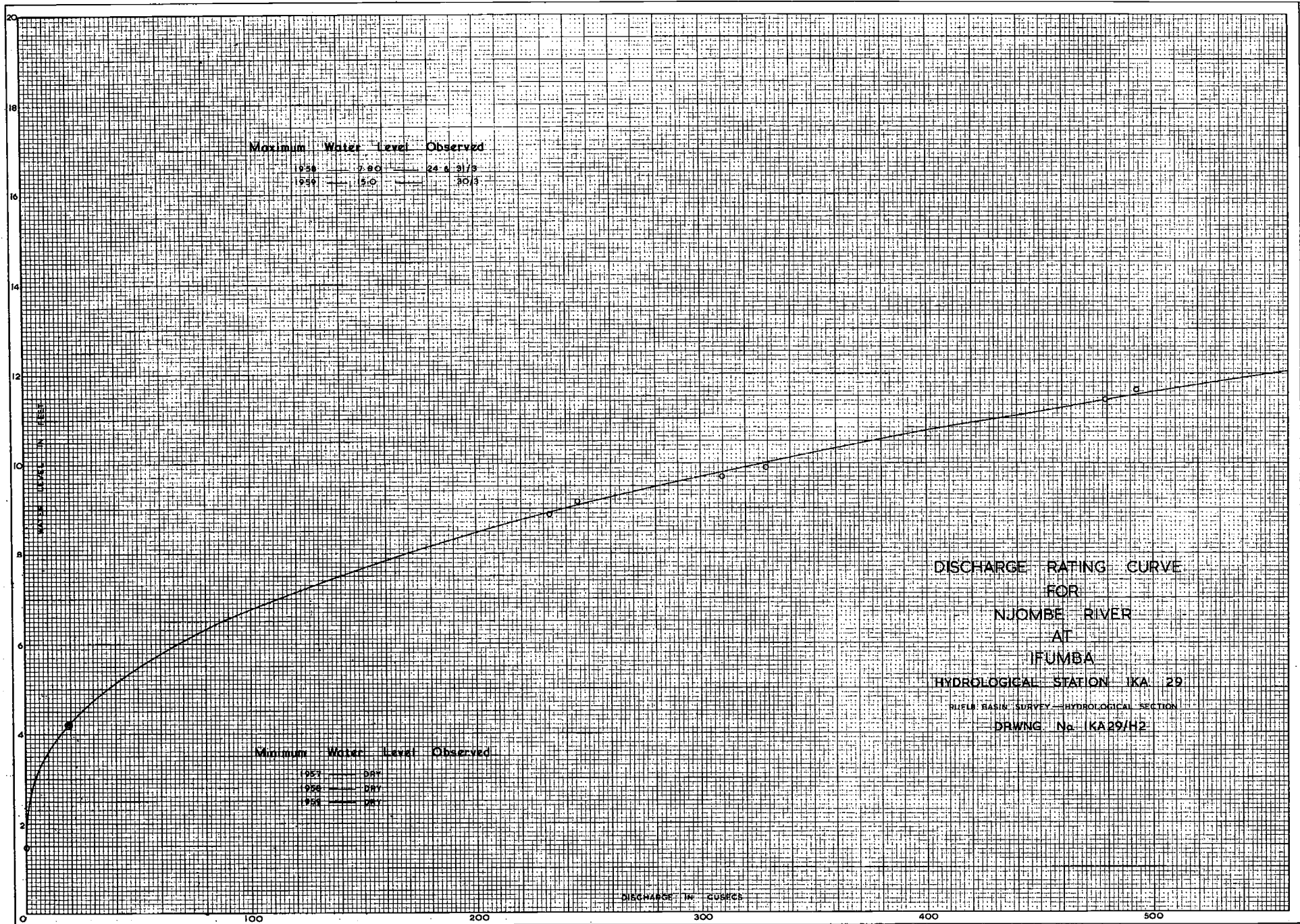
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000

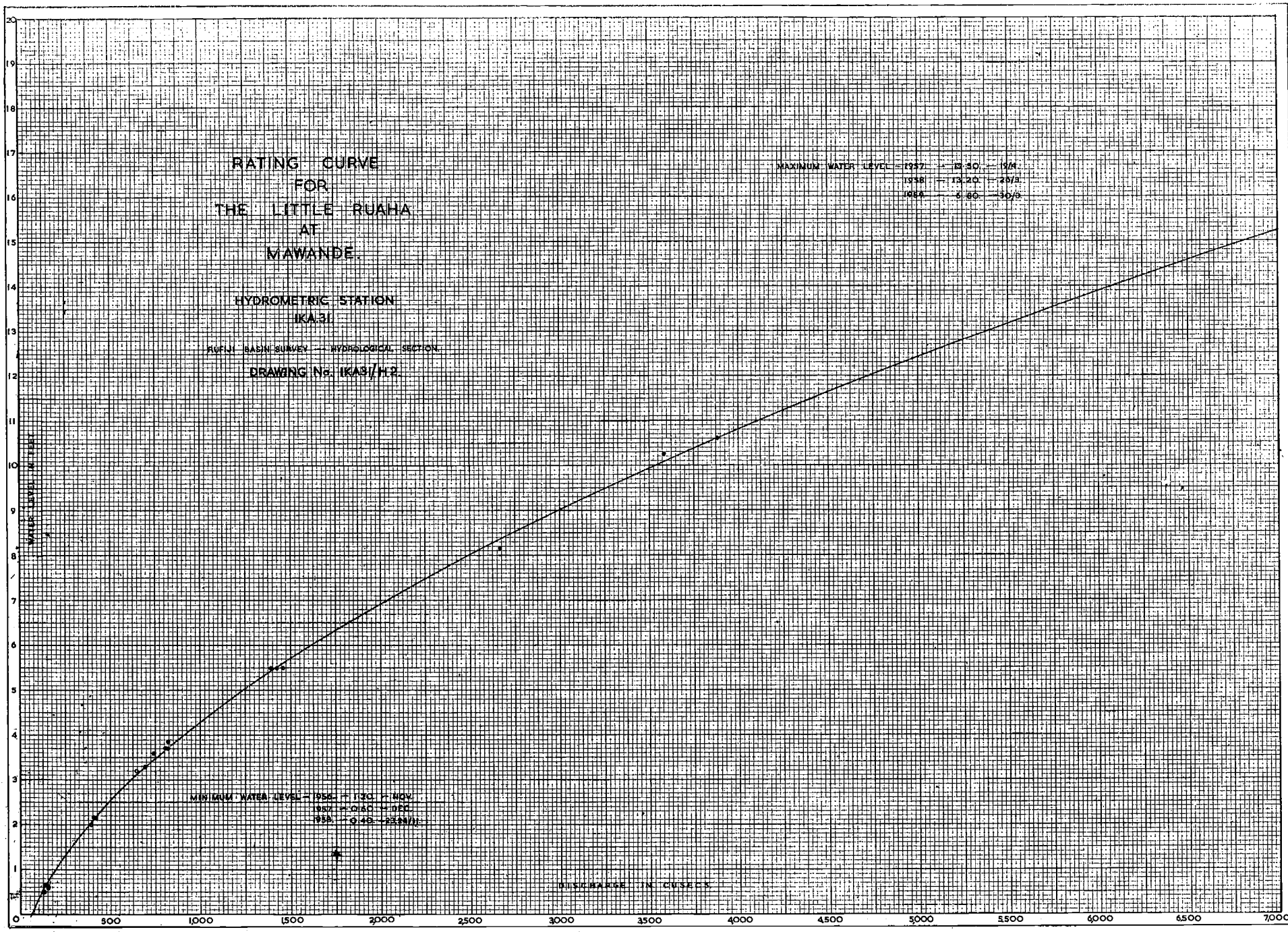


DISCHARGE RATING CURVE  
 FOR  
 GREAT RUAHA RIVER  
 AT  
 HAUSMANN'S BRIDGE (MKOPULE)  
 HYDROLOGICAL STATION IKA 27  
 RUFU BASIN SURVEY - HYDROLOGICAL SECTION  
 DRWG No. IKA 27/H2

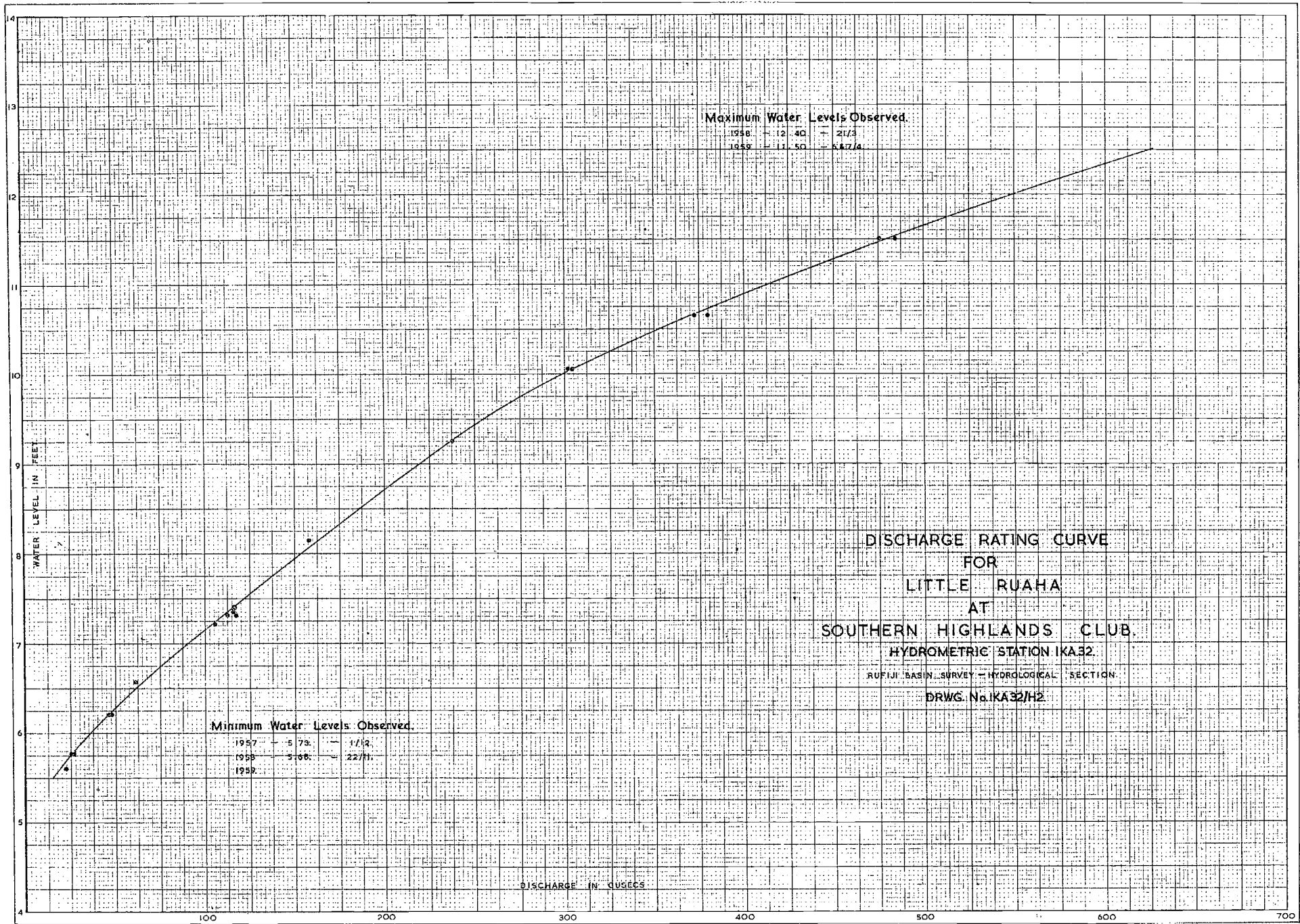
Minimum Water Levels Observed

1956	75	1.4
1957	2,000	2.1/2.2
1958	1,000	2.0/2.1









DISCHARGE RATING CURVE  
 FOR  
 LITTLE RUAHA  
 AT  
 SOUTHERN HIGHLANDS CLUB  
 HYDROMETRIC STATION IKA32  
 RUFUJI BASIN SURVEY - HYDROLOGICAL SECTION  
 DRWG. No. IKA32/H2

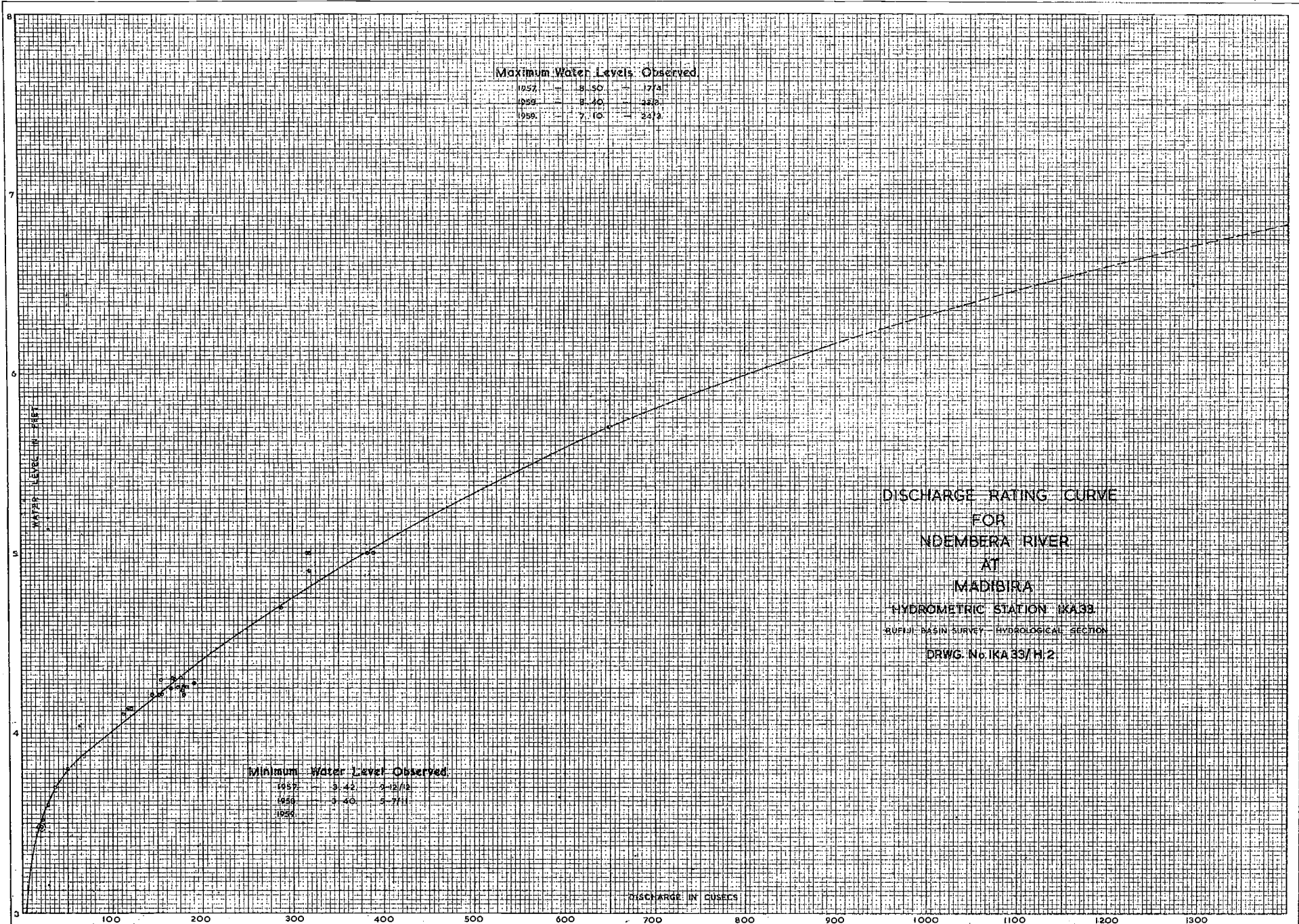
Minimum Water Levels Observed.  
 1957 - 5.73 - 17/12  
 1958 - 5.06 - 22/11  
 1959 -

Maximum Water Levels Observed.  
 1958 - 12.40 - 21/3  
 1959 - 11.50 - 24/7/4

DISCHARGE IN CUSECS

WATER LEVEL IN FEET

100 200 300 400 500 600 700



**Maximum Water Levels Observed**

1957	8.50	1770
1958	8.40	450
1959	7.10	2470

**Minimum Water Level Observed**

1957	3.42	7-12/12
1958	3.40	5-7/11
1959		

DISCHARGE RATING CURVE  
 FOR  
 NDEMBERA RIVER  
 AT  
 MADIBIRA  
 HYDROMETRIC STATION KA33  
 BUFIJI MASINI SURVEY - HYDROLOGICAL SECTION  
 DRWG. No. KA33/H.2

DISCHARGE IN CUSECS

WATER LEVEL IN FEET

8

7

6

5

4

3

100

200

300

400

500

600

700

800

900

1000

1100

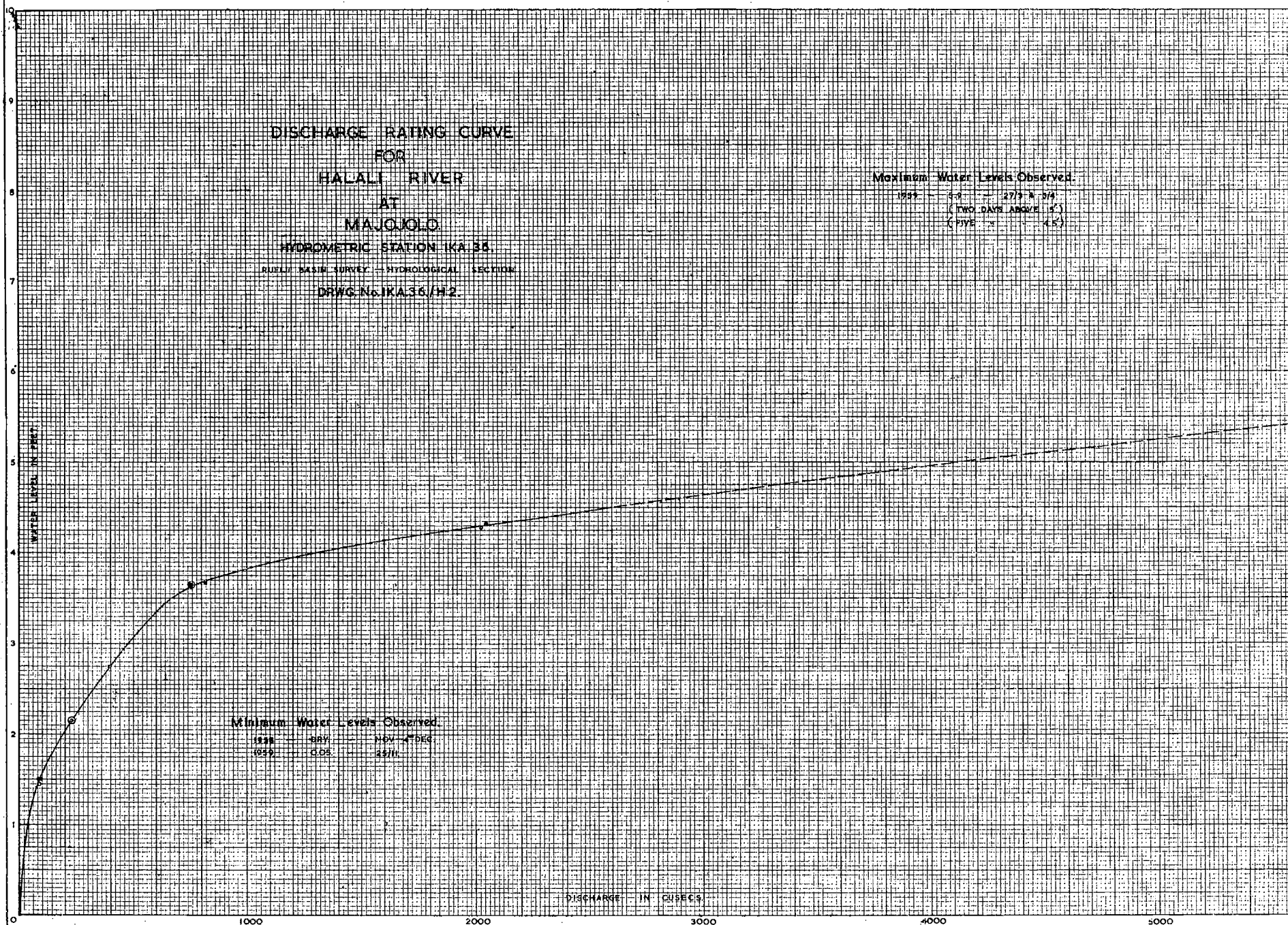
1200

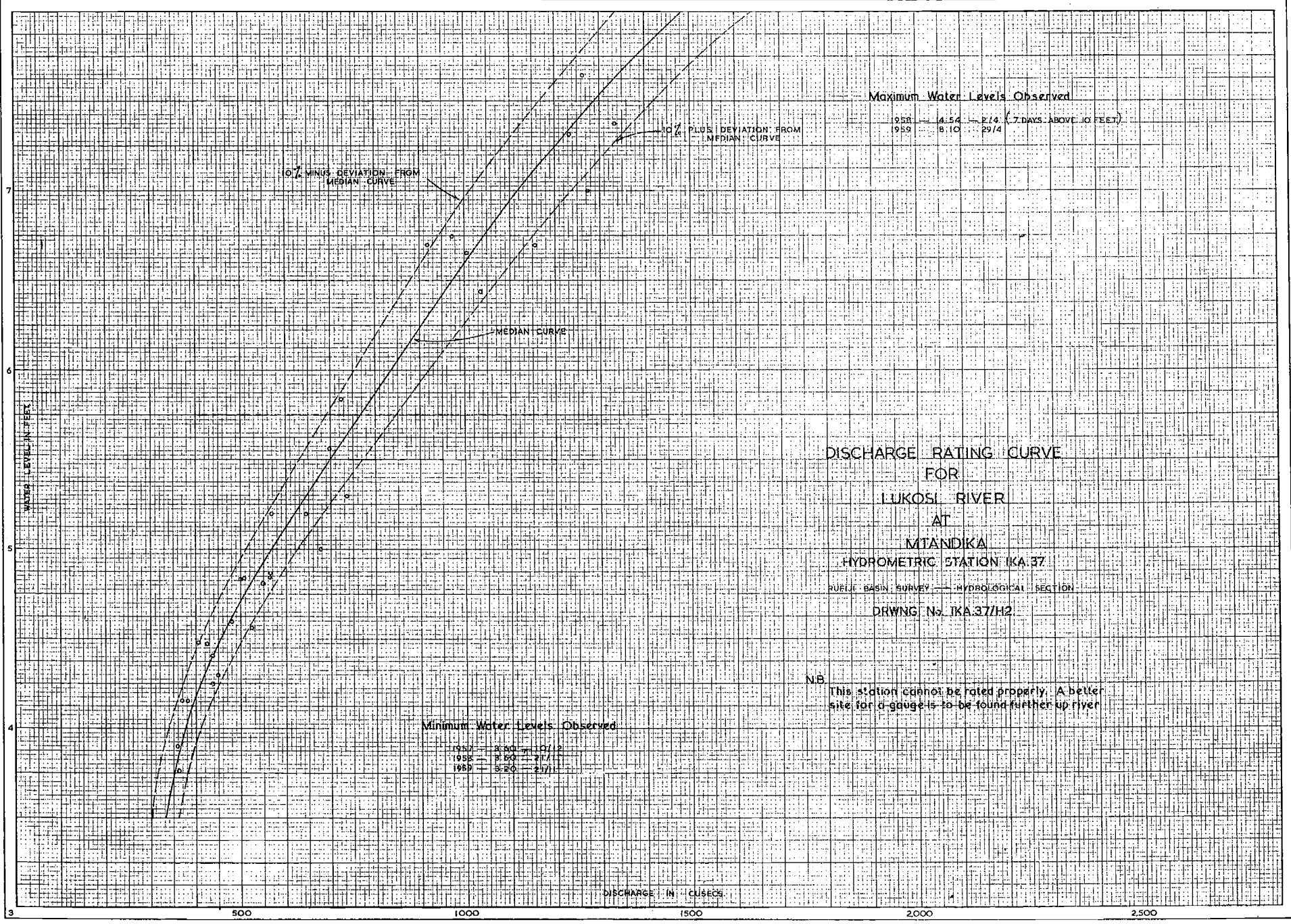
1300

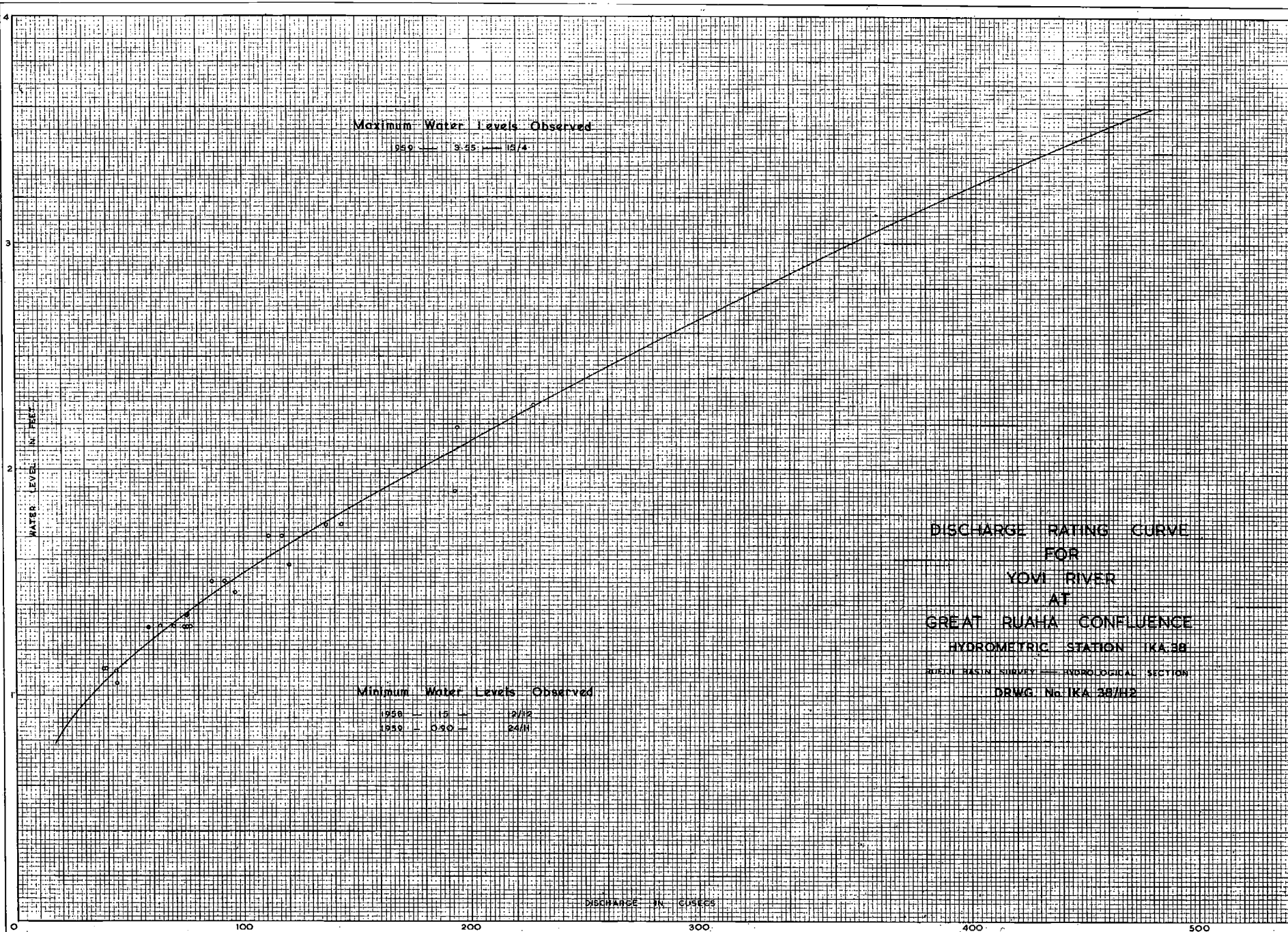
DISCHARGE RATING CURVE  
 FOR  
 HALALI RIVER  
 AT  
 MAJOJOLO  
 HYDROMETRIC STATION IKA 33  
 RUELLI BASIN SURVEY -- HYDROLOGICAL SECTION  
 DRWG. No. IKA 36/H2

Maximum Water Levels Observed:  
 1954 5.9 27/3 & 3/4  
 (TWO DAYS ABOVE 5.5)  
 (PIVE " " 4.5)

Minimum Water Levels Observed:  
 1954 0.87 NOV - DEC  
 1959 0.05 25/11





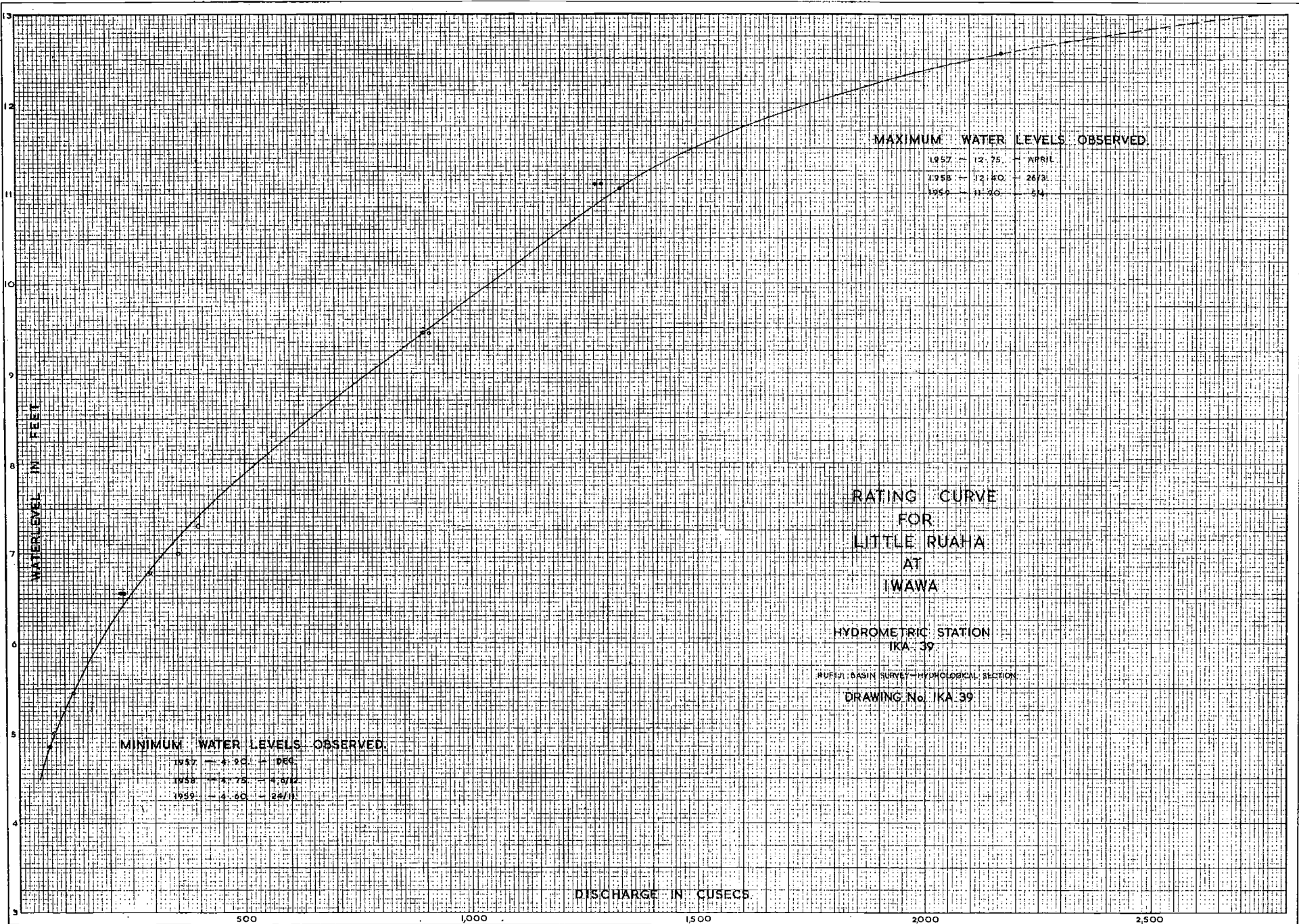


DISCHARGE RATING CURVE  
 FOR  
 YOMI RIVER  
 AT  
 GREAT RUAHA CONFLUENCE  
 HYDROMETRIC STATION IKA 38  
 WELLS BASIN SURVEY — HYDROLOGICAL SECTION  
 DRWG. No. IKA 38/H2

DISCHARGE IN CUSECS

WATER LEVEL IN FEET

0 100 200 300 400 500



MAXIMUM WATER LEVELS OBSERVED.

1957	12.75	APRIL
1958	12.40	26/9
1959	11.40	2/11

RATING CURVE  
FOR  
LITTLE RUAHA  
AT  
IWAWA

HYDROMETRIC STATION  
IKA 39

RUFUJI BASIN SURVEY - HYDROLOGICAL SECTION

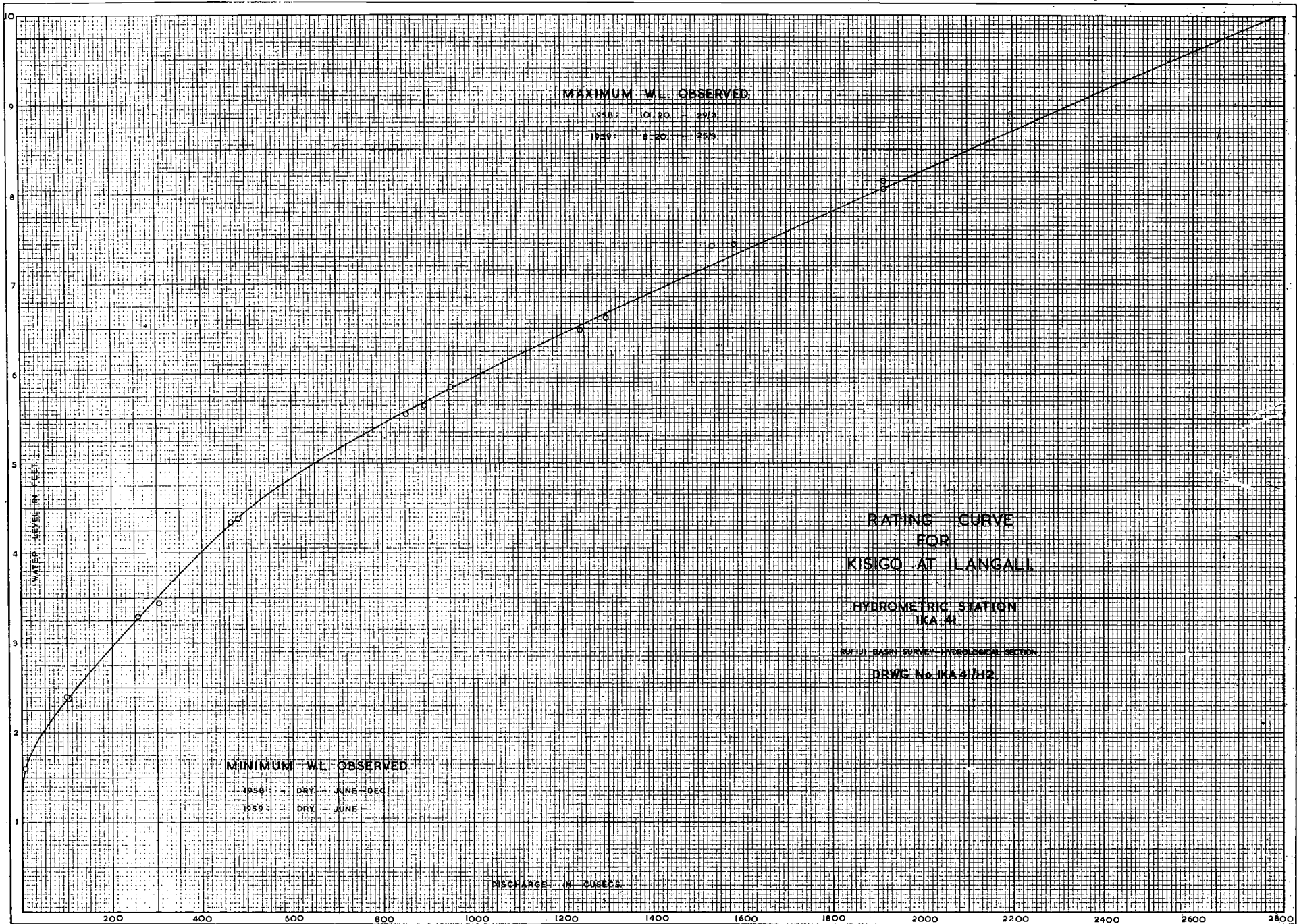
DRAWING No. IKA 39

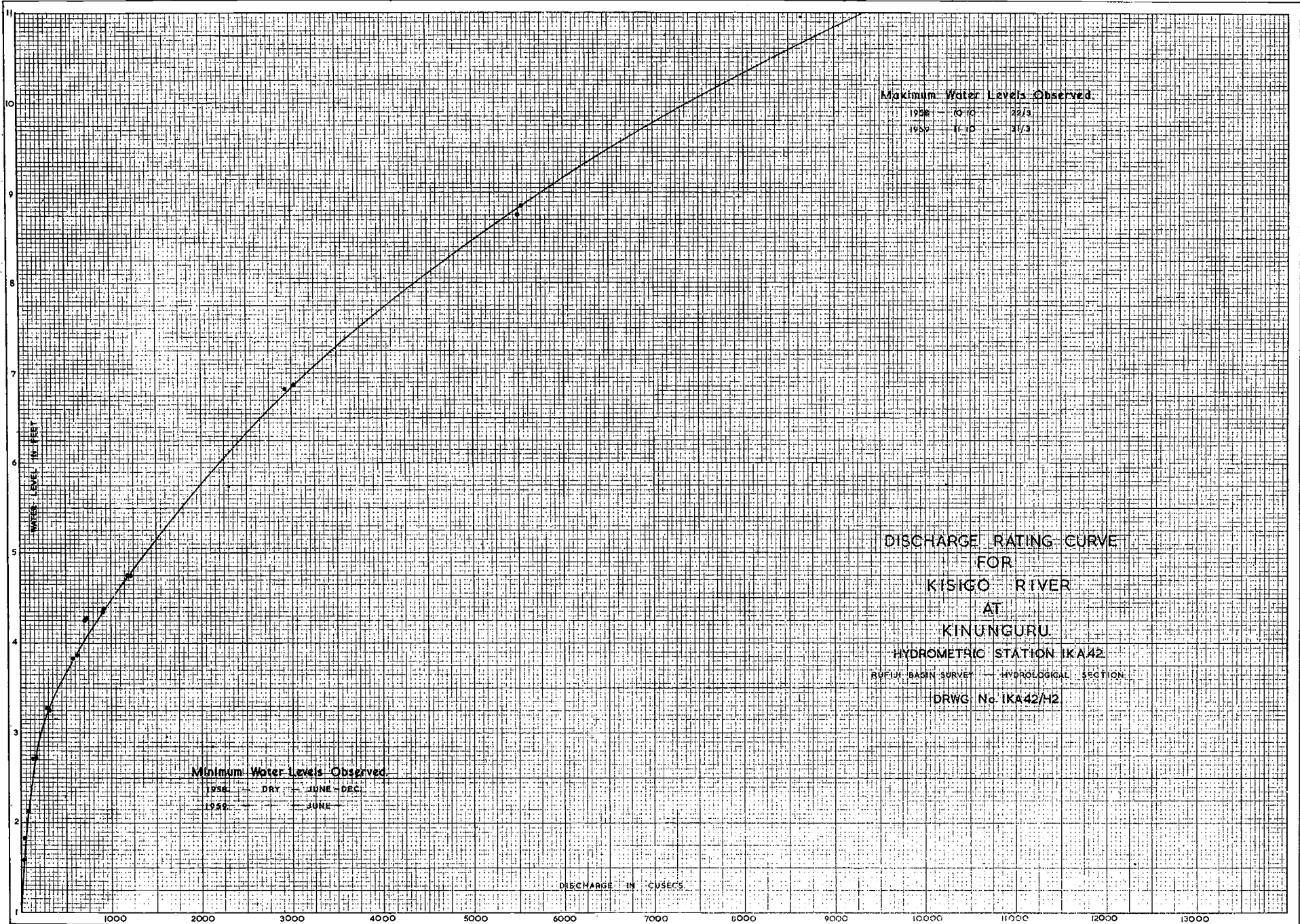
MINIMUM WATER LEVELS OBSERVED.

1957	4.90	1/8/57
1958	4.75	4/10/58
1959	4.60	24/11

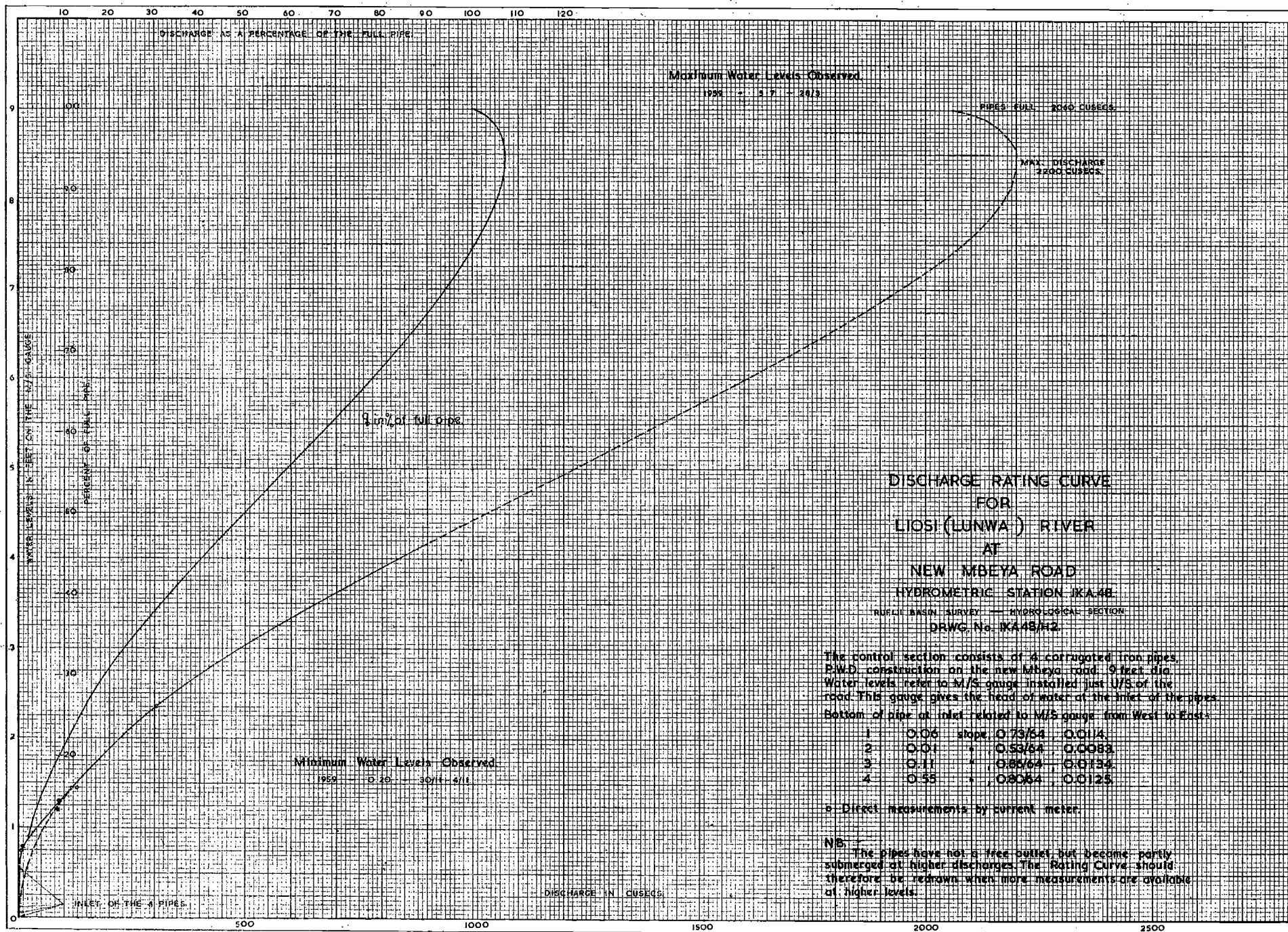
DISCHARGE IN CUSECS

500 1,000 1,500 2,000 2,500









DISCHARGE AS A PERCENTAGE OF THE FULL PIPE

Maximum Water Levels Observed

1958 0.17 - 20.3

PIPES FULL 2040 CUSECS

MAX. DISCHARGE 2200 CUSECS

Limit of full pipe

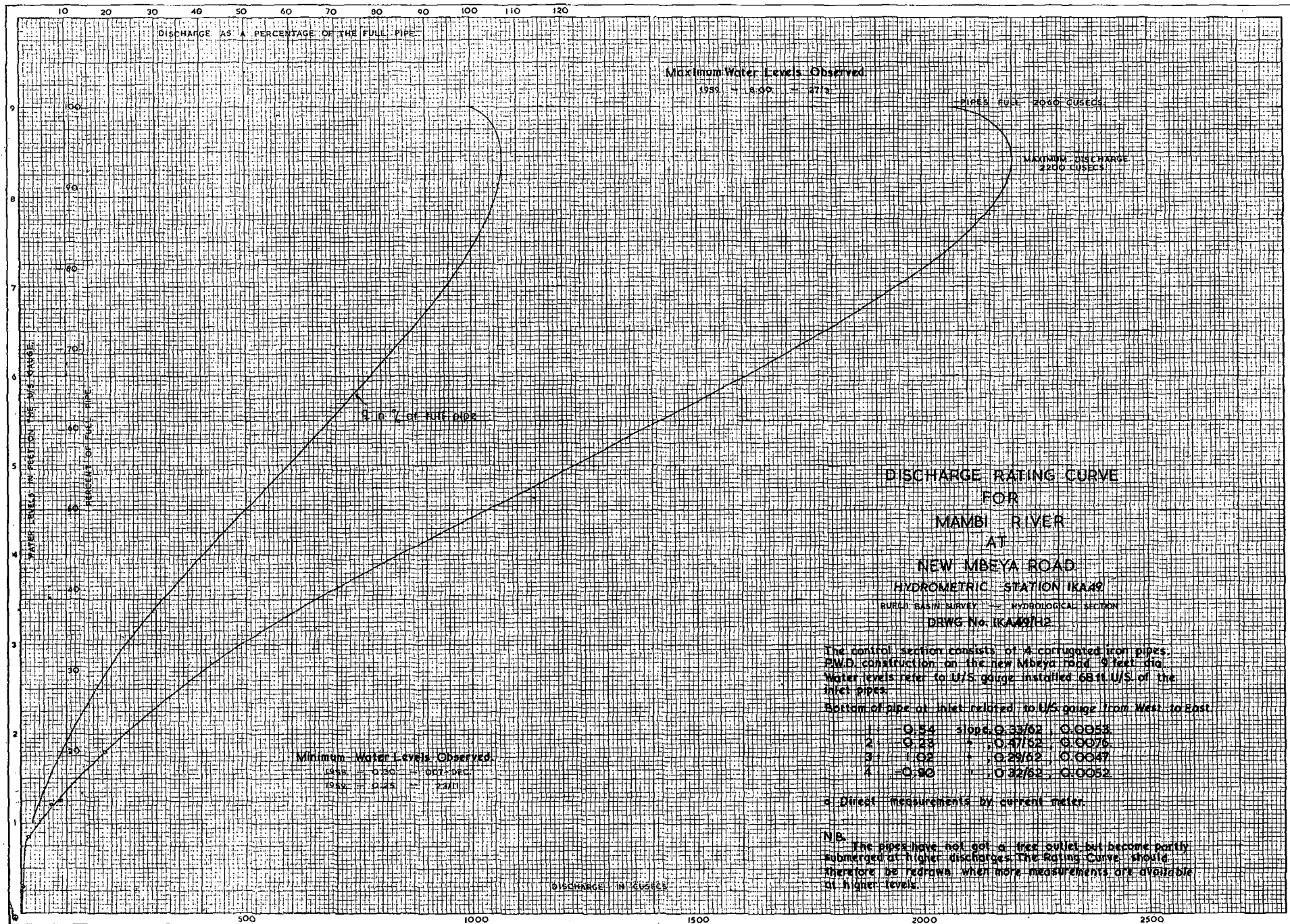
Minimum Water Levels Observed

1959 0.20 - 30.14 - 2/11

WATER LEVELS IN FEET ON THE M/S GAUGE

INLET OF THE 4 PIPES

DISCHARGE IN CUSECS



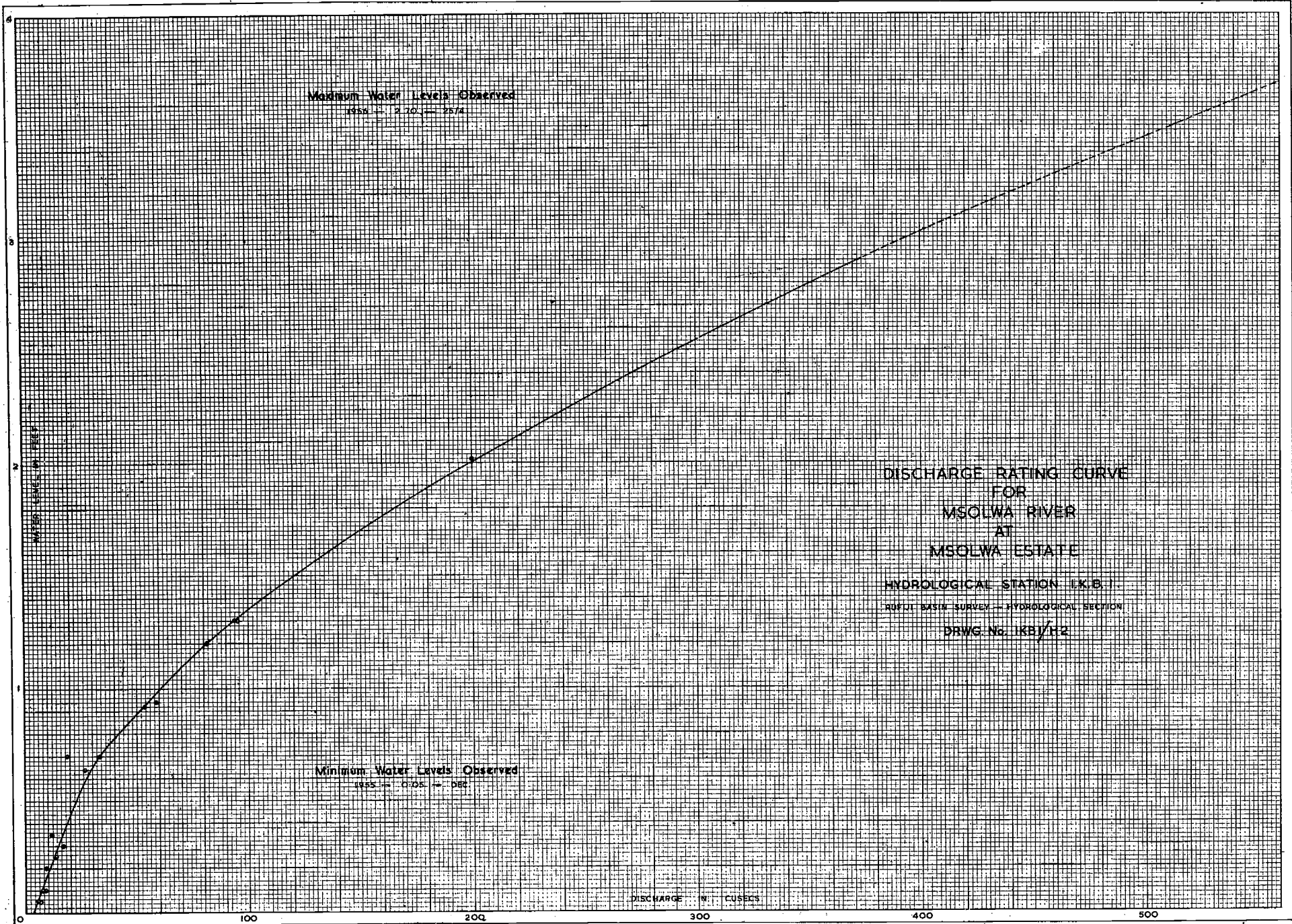
The control section consists of 4 corrugated iron pipes. P.W.D. construction on the new Mbeya road 9 feet dia. Water levels refer to U/S gauge installed 68 ft U/S of the inlet pipes.

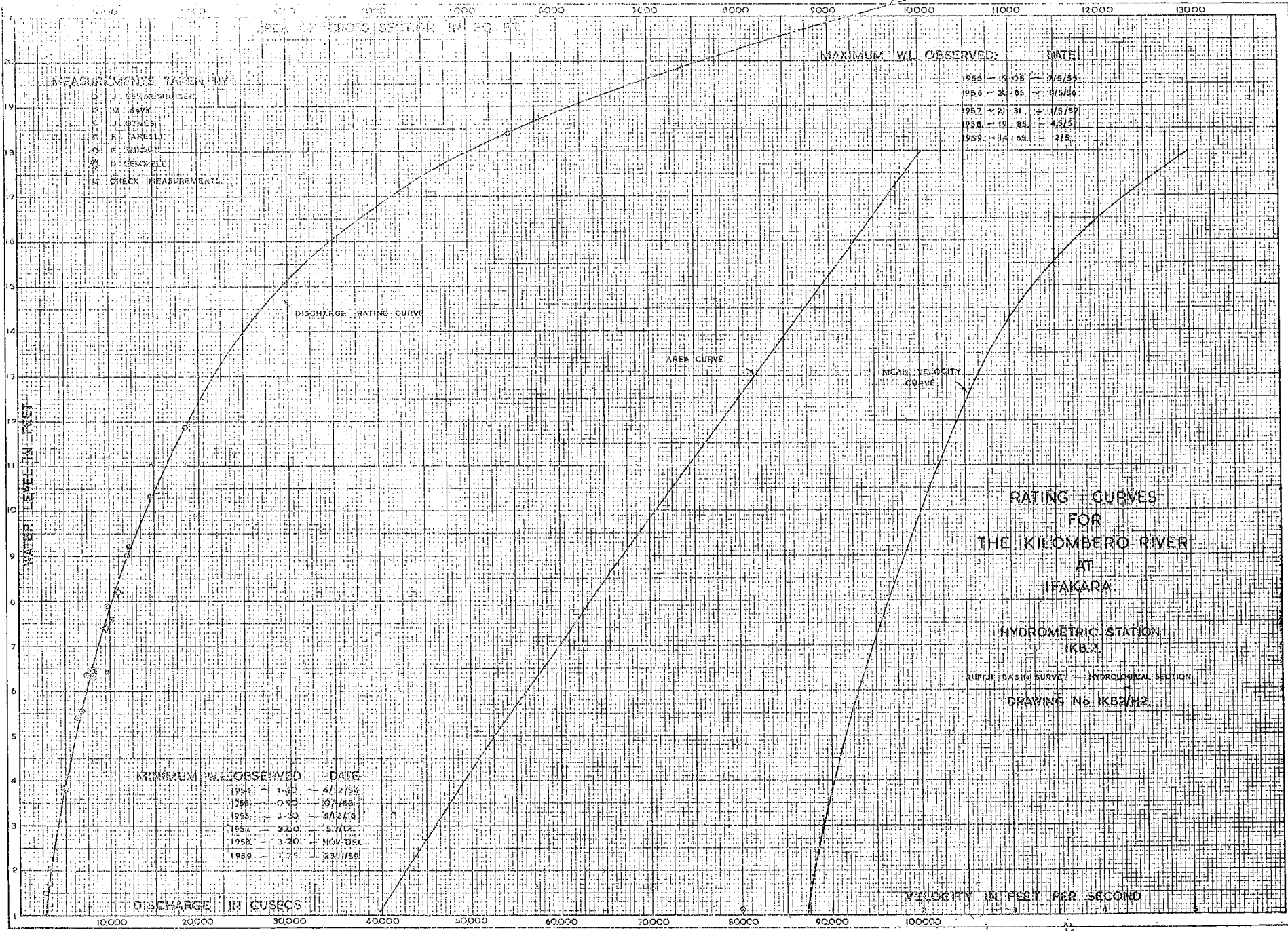
Bottom of pipe at inlet related to U/S gauge from West to East

1	0.54	1095	0.33/62	0.0053
2	0.23	1100	0.47/62	0.0076
3	1.02	1100	0.29/62	0.0047
4	0.90	1100	0.32/62	0.0052

a Direct measurements by current meter.

**NB** - The pipes have not got a free outlet but become partly submerged at higher discharges. The Rating Curve should therefore be redrawn when more measurements are available at higher levels.





MEASUREMENTS TAKEN BY:  
 D J. GONZALEZ  
 P M. BAY  
 L LOGNES  
 F. J. ARELLI  
 C. F. WILSON  
 S. D. BARNWELL  
 M. CHECK MEASUREMENTS

MAXIMUM WL OBSERVED: DATE

1955	19.05	7/2/55
1956	21.08	6/5/56
1957	21.31	1/8/57
1958	19.88	4/5/58
1959	14.65	2/5

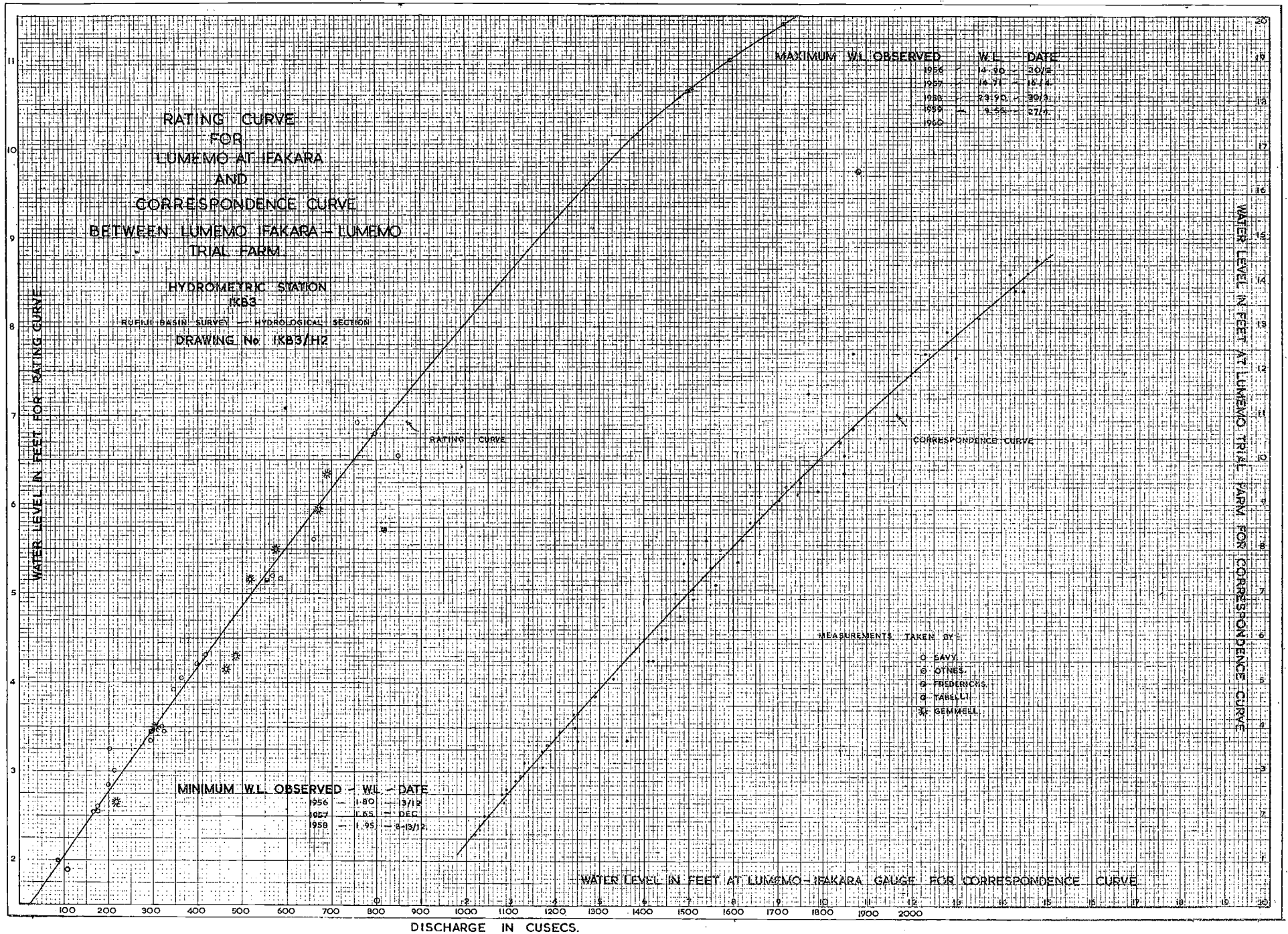
MINIMUM WL OBSERVED: DATE

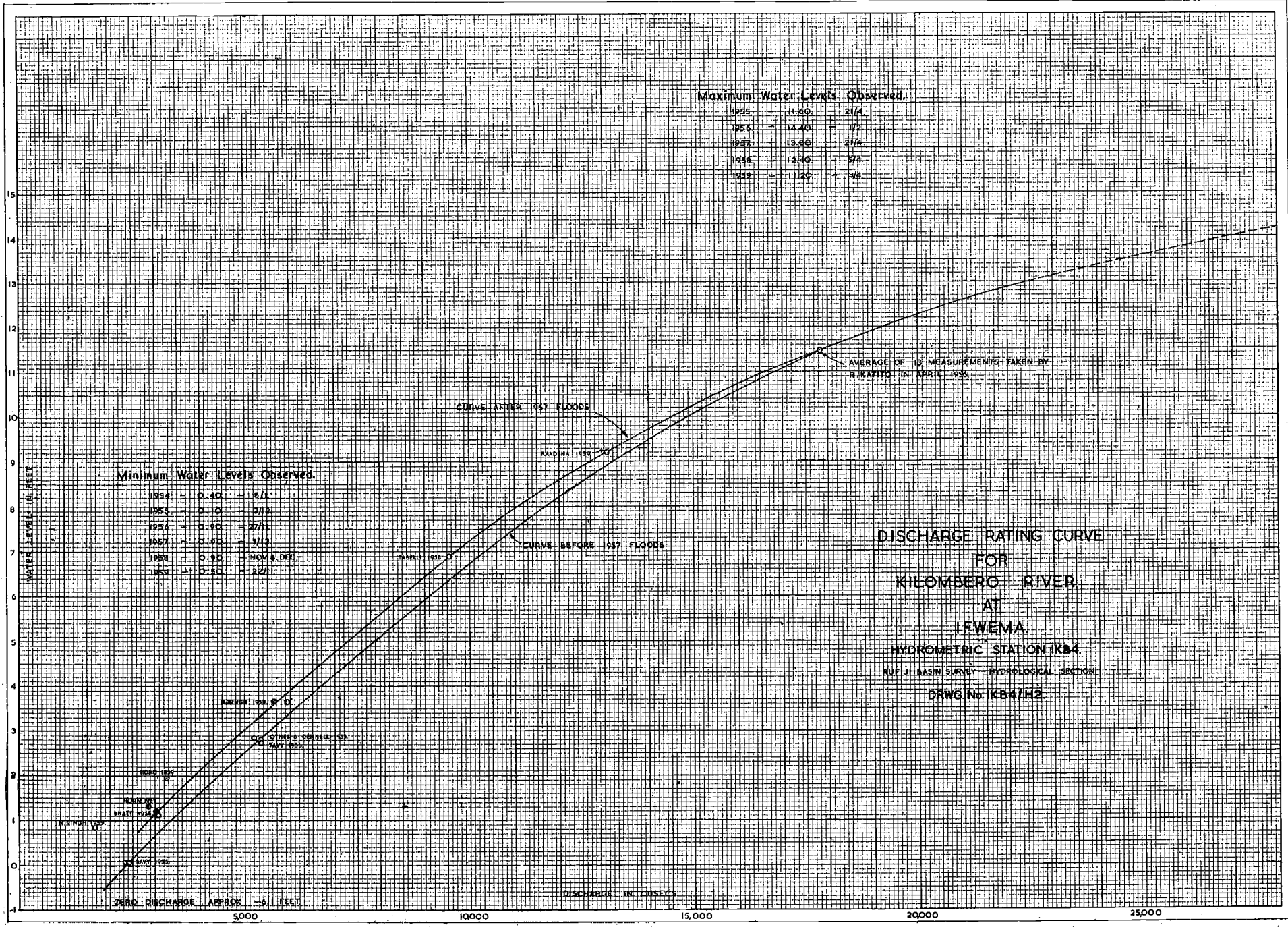
1954	1.33	4/12/54
1956	0.82	10/1/56
1957	3.33	6/2/57
1957	3.20	5/1/57
1958	3.20	10/1/58
1959	1.75	23/1/59

RATING CURVES  
 FOR  
 THE KILOMBERO RIVER  
 AT  
 IFAKARA  
 HYDROMETRIC STATION  
 IKB-2  
 SURVEY BASIN SURVEY - HYDROLOGICAL SECTION  
 DRAWING No IKB2/12

DISCHARGE IN CUSECS

VELOCITY IN FEET PER SECOND





**Maximum Water Levels Observed.**

1955	11.60	2174
1956	11.40	1772
1957	13.60	2174
1958	12.40	578
1959	11.20	545

**Minimum Water Levels Observed.**

1954	0.40	811
1955	0.70	2719
1956	0.90	2719
1957	0.45	1712
1958	0.85	NOV & DEC
1959	0.25	2271

**DISCHARGE RATING CURVE  
FOR  
KILOMBERO RIVER  
AT  
IFWEMA  
HYDROMETRIC STATION KB4  
RUPJI BASIN SURVEY - HYDROLOGICAL SECTION  
DRWG. No. KB4/H2**

WATER LEVEL IN FEET

DISCHARGE IN CUSECS

ZERO DISCHARGE APPROX - 6.1 FEET

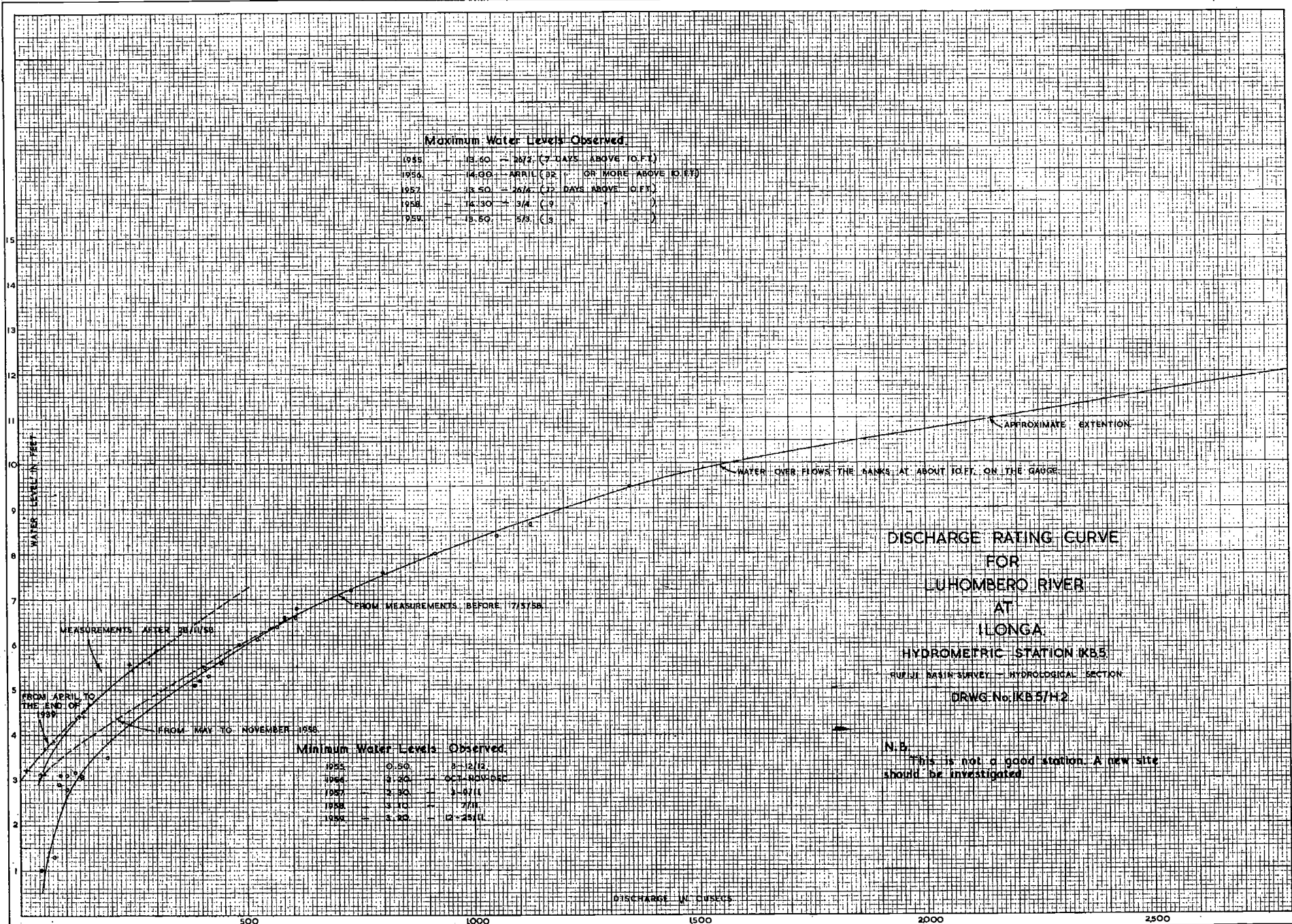
5000

10000

15000

20000

25000



**Maximum Water Levels Observed**

1955	13.50	28/2	(7 DAYS ABOVE 10 FT)
1956	14.00	APRIL (22)	OR MORE ABOVE 10 FT)
1957	13.50	26/2	(12 DAYS ABOVE 10 FT)
1958	14.30	3/4	(9 )
1959	13.50	6/3	(8 )

**Minimum Water Levels Observed**

1955	0.50	5-12/12
1956	3.20	OCT-NOV-DEC
1957	3.50	1-12/11
1958	3.10	7/11
1959	3.20	12-25/11

DISCHARGE RATING CURVE  
FOR  
LUHOMBERO RIVER  
AT  
ILONGA  
HYDROMETRIC STATION KB5

RUPJI BASIN SURVEY - HYDROLOGICAL SECTION

DRWG No. KB57H2

N.B. This is not a good station. A new site should be investigated.

WATER OVER FLOWS THE DAMS AT ABOUT 10 FT. ON THE GAUGE

APPROXIMATE EXTENTION

FROM MEASUREMENTS BEFORE 17/5/58

MEASUREMENTS AFTER DEWISSE

FROM APRIL TO THE END OF 1959

FROM MAY TO NOVEMBER 1958

DISCHARGE IN CUSECS

WATER LEVEL IN FEET

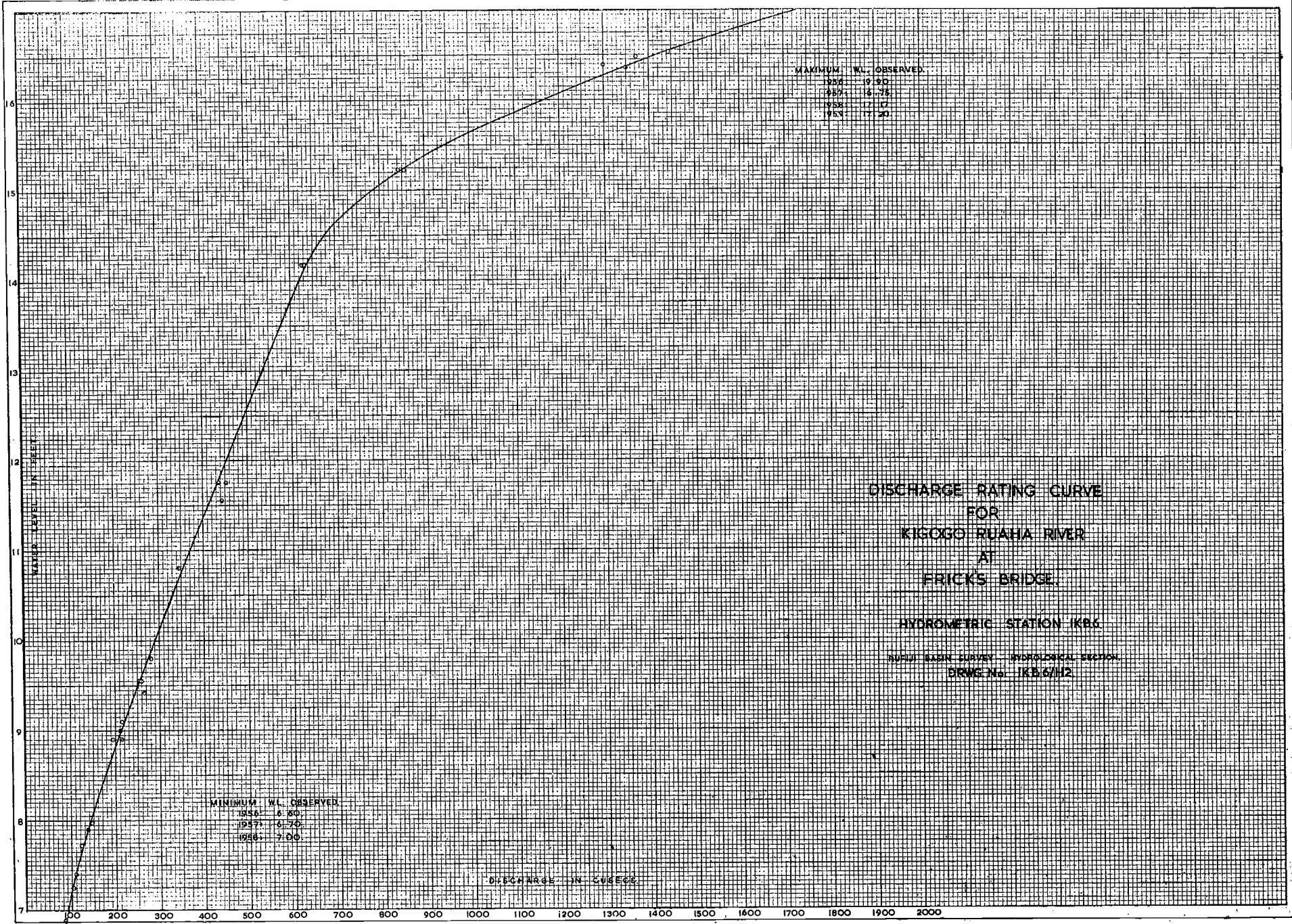
500

1000

1500

2000

2500



DISCHARGE RATING CURVE  
FOR  
KIGOGO RUAHA RIVER  
AT  
FRICK'S BRIDGE

HYDROMETRIC STATION IKRC

RUFU BASIN SURVEY - HYDROLOGICAL SECTION  
DRAWING No. IKR.6/112

MINIMUM WL OBSERVED

1956	6.60
1957	6.70
1958	7.00

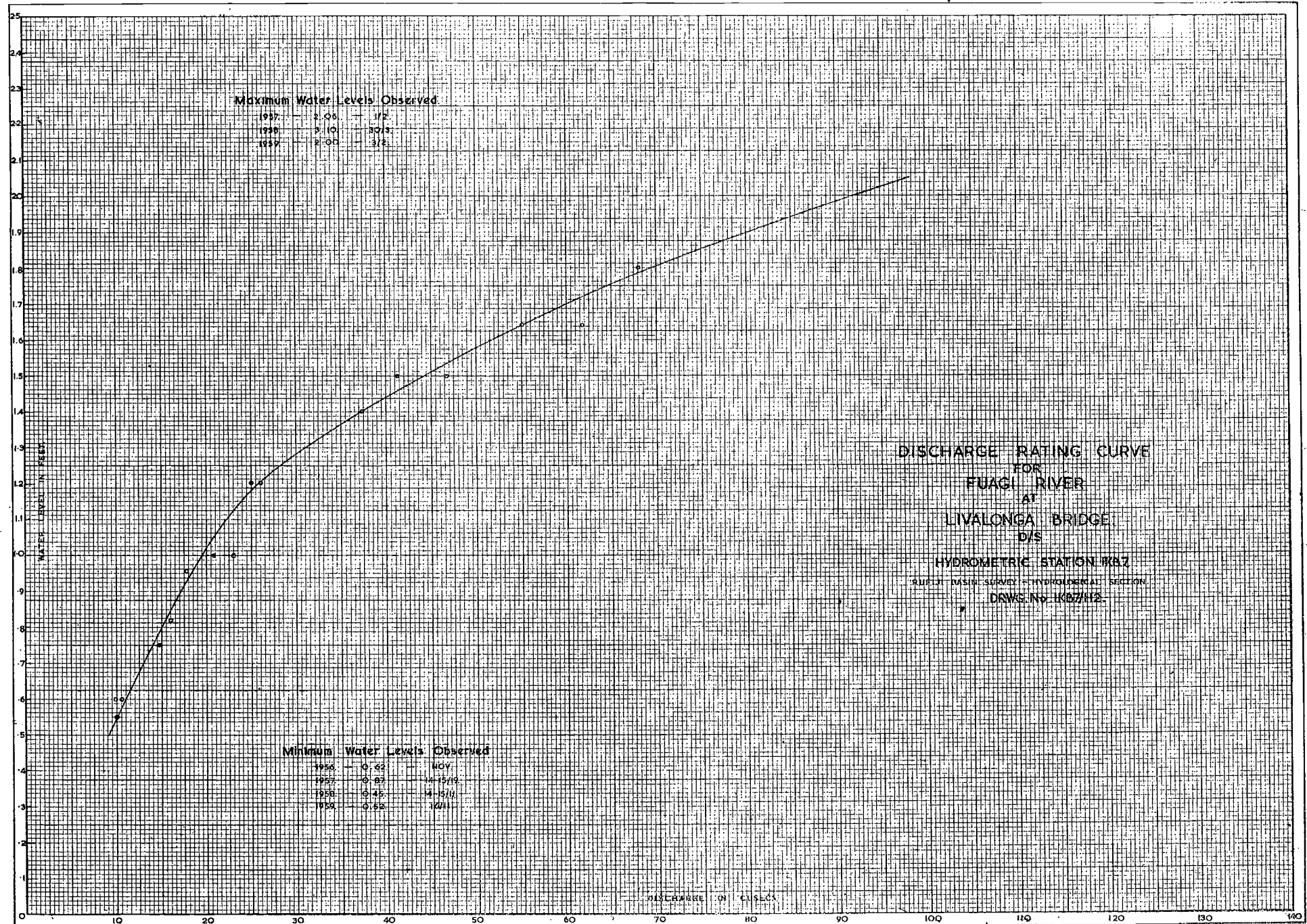
MAXIMUM WL OBSERVED

1956	19.90
1957	18.75
1958	17.17
1959	17.20

DISCHARGE IN CUSECS

WATER LEVEL IN FEET





**Maximum Water Levels Observed**

1957	2.06	172
1958	2.10	80.5
1959	2.08	37.8

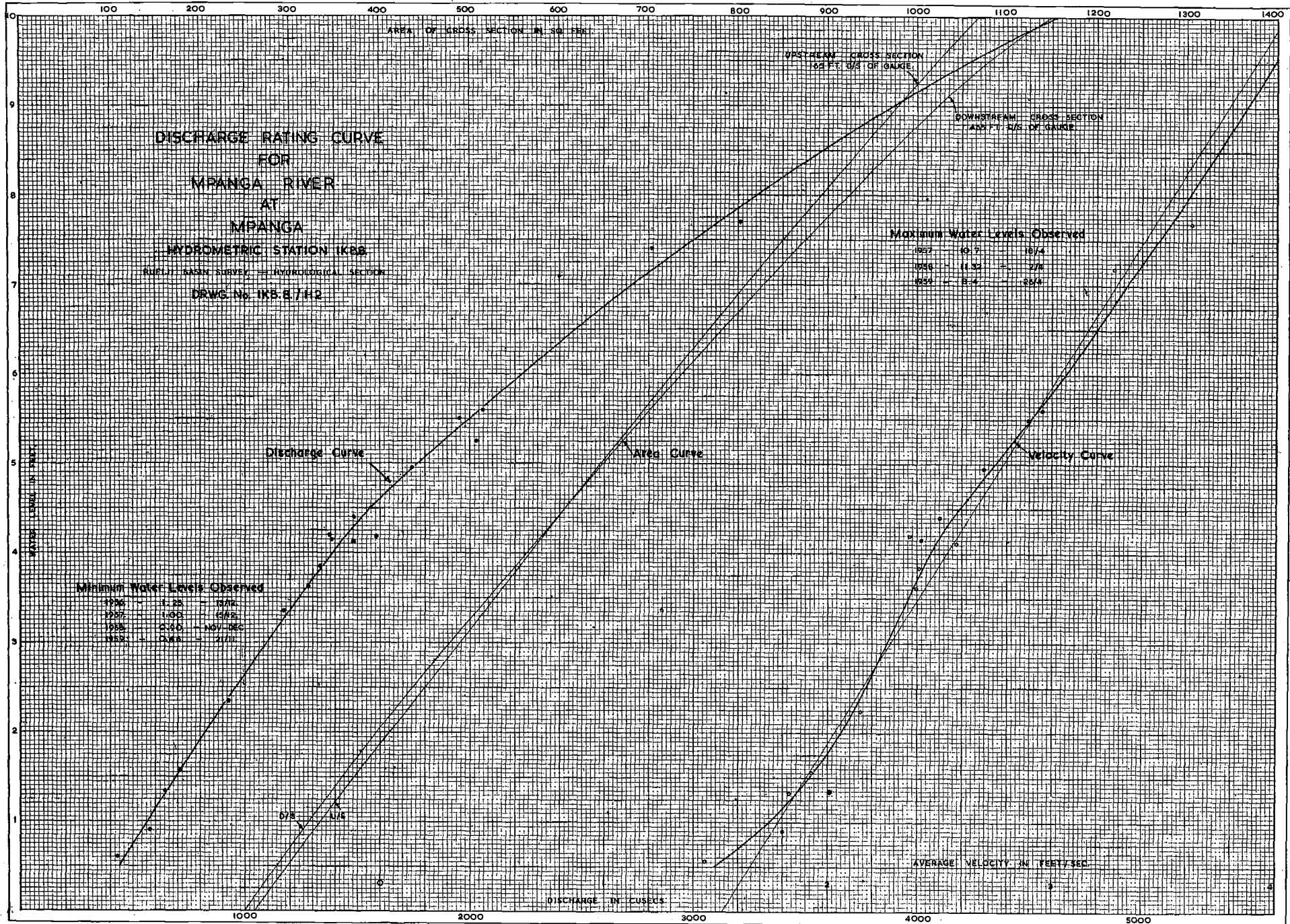
**Minimum Water Levels Observed**

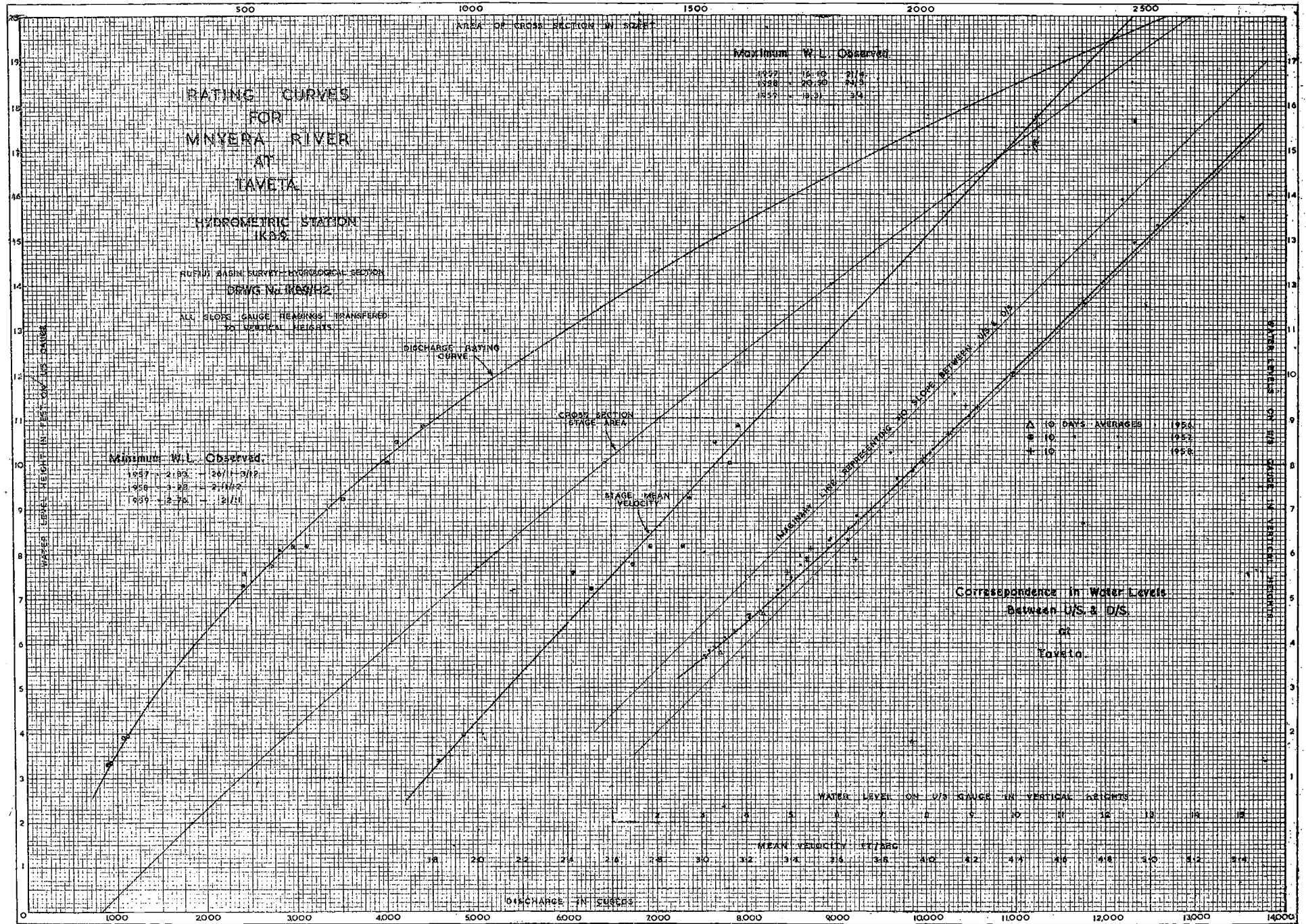
1956	0.62	109
1957	0.67	14.75/19
1958	0.45	11.5/11
1959	0.62	14/11

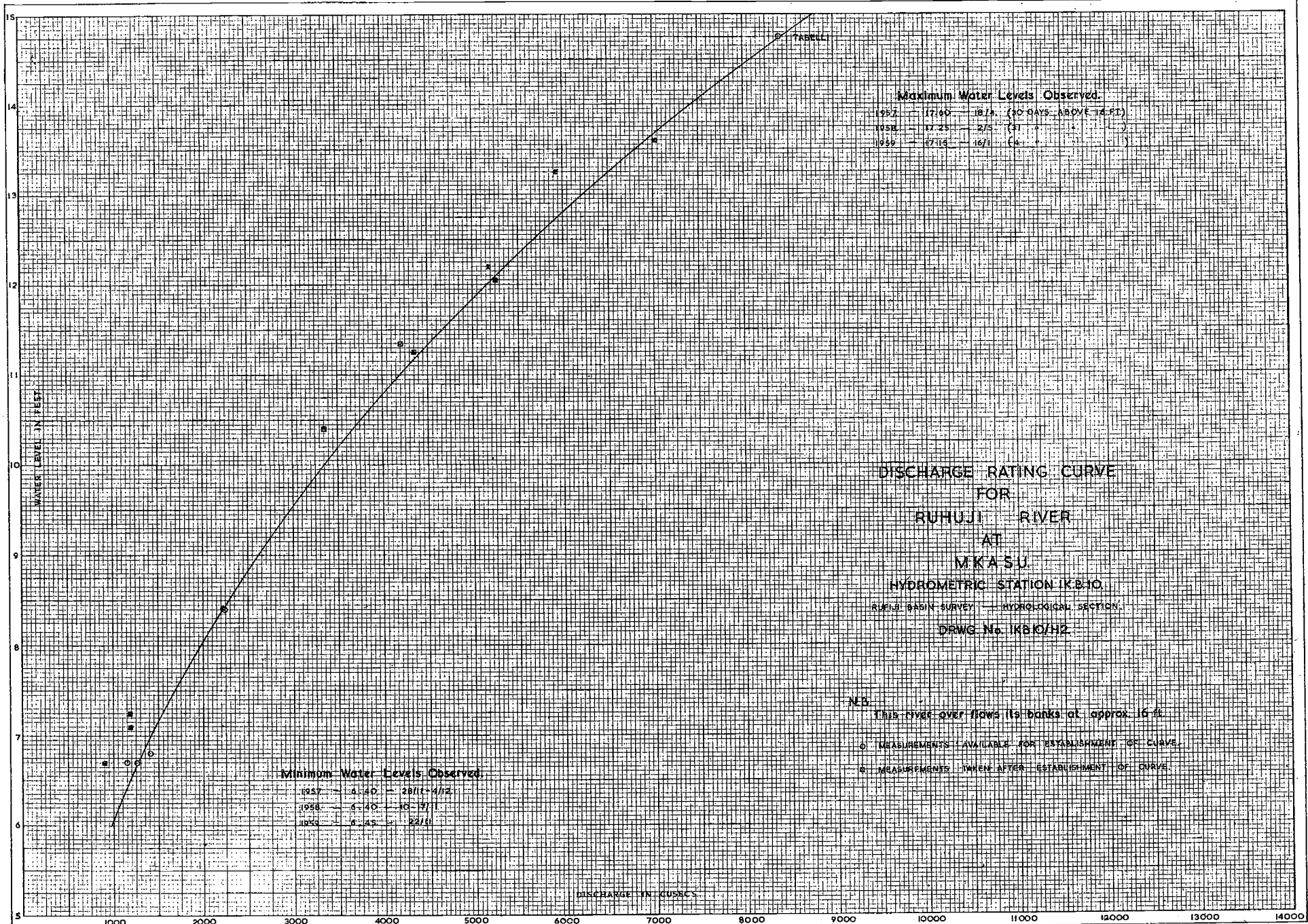
DISCHARGE RATING CURVE  
 FOR  
 FUAGI RIVER  
 AT  
 LIVALONGA BRIDGE  
 D/S  
 HYDROMETRIC STATION #82  
 SUBJECT: BASIN SURVEY - HYDROLOGICAL SECTION  
 DRAWG. NO. 1102/112

DISCHARGE IN CFS

WATER LEVEL IN FEET







**Maximum Water Levels Observed:**

1957	17160	18 1/2	(10 DAYS ABOVE 14 FT)
1958	17225	27 1/2	(1)
1959	17115	16 1/2	(1)

DISCHARGE RATING CURVE  
 FOR  
 RUHUJI RIVER  
 AT  
 M.K.A.S.U.  
 HYDROMETRIC STATION I.K.B.10.  
 RUHUJI BASIN SURVEY — HYDROLOGICAL SECTION  
 DRWG No. I.K.B.10/H2

**Minimum Water Levels Observed:**

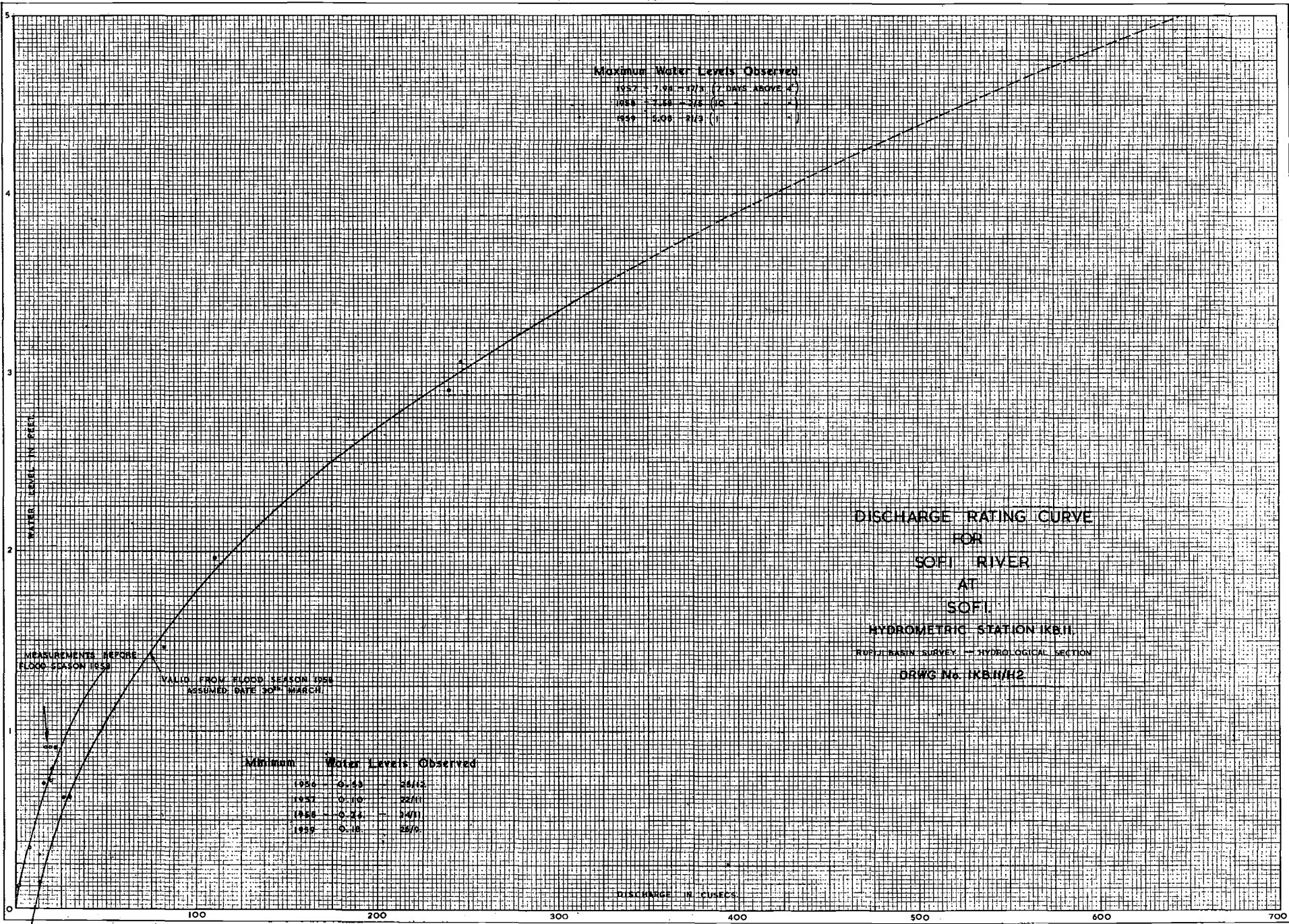
1957	4.40	28/11-4/12
1958	4.40	10-9/11
1959	6.45	22/11

NOTE: This river over flows its banks at approx 16 ft.  
 ○ MEASUREMENTS AVAILABLE FOR ESTABLISHMENT OF CURVE.  
 ■ MEASUREMENTS TAKEN AFTER ESTABLISHMENT OF CURVE.

DISCHARGE IN CUSECS

WATER LEVEL IN FEET

TABELL



Maximum Water Levels Observed  
 1957 - 1.98 - 17/5 (7 DAYS ABOVE 4)  
 1988 - 1.28 - 3/5 (10) - - - - -  
 1989 - 0.09 - 2/3 ( ) - - - - -

DISCHARGE RATING CURVE  
 FOR  
 SOFI RIVER  
 AT  
 SOFI  
 HYDROMETRIC STATION IKBH  
 RUPPI BASIN SURVEY - HYDROLOGICAL SECTION  
 DRWG No. IKBH/H2

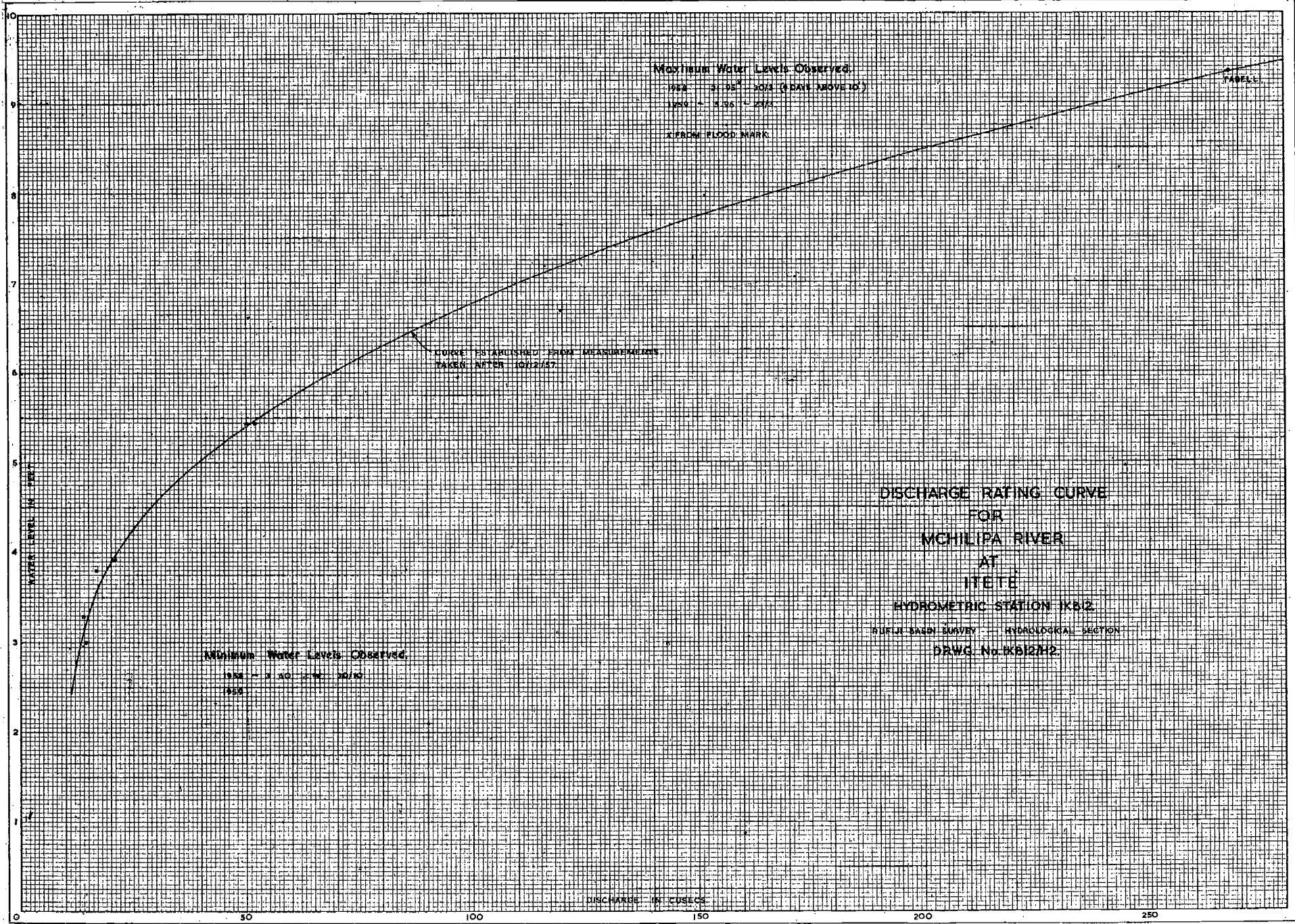
MEASUREMENTS BEFORE  
 FLOOD SEASON 1988  
 VALID FROM FLOOD SEASON 1988  
 ASSUMED DATE 30th MARCH

Minimum Water Levels Observed  
 1986 - 0.53 - 28/12  
 1987 - 0.10 - 22/11  
 1988 - 0.24 - 14/11  
 1989 - 0.18 - 28/9

DISCHARGE IN CU SECS

WATER LEVEL IN FEET

100 200 300 400 500 600 700



Maximum Water Levels Observed.  
 1950 - 2/28 - 2074 (9 DAYS ABOVE 10)  
 1950 - 5/26 - 2272  
 X FROM FLOOD MARK.

CURVE ESTABLISHED FROM MEASUREMENTS  
 TAKEN AFTER 10/12/47.

Minimum Water Levels Observed.  
 1950 - 1/30 - 2174 20/50  
 1950

DISCHARGE RATING CURVE  
 FOR  
 MCHILIPA RIVER  
 AT  
 ITETE  
 HYDROMETRIC STATION 1K82  
 BURTI BARR SURVEY HYDROLOGICAL SECTION  
 DRAWG. No. 1K82/H2.

DISCHARGE - IN CUSECS

10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0

50 100 150 200 250

